

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

FORM 3

AMENDED REPORT **APPLICATION FOR PERMIT TO DRILL**

2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				1. WELL NAME and NUMBER Greater Boundary II Federal R-21-8-17		
4. TYPE OF WELL Oil Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>				3. FIELD OR WILDCAT MONUMENT BUTTE		
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY				5. UNIT or COMMUNITIZATION AGREEMENT NAME GREATER BOUNDARY II (GR)		
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052				7. OPERATOR PHONE 435 646-4825		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-76954		11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		9. OPERATOR E-MAIL mcrozier@newfield.com		
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Nolan and Alta Giles				12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP
LOCATION AT SURFACE		1992 FSL 1955 FEL		NWSE	21	8.0 S
Top of Uppermost Producing Zone		1280 FSL 2574 FEL		SWSE	21	17.0 E
At Total Depth		1280 FSL 2574 FEL		SWSE	21	17.0 E
21. COUNTY DUCHESNE		22. DISTANCE TO NEAREST LEASE LINE (Feet) 1280		23. NUMBER OF ACRES IN DRILLING UNIT 20		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1485		26. PROPOSED DEPTH MD: 6672 TVD: 6672		
27. ELEVATION - GROUND LEVEL 5225		28. BOND NUMBER		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-7478		

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Mandie Crozier	TITLE Regulatory Tech	PHONE 435 646-4825
SIGNATURE	DATE 09/22/2009	EMAIL mcrozier@newfield.com
API NUMBER ASSIGNED 43013501260000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	5.5	0	6672		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	6672	15.5			

Proposed Hole, Casing, and Cement

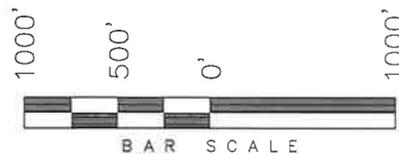
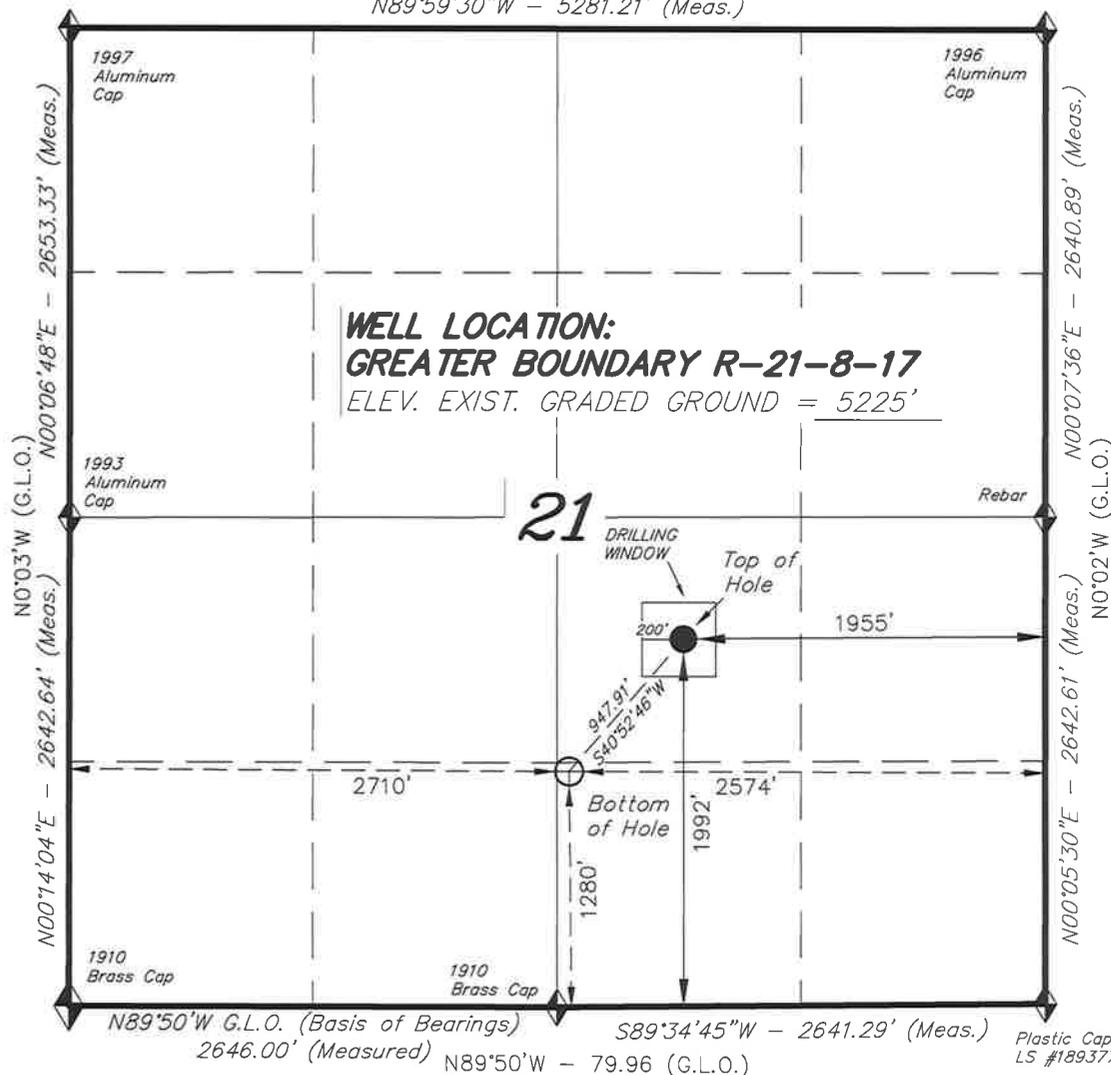
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	8.625	0	300		
Pipe	Grade	Length	Weight			
	Grade J-55 ST&C	300	24.0			

T8S, R17E, S.L.B.&M.

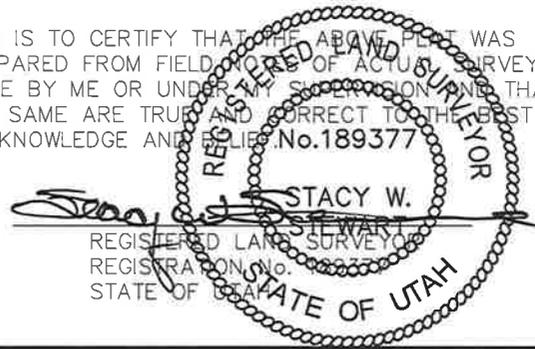
S89°48'W - 79.94 (G.L.O.)
 N89°59'30"W - 5281.21' (Meas.)

NEWFIELD PRODUCTION COMPANY

WELL LOCATION, GREATER BOUNDARY
 R-21-8-17, LOCATED AS SHOWN IN THE
 NW 1/4 SE 1/4 OF SECTION 21, T8S,
 R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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



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

DATE SURVEYED: 12-03-08	SURVEYED BY: A.C.
DATE DRAWN: 12-16-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

◆ = SECTION CORNERS LOCATED

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

GREATER BOUNDARY R-21-8-17
 (Surface Location) NAD 83
 LATITUDE = 40° 06' 06.01"
 LONGITUDE = 110° 00' 32.38"

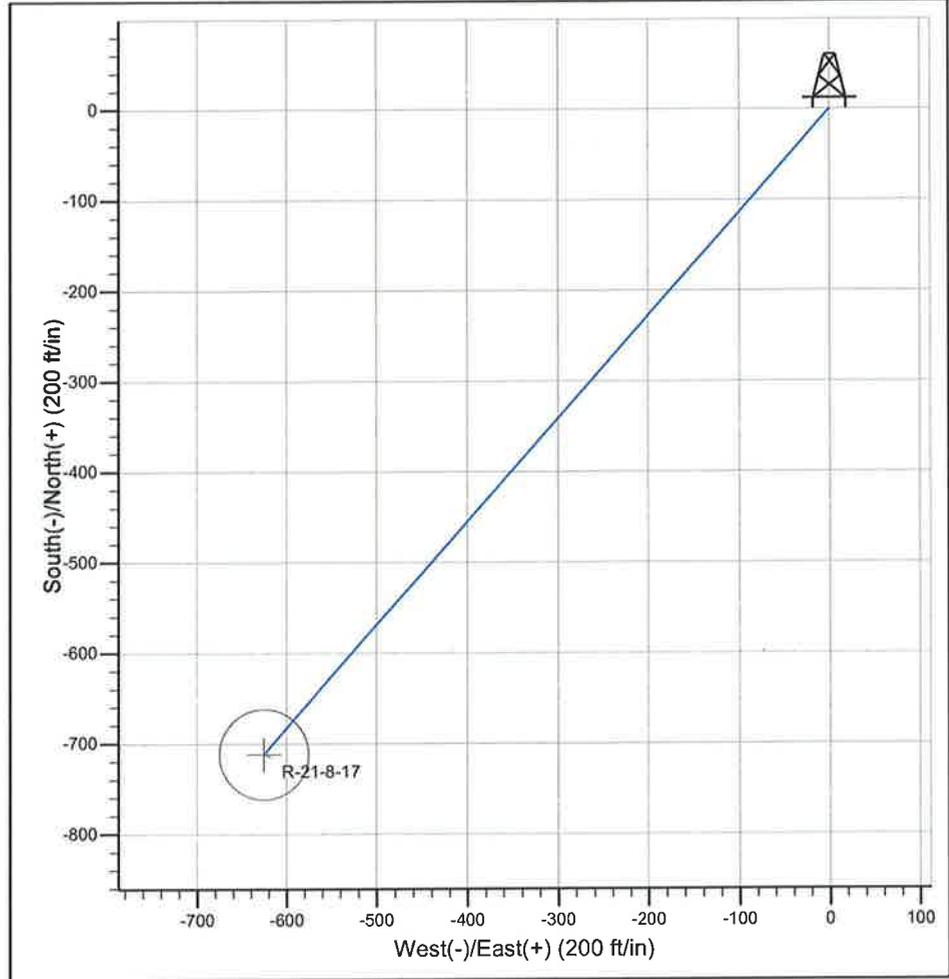
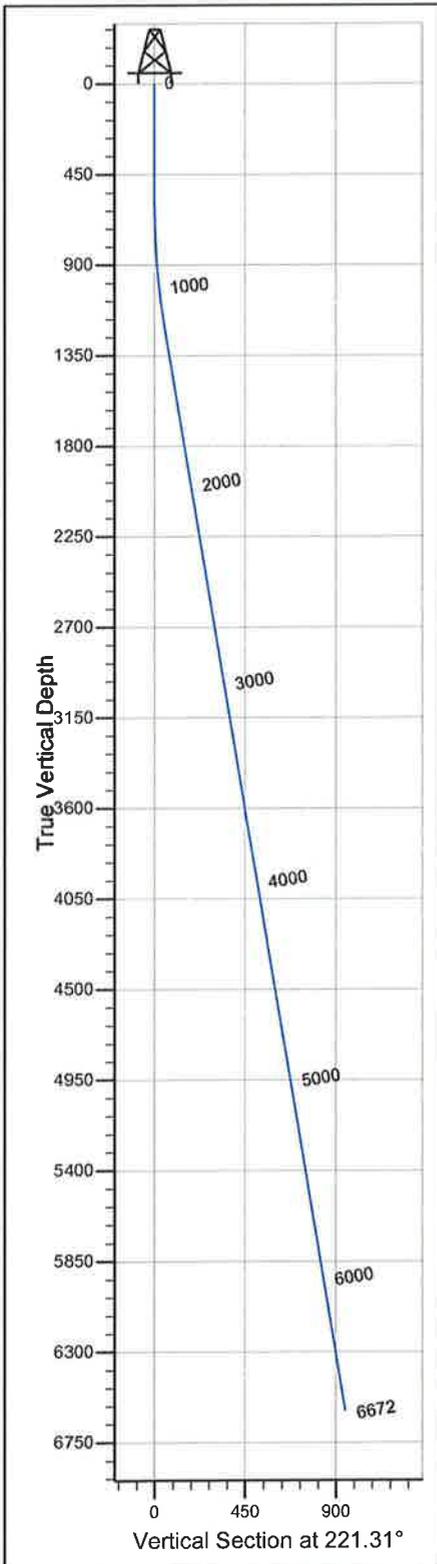
NEWFIELD



ROCKY MOUNTAINS

Newfield Production Company

Project: Monument Butte
Site: Greater Boundary R-21-8-17
Well: Greater Boundary R-21-8-17
Wellbore: Wellbore #1
Design: Design #1



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1231.8	9.48	221.31	1228.9	-39.2	-34.4	1.50	221.31	52.1	
4	6672.1	9.48	221.31	6595.0	-712.0	-625.7	0.00	0.00	947.9	R-21-8-17

PROJECT DETAILS: Monument Butte

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

Azimuths to True North
Magnetic North: 11.58°

Magnetic Field
Strength: 52563.0snT
Dip Angle: 65.92°
Date: 3/11/2009
Model: IGRF200510

Created by: Hans Wychgram

Date: 03-11-2009

Newfield Exploration Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Greater Boundary R-21-8-17
Company:	Newfield Production Company	TVD Reference:	RKB @ 5237.0ft (NDSI #2)
Project:	Monument Butte	MD Reference:	RKB @ 5237.0ft (NDSI #2)
Site:	Greater Boundary R-21-8-17	North Reference:	True
Well:	Greater Boundary R-21-8-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Monument Butte		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	Greater Boundary R-21-8-17				
Site Position:		Northing:	2,197,378.73 m	Latitude:	40° 6' 6.010 N
From:	Lat/Long	Easting:	627,116.31 m	Longitude:	110° 0' 32.380 W
Position Uncertainty:	0.0 ft	Slot Radius:	in	Grid Convergence:	0.96 °

Well	Greater Boundary R-21-8-17					
Well Position	+N/-S	0.0 ft	Northing:	2,197,378.73 m	Latitude:	40° 6' 6.010 N
	+E/-W	0.0 ft	Easting:	627,116.31 m	Longitude:	110° 0' 32.380 W
Position Uncertainty	0.0 ft		Wellhead Elevation:	ft	Ground Level:	5,225.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	3/11/2009	11.58	65.92	52,563

Design	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	221.31	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,231.8	9.48	221.31	1,228.9	-39.2	-34.4	1.50	1.50	0.00	221.31	
6,672.1	9.48	221.31	6,595.0	-712.0	-625.7	0.00	0.00	0.00	0.00	R-21-8-17

Newfield Exploration Planning Report

Database: EDM 2003.21 Single User Db
Company: Newfield Production Company
Project: Monument Butte
Site: Greater Boundary R-21-8-17
Well: Greater Boundary R-21-8-17
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Greater Boundary R-21-8-17
TVD Reference: RKB @ 5237.0ft (NDSI #2)
MD Reference: RKB @ 5237.0ft (NDSI #2)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned 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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	221.31	700.0	-1.0	-0.9	1.3	1.50	1.50	0.00
800.0	3.00	221.31	799.9	-3.9	-3.5	5.2	1.50	1.50	0.00
900.0	4.50	221.31	899.7	-8.8	-7.8	11.8	1.50	1.50	0.00
1,000.0	6.00	221.31	999.3	-15.7	-13.8	20.9	1.50	1.50	0.00
1,100.0	7.50	221.31	1,098.6	-24.5	-21.6	32.7	1.50	1.50	0.00
1,200.0	9.00	221.31	1,197.5	-35.3	-31.0	47.0	1.50	1.50	0.00
1,231.8	9.48	221.31	1,228.9	-39.2	-34.4	52.1	1.50	1.50	0.00
1,300.0	9.48	221.31	1,296.2	-47.6	-41.8	63.4	0.00	0.00	0.00
1,400.0	9.48	221.31	1,394.8	-60.0	-52.7	79.8	0.00	0.00	0.00
1,500.0	9.48	221.31	1,493.5	-72.3	-63.6	96.3	0.00	0.00	0.00
1,600.0	9.48	221.31	1,592.1	-84.7	-74.4	112.8	0.00	0.00	0.00
1,700.0	9.48	221.31	1,690.7	-97.1	-85.3	129.2	0.00	0.00	0.00
1,800.0	9.48	221.31	1,789.4	-109.4	-96.2	145.7	0.00	0.00	0.00
1,900.0	9.48	221.31	1,888.0	-121.8	-107.0	162.2	0.00	0.00	0.00
2,000.0	9.48	221.31	1,986.6	-134.2	-117.9	178.6	0.00	0.00	0.00
2,100.0	9.48	221.31	2,085.3	-146.5	-128.8	195.1	0.00	0.00	0.00
2,200.0	9.48	221.31	2,183.9	-158.9	-139.7	211.6	0.00	0.00	0.00
2,300.0	9.48	221.31	2,282.5	-171.3	-150.5	228.0	0.00	0.00	0.00
2,400.0	9.48	221.31	2,381.2	-183.6	-161.4	244.5	0.00	0.00	0.00
2,500.0	9.48	221.31	2,479.8	-196.0	-172.3	260.9	0.00	0.00	0.00
2,600.0	9.48	221.31	2,578.4	-208.4	-183.1	277.4	0.00	0.00	0.00
2,700.0	9.48	221.31	2,677.1	-220.7	-194.0	293.9	0.00	0.00	0.00
2,800.0	9.48	221.31	2,775.7	-233.1	-204.9	310.3	0.00	0.00	0.00
2,900.0	9.48	221.31	2,874.4	-245.5	-215.7	326.8	0.00	0.00	0.00
3,000.0	9.48	221.31	2,973.0	-257.9	-226.6	343.3	0.00	0.00	0.00
3,100.0	9.48	221.31	3,071.6	-270.2	-237.5	359.7	0.00	0.00	0.00
3,200.0	9.48	221.31	3,170.3	-282.6	-248.3	376.2	0.00	0.00	0.00
3,300.0	9.48	221.31	3,268.9	-295.0	-259.2	392.7	0.00	0.00	0.00
3,400.0	9.48	221.31	3,367.5	-307.3	-270.1	409.1	0.00	0.00	0.00
3,500.0	9.48	221.31	3,466.2	-319.7	-281.0	425.6	0.00	0.00	0.00
3,600.0	9.48	221.31	3,564.8	-332.1	-291.8	442.1	0.00	0.00	0.00
3,700.0	9.48	221.31	3,663.4	-344.4	-302.7	458.5	0.00	0.00	0.00
3,800.0	9.48	221.31	3,762.1	-356.8	-313.6	475.0	0.00	0.00	0.00
3,900.0	9.48	221.31	3,860.7	-369.2	-324.4	491.5	0.00	0.00	0.00
4,000.0	9.48	221.31	3,959.3	-381.5	-335.3	507.9	0.00	0.00	0.00
4,100.0	9.48	221.31	4,058.0	-393.9	-346.2	524.4	0.00	0.00	0.00
4,200.0	9.48	221.31	4,156.6	-406.3	-357.0	540.9	0.00	0.00	0.00
4,300.0	9.48	221.31	4,255.2	-418.6	-367.9	557.3	0.00	0.00	0.00
4,400.0	9.48	221.31	4,353.9	-431.0	-378.8	573.8	0.00	0.00	0.00
4,500.0	9.48	221.31	4,452.5	-443.4	-389.6	590.3	0.00	0.00	0.00
4,600.0	9.48	221.31	4,551.2	-455.7	-400.5	606.7	0.00	0.00	0.00
4,700.0	9.48	221.31	4,649.8	-468.1	-411.4	623.2	0.00	0.00	0.00
4,800.0	9.48	221.31	4,748.4	-480.5	-422.3	639.7	0.00	0.00	0.00
4,900.0	9.48	221.31	4,847.1	-492.8	-433.1	656.1	0.00	0.00	0.00
5,000.0	9.48	221.31	4,945.7	-505.2	-444.0	672.6	0.00	0.00	0.00
5,100.0	9.48	221.31	5,044.3	-517.6	-454.9	689.1	0.00	0.00	0.00
5,200.0	9.48	221.31	5,143.0	-529.9	-465.7	705.5	0.00	0.00	0.00

Newfield Exploration Planning Report

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Design: Design #1

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North Reference: True
Survey Calculation Method: Minimum Curvature

Planned 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)
5,300.0	9.48	221.31	5,241.6	-542.3	-476.6	722.0	0.00	0.00	0.00
5,400.0	9.48	221.31	5,340.2	-554.7	-487.5	738.4	0.00	0.00	0.00
5,500.0	9.48	221.31	5,438.9	-567.1	-498.3	754.9	0.00	0.00	0.00
5,600.0	9.48	221.31	5,537.5	-579.4	-509.2	771.4	0.00	0.00	0.00
5,700.0	9.48	221.31	5,636.1	-591.8	-520.1	787.8	0.00	0.00	0.00
5,800.0	9.48	221.31	5,734.8	-604.2	-531.0	804.3	0.00	0.00	0.00
5,900.0	9.48	221.31	5,833.4	-616.5	-541.8	820.8	0.00	0.00	0.00
6,000.0	9.48	221.31	5,932.0	-628.9	-552.7	837.2	0.00	0.00	0.00
6,100.0	9.48	221.31	6,030.7	-641.3	-563.6	853.7	0.00	0.00	0.00
6,200.0	9.48	221.31	6,129.3	-653.6	-574.4	870.2	0.00	0.00	0.00
6,300.0	9.48	221.31	6,227.9	-666.0	-585.3	886.6	0.00	0.00	0.00

NEWFIELD PRODUCTION COMPANY
GREATER BOUNDARY II FEDERAL R-21-8-17
AT SURFACE: NW/SE SECTION 21, T8S, R17E
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0 – 1825'
Green River	1825'
Wasatch	6672'

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

Green River Formation 1825' – 6672' – Oil

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO ₃) (mg/l)
Dissolved Bicarbonate (NaHCO ₃) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO ₄) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

4. **PROPOSED CASING PROGRAM:**

Surface Casing: 8-5/8" J-55 24# w/ST&C collars; set at 300' (New)
Production Casing: 5-1/2" J-55, 15.5# w/LT&C collars; set at TD (New or used, inspected).

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to ±350 feet will be drilled with an air/mist system. From about 350 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite.

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

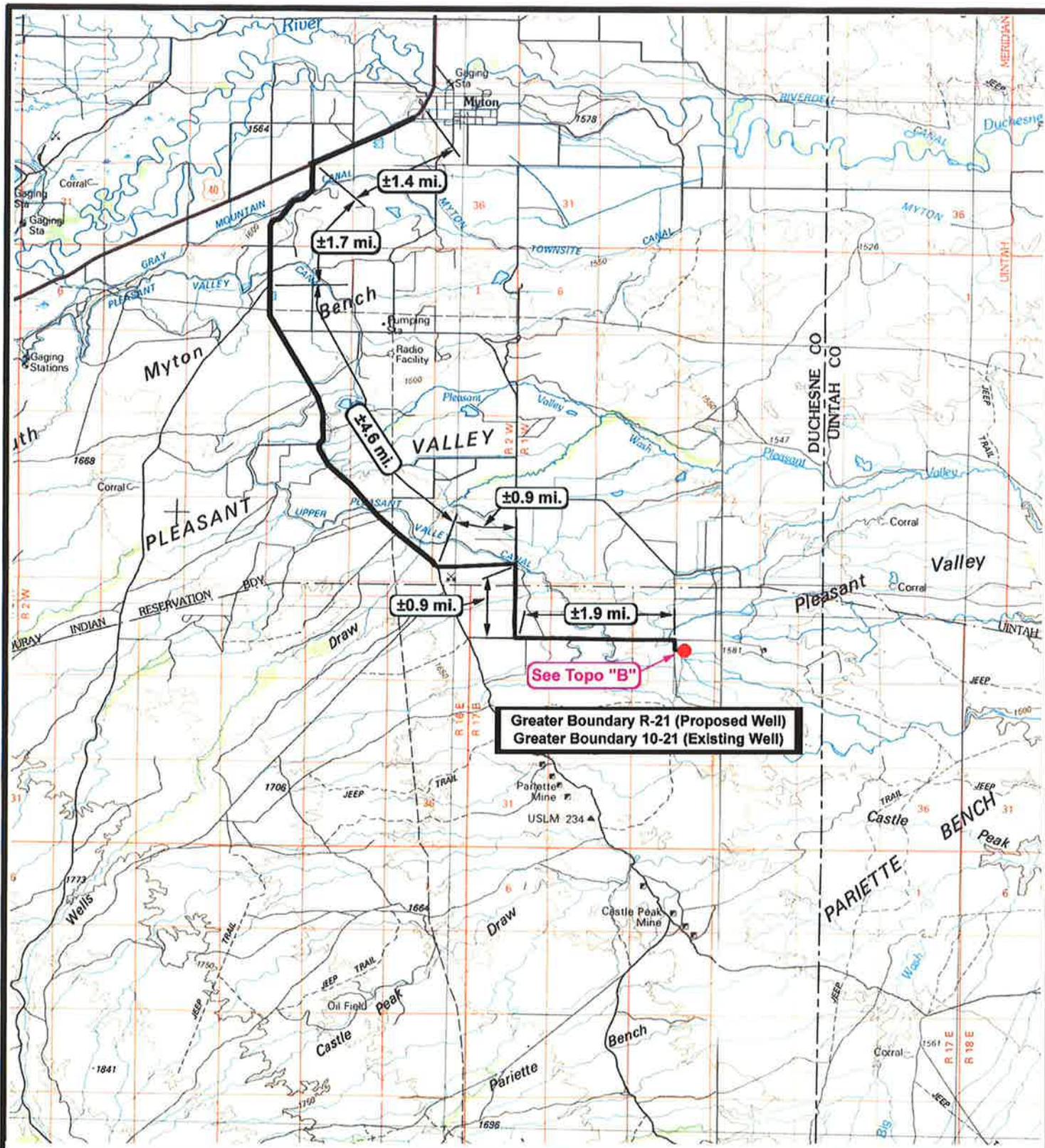
The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 300' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBD to cement top. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the fourth quarter of 2009, and take approximately seven (7) days from spud to rig release.



Greater Boundary R-21 (Proposed Well)
Greater Boundary 10-21 (Existing Well)

NEWFIELD
Exploration Company

Greater Boundary R-21-8-17 (Proposed Well)
Greater Boundary 10-21-8-17 (Existing Well)
 Pad Location NWSE SEC. 21, T8S, R17E, S.L.B.&M.



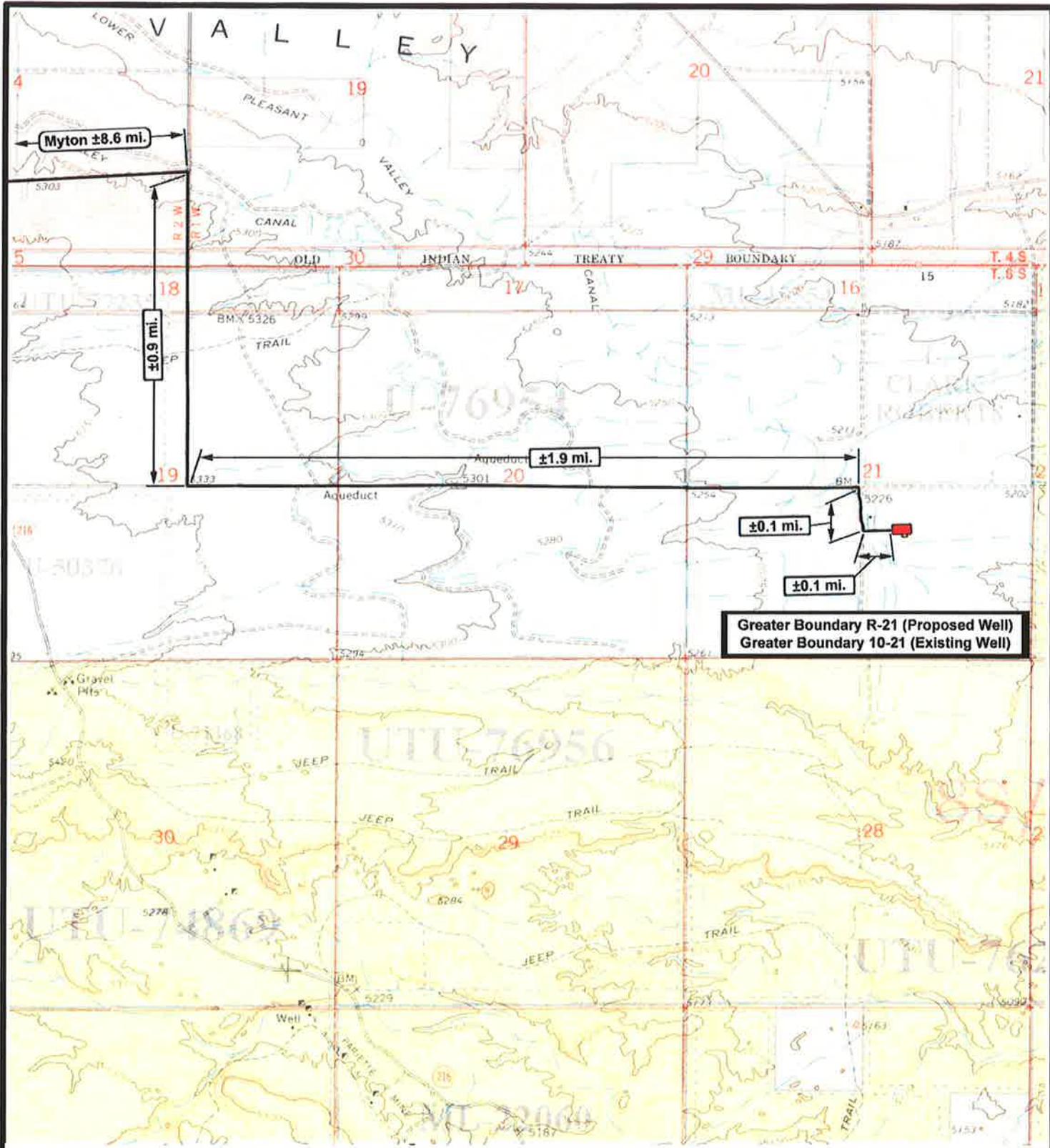
Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000
 DRAWN BY: mw
 DATE: 12-29-2008

Legend

- Existing Road
- Proposed Access

TOPOGRAPHIC MAP
"A"



Greater Boundary R-21 (Proposed Well)
Greater Boundary 10-21 (Existing Well)



NEWFIELD
Exploration Company

Greater Boundary R-21-8-17 (Proposed Well)
Greater Boundary 10-21-8-17 (Existing Well)
Pad Location NWSE SEC. 21, T8S, R17E, S.L.B.&M.



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

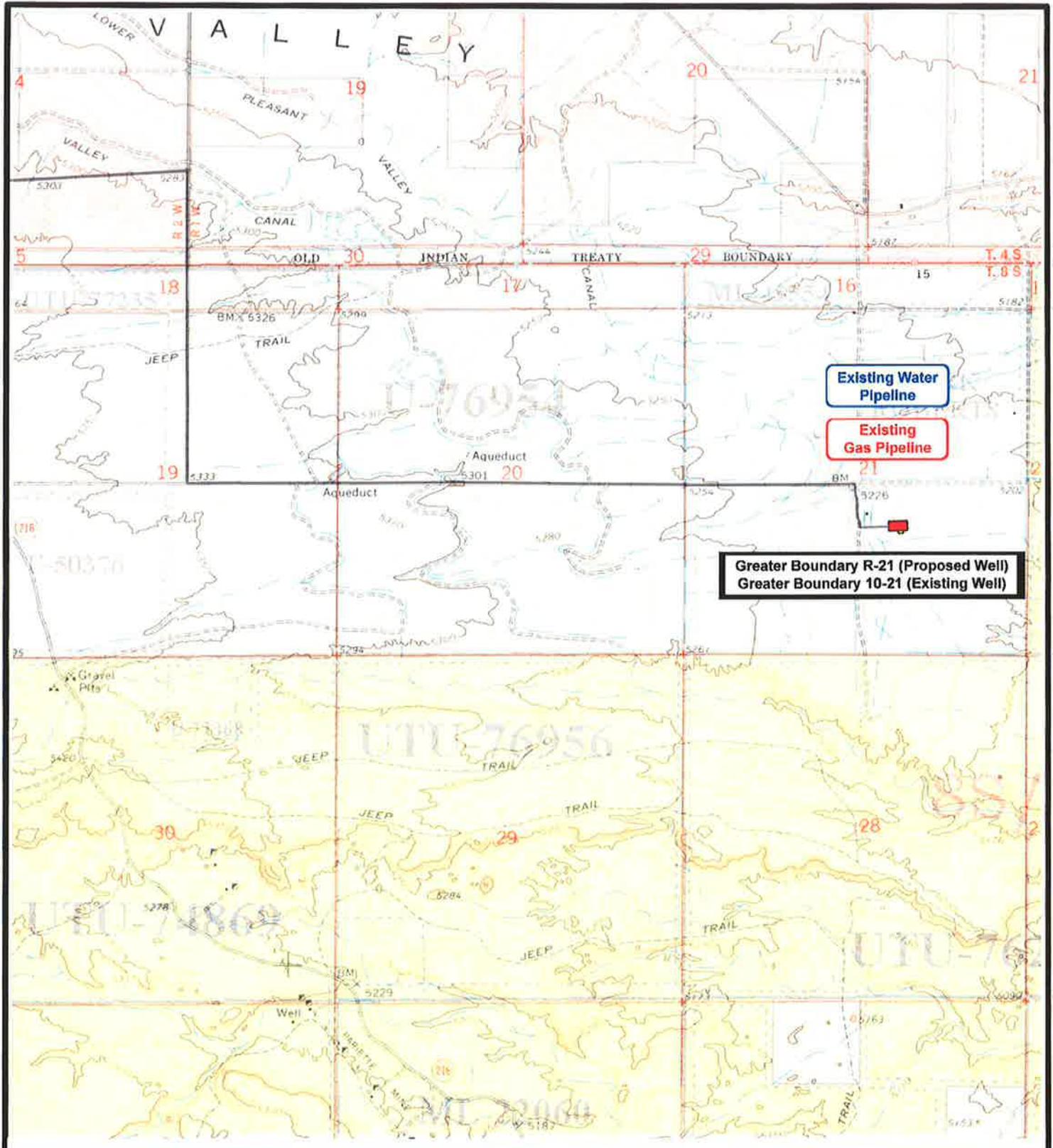
SCALE: 1" = 2,000'
DRAWN BY: mw
DATE: 12-29-2008

Legend

-  Existing Road
-  Proposed Access

TOPOGRAPHIC MAP

"B"



Greater Boundary R-21-8-17 (Proposed Well)
Greater Boundary 10-21-8-17 (Existing Well)
Pad Location NWSE SEC. 21, T8S, R17E, S.L.B.&M.



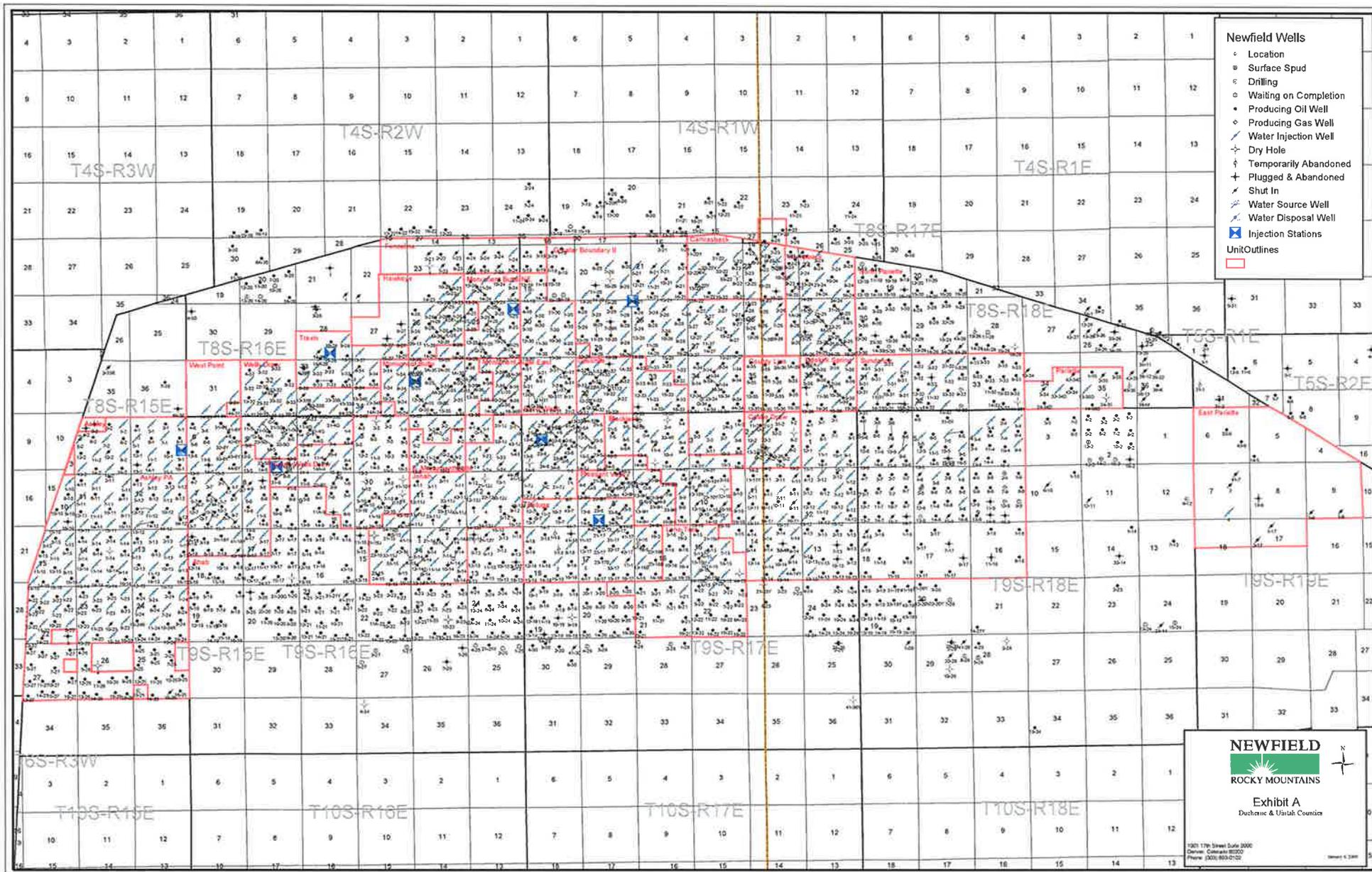
Tri-State
Land Surveying Inc.
 (435) 781-2501
 180 North Vernal Ave. Vernal, Utah 84078

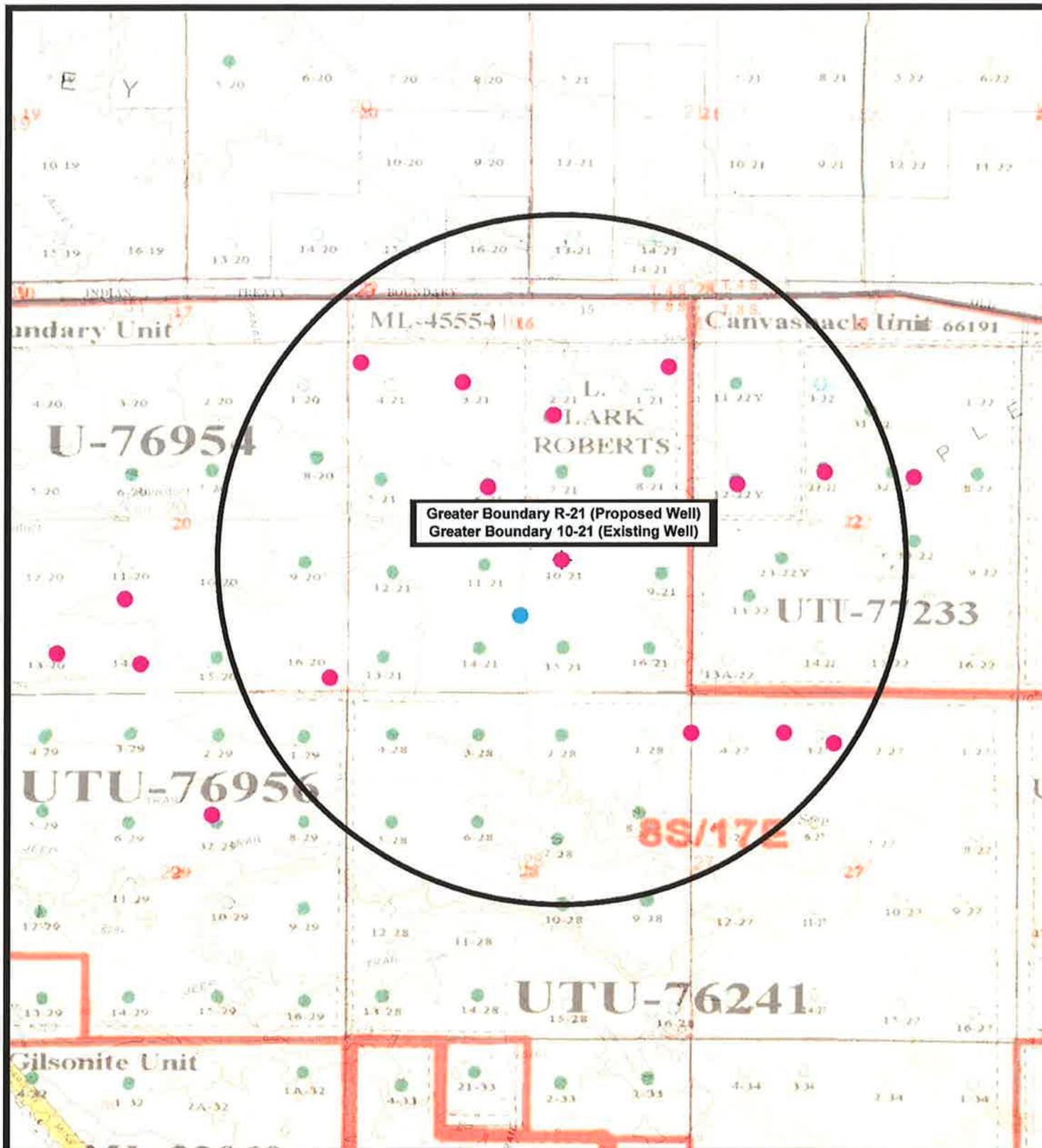
SCALE: 1" = 2,000'
DRAWN BY: mw
DATE: 12-29-2008

Legend

— Roads

TOPOGRAPHIC MAP
"C"





Greater Boundary R-21 (Proposed Well)
 Greater Boundary 10-21 (Existing Well)

NEWFIELD
Exploration Company

Greater Boundary R-21-8-17 (Proposed Well)
Greater Boundary 10-21-8-17 (Existing Well)
 Pad Location NWSE SEC. 21, T8S, R17E, 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: 12-29-2008

Legend

- Pad Location
- Bottom Hole Location
- One-Mile Radius

Exhibit "B"

NEWFIELD PRODUCTION COMPANY
GREATER BOUNDARY II FEDERAL R-21-8-17
AT SURFACE: NW/SE SECTION 21, T8S, R17E
DUCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. EXISTING ROADS

See attached **Topographic Map "A"**

To reach Newfield Production Company well location site Greater Boundary II Federal R-21-8-17 located in the NW ¼ SE ¼ Section 21, T8S, R17E, S.L.B. & M., Duchesne County, Utah:

Proceed in a southwesterly direction out of Myton, Utah along Highway 40 approximately 1.4 ± miles to the junction of this highway and Utah State Highway 53; proceed southeasterly approximately 6.3 miles ± to its junction with an existing road to the east; proceed easterly approximately 0.9 miles ± to its junction with an existing road to the south; proceed southerly approximately 0.9 miles ± to its junction with an existing road to the east; proceed easterly approximately 1.9 miles ± to its junction with an existing road to the south; proceed southerly approximately 0.1 miles ± to its junction with an existing road to the east; proceed easterly approximately 0.1 miles ± to the existing 10-21-8-17 well location.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled off of the existing 10-21-8-17 well pad. See attached **Topographic Map "B"**.

There will be no new gates or cattle guards required.

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 existing 10-21-8-17 well pad. There will be a pumping unit and a short flow line added to the existing tank battery for the proposed R-21-8-17.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted Carlsbad Canyon. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District
Water Right: 43-7478

Neil Moon Pond
Water Right: 43-11787

Maurice Harvey Pond
Water Right: 47-1358

Newfield Collector Well
Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

The proposed Greater Boundary II Federal R-21-8-17 will be drilled off of the existing 10-21-8-17 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

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.

8. **ANCILLARY FACILITIES:**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT:**

See attached Location Layout Sheet.

Fencing Requirements

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. **PLANS FOR RESTORATION OF SURFACE:**

a) **Producing Location**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) **Dry Hole Abandoned Location**

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP:** Nolan T. and Alta Giles.

12. **OTHER ADDITIONAL INFORMATION:**

- a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.
- b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

Additional Surface Stipulations

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

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the South Greater Boundary II Federal R-21-8-17, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the Greater Boundary II Federal R-21-8-17 Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

13. **LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**

Representative

Ten Point Well Program &
Thirteen Point Well Program
Page 8 of 8

Name: Tim Eaton
Address: Newfield Production Company
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 #R-21-8-17, NW/SE Section 21, T8S, R17E, 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 Bond #WYB000493.

I hereby certify that the proposed drill site 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 the 18 U.S.C. 1001 for the filing of a false statement.

8/27/09
Date


Mandie Crozier
Regulatory Specialist
Newfield Production Company

NEWFIELD PRODUCTION COMPANY

WELL PAD INTERFERENCE PLAT

GREATER BOUNDARY R-21-8-17 (Proposed Well)

GREATER BOUNDARY 10-21-8-17 (Existing Well)

Pad Location: NWSE Section 21, T8S, R17E, S.L.B.&M.

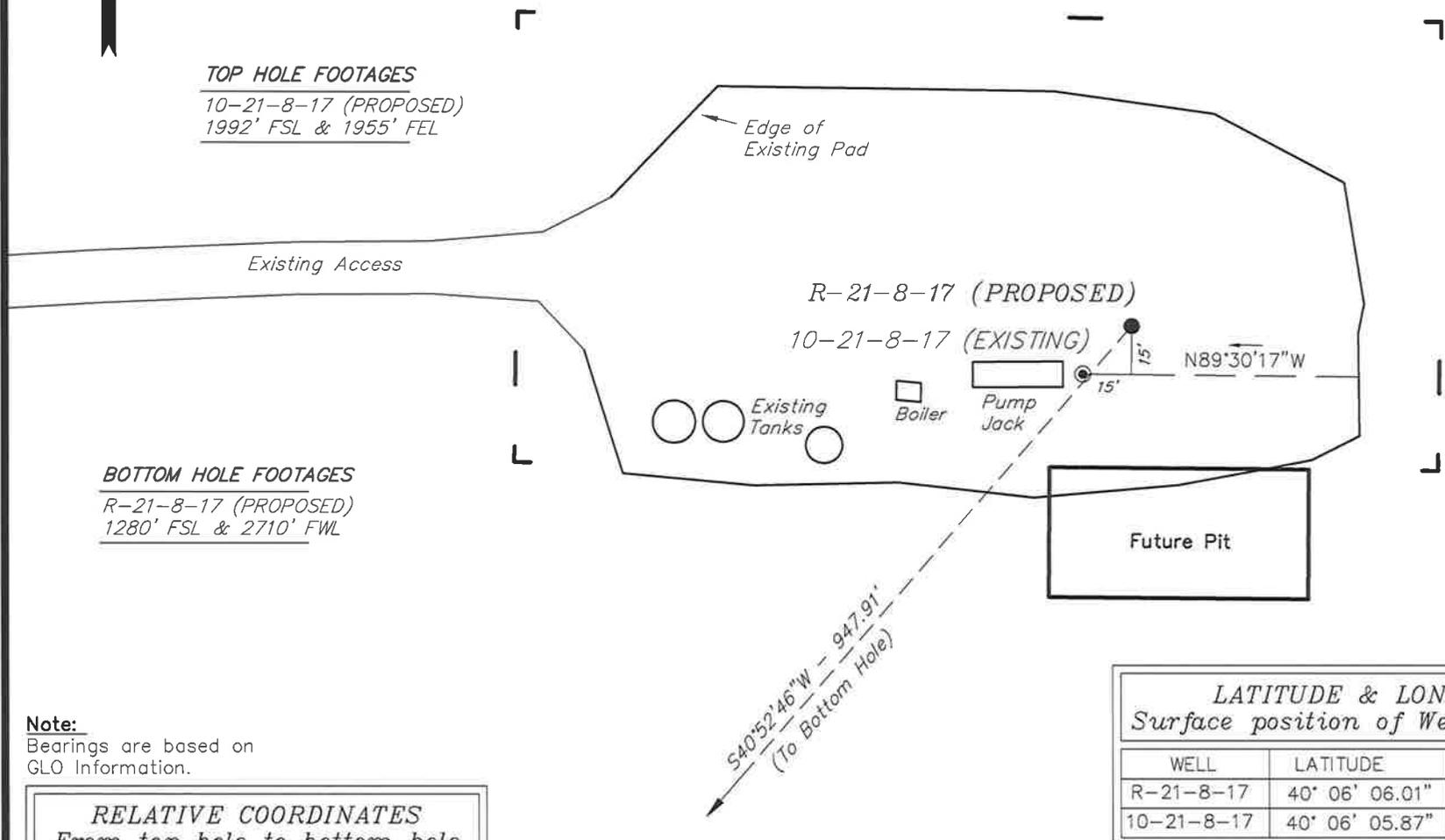


TOP HOLE FOOTAGES

10-21-8-17 (PROPOSED)
1992' FSL & 1955' FEL

BOTTOM HOLE FOOTAGES

R-21-8-17 (PROPOSED)
1280' FSL & 2710' FWL



Note:
Bearings are based on
GLO Information.

LATITUDE & LONGITUDE		
Surface position of Wells (NAD 83)		
WELL	LATITUDE	LONGITUDE
R-21-8-17	40° 06' 06.01"	110° 00' 32.38"
10-21-8-17	40° 06' 05.87"	110° 00' 32.57"

RELATIVE COORDINATES		
From top hole to bottom hole		
WELL	NORTH	EAST
R-21-8-17	-717'	-620'

SURVEYED BY: A.C.	DATE SURVEYED: 12-03-08
DRAWN BY: F.T.M.	DATE DRAWN: 12-16-08
SCALE: 1" = 50'	REVISED:

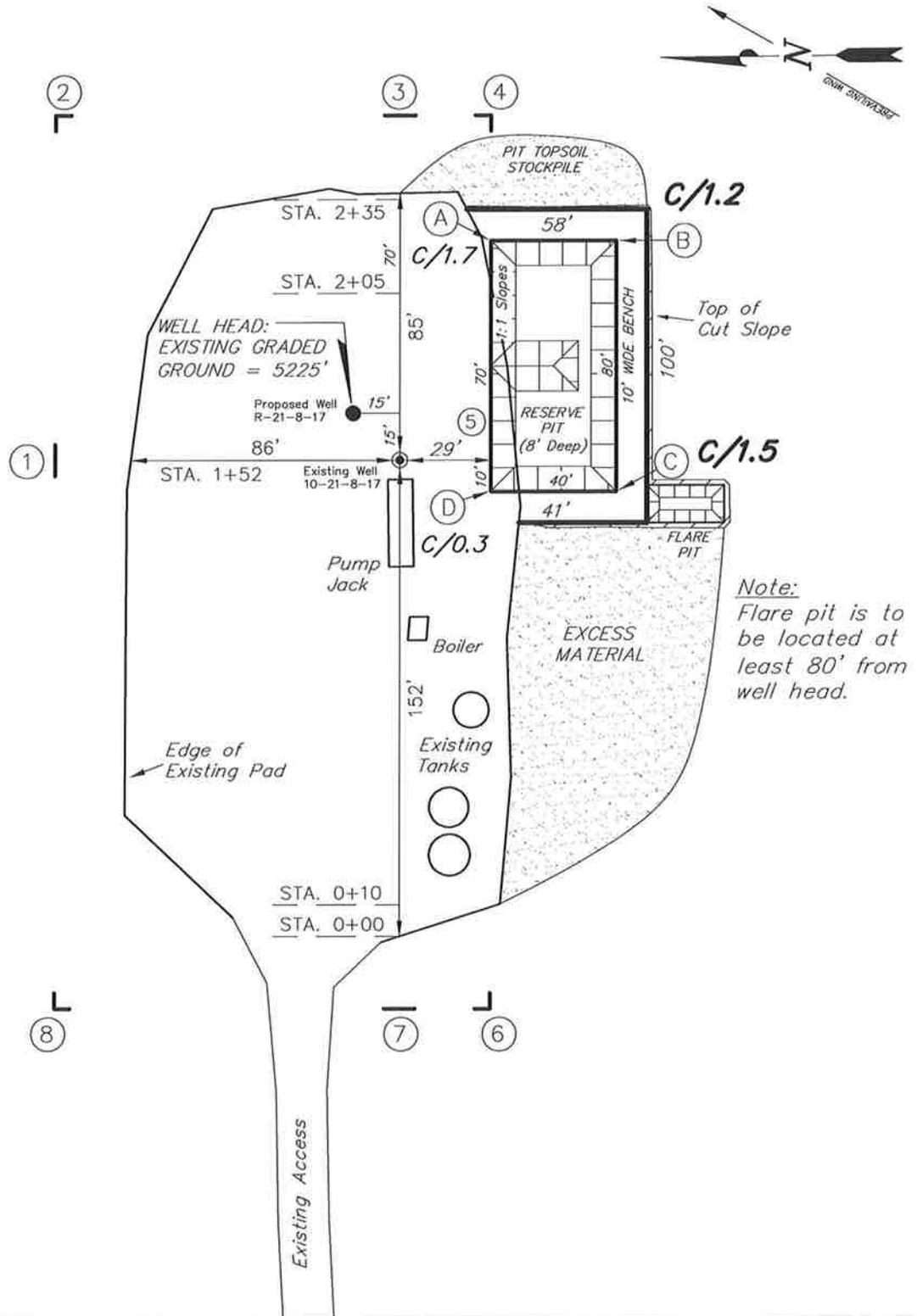
Tri State (435) 781-2501
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD PRODUCTION COMPANY

GREATER BOUNDARY R-21-8-17 (Proposed Well)

GREATER BOUNDARY 10-21-8-17 (Existing Well)

Pad Location: NWSE Section 21, T8S, R17E, S.L.B.&M.



SURVEYED BY: A.C.	DATE SURVEYED: 12-03-08
DRAWN BY: F.T.M.	DATE DRAWN: 12-16-08
SCALE: 1" = 50'	REVISED:

(435) 781-2501

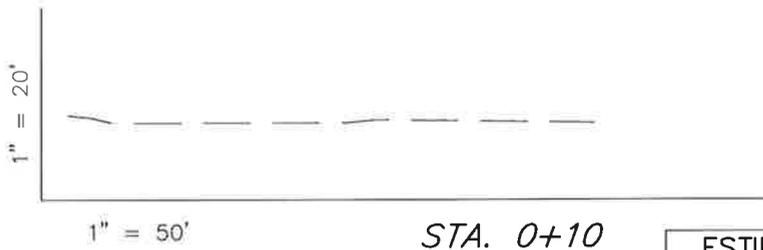
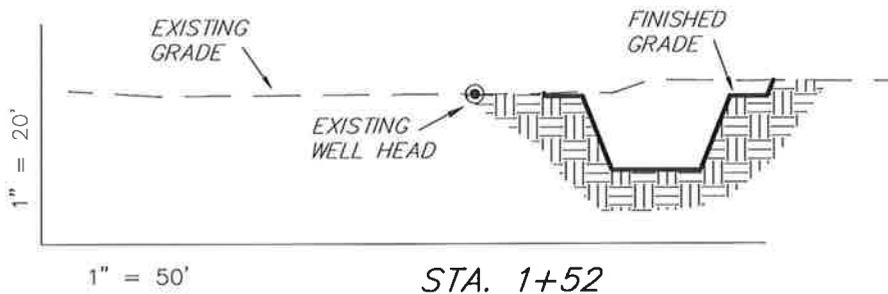
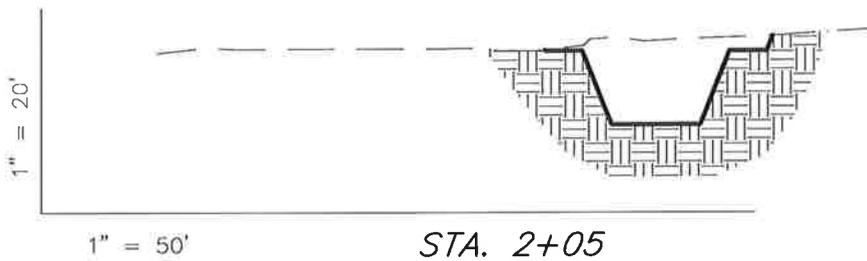
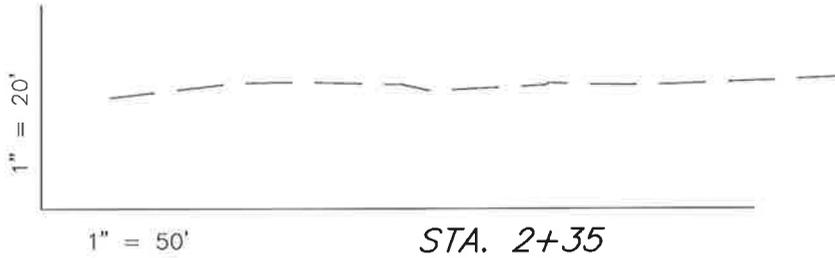
Tri State
Land Surveying, Inc.

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD PRODUCTION COMPANY

CROSS SECTIONS

GREATER BOUNDARY R-21-8-17 (Proposed Well)
 GREATER BOUNDARY 10-21-8-17 (Existing Well)



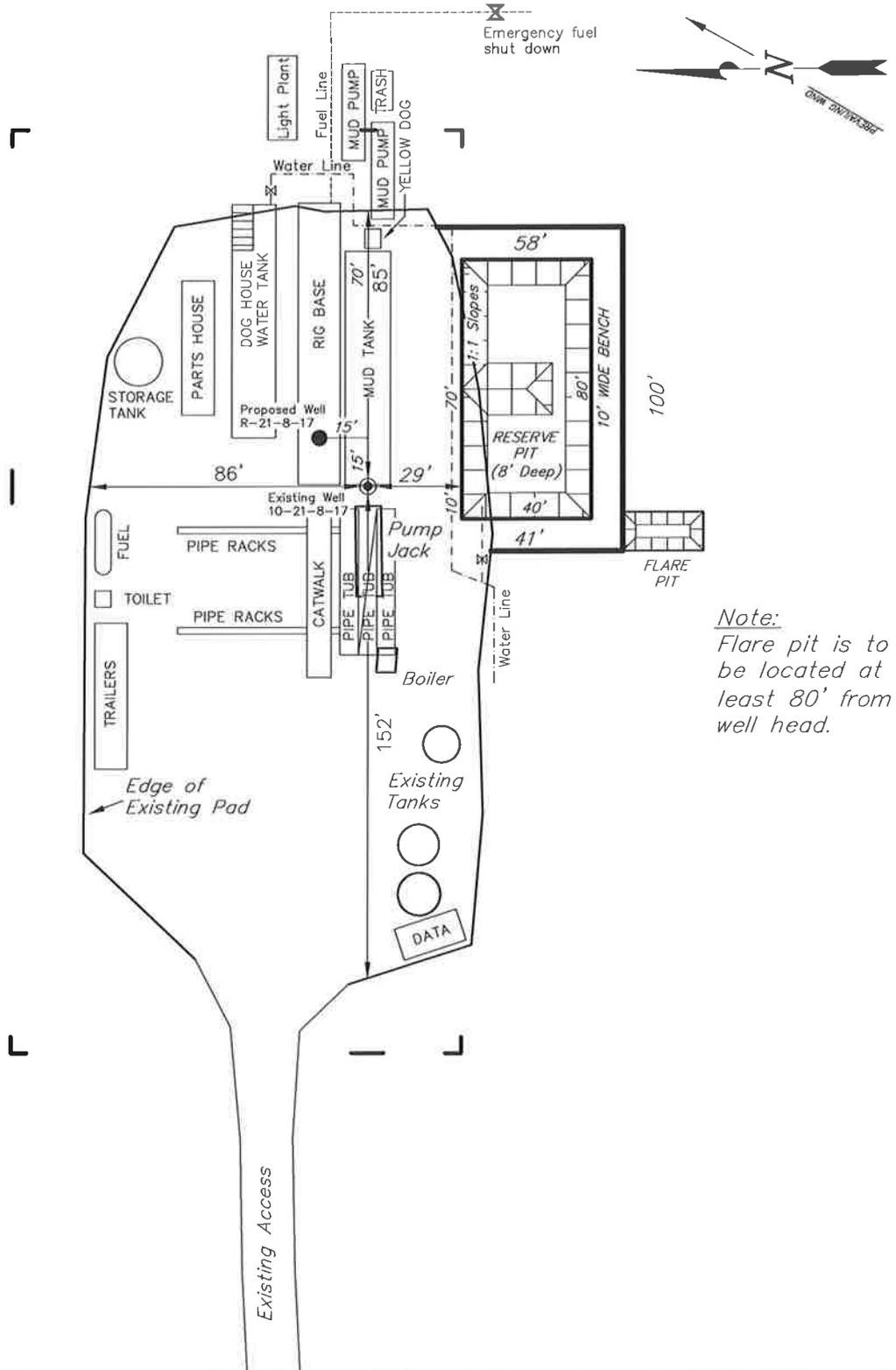
NOTE:
 UNLESS OTHERWISE NOTED
 CUT SLOPES ARE AT 1:1
 FILL SLOPES ARE AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	270	0	Topsoil is not included in Pad Cut	270
PIT	640	0		640
TOTALS	910	0	120	910

SURVEYED BY: A.C.	DATE SURVEYED: 12-03-08
DRAWN BY: F.T.M.	DATE DRAWN: 12-16-08
SCALE: 1" = 50'	REVISED:

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

NEWFIELD PRODUCTION COMPANY
TYPICAL RIG LAYOUT
GREATER BOUNDARY R-21-8-17 (Proposed Well)
GREATER BOUNDARY 10-21-8-17 (Existing Well)



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

SURVEYED BY: A.C.	DATE SURVEYED: 12-03-08
DRAWN BY: F.T.M.	DATE DRAWN: 12-16-08
SCALE: 1" = 50'	REVISED:

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

Newfield Production Company Proposed Site Facility Diagram

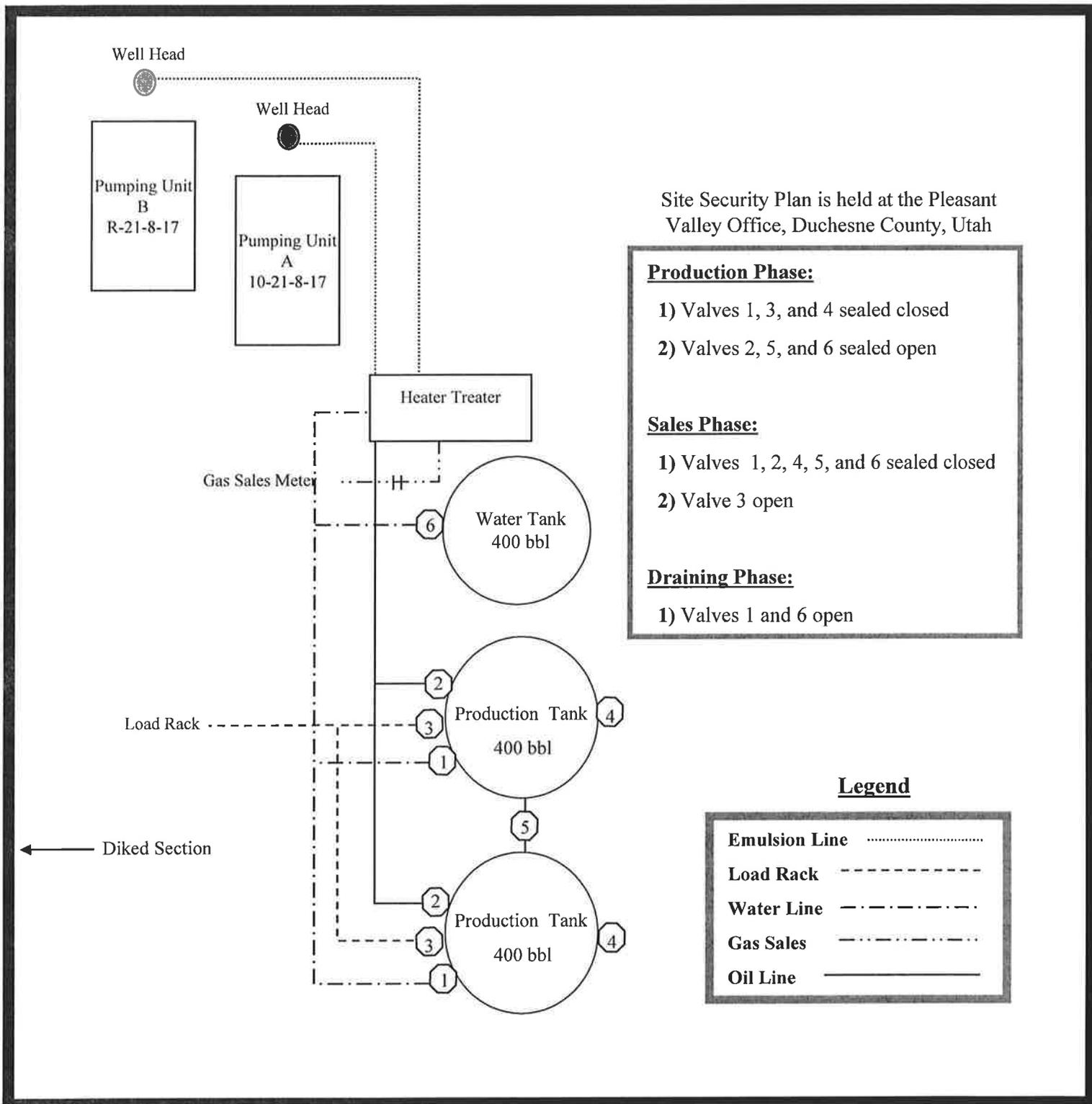
Greater Boundary II Federal R-21-8-17

From the Federal 10-21-8-17 Location

NW/SE Sec. 21 T8S, R17E

Duchesne County, Utah

UTU-76954



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

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

Legend

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

EXHIBIT D

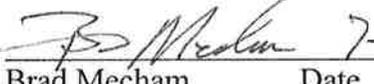
Township 8 South, Range 17 East, S.L. & M.
Section 21: SE¼ (9-21, 10-21, 15-21, & 16-21-8-17)
Section 27: W½NW¼ (4-27 & 5-27-8-17)
Section 28: N½NE¼ (1-28 & 2-28-8-17)

Duchesne County, Utah

ARCHAEOLOGICAL & PALEOTOLOGICAL REPORT WAIVER

For the above referenced locations; Nolan T. & Alta T. Giles Family Trust, the current Private Surface Owner. (Having a Surface Owner Agreement with Newfield Production Company)

Nolan T. Giles, representing this entity does agree to waive the request from the State of Utah and Bureau of Land Management for an Archaeological/Cultural and Paleotological Resource Survey for any wells covered by the Surface Use Agreement dated 9/12/02 between Joseph and Carol Shields and Newfield Production to which these lands are subject. This waiver hereby releases Newfield Production Company from this request.

	Date	7-1-2009		Date	7-1-09
Nolan T. Giles			Brad Mecham		
Private Surface Owner			Newfield Production Company		

Sunrise Title Company
550 East 200 North 118-3
Roosevelt, Utah 84066

E 362449 B A398 22
Date 11-JUN-2003 2:30pm
Fee: 12.00 Check
CAROLYNE B MADSEN, Recorder
Filed By CRY
For SUNRISE TITLE CO
DUCHESE COUNTY CORPORATION

Re: 103371
S/N 4878, 4886 & 4887

Mail Tax Notice To: Nolen and Alta Giles Family Trust
P.O. Box 411
Tabiona, Utah 84072

WARRANTY DEED

JOSEPH W. SHIELDS, grantors of Myton, County of Duchesne, State of Utah, hereby CONVEY and WARRANT to

NOLEN TOM GILES AND ALTA T. GILES, AS TRUSTEES OF THE NOLEN AND ALTA GILES FAMILY TRUST,

grantees of Tabiona, County of Duchesne, State of Utah, for the sum of TEN AND NO/100 DOLLARS, and other good and valuable considerations, the following described tract of land in Duchesne County, State of Utah:

TOWNSHIP 8 SOUTH, RANGE 17 EAST, SALT LAKE BASE AND MERIDIAN.
SECTION 21: Southeast Quarter.
SECTION 27: West one-half Northwest Quarter.
SECTION 28: North one-half Northeast Quarter.

INCLUDING all improvements and appurtenances thereto belonging.
INCLUDING Two Hundred Fifty (250) shares of Uintah Basin Irrigation water.
INCLUDING Royalties from oil wells located thereon.

SUBJECT TO greenbelt assessment roll back provisions.
SUBJECT TO rights-of-way and easements of record and/or enforceable in law and equity.

EXCEPTING AND RESERVING all gas, oil and other minerals.

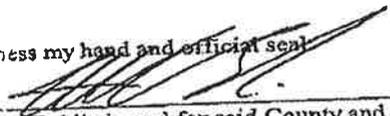
WITNESS, the hand of said grantors, this 5th day of June, A. D. 2003.

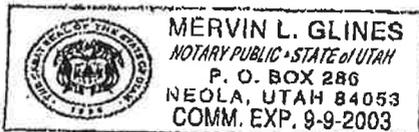

JOSEPH W. SHIELDS

STATE OF UTAH
County of Duchesne

)ss.

On this 5th day of June, 2003 before me, the undersigned Notary Public in and for said County and State, personally appeared JOSEPH W. SHIELDS [personally known to me] [() proved to me on the basis of satisfactory evidence] to be the persons whose names have subscribed to this instrument and acknowledged to me that they executed it.

Witness my hand and official seal

Notary Public in and for said County and State



WHEN RECORDED, MAIL TO
Inland Production Company
410 Seventeenth Street, Suite 700
Denver, Colorado 80202
Attn: Jeff Fandrich

E 357448 R 0381 P 207
Date 16-OCT-2002 0:51am
Fee: 16.00 Check
CAROLYNE B MADSEN, Recorder
Filed By CBM
For INLAND PRODUCTION CO
DUCESNE COUNTY CORPORATION

MEMORANDUM OF AGREEMENT

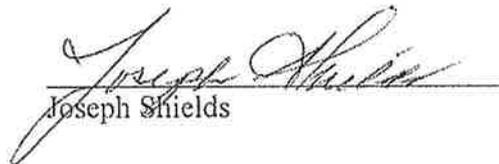
NOTICE IS HEREBY GIVEN that INLAND PRODUCTION COMPANY ("Inland"), a Texas corporation, having a mailing address at 410 Seventeenth Street, Suite 700, Denver, Colorado 80202, and JOSEPH AND CAROL SHIELDS (collectively, "Shields"), having a mailing address at Route 3, Box 3650, Myton, Utah 84053, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, have entered into that certain RESTATED AND AMENDED SURFACE AGREEMENT (the "Agreement") of even date herewith wherein Inland and Shields have agreed to particular matters regarding certain oil and gas operations conducted by Inland on real property owned by Shields located in Duchesne County, Utah, more fully described as:

Township 8 South, Range 17 East, S.L.B.& M.
Section 21: SE $\frac{1}{4}$
Section 27: W $\frac{1}{4}$ NW $\frac{1}{4}$
Section 28: N $\frac{1}{2}$ NE $\frac{1}{4}$

Reference is made to the Agreement for the particulars thereof. This Memorandum of Agreement ("Memorandum") is to be recorded in the Official Records of Duchesne County, Utah, for the purpose of giving record notice of the rights of Inland and Shields under the Agreement. This Memorandum, and the rights and obligations of the parties hereunder, are all subject to all of the terms and conditions of the Agreement. This Memorandum does not add to, supersede, replace, amend, or otherwise affect the Agreement. To the extent of any conflict or inconsistency between any provisions of this Memorandum and the provisions of the Agreement, the Agreement, and not this Memorandum, shall control and govern.

This Memorandum may be executed in any number of duplicate originals or counterparts, each of which (when the original signatures are affixed) shall be an original but all of which shall constitute one and the same instrument.

DATED this 12th day of September, 2002.


Joseph Shields

Carol Shields
Carol Shields

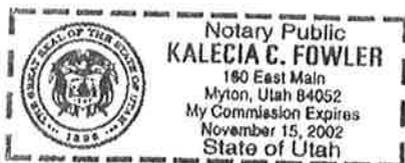
INLAND PRODUCTION COMPANY

By: _____
Its: _____

STATE OF UTAH)
 : ss.
COUNTY OF DUCHESNE)

The foregoing instrument was acknowledged before me this 12th day of September, 2002, by Joseph Shields and Carol Shields.

Kalecia C. Fowler
NOTARY PUBLIC AND SEAL



STATE OF COLORADO)
 : ss.
COUNTY OF)

The foregoing instrument was acknowledged before me this ____ day of September, 2002, by _____, the _____ of Inland Production Company, a Texas corporation..

NOTARY PUBLIC AND SEAL

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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

IN REPLY REFER TO:
3160
(UT-922)

August 28, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2009 Plan of Development Greater Boundary II Unit,
Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2009 within the Greater Boundary II Unit, Duchesne County, Utah.

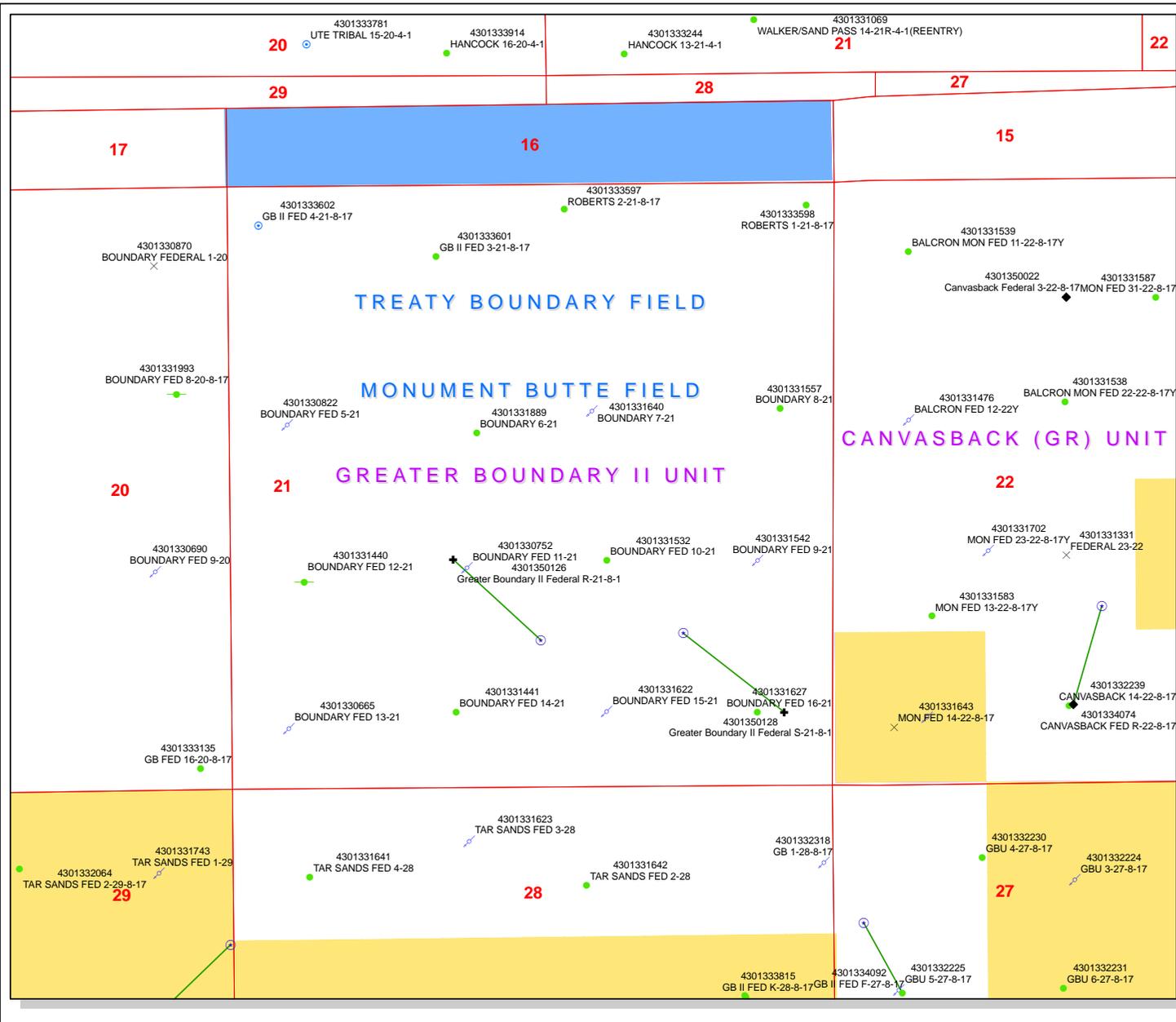
API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50126 GB II Fed R-21-8-17 Sec 21 T08S R17E 1992 FSL 1955 FWL		BHL Sec 21 T08S R17E 1280 FSL 2574 FEL

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

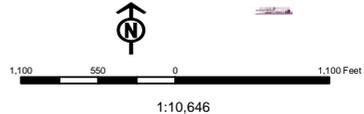
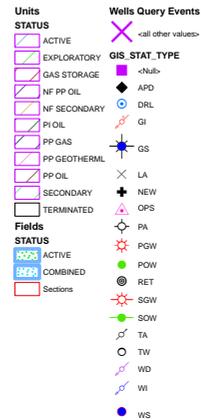
bcc: File – Greater Boundary Unit II
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:8-28-09



API Number: 4301350126
Well Name: Greater Boundary II Federal R-21-8-1
Township 08.0 S Range 17.0 E Section 21
Meridian: SLBM
Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
 Map Produced by Diana Mason





September 1, 2009

State of Utah, Division of Oil, Gas and Mining
ATTN: Diana Mason
PO Box 145801
Salt Lake City, UT 84114-5801

RE: Directional Drilling
Greater Boundary II Federal R-21-8-17
Greater Boundary II Unit
UTU-77098X
Surface Hole: T8S R17E, Section 21: NWSE
1992' FSL 1955' FEL
Bottom Hole: T8S R17E, Section 21
1280' FSL 2574' FEL
Duchesne County, Utah

1967

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated August 27, 2009, a copy of which is attached, for the above referenced well, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole location and bottom hole location of this well are both within the boundaries of the Greater Boundary II Unit UTU-77098X. Newfield certifies that it is the Greater Boundary II Unit Operator and all lands within 460 feet of the entire directional well bore are within the Greater Boundary II Unit.

NPC is permitting this well as a directional well in order to minimize surface disturbance. By directionally drilling from the referenced surface location, NPC will be able to utilize the existing roads and pipelines in this area.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at reveland@newfield.com. Your consideration of this matter is greatly appreciated.

Sincerely,

A handwritten signature in blue ink that reads "Roxann Eveland".

Roxann Eveland
Land Associate

RECEIVED

SEP 08 2009

DIV. OF OIL, GAS & MINING

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator	NEWFIELD PRODUCTION COMPANY				
Well Name	Greater Boundary II Federal R-21-8-17				
API Number	43013501260000	APD No	1967	Field/Unit	MONUMENT BUTTE
Location: 1/4,1/4	NWSE	Sec	21	Tw	8.0S Rng 17.0E
GPS Coord (UTM)	584535	4439307	Surface Owner	Nolan and Alta Giles	

Participants

Floyd Bartlett (DOGM), Tim Eaton, (Newfield Production Co.), Cory Miller and Cameron Stewart (Tri-State Land Surveying), Nolan Giles (Surface Owner)

Regional/Local Setting & Topography

The proposed Greater Boundary R-21-8-17 oil well is a directional well to be drilled from the existing pad of the Greater Boundary 10-21-8-17 producing oil well. No changes to the previously disturbed area are planned. The reserve pit will be re-dug in approximately the original location on the southeast side of the pad. It however will be moved north 15 feet within the previous disturbance to provide the 29 feet needed between well bore and the reserve pit. The well is on a 20-acre spacing.

A field review of the existing pad showed no concerns as it now exists and should be a suitable for drilling and operating the proposed additional well.

Mr. Nolan Giles owns the surface. Mr. Giles attended the pre-site. The United States Government owns the minerals. Mr. James Hereford of the BLM was invited by email and telephone to the pre-site. He did not attend.

Surface Use Plan

Current Surface Use

Agricultural
Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width Length		

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands

Flora / Fauna

Existing pad

Soil Type and Characteristics

Erosion Issues

Sedimentation Issues

Site Stability Issues

Drainage Diverson Required?

Berm Required?

Erosion Sedimentation Control Required?

Paleo Survey Run? Paleo Potental Observed? Cultural Survey Run? Cultural Resources?

Reserve Pit

Site-Specific Factors	Site Ranking	
Distance to Groundwater (feet)	25 to 75	15
Distance to Surface Water (feet)	300 to 1000	2
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
	Final Score	52
		1 Sensitivity Level

Characteristics / Requirements

The reserve pit will be re-dug in approximately the original location on the southeast side of the pad. It however will be moved north 15 feet within the previous disturbance to provide the 29 feet needed between well bore and the reserve pit. Its dimensions are 80' x 40' x 8' deep. A 16-mil liner with an appropriate sub-liner is required.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? Y

Other Observations / Comments

Floyd Bartlett
Evaluator

6/25/2009
Date / Time

Application for Permit to Drill Statement of Basis

9/17/2009

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
1967	43013501260000	LOCKED	OW	P	No
Operator	NEWFIELD PRODUCTION COMPANY		Surface Owner-APD	Nolan and Alta Giles	
Well Name	Greater Boundary II Federal R-21-8-17		Unit	GREATER BOUNDARY II (GR)	
Field	MONUMENT BUTTE		Type of Work	DRILL	
Location	NWSE 21 8S 17E S 1992 FSL 1955 FEL GPS Coord (UTM) 584114E 4439304N				

Geologic Statement of Basis

The mineral rights for the proposed well are owned by the Federal Government. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cementing programs.

Brad Hill
APD Evaluator

9/1/2009
Date / Time

Surface Statement of Basis

The proposed Greater Boundary R-21-8-17 oil well is a directional well to be drilled from the existing pad of the Greater Boundary 10-21-8-17 producing oil well. No changes to the previously disturbed area are planned. The reserve pit will be re-dug in approximately the original location on the southeast side of the pad. It however will be moved north 15 feet within the previous disturbance to provide the 29 feet needed between well bore and the reserve pit. The well is on a 20-acre spacing.

A field review of the existing pad showed no concerns as it now exists and should be a suitable for drilling and operating the proposed additional well.

Mr. Nolan Giles owns the surface. Mr. Giles attended the pre-site. He currently has grain planted in part of the area the reserve pit will be dug. He plans to plant alfalfa there next April. He requested that the pit be reclaimed prior to that date. Mr. Eaton from Newfield felt that could be done. He had no other significant concerns. The United States Government owns the minerals. Mr. James Hereford of the BLM was invited by email and telephone to the pre-site. He did not attend.

The reserve pit will be re-dug in approximately the original location on the southeast side of the pad. It however will be moved north 15 feet within the previous disturbance to provide the 29 feet needed between well bore and the reserve pit. Its dimensions are 80' x 40' x 8' deep. A 16-mil liner with an appropriate sub-liner is required.

Floyd Bartlett
Onsite Evaluator

6/25/2009
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/27/2009

API NO. ASSIGNED: 43013501260000

WELL NAME: Greater Boundary II Federal R-21-8-17

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: NWSE 21 080S 170E

Permit Tech Review:

SURFACE: 1992 FSL 1955 FEL

Engineering Review:

BOTTOM: 1280 FSL 2574 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.10172

LONGITUDE: -110.01317

UTM SURF EASTINGS: 584114.00

NORTHINGS: 4439304.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-76954

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT**
- Bond:** FEDERAL - WYB000493
- Potash**
- Oil Shale 190-5**
- Oil Shale 190-3**
- Oil Shale 190-13**
- Water Permit:** 43-7478
- RDCC Review:**
- Fee Surface Agreement**
- Intent to Commingle**

Commingleing Approved

LOCATION AND SITING:

- R649-2-3.**
Unit: GREATER BOUNDARY II (GR)
- R649-3-2. General**
- R649-3-3. Exception**
- Drilling Unit**
Board Cause No: Cause 225-04
Effective Date: 9/22/2004
Siting: Suspends General Siting
- R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
1 - Exception Location - dmason
4 - Federal Approval - dmason
5 - Statement of Basis - bhll
15 - Directional - dmason



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Greater Boundary II Federal R-21-8-17
API Well Number: 43013501260000
Lease Number: UTU-76954
Surface Owner: FEE (PRIVATE)
Approval Date: 9/22/2009

Issued to:

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 225-04. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

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

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

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.

Conditions of Approval:

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

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.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

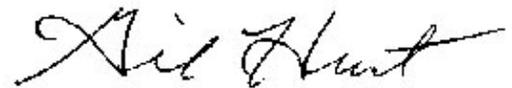
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "Gil Hunt", with a long horizontal flourish extending to the right.

Gil Hunt
Associate Director, Oil & Gas

● BLM - Vernal Field Office - ^{Spud} Notification Form

Operator Newfield Exploration

Rig Name/# Ross #29

Submitted By Mitch Benson

Phone Number (435) 823-5885

Name/Number GREATER BOUNDARY II R-21-8-17

Qtr/Qrt NW/SE Section 21 Township 8S Range 17E

Lease Serial Number UTU-76954

API Number 43-013-50126

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 6/30/2010 9:00:00 AM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
- Intermediate
- Production Casing
- Liner
- Other

Date/Time 6/30/2010 4:00:00 PM

Remarks:

OPERATOR: **NEWFIELD PRODUCTION COMPANY**
 ADDRESS: **RT. 3 BOX 3630**
MYTON, UT 84052

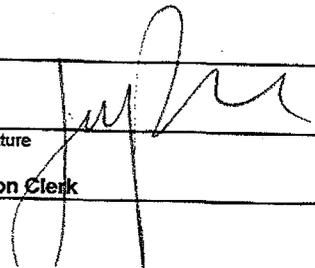
OPERATOR ACCT. NO. N2695

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	17400	4301350126	GREATER BOUNDARY II FED R-21-8-17	NWSE	21	8S	17E	DUCHESNE	6/29/2010	7/26/10
WELL 1 COMMENTS: GRUV BHL = SWSE											
B	99999	17400	4301350224	GREATER MONUMENT BUTTE F-1-9-16	NENE	21	9S	16E	DUCHESNE	6/30/2010	7/26/10
WELL 2 COMMENTS: GRUV BHL = Sect 1 SWNW											
B	99999	17400	4301350244	GREATER MONUMENT BUTTE I-2-9-16	NENE	2	9S	16E	DUCHESNE	6/29/2010	7/26/10
WELL 3 COMMENTS: GRUV BHL = NENE											
WELL 5 COMMENTS:											
WELL 5 COMMENTS:											

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 - from one existing entity to another existing entity
 D - well from one existing entity to a new entity
 E - ther (explain in comments section)

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

RECEIVED
JUL 12 2010
 DIV. OF OIL, GAS & MINING

Signature  Jentri Park
 Production Clerk
 Date 07/01/10

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

SUBMIT IN TRIPLICATE - Other Instructions on page 2

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. USA UTU-76954
2. Name of Operator NEWFIELD PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name.
3a. Address Route 3 Box 3630 Myton, UT 84052	3b. Phone (include are code) 435 646 3721	7. If Unit or CA/Agreement, Name and/or GMBU
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Section 21 T8S R17E		8. Well Name and No. GRTR BNDRY II R-21-8-17
		9. API Well No. 4301350126
		10. Field and Pool, or Exploratory Area GREATER MB UNIT
		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 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 _____ Spud Notice
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 6/30/10 MIRU Ross # 29. Spud well @ 8:00 AM. Drill 310' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24# casing. Set @ 311.38' KB. On 7/2/10 cement with 160 sks of class "G" w/ 2% CaCl2 + 1/4# per sk Cello Flake mixed @ 15.8 ppg with 1.17 cf/sk yield. Returned 4 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed) Mitch Benson	Title Drilling Foreman
Signature <i>Mitch Benson</i>	Date 07/02/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

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

(Instructions on page 2)

RECEIVED

JUL 12 2010

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-76954

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

1. TYPE OF WELL: OIL WELL GAS WELL OTHER

8. WELL NAME and NUMBER:
GRTR BNDRY II R-21-8-17

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
4301350126

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

10. FIELD AND POOL, OR WILDCAT:
GREATER MB UNIT

4. LOCATION OF WELL:
FOOTAGES AT SURFACE: 1992 FSL 1955 FEL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: , 21, T8S, R17E

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: 08/03/2010	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY 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	

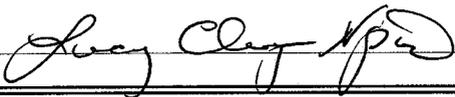
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 08-03-10, attached is a daily completion status report.

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE



DATE 08/04/2010

(This space for State use only)

RECEIVED
AUG 11 2010
DIV. OF OIL, GAS & MINING

Daily Activity Report

Format For Sundry

GRTR BNDRY II R-21-8-17

5/1/2010 To 9/30/2010

7/22/2010 Day: 1

Completion

Rigless on 7/22/2010 - Test casing. CBL/Perferate 1st stage. - RU frac head & Cameron BOP's. RU Hot Oiler & test casing, frac head w/ valves & BOP's to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD was 6627' w/ cement top @ 10'. RIH w/ 3-1/8" Port Guns (16 gram, .36"EH, 120°, 16.82"pen) & perferate CP5 sds @ 6481-83', 6472-74', 6466-68', CP4 sds @ 6392-94', 6384-87' w/ 3 spf for total of 33 shots. SIFN w/ 158 bbls EWTR.

Daily Cost: \$0

Cumulative Cost: \$12,722

7/27/2010 Day: 2

Completion

Rigless on 7/27/2010 - Frac well. 1 stage remains. - Stage #1: RU BJ Services "Ram Head" frac flange. RU BJ & open well w/ 4 psi on casing. Perfs broke down @ 3571 psi back to 2127 psi w/ 6 bbls @ 5 bpm. ISIP was 1573 w/ .68FG. 1 min was 1247. 4 min was 1137. Pump 6 bbls of 15% HCL acid (had a 500 psi drop in pressure when hit perfs). Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 50,327#'s of 20/40 sand in 520 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2599 w/ ave rate of 42 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2242 w/ .78FG. 5 min was 2091. 10 min was 2000. 15 min was 1958. Leave pressure on well. 1678 bbls EWTR. - Stage #2: RU Perforators LLC WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" (6K) composite flow through frac plug & perf guns. Set plug @ 6310'. Perferate CP1 sds 6206-09', 6193-97', CP.5 sds @ 6156-59' w/ 3-1/8 Port Guns (11 gram, .36"EH, 120°, 16.82"pen) w/ 3 spf for total of 30 shots. RU BJ & open well w/ 1803 psi on casing. Perfs broke down @ 2652 psi back to 2352 psi w/ 2 bbls @ 3 bpm. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 66,041#'s of 20/40 sand in 576 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 3578 w/ ave rate of 44 bpm w/ 8 ppg of sand (in pad shot 2# spike 2000#'s due to perfs not opening up). Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2396 w/ .82FG. 5 min was 1965. 10 min was 1840. 15 min was 1749. Leave pressure on well. 1254 bbls EWTR. - Stage #4: RU WLT. RIH w/ frac plug & perf guns. Set plug @ 5620'. Perferate C sds 5515-20', 5505-10', 5496-98' w/ 3 spf for total of 36 shots. RU BJ & open well w/ 1575 psi on casing. Perfs broke down @ 2842 psi back to 1468 psi w/ 2 bbls @ 3 bpm. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 60,343#'s of 20/40 sand in 539 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2339 w/ ave rate of 43 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2598 w/ .91FG. 5 min was 1360. 10 min was 1355. 15 min was 1325. Leave pressure on well. 2224 bbls EWTR - Stage #5: RU WLT. RIH w/ frac plug & perf guns. Set plug @ 5440'. Perferate D2 sds 5407-13' w/ 3 spf for total of 18 shots. RU BJ & open well w/ 1343 psi on casing. Perfs broke down @ 2960 psi back to 2070 psi w/ 2 bbls @ 3 bpm. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 14,646#'s of 20/40 sand in 287 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2465 w/ ave rate of 28 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1724 w/ .75FG. 5 min was 1598. 10 min was 1544. 15 min was 1517. Leave pressure on well. 2511 bbls EWTR - Stage #3: RU WLT. RIH w/ frac plug & perf guns. Set plug @ 5930'. Perferate A1 sds 5827-30', 5817-22', w/ 3 spf for total of 24 shots. RU BJ & open well w/ 1589 psi on casing. Perfs broke down @ 1883 psi back to 1850 psi w/ 2 bbls @ 3 bpm. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 39,572#'s of 20/40 sand in 431 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2975 w/ ave rate of 37 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2893 w/ .93FG. 5 min was 2769. 10 min was 2701. 15 min was 2675. Leave

pressure on well. 1685 bbls EWTR

Daily Cost: \$0

Cumulative Cost: \$103,280

7/28/2010 Day: 3

Completion

Rigless on 7/28/2010 - Finish frac. MIRUSU. Set kill plug. - Stage #6: RU WLT. RIH w/ frac plug & perf guns. Set plug @ 4960'. Perferate GB6 sds 4859-62', 4853-55' w/ 3 spf for total of 15 shots. RU BJ & open well w/ 1055 psi on casing. Perfs broke down @ 2229 psi back to 1909 psi w/ 2 bbls @ 3 bpm. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 15,514#'s of 20/40 sand in 251 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2907 w/ ave rate of 28 bpm w/ 6 ppg of sand. ISIP was 2095 w/ .87FG. 5 min was 1745. 10 min was 1680. 15 min was 1645. 2762 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 3.5 hours & sanded off. Rec'd 425 bbls fluid. MIRUSU. RD Cameron BOP's & frac head. Instal 3M production tbg head. RU 4-3/4" Chomp mill & x-over sub. Tally, drift & pick up, TIH w/ new J-55, 2-7/8", 6.5#, 8EUE to tag fill @ 3825'. SIFN w/ 2340 bbls EWTR.

Daily Cost: \$0

Cumulative Cost: \$164,562

7/29/2010 Day: 4

Completion

Stone #8 on 7/29/2010 - Continue TIH w/ tbg. Drlg plugs. - Continue PU tbg. Tag fill @ 3835'. RU swivel, pump & tanks. C/O to plug @ 4960'. Drlg out plug #1. Continue PU tbg & drlg out plugs. Lots of sand on plugs. Last plug #3 drlg out. Left EOT @ 5900'. 2300 bbls EWTR. SIFN.

Daily Cost: \$0

Cumulative Cost: \$170,267

8/2/2010 Day: 5

Completion

Stone #8 on 8/2/2010 - Drlg plugs. C/O to PBD. Swab well for C/O. - Open well w/ 650 psi on casing. Continue drlg plugs. Tag fill @ 6546'. C/O to PBD @ 6674'. LD 3 jts tbg. RU swab equipment. Made 24 runs & rec'd 245 bbls of fluid. IFL was surface. FFL was 800'. Well made lots of sand while swabing. Last run showed trace of oil & gas w/ lots of sand. SIFN w/ 1825 bbls EWTR. - Open well w/ 500 psi on casing. RU swab equipment. Made 42 runs & rec'd 460 bbls of fluid. Still getting lots of sand w/ 15% oil w/ good gas. FFL was 1600'. RD swab equipment. LD 4 jts tbg. Pulled 15,000#'s over to get tbg out of sand. SIFN w/ 1840 bbls EWTR. - Open well w/ 650 psi on casing. Continue drlg plugs. Tag fill @ 6546'. C/O to PBD @ 6674'. LD 3 jts tbg. RU swab equipment. Made 24 runs & rec'd 245 bbls of fluid. IFL was surface. FFL was 800'. Well made lots of sand while swabing. Last run showed trace of oil & gas w/ lots of sand. SIFN w/ 1825 bbls EWTR. - Open well w/ 500 psi on casing. RU swab equipment. Made 42 runs & rec'd 460 bbls of fluid. Still getting lots of sand w/ 15% oil w/ good gas. FFL was 1600'. RD swab equipment. LD 4 jts tbg. Pulled 15,000#'s over to get tbg out of sand. SIFN w/ 1840 bbls EWTR.

Daily Cost: \$0

Cumulative Cost: \$176,668

8/3/2010 Day: 7

Completion

Stone #8 on 8/3/2010 - Swab well. C/O to PBD. - Open well w/ 400 psi on casing. Rec'd 40 bbls oil. PU 1 jt tbg. RU swab. Made 39 runs to Rec'd 410 bbls fluid. FFL was 1700'. Last run showed good oil & gas w/ alittle sand. RD swab. TIH w/ tbg to tag 45' of new sand. Made 150 bbls oil today. SIFN w/ 1430 bbls EWTR. - Open well w/ 0 psi on casing. Pump 250 bbls water

down casing. TOOH w/ tbg. LD mill & x-over sub. TIH w/ NC, 2 jts tbg, SN, 1 jt tbg, TA new Cntrl Hydrlic w/ 45,000#'s shear, 204 jts tbg. RD BOP's. Set TA @ 6415' w/ 18,000#'s tension w/ SN @ 6448' w/ EOT @ 6511'. Flush tbg w/ 60 bbls water. Pick-up & prime pump. TIH w/ 2-1/2" x 1-3/4" x 17' x 24' new Cntrl Hydrlic pump w/ 224"SL, 4- 1-1/2" weight rods, 253- 7/8" guided (8per) rods, 2', 8' x 7/8" pony rod, 1-1/2" x30' polish rod. Space pump. RDMOSU. POP @ 8PM w/ 122"SL @ 4 spm w/ 1430 bbls EWTR. Final Report. - Open well w/ 400 psi on casing. Rec'd 40 bbls oil. PU 1 jt tbg. RU swab. Made 39 runs to Rec'd 410 bbls fluid. FFL was 1700'. Last run showed good oil & gas w/ alittle sand. RD swab. TIH w/ tbg to tag 45' of new sand. Made 150 bbls oil today. SIFN w/ 1430 bbls EWTR. - Open well w/ 0 psi on casing. Pump 250 bbls water down casing. TOOH w/ tbg. LD mill & x-over sub. TIH w/ NC, 2 jts tbg, SN, 1 jt tbg, TA new Cntrl Hydrlic w/ 45,000#'s shear, 204 jts tbg. RD BOP's. Set TA @ 6415' w/ 18,000#'s tension w/ SN @ 6448' w/ EOT @ 6511'. Flush tbg w/ 60 bbls water. Pick-up & prime pump. TIH w/ 2-1/2" x 1-3/4" x 17' x 24' new Cntrl Hydrlic pump w/ 224"SL, 4- 1-1/2" weight rods, 253- 7/8" guided (8per) rods, 2', 8' x 7/8" pony rod, 1-1/2" x30' polish rod. Space pump. RDMOSU. POP @ 8PM w/ 122"SL @ 4 spm w/ 1430 bbls EWTR. Final Report.

Finalized**Daily Cost:** \$0**Cumulative Cost:** \$187,431

Pertinent Files: Go to File List

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU-76954

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
GMBU

8. Lease Name and Well No.
GREATER BOUNDARY II R-21-8-17

9. AFI Well No.
43-013-50126

10. Field and Pool or Exploratory Monument
MONUMENT BUTTE

11. Sec., T., R., M., on Block and Survey or Area
SEC. 21, T8S, R17E

12. County or Parish
DUCHESNE

13. State
UT

14. Date Spudded
06/30/2010

15. Date T.D. Reached
07/15/2010

16. Date Completed
08/03/2010
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
5225' GL 5237' KB

18. Total Depth: MD 6720'
TVD 6585'

19. Plug Back T.D.: MD 6674'
TVD 6543'

20. Depth Bridge Plug Set:
MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	311'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6720'		325 PRIMLITE		10'	
						425 50/50 POZ			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@ 6512'	TA @ 6413'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River			6384-6483' CP4 CP5	.36"	3	33
B) Green River			6156-6209' CP.5 CP1	.36"	3	30
C) Green River			5817-5830' A1	.36"	3	24
D) Green River			5496-5520' C	.36"	3	36

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

Depth Interval	Amount and Type of Material
6384-6483'	Frac w/ 50327#s 20/40 sand in 220 bbls of Lightning 17 fluid.
6156-6209'	Frac w/ 66041#s 20/40 sand in 280 bbls of Lightning 17 fluid.
5817-5830'	Frac w/ 39572#s 20/40 sand in 186 bbls of Lightning 17 fluid.
5496-5520'	Frac w/ 60343#s 20/40 sand in 263 bbls of Lightning 17 fluid.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
8-3-10	8-15-10	24	→	107	61	127			2-1/2" x 1-3/4" x 17' x 24' RHAC Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	PRODUCING
			→						

28a. Production - Interval B

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

RECEIVED
AUG 25 2010

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

SOLD & USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	3893' 4116'
				GARDEN GULCH 2 POINT 3	4231' 4494'
				X MRKR Y MRKR	4763' 4798'
				DOUGALS CREEK MRK BI CARBONATE MRK	4913' 5149'
				B LIMESTON MRK CASTLE PEAK	5266' 5807'
				BASAL CARBONATE WASATCH	6250' 6376'

32. Additional remarks (include plugging procedure):

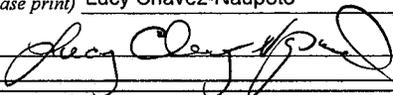
Stage 5: Green River Formation (D2) 5407-5413', .36" 3/18 Frac w/ 14646#s of 20/40 sand in 88 bbls of Lightning 17 fluid

Stage 5: Green River Formation (GB6) 4853-4862', .36" 3/15 Frac w/ 15514#s of 20/40 sand in 82 bbls of Lightning 17 fluid

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

- Electrical/Mechanical Logs (1 full set req'd.)
 Geologic Report
 DST Report
 Directional Survey
 Sundry Notice for plugging and cement verification
 Core Analysis
 Other: Drilling Daily Activity

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

Name (please print) Lucy Chavez-Naupoto Title Administrative Assistant
 Signature  Date 08/19/2010

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.

NEWFIELD



NEWFIELD EXPLORATION

**USGS Myton SW (UT)
SECTION 21 T8S, R17E
R-21-8-17**

Wellbore #1

Design: Actual

Standard Survey Report

14 July, 2010

HATHAWAY HB BURNHAM
DIRECTIONAL & MWD SERVICES



HATHAWAY BURNHAM

Survey Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 21 T8S, R17E
Well: R-21-8-17
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well R-21-8-17
TVD Reference: R-21-8-17 @ 5237.0ft (RIG 2)
MD Reference: R-21-8-17 @ 5237.0ft (RIG 2)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Project	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	SECTION 21 T8S, R17E				
Site Position:		Northing:	7,210,000.00ft	Latitude:	40° 6' 13.990 N
From:	Lat/Long	Easting:	2,055,000.00ft	Longitude:	110° 1' 3.925 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.95 °

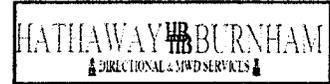
Well	R-21-8-17, SHL LAT: 40 06 06.01, LONG: -110 00 32.38					
Well Position	+N/-S	0.0 ft	Northing:	7,209,233.39 ft	Latitude:	40° 6' 6.010 N
	+E/-W	0.0 ft	Easting:	2,057,464.08 ft	Longitude:	110° 0' 32.380 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	5,237.0 ft	Ground Level:	5,225.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2010/07/05	11.42	65.88	52,405

Design	Actual				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	220.88	

Survey Program	Date 2010/07/14				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
421.0	6,717.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
421.0	0.70	142.60	421.0	-2.0	1.6	0.5	0.17	0.17	0.00
451.0	0.70	144.90	451.0	-2.3	1.8	0.6	0.09	0.00	7.67
482.0	0.50	179.90	482.0	-2.6	1.9	0.8	1.32	-0.65	112.90
513.0	0.50	231.50	513.0	-2.8	1.8	1.0	1.40	0.00	166.45
544.0	0.80	267.80	544.0	-2.9	1.5	1.3	1.60	0.97	117.10
575.0	1.50	272.80	575.0	-2.9	0.8	1.7	2.28	2.26	16.13
605.0	1.90	267.30	605.0	-2.9	-0.1	2.3	1.44	1.33	-18.33
636.0	2.40	274.00	635.9	-2.9	-1.2	3.0	1.80	1.61	21.61
667.0	2.50	277.40	666.9	-2.8	-2.5	3.8	0.57	0.32	10.97
697.0	3.00	281.50	696.9	-2.5	-3.9	4.5	1.79	1.67	13.67
728.0	3.60	283.20	727.8	-2.2	-5.7	5.4	1.96	1.94	5.48
759.0	4.00	285.10	758.8	-1.7	-7.7	6.3	1.35	1.29	6.13



Company: NEWFIELD EXPLORATION
 Project: USGS Myton SW (UT)
 Site: SECTION 21 T8S, R17E
 Well: R-21-8-17
 Wellbore: Wellbore #1
 Design: Actual

Local Co-ordinate Reference: Well R-21-8-17
 TVD Reference: R-21-8-17 @ 5237.0ft (RIG 2)
 MD Reference: R-21-8-17 @ 5237.0ft (RIG 2)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.21 Single User Db

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)
789.0	4.60	285.80	788.7	-1.1	-9.8	7.2	2.01	2.00	2.33
819.0	5.10	281.00	818.6	-0.5	-12.3	8.4	2.15	1.67	-16.00
850.0	5.50	279.30	849.4	0.0	-15.1	9.9	1.39	1.29	-5.48
881.0	5.60	277.80	880.3	0.5	-18.1	11.5	0.57	0.32	-4.84
913.0	5.60	275.70	912.1	0.8	-21.2	13.2	0.64	0.00	-6.56
944.0	5.80	270.00	943.0	1.0	-24.3	15.1	1.94	0.65	-18.39
976.0	6.40	265.40	974.8	0.9	-27.7	17.5	2.42	1.88	-14.38
1,008.0	6.80	259.10	1,006.6	0.4	-31.3	20.2	2.58	1.25	-19.69
1,039.0	7.20	256.30	1,037.4	-0.5	-35.0	23.2	1.70	1.29	-9.03
1,071.0	7.50	251.80	1,069.1	-1.6	-38.9	26.7	2.03	0.94	-14.06
1,102.0	8.20	247.40	1,099.8	-3.1	-42.9	30.4	2.97	2.26	-14.19
1,134.0	8.60	244.20	1,131.5	-5.0	-47.1	34.6	1.92	1.25	-10.00
1,166.0	8.90	242.30	1,163.1	-7.2	-51.5	39.1	1.30	0.94	-5.94
1,197.0	8.90	239.70	1,193.7	-9.5	-55.7	43.6	1.30	0.00	-8.39
1,229.0	8.60	237.90	1,225.3	-12.0	-59.9	48.3	1.27	-0.94	-5.63
1,261.0	8.40	233.10	1,257.0	-14.7	-63.7	52.8	2.30	-0.63	-15.00
1,293.0	8.60	230.10	1,288.6	-17.6	-67.5	57.5	1.52	0.63	-9.38
1,324.0	8.80	224.90	1,319.3	-20.8	-70.9	62.1	2.62	0.65	-16.77
1,356.0	9.20	220.30	1,350.9	-24.5	-74.3	67.1	2.57	1.25	-14.38
1,388.0	9.40	219.50	1,382.5	-28.5	-77.6	72.3	0.74	0.63	-2.50
1,420.0	9.40	221.30	1,414.0	-32.4	-81.0	77.5	0.92	0.00	5.63
1,451.0	9.80	220.40	1,444.6	-36.3	-84.4	82.7	1.38	1.29	-2.90
1,483.0	10.40	219.50	1,476.1	-40.6	-88.0	88.3	1.94	1.88	-2.81
1,515.0	10.90	217.00	1,507.6	-45.3	-91.6	94.2	2.13	1.56	-7.81
1,546.0	11.30	216.90	1,538.0	-50.1	-95.2	100.2	1.29	1.29	-0.32
1,578.0	11.60	216.60	1,569.3	-55.1	-99.0	106.5	0.96	0.94	-0.94
1,610.0	12.10	217.60	1,600.7	-60.4	-103.0	113.1	1.69	1.56	3.13
1,642.0	12.60	219.70	1,631.9	-65.7	-107.3	119.9	2.10	1.56	6.56
1,673.0	13.40	220.60	1,662.1	-71.1	-111.8	126.9	2.66	2.58	2.90
1,705.0	13.60	223.10	1,693.2	-76.6	-116.7	134.3	1.93	0.63	7.81
1,736.0	13.80	221.50	1,723.4	-82.1	-121.7	141.7	1.38	0.65	-5.16
1,768.0	14.40	220.30	1,754.4	-87.9	-126.8	149.5	2.09	1.88	-3.75
1,800.0	14.70	219.50	1,785.4	-94.1	-131.9	157.5	1.13	0.94	-2.50
1,832.0	15.40	217.80	1,816.3	-100.6	-137.1	165.8	2.59	2.19	-5.31
1,863.0	15.90	216.00	1,846.1	-107.3	-142.1	174.2	2.25	1.61	-5.81
1,895.0	15.70	215.00	1,876.9	-114.4	-147.2	182.8	1.06	-0.63	-3.13
1,927.0	15.50	213.70	1,907.7	-121.5	-152.1	191.4	1.26	-0.63	-4.06
1,959.0	15.10	212.90	1,938.6	-128.5	-156.7	199.7	1.41	-1.25	-2.50
1,991.0	15.00	213.00	1,969.5	-135.5	-161.2	208.0	0.32	-0.31	0.31
2,022.0	14.80	212.30	1,999.5	-142.2	-165.5	215.9	0.87	-0.65	-2.26
2,054.0	14.60	212.00	2,030.4	-149.1	-169.8	223.9	0.67	-0.63	-0.94
2,086.0	14.30	212.00	2,061.4	-155.9	-174.1	231.8	0.94	-0.94	0.00
2,117.0	14.30	212.00	2,091.4	-162.4	-178.1	239.3	0.00	0.00	0.00
2,149.0	14.00	213.20	2,122.5	-169.0	-182.3	247.1	1.31	-0.94	3.75
2,181.0	14.00	214.70	2,153.5	-175.4	-186.7	254.8	1.13	0.00	4.69
2,212.0	13.90	215.80	2,183.6	-181.5	-191.0	262.2	0.91	-0.32	3.55
2,244.0	13.70	216.40	2,214.7	-187.7	-195.5	269.8	0.77	-0.63	1.88
2,276.0	13.10	218.00	2,245.8	-193.6	-200.0	277.2	2.20	-1.88	5.00
2,307.0	13.10	215.50	2,276.0	-199.2	-204.2	284.2	1.83	0.00	-8.06
2,339.0	13.00	212.90	2,307.2	-205.2	-208.2	291.4	1.86	-0.31	-8.13
2,371.0	13.20	212.40	2,338.3	-211.3	-212.1	298.6	0.72	0.63	-1.56
2,402.0	13.30	212.00	2,368.5	-217.3	-215.9	305.6	0.44	0.32	-1.29
2,434.0	13.40	212.00	2,399.7	-223.5	-219.8	312.9	0.31	0.31	0.00
2,466.0	13.30	213.00	2,430.8	-229.8	-223.8	320.2	0.79	-0.31	3.13

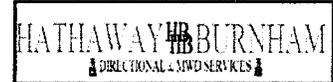


Company: NEWFIELD EXPLORATION
 Project: USGS Myton SW (UT)
 Site: SECTION 21 T8S, R17E
 Well: R-21-8-17
 Wellbore: Wellbore #1
 Design: Actual

Local Co-ordinate Reference: Well R-21-8-17
 TVD Reference: R-21-8-17 @ 5237.0ft (RIG 2)
 MD Reference: R-21-8-17 @ 5237.0ft (RIG 2)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.21 Single User Db

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)
2,498.0	13.30	213.90	2,461.9	-235.9	-227.9	327.5	0.65	0.00	2.81
2,529.0	13.40	214.80	2,492.1	-241.8	-231.9	334.6	0.74	0.32	2.90
2,561.0	12.70	215.90	2,523.3	-247.7	-236.1	341.8	2.32	-2.19	3.44
2,593.0	12.80	215.80	2,554.5	-253.4	-240.2	348.8	0.32	0.31	-0.31
2,624.0	12.50	216.30	2,584.7	-258.9	-244.2	355.6	1.03	-0.97	1.61
2,656.0	12.30	216.50	2,616.0	-264.5	-248.3	362.5	0.64	-0.63	0.63
2,688.0	12.20	217.80	2,647.3	-269.9	-252.4	369.2	0.92	-0.31	4.06
2,719.0	12.00	218.70	2,677.6	-275.0	-256.4	375.7	0.89	-0.65	2.90
2,751.0	12.00	218.00	2,708.9	-280.2	-260.5	382.4	0.45	0.00	-2.19
2,782.0	12.00	217.50	2,739.2	-285.3	-264.5	388.8	0.34	0.00	-1.61
2,814.0	11.90	217.00	2,770.5	-290.6	-268.5	395.4	0.45	-0.31	-1.56
2,846.0	12.50	218.00	2,801.8	-295.9	-272.6	402.2	1.99	1.88	3.13
2,877.0	13.10	219.00	2,832.0	-301.3	-276.9	409.0	2.06	1.94	3.23
2,909.0	12.80	221.20	2,863.2	-306.8	-281.5	416.2	1.80	-0.94	6.88
2,941.0	12.80	221.30	2,894.4	-312.1	-286.2	423.3	0.07	0.00	0.31
2,972.0	12.60	221.70	2,924.6	-317.2	-290.7	430.1	0.70	-0.65	1.29
3,004.0	12.70	220.40	2,955.9	-322.5	-295.3	437.1	0.94	0.31	-4.06
3,036.0	12.70	219.10	2,987.1	-327.9	-299.8	444.1	0.89	0.00	-4.06
3,068.0	12.50	218.60	3,018.3	-333.4	-304.2	451.1	0.71	-0.63	-1.56
3,099.0	12.50	217.60	3,048.6	-338.6	-308.3	457.8	0.70	0.00	-3.23
3,131.0	12.30	216.90	3,079.8	-344.1	-312.5	464.7	0.78	-0.63	-2.19
3,162.0	12.10	215.90	3,110.1	-349.4	-316.4	471.2	0.94	-0.65	-3.23
3,194.0	11.70	215.40	3,141.4	-354.7	-320.2	477.8	1.29	-1.25	-1.56
3,226.0	11.50	214.80	3,172.8	-360.0	-323.9	484.2	0.73	-0.63	-1.88
3,258.0	11.30	214.90	3,204.1	-365.2	-327.5	490.5	0.63	-0.63	0.31
3,289.0	11.20	216.20	3,234.6	-370.1	-331.0	496.5	0.88	-0.32	4.19
3,321.0	11.10	218.60	3,265.9	-375.0	-334.8	502.7	1.48	-0.31	7.50
3,353.0	10.90	219.90	3,297.4	-379.8	-338.7	508.8	1.00	-0.63	4.06
3,385.0	11.10	219.10	3,328.8	-384.5	-342.5	514.9	0.79	0.63	-2.50
3,416.0	11.20	219.00	3,359.2	-389.1	-346.3	520.9	0.33	0.32	-0.32
3,448.0	11.60	219.00	3,390.6	-394.0	-350.3	527.2	1.25	1.25	0.00
3,479.0	12.20	217.90	3,420.9	-399.1	-354.3	533.6	2.07	1.94	-3.55
3,508.0	12.50	220.50	3,449.2	-403.9	-358.2	539.8	2.18	1.03	8.97
3,543.0	12.40	222.10	3,483.4	-409.5	-363.2	547.3	1.03	-0.29	4.57
3,575.0	12.50	222.70	3,514.6	-414.6	-367.8	554.2	0.51	0.31	1.88
3,606.0	12.20	220.70	3,544.9	-419.6	-372.2	560.8	1.69	-0.97	-6.45
3,638.0	12.00	217.80	3,576.2	-424.8	-376.5	567.6	2.00	-0.63	-9.06
3,670.0	12.00	217.00	3,607.5	-430.0	-380.5	574.2	0.52	0.00	-2.50
3,701.0	12.20	219.10	3,637.8	-435.2	-384.5	580.7	1.56	0.65	6.77
3,733.0	12.70	220.70	3,669.1	-440.5	-389.0	587.6	1.90	1.56	5.00
3,765.0	13.60	221.20	3,700.2	-445.9	-393.7	594.9	2.83	2.81	1.56
3,797.0	14.10	222.50	3,731.3	-451.7	-398.8	602.5	1.84	1.56	4.06
3,828.0	13.90	221.90	3,761.4	-457.2	-403.9	610.0	0.80	-0.65	-1.94
3,860.0	13.70	220.60	3,792.5	-462.9	-408.9	617.6	1.15	-0.63	-4.06
3,892.0	13.70	220.70	3,823.6	-468.7	-413.8	625.2	0.07	0.00	0.31
3,923.0	13.70	220.80	3,853.7	-474.3	-418.6	632.6	0.08	0.00	0.32
3,955.0	13.60	220.30	3,884.8	-480.0	-423.5	640.1	0.48	-0.31	-1.56
3,987.0	13.60	219.00	3,915.9	-485.8	-428.3	647.6	0.96	0.00	-4.06
4,018.0	13.60	218.00	3,946.0	-491.5	-432.9	654.9	0.76	0.00	-3.23
4,050.0	13.70	216.30	3,977.1	-497.5	-437.4	662.5	1.29	0.31	-5.31
4,082.0	14.00	216.60	4,008.2	-503.7	-442.0	670.1	0.96	0.94	0.94
4,114.0	14.10	217.10	4,039.2	-509.9	-446.7	677.8	0.49	0.31	1.56
4,145.0	13.60	217.20	4,069.3	-515.8	-451.1	685.2	1.61	-1.61	0.32
4,177.0	13.10	216.30	4,100.4	-521.7	-455.6	692.6	1.69	-1.56	-2.81

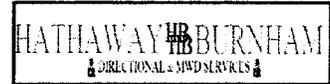


Company: NEWFIELD EXPLORATION
 Project: USGS Myton SW (UT)
 Site: SECTION 21 T8S, R17E
 Well: R-21-8-17
 Wellbore: Wellbore #1
 Design: Actual

Local Co-ordinate Reference: Well R-21-8-17
 TVD Reference: R-21-8-17 @ 5237.0ft (RIG 2)
 MD Reference: R-21-8-17 @ 5237.0ft (RIG 2)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.21 Single User Db

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)
4,209.0	13.20	215.80	4,131.6	-527.6	-459.8	699.9	0.47	0.31	-1.56
4,241.0	13.00	215.50	4,162.8	-533.5	-464.1	707.1	0.66	-0.63	-0.94
4,272.0	12.50	216.50	4,193.0	-539.0	-468.1	713.9	1.76	-1.61	3.23
4,304.0	11.90	218.50	4,224.3	-544.4	-472.2	720.7	2.29	-1.88	6.25
4,336.0	11.60	219.50	4,255.6	-549.5	-476.3	727.2	1.13	-0.94	3.13
4,368.0	11.50	220.30	4,287.0	-554.4	-480.4	733.6	0.59	-0.31	2.50
4,399.0	11.80	221.00	4,317.3	-559.1	-484.5	739.8	1.07	0.97	2.26
4,431.0	12.30	221.90	4,348.6	-564.1	-488.9	746.5	1.67	1.56	2.81
4,463.0	12.10	222.70	4,379.9	-569.1	-493.5	753.3	0.82	-0.63	2.50
4,494.0	11.60	222.50	4,410.2	-573.8	-497.8	759.6	1.62	-1.61	-0.65
4,526.0	11.70	219.90	4,441.6	-578.7	-502.0	766.1	1.67	0.31	-8.13
4,558.0	12.10	217.90	4,472.9	-583.8	-506.2	772.7	1.80	1.25	-6.25
4,589.0	12.50	218.60	4,503.2	-589.0	-510.3	779.3	1.38	1.29	2.26
4,621.0	13.10	220.50	4,534.4	-594.5	-514.8	786.4	2.29	1.88	5.94
4,653.0	13.20	220.70	4,565.5	-600.0	-519.5	793.7	0.34	0.31	0.63
4,684.0	13.30	221.30	4,596.7	-605.4	-524.2	800.8	0.55	0.32	1.94
4,716.0	13.90	221.50	4,626.8	-611.0	-529.2	808.3	1.88	1.88	0.63
4,747.0	13.70	221.30	4,656.9	-616.6	-534.0	815.7	0.66	-0.65	-0.65
4,779.0	13.10	220.40	4,688.1	-622.2	-538.9	823.1	1.99	-1.88	-2.81
4,811.0	12.60	220.60	4,719.3	-627.6	-543.5	830.2	1.57	-1.56	0.63
4,843.0	12.10	221.40	4,750.5	-632.7	-548.0	837.1	1.65	-1.56	2.50
4,874.0	12.20	220.60	4,780.8	-637.7	-552.3	843.6	0.63	0.32	-2.58
4,906.0	12.90	220.40	4,812.1	-643.0	-556.8	850.5	2.19	2.19	-0.63
4,938.0	12.80	219.80	4,843.3	-648.4	-561.4	857.7	0.52	-0.31	-1.88
4,969.0	12.20	219.80	4,873.5	-653.6	-565.7	864.4	1.94	-1.94	0.00
5,001.0	11.60	219.90	4,904.8	-658.6	-569.9	871.0	1.88	-1.88	0.31
5,033.0	11.60	219.30	4,936.2	-663.6	-574.0	877.4	0.38	0.00	-1.88
5,065.0	11.80	220.00	4,967.5	-668.6	-578.1	883.9	0.77	0.63	2.19
5,096.0	12.00	219.60	4,997.8	-673.5	-582.2	890.3	0.70	0.65	-1.29
5,128.0	12.20	219.70	5,029.1	-678.6	-586.5	897.0	0.63	0.63	0.31
5,160.0	12.30	219.70	5,060.4	-683.9	-590.9	903.8	0.31	0.31	0.00
5,191.0	12.00	219.50	5,090.7	-688.9	-595.0	910.3	0.98	-0.97	-0.65
5,223.0	12.10	218.80	5,122.0	-694.1	-599.2	917.0	0.55	0.31	-2.19
5,255.0	12.30	218.10	5,153.3	-699.4	-603.4	923.7	0.78	0.63	-2.19
5,286.0	12.10	217.60	5,183.6	-704.5	-607.5	930.3	0.73	-0.65	-1.61
5,318.0	11.90	219.10	5,214.9	-709.8	-611.6	936.9	1.16	-0.63	4.69
5,350.0	11.90	218.30	5,246.2	-714.9	-615.7	943.5	0.52	0.00	-2.50
5,382.0	11.90	218.60	5,277.5	-720.1	-619.8	950.1	0.19	0.00	0.94
5,403.6	11.76	219.08	5,298.6	-723.5	-622.6	954.5	0.79	-0.65	2.25
R-21-8-17 TGT									
5,413.0	11.70	219.30	5,307.9	-725.0	-623.8	956.4	0.79	-0.64	2.28
5,445.0	11.60	220.00	5,339.2	-730.0	-627.9	962.9	0.54	-0.31	2.19
5,477.0	11.60	219.10	5,370.5	-735.0	-632.0	969.3	0.57	0.00	-2.81
5,508.0	11.90	217.30	5,400.9	-739.9	-635.9	975.6	1.53	0.97	-5.81
5,540.0	11.30	219.00	5,432.2	-745.0	-639.9	982.1	2.16	-1.88	5.31
5,572.0	11.20	216.40	5,463.6	-749.9	-643.7	988.3	1.62	-0.31	-8.13
5,604.0	11.30	217.10	5,495.0	-754.9	-647.4	994.5	0.53	0.31	2.19
5,635.0	11.50	217.80	5,525.4	-759.8	-651.2	1,000.6	0.78	0.65	2.26
5,667.0	11.30	218.10	5,556.8	-764.8	-655.1	1,006.9	0.65	-0.63	0.94
5,699.0	11.10	218.90	5,588.2	-769.6	-658.9	1,013.2	0.79	-0.63	2.50
5,730.0	11.20	218.50	5,618.6	-774.3	-662.7	1,019.1	0.41	0.32	-1.29
5,762.0	11.50	218.10	5,649.9	-779.2	-666.6	1,025.4	0.97	0.94	-1.25
5,794.0	11.40	216.60	5,681.3	-784.3	-670.4	1,031.8	0.98	-0.31	-4.69
5,826.0	11.00	214.50	5,712.7	-789.4	-674.1	1,038.0	1.79	-1.25	-6.56



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 MD Reference: R-21-8-17 @ 5237.0ft (RIG 2)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.21 Single User Db

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)
5,857.0	11.30	214.10	5,743.1	-794.3	-677.4	1,043.9	1.00	0.97	-1.29
5,889.0	11.70	214.50	5,774.5	-799.6	-681.0	1,050.3	1.27	1.25	1.25
5,920.0	11.40	215.80	5,804.8	-804.7	-684.6	1,056.4	1.28	-0.97	4.19
5,952.0	11.50	216.50	5,836.2	-809.8	-688.3	1,062.8	0.53	0.31	2.19
5,984.0	11.80	217.30	5,867.5	-814.9	-692.2	1,069.2	1.06	0.94	2.50
6,015.0	12.30	219.00	5,897.9	-820.0	-696.2	1,075.7	1.98	1.61	5.48
6,047.0	12.00	220.60	5,929.1	-825.2	-700.5	1,082.4	1.41	-0.94	5.00
6,079.0	12.30	221.60	5,960.4	-830.3	-705.0	1,089.1	1.15	0.94	3.13
6,111.0	12.20	222.70	5,991.7	-835.3	-709.5	1,095.9	0.79	-0.31	3.44
6,142.0	11.50	222.90	6,022.0	-840.0	-713.8	1,102.3	2.26	-2.26	0.65
6,175.0	11.83	223.00	6,054.4	-844.9	-718.4	1,109.0	1.00	1.00	0.30
6,206.0	12.70	224.00	6,084.7	-849.6	-722.9	1,115.5	2.89	2.81	3.23
6,237.0	12.90	223.40	6,114.9	-854.6	-727.7	1,122.4	0.77	0.65	-1.94
6,269.0	12.50	223.40	6,146.1	-859.7	-732.5	1,129.4	1.25	-1.25	0.00
6,301.0	12.20	224.00	6,177.4	-864.7	-737.2	1,136.3	1.02	-0.94	1.88
6,333.0	12.40	224.20	6,208.6	-869.6	-742.0	1,143.1	0.64	0.63	0.63
6,364.0	12.50	223.00	6,238.9	-874.4	-746.6	1,149.7	0.89	0.32	-3.87
6,396.0	12.70	222.00	6,270.1	-879.6	-751.3	1,156.7	0.92	0.63	-3.13
6,428.0	12.60	221.80	6,301.3	-884.8	-756.0	1,163.7	0.34	-0.31	-0.63
6,459.0	12.10	223.90	6,331.6	-889.6	-760.5	1,170.4	2.17	-1.61	6.77
6,491.0	12.10	225.50	6,362.9	-894.4	-765.2	1,177.0	1.05	0.00	5.00
6,523.0	12.10	224.60	6,394.2	-899.1	-769.9	1,183.7	0.59	0.00	-2.81
6,554.0	11.30	223.80	6,424.6	-903.6	-774.3	1,190.0	2.63	-2.58	-2.58
6,586.0	10.30	222.40	6,456.0	-908.0	-778.4	1,196.0	3.23	-3.13	-4.38
6,617.0	9.70	221.30	6,486.5	-912.0	-782.0	1,201.4	2.03	-1.94	-3.55
6,648.0	9.40	222.64	6,517.1	-915.9	-785.5	1,206.5	1.20	-0.97	4.32
6,661.0	9.25	223.24	6,529.9	-917.4	-786.9	1,208.6	1.37	-1.15	4.62
6,717.0	9.25	223.24	6,585.2	-924.0	-793.1	1,217.6	0.00	0.00	0.00

Wellbore Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
R-21-8-17 TGT	0.00	0.00	5,300.0	-716.7	-620.4	7,208,506.45	2,056,855.73	40° 5' 58.927 N	110° 0' 40.364 W
- actual wellpath misses by 7.3ft at 5403.6ft MD (5298.6 TVD, -723.5 N, -622.6 E)									
- Circle (radius 75.0)									

Checked By: _____ Approved By: _____ Date: _____



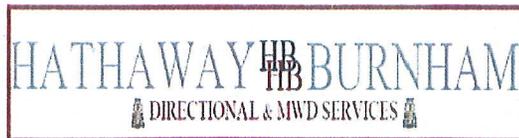
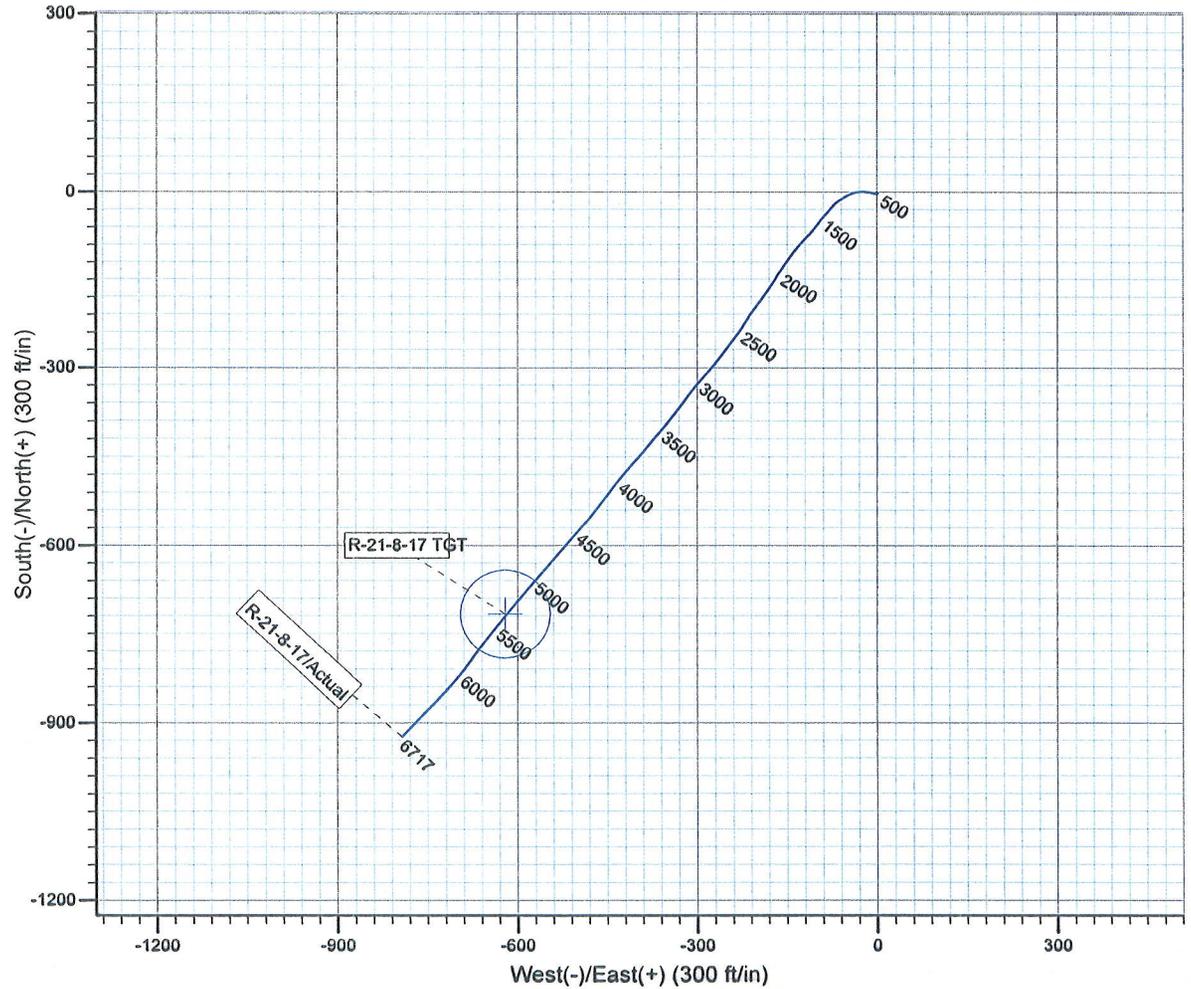
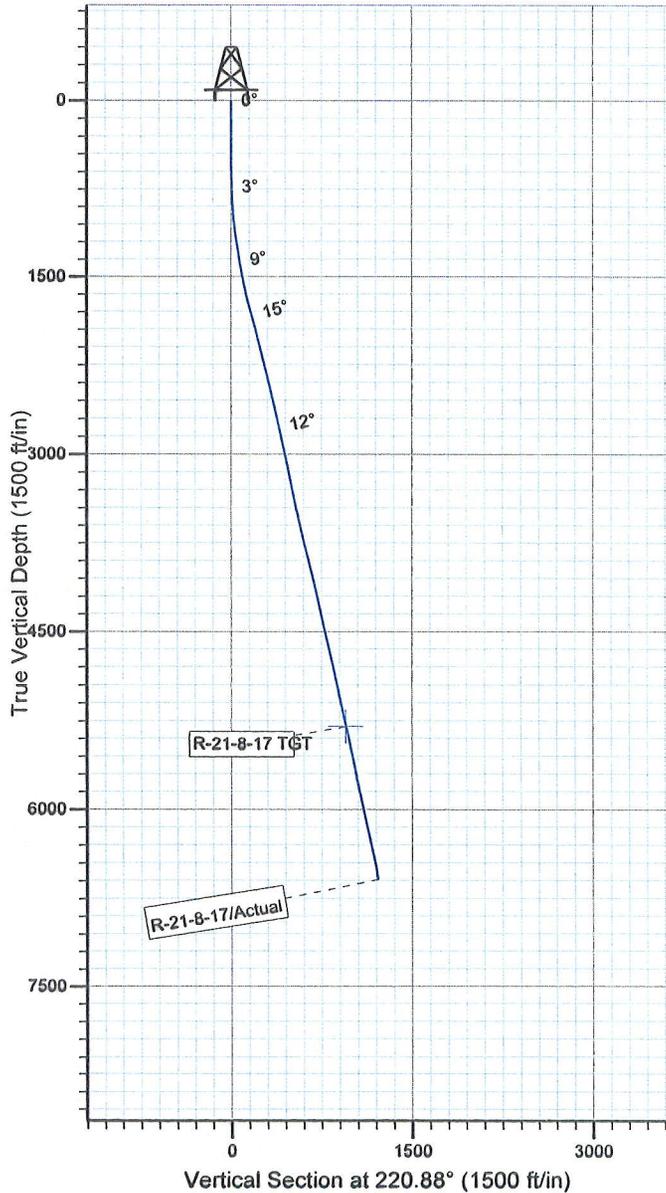
Project: USGS Myton SW (UT)
 Site: SECTION 21 T8S, R17E
 Well: R-21-8-17
 Wellbore: Wellbore #1
 SURVEY: Actual

FINAL SURVEY REPORT



Azimuths to True North
 Magnetic North: 11.42°

Magnetic Field
 Strength: 52404.6snT
 Dip Angle: 65.88°
 Date: 2010/07/05
 Model: IGRF2010



Design: Actual (R-21-8-17/Wellbore #1)

Created By: *Jim Hudson* Date: 20:10, July 14 2010
 THIS SURVEY IS CORRECT TO THE BEST OF MY
 KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.

Daily Activity Report

Format For Sundry

GRTR BNDRY II R-21-8-17

5/1/2010 To 9/30/2010

GRTR BNDRY II R-21-8-17

Waiting on Cement

Date: 7/2/2010

Ross #29 at 310. Days Since Spud - 8 5/8" casing w/ 160 sks Class "G" + 2% CaCl₂ + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield. - On 6/30/10 Ross Rig #29 spud GB R-21-8-17, drilled 310' of 12 1/4" hole, and ran 7 jts 8 5/8" - Returned 4 bbls to pit. - casing (guide shoe, shoe jt, baffle plate, 6 jts) set @ 311.38' KB. On 7/2/10 BJ Services cemented

Daily Cost: \$0

Cumulative Cost: \$28,795

GRTR BNDRY II R-21-8-17

Drill 7 7/8" hole with fresh water

Date: 7/11/2010

NDSI #2 at 1792. 1 Days Since Spud - MIRU - Test BOP; Kelly, upperkelly valve, Safety valve, Rams blind and pipe, choke man inside and out side - Pick up BHA and scribe tools. - Drill 7 7/8" hole w/fresh water from 265' to 1792' WOB/20,TRPM/ 145,GPM/ 420,AVG ROP/160FPH. - valves, kill and choke valve @ 2000psi for 10 min. Surface casing 1500psi for 30 min.

Daily Cost: \$0

Cumulative Cost: \$89,949

GRTR BNDRY II R-21-8-17

Drill 7 7/8" hole with fresh water

Date: 7/12/2010

NDSI #2 at 4462. 2 Days Since Spud - Rig Service Function test Crown-O-Matic, and BOP, Grease Crown, Swivel, and Kelly Spinner - Drill 7 7/8" hole w/fresh water from 1792' to 2553' WOB/20,TRPM/ 145,GPM/127 fph AVG ROP/160FPH. - Drill 7 7/8" hole w/fresh water from 2553' to 4462' WOB/25,TRPM/ 145,GPM/127 fph AVG ROP/160FPH.

Daily Cost: \$0

Cumulative Cost: \$110,388

GRTR BNDRY II R-21-8-17

Drill 7 7/8" hole with fresh water

Date: 7/13/2010

NDSI #2 at 5279. 3 Days Since Spud - Circulate For bit Trip - Drill 7 7/8" hole w/fresh water from 4867' to 5279' WOB/25,TRPM/ 145,GPM/ 59 fph AVG ROP - Trip in hole W/ Bit # 2 Wash and Ream 25' to bottom - TOOH F/ Bit # 1, Pickup Bit # 2 - Spot 320bbls brine - TOOH 9 stands to 4,000' - Drill 7 7/8" hole w/fresh water from 4462' to 4867' WOB/25,TRPM/ 145,GPM/108 fph AVG ROP

Daily Cost: \$0

Cumulative Cost: \$157,033

GRTR BNDRY II R-21-8-17

Drill 7 7/8" hole with fresh water

Date: 7/14/2010

NDSI #2 at 6641. 4 Days Since Spud - Rig Service Function test Crown-O-Matic, and BOP, Grease Crown, Swivel, and Kelly Spinner - Drill 7 7/8" hole w/fresh water from 5723' to 6641' WOB/25,TRPM/ 145,GPM/ 59 fph AVG ROP - Drill 7 7/8" hole w/fresh water from 5279' to 5723' WOB/25,TRPM/ 145,GPM/ 59 fph AVG ROP

Daily Cost: \$0

Cumulative Cost: \$177,430

GRTR BNDRY II R-21-8-17**Drill 7 7/8" hole with fresh water****Date:** 7/15/2010

NDSI #2 at 6720. 5 Days Since Spud - 425sks50:50:2+3%KCL+0.5%EC-
1+.25#CF+0.5#SF+.3SMS+FP-6L Mixed @ 14.3ppg W/ 1.24 yield - Cement W/ 325sks
PL11+3%KCL+5#CSE+.5#CF+2#KOL+.5SMS+FP+SF mixed @ 11ppg W/3.50 yield - Rig up
BJ Hardlines and circulate W/ Rig Pump - R/U Casing Crew and Run 154jts 5 1/2" casing set @
6720.22' - Laydown Directional tools - Rig up PSI and Run Wireline Logs Prejob safety
meeting held W/ Loggers (Loggers TD 6720') - Release Rig @ 6:00AM 7/15/10 - R/U B&C
Quick Test and Test 5 1/2" casing Rams to 2,000PSI for Ten Minutes tested good - Clean Mud
Tanks - Drill 7 7/8" hole w/fresh water from 6641' to 6720' WOB/25,TRPM/ 145,GPM/ 59 fph
AVG ROP - Laydown pipe to 4,000' Spot 320bbls Brine, laydown drillpipe and BHA - Pump
Sweep Circulate For Logs **Finalized**

Daily Cost: \$0**Cumulative Cost:** \$335,074

Pertinent Files: Go to File List

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

APPLICATION FOR PERMIT TO DRILL OR REENTER 43

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-76954
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 NA
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Greater Boundary II
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Greater Boundary II Federal R-21-8-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-50126
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NW/SE 1992' FSL 1955' FEL At proposed prod. zone SW/SE 1280' FSL 2574' FEL		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximately 11.6 miles southeast of Myton, UT		11. Sec., T. R. M. or Blk. and Survey or Area Sec. 21, T8S R17E
15. Distance from proposed* location to nearest property or lease line, ft. Approx. 1280' f/lse, 2574' f/unit (Also to nearest drig. unit line, if any)	16. No. of acres in lease 1561.03	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. 1485'	19. Proposed Depth 6,672'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5225' GL	22. Approximate date work will start* 1st Qtr. 2010	23. Estimated duration (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, must 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 must 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 BLM.

25. Signature <i>Mandi Crozier</i>	Name (Printed/Typed) Mandi Crozier	Date 2/27/09
Title Regulatory Specialist		

Approved by (Signature) <i>Stephanie J Howard</i>	Name (Printed/Typed) Stephanie J Howard	Date 1/11/10
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

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

(Continued on page 2)

*(Instructions on page 2)

CONDITIONS OF APPROVAL ATTACHED

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NOTICE OF APPROVAL

DIV. OF OIL, GAS & MINING
NOS APD POSTED 9/3/09
AFMSS# 02/17/0221/A

4D061M



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 Company	Location:	NWSE, Sec. 21, T8S R17E
Well No:	GB II Federal R-21-8-17	Lease No:	UTU-76954
API No:	43-013-50126	Agreement:	Greater Boundary II

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

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

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

NO SITE SPECIFIC CONDITIONS OF APPROVAL

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**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- Well location TD bottom footage hole location information on the completion form 3160-4 Well Completion or Recompletion Report and Log should match and be in agreement with the from the actual drilling directional survey well departure values for the TD bottom hole location.
- A copy of the as drilled directional survey shall be submitted to the BLM Vernal Field Office. Submit the MWD-GR survey from the directional/horizontal drilling operations, hard copy or electronically.
- Production casing cement shall be brought up and into the surface.
- Logging: A Gamma Ray well Log shall be run from the well Total Depth to the surface. A copy of the Gamma Ray well Log shall be submitted to the BLM Vernal Field Office.
- A copy of Newfield's Standard Operating Practices (SOP version: dated 4/18/08 and approved 5/12/08) shall be on location.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- 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.

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- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

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OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4.

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

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

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