

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING					FORM 3 AMENDED REPORT <input checked="" type="checkbox"/>	
APPLICATION FOR PERMIT TO DRILL					1. WELL NAME and NUMBER Greater Monument Butte 15-2-9-16H	
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>					3. FIELD OR WILDCAT MONUMENT BUTTE	
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO					5. UNIT or COMMUNITIZATION AGREEMENT NAME GMBU (GRRV)	
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY					7. OPERATOR PHONE 435 646-4825	
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052					9. OPERATOR E-MAIL mcrozier@newfield.com	
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML-21839			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			
12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>					13. NAME OF SURFACE OWNER (if box 12 = 'fee')	
14. SURFACE OWNER PHONE (if box 12 = 'fee')					15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')	
16. SURFACE OWNER E-MAIL (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"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input checked="" type="checkbox"/>			
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1107 FSL 1935 FEL	SWSE	2	9.0 S	16.0 E	S
Top of Uppermost Producing Zone	1107 FSL 1935 FEL	SWSE	2	9.0 S	16.0 E	S
At Total Depth	150 FNL 350 FEL	NENE	2	9.0 S	16.0 E	S
21. COUNTY DUCHESNE		22. DISTANCE TO NEAREST LEASE LINE (Feet) 150		23. NUMBER OF ACRES IN DRILLING UNIT 320		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 390		26. PROPOSED DEPTH MD: 6272 TVD: 6272		
27. ELEVATION - GROUND LEVEL 5520		28. BOND NUMBER B001834		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 437478		
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 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 09/30/2010		EMAIL mcrozier@newfield.com		
API NUMBER ASSIGNED 43013504320000		APPROVAL		 Permit Manager		

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	5.5	0	10274		
Pipe	Grade	Length	Weight			
	Grade N-80 LT&C	10274	17.0			

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Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	8.625	0	1000		
Pipe	Grade	Length	Weight			
	Grade J-55 ST&C	1000	24.0			

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**NEWFIELD PRODUCTION COMPANY
GREATER MONUMENT BUTTE 15-2-9-16H
SHL: SW/SE SECTION 2, T9S, R16E
BHL: NE/NE SECTION 2, T9S, R16E
DUCHESNE COUNTY, UTAH**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

This well is designed as a horizontal in the Basal Carbonate formation, at the base of the Green River formation. The well will be drilled vertically to a kick off point of 5,670'. Directional tools will then be used to build to 88.15° inclination and the well will be landed in the Basal Carbonate formation. The lateral will be drilled to the proposed bottomhole location, and 5-1/2" production casing will be run to TD. An open hole packer system and sliding sleeves will be used to isolate separate frac stages in the lateral. The casing will be cemented from the top of the curve to surface with a port collar.

1. GEOLOGIC SURFACE FORMATION:

Uinta formation

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Green River	1,550'
Target (Basal Carbonate)	6,272'
TD	6,272' TVD / 10,274' MD

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

Green River Formation (Oil) 4,055' – 6,272' TVD

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 300'. 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 State of Utah DOGM representative at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the State of Utah DOGM Office 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**

a. **Casing Design**

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Design Factors		
	Top	Bottom							Burst	Col	Tens
Surface 8-5/8"	0'	1,000'	24.0	J-55	STC	8.33	8.33	12.0	5.12	4.11	10.17
Production 5-1/2"	0'	10,274'	17.0	N-80	LTC	8.3	8.5	--	3.70	2.93	2.22

Assumptions:

- 1) Surface casing MASP = (frac gradient + 1.0 ppg) – gas gradient
- 2) Production casing MASP (production mode) = reservoir pressure – gas gradient
- 3) All collapse calculations assume fully evacuated casing
- 4) Surface tension calculations assume air weight of casing
- 5) Production tension calculations assume air weight in vertical portion of hole, plus 50,000 lbs overpull

All casing shall be new.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

b. **Cement Design**

Job	Hole Size	Fill	Slurry Description	ft ³	OH Excess	Weight (ppg)	Yield (ft ³ /sk)
				Sacks			
Surface	12-1/4"	1,000'	Class G w/ 2% CaCl ₂ , 0.25 lbs/sk Cello Flake	475	15%	15.8	1.17
				406			
Production Lead	7-7/8"	4,055'	Premium Lite II w/ 3% KCl, 10% bentonite	808	15%	15.8	3.26
				248			
Production Tail	7-7/8"	1,615'	50/50 Poz/Class G w/ 3% KCl, 2% bentonite	322	15%	14.3	1.24
				260			

Actual cement volumes will be calculated from open hole logs, plus 15% excess.

Cement will be pumped through a port cementing collar located at the top of the curve. The lateral will be left uncemented. The lateral will be isolated with open hole packers.

Waiting On Cement: A minimum of four (4) hours shall elapse prior to attempting any pressure testing of the BOP equipment which would subject the surface casing cement to pressure, and a minimum of six (6) hours shall elapse before drilling out of the wiper plug, cement, or shoe is begun. WOC time shall be recorded in the Driller's Log. Compressive Strength shall be a minimum of 500 psi prior to drilling out.

The State of Utah DOGM Office shall be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

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.

The minimum diameter for conductor pipe shall be 13 3/8". The conductor pipe will be cemented back to surface or removed.

As a minimum, usable water zones shall be isolated and/or protected by having a cement top for the production casing at least 200 feet above the base of the usable water. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc., shall be utilized to help isolate the cement from contamination by the mud being displaced ahead of the cement slurry.

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or to 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action shall be taken.

A "Sundry Notices and Reports on Wells" shall be filed with the State of Utah DOGM within 30 days after the work is completed. This report must include the following information:

Setting of each string of casing showing the size, grade, weight of casing set, depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of the cementing tools used, casing test method and results, and the date of the work done. Spud date will be shown on the first reports submitted.

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

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 2M system.

A 2000 psi WP hydraulic BOP stack consisting of two ram preventers (double or two singles) and a rotating head per **Exhibit C**. This system will be in accordance to the specifications listed in the Standard Operating Procedures for the Greater Monument Butte Green River Development Program.

Function test of the BOP equipment shall be made daily. All required BOP tests and/or drills shall be recorded in the Driller's report.

Chart recorders will be used for all pressure tests. Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to BLM representatives upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2 regarding air or gas

shall be adhered to. If a mist system is being utilized, the requirement for a deduster shall be waived.

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

From surface to 1000', an air or fresh water system will be used. From 1000' to TD, a fresh water or brine water system will be utilized. Anticipated maximum mud weight is 9.0 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 State 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.

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

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

a. **Logging Program:**

(the log types run may change at the discretion of the geologist)

FDC/CNL/GR/DIL:

Top of the curve - 3,200'

CBL: A cement bond log will be run from KOP to the cement top of the production casing.

A field copy will be submitted to the Vernal BLM Office.

b. **Cores:** As deemed necessary.

c. **Drill Stem Tests:** No DSTs are planned in the Green River.

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

There is no abnormal pressure or temperature expected. Maximum anticipated bottomhole pressure will be approximately equal total true vertical depth in feet multiplied by a 0.433 psi/foot gradient.

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

a. **Drilling Activity**

Anticipated Commencement Date:

Upon approval of the site specific APD.

Drilling Days:

Approximately 18 days.

Completion Days:

Approximately 12 - 20 days.

b. **Notification of Operations**

The State of Utah DOGM office will be notified at least 24 hours **prior** to the commencement of spudding the well (to be followed with a Sundry Notice, Form 3160-5), of initiating pressure tests of the blowout preventer and related equipment, and running casing and cementing of all casing strings. Notification will be made during regular work hours (7:45 a.m.-4:30 p.m., Monday - Friday except holidays).

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the appropriate regulations, Onshore Orders, or State policy.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in suspended status without prior approval from the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given to the State of Utah DOGM before resumption of operations.

Daily drilling and completion reports shall be submitted to the State of Utah DOGM Office on a weekly basis.

Whether the well is completed as a dry hole or a producer, the "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. One copy of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Authorized Officer (AO).

A completion rig will be used for completion operations after the wells are stimulated to run the production tubing.. All conditions of this approved plan will be applicable during all operations conducted with the completion rig.

Operator shall report production data to the MMS pursuant to 30 CFR 216.5 using form MMS/3160. In accordance with Onshore Oil and Gas Order No. 1, a well will be reported on form 3160-6, "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the State of Utah DOGM Office.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated, or the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever occurs first; and for gas wells, as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated, or the date on which gas is measured through permanent metering facilities, whichever occurs first.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by written communication not later than 5 days following the date when the well is placed on production.

Pursuant to Onshore Order No. 7, with the approval of the AO, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During this period, an application for approval of the permanent disposal method must be submitted to the AO.

Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during the initial well evaluation tests, not to exceed 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the AO and approval received for any venting/flaring of gas beyond the initial 30 days or authorized test period.

A schematic facilities diagram, as required by 43 CFR 3162.7-5(b.9.d), shall be submitted to the State of Utah DOGM Office within 60 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 43 CFR 3162.7-5(b.4).

Well abandonment operations shall not be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment", Form 3160-5, will be filed with the Authorized Officer within 30 days following completion of the well for abandonment. This report will indicate placement of the plugs and current status of the surface restoration. Final Abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO, or the appropriate surface managing agency.

Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with the State and local laws, to the extent to which they are applicable, to operations on Federal or Indian lands.

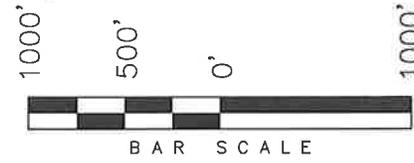
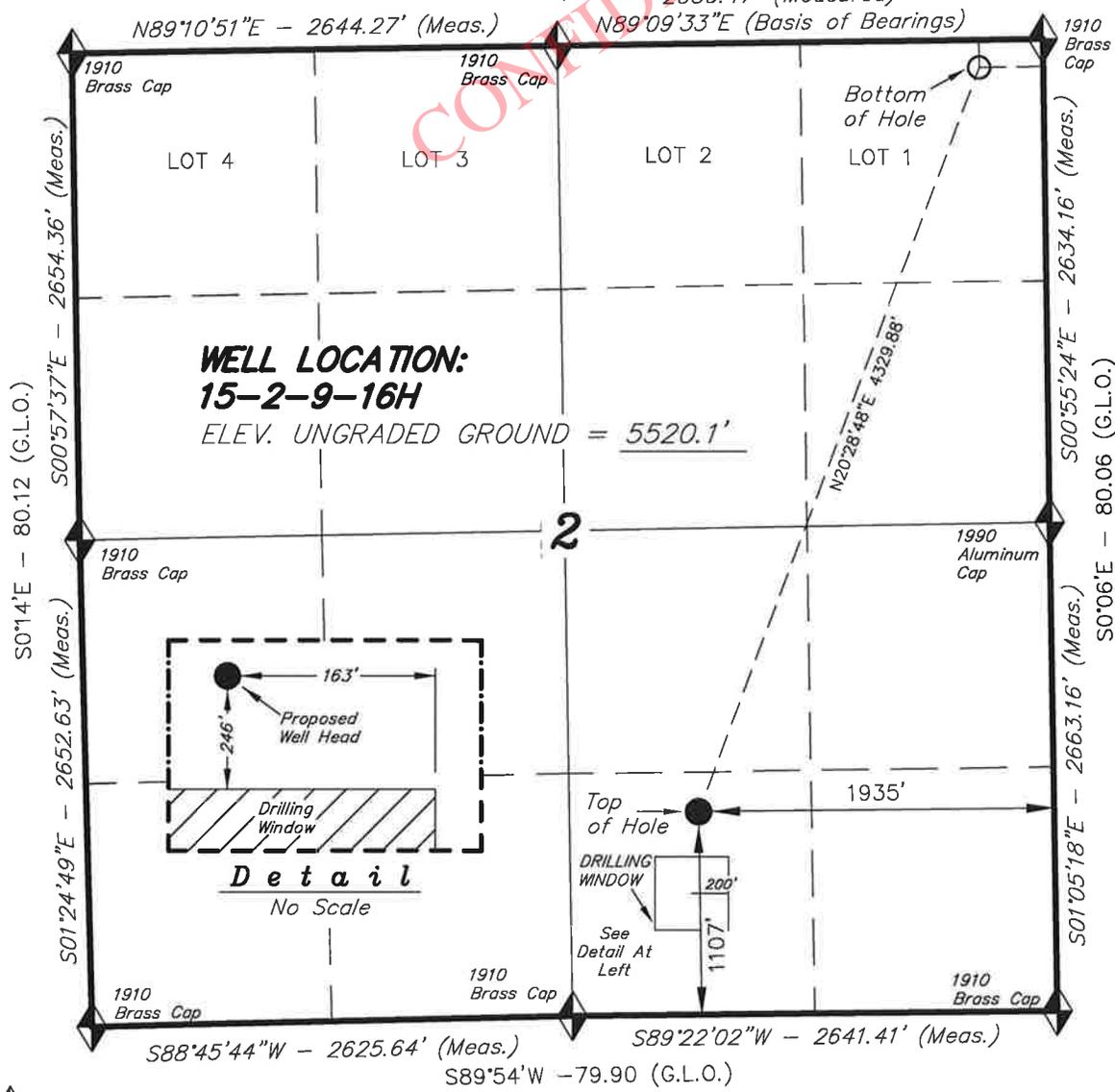
T9S, R16E, S.L.B.&M.

S89°57'E (G.L.O.) 2639.47' (Measured)

NEWFIELD EXPLORATION COMPANY

WELL LOCATION, 15-2-9-16H, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 2, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

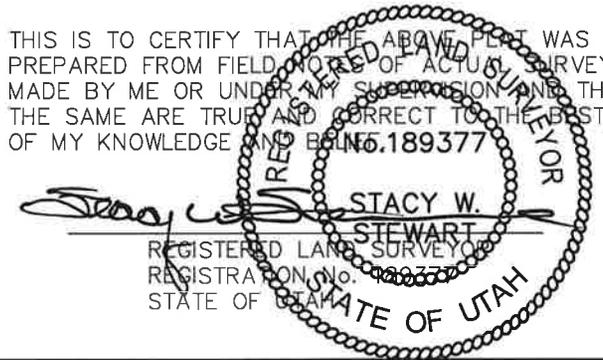
TARGET BOTTOM HOLE, 15-2-9-16H, LOCATED AS SHOWN IN THE NE 1/4 NE 1/4 (LOT 1) OF SECTION 2, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



Note:

1. The bottom of hole footages are 150' FNL & 350' FEL.

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.



◆ = SECTION CORNERS LOCATED

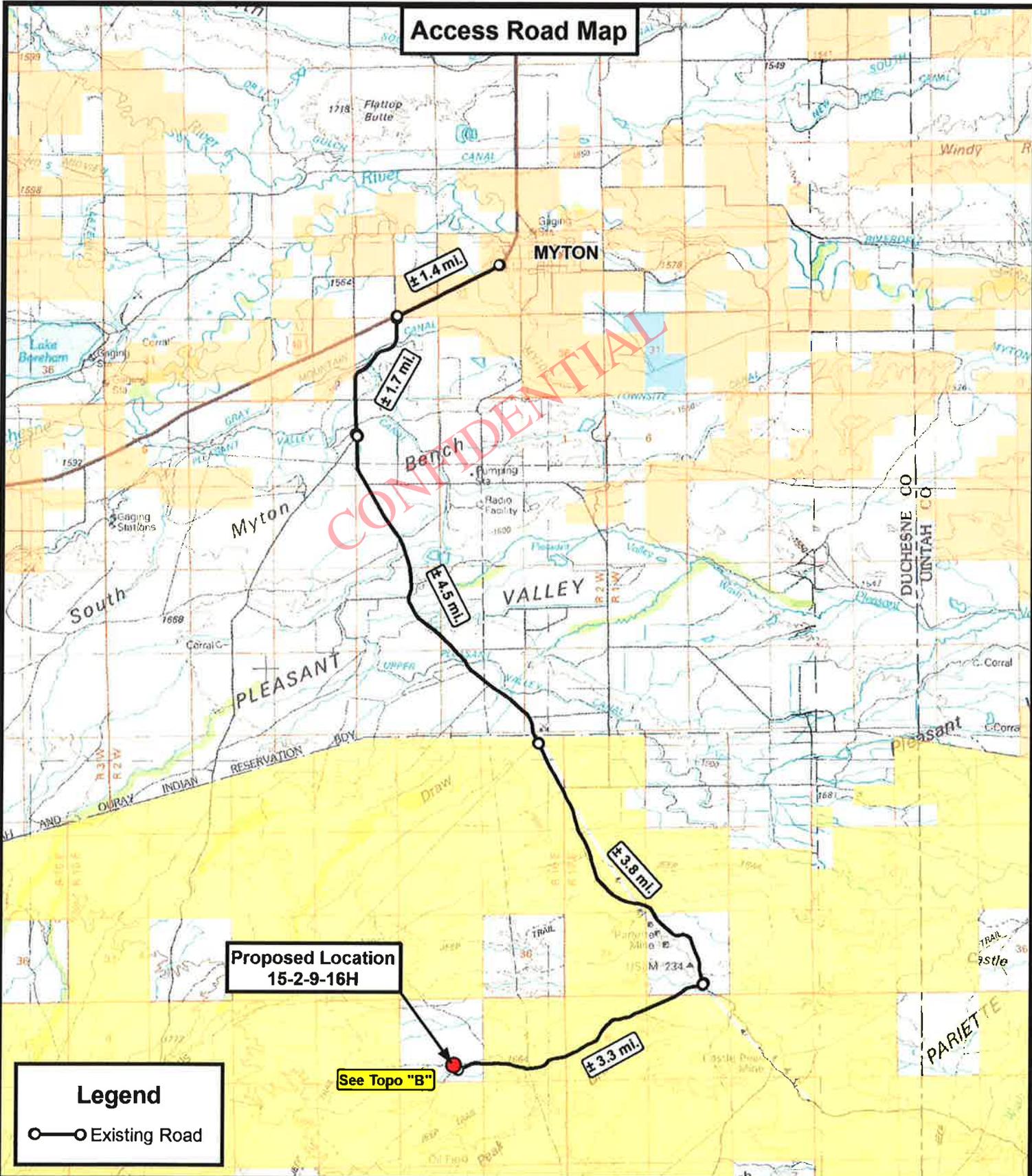
BASIS OF ELEV; Elevations are base on LOCATION: an N.G.S. OPUS Correction. LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

15-2-9-16H
(Surface Location) NAD 83
 LATITUDE = 40° 03' 20.38"
 LONGITUDE = 110° 05' 02.80"

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

DATE SURVEYED: 07-09-10	SURVEYED BY: S.H.
DATE DRAWN: 07-12-10	DRAWN BY: M.W.
REVISED: 08-11-10 - M.W.	SCALE: 1" = 1000'

Access Road Map



Legend

○—○ Existing Road

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

P: (435) 781-2501
 F: (435) 781-2518



NEWFIELD EXPLORATION COMPANY

15-2-9-16H
 SEC. 2, T9S, R16E, S.L.B.&M.
 Duchesne County, UT.

DRAWN BY:	C.H.M.
DATE:	07-13-2010
SCALE:	1:100,000

TOPOGRAPHIC MAP

SHEET
A

Access Road Map

**Proposed Location
15-2-9-16H**

Myton ± 14.7 mi.

± 123'

± 0.1 mi.

Legend

-  Existing Road
-  Proposed Road



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

P: (435) 781-2501
F: (435) 781-2518



NEWFIELD EXPLORATION COMPANY

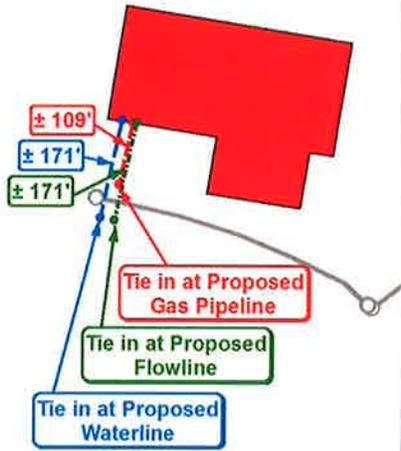
**15-2-9-16H
SEC. 2, T9S, R16E, S.L.B.&M.
Duchesne County, UT.**

DRAWN BY:	C.H.M.
DATE:	07-13-2010
SCALE:	1" = 2,000'

TOPOGRAPHIC MAP

SHEET
B

Detail



Proposed Pipeline Map

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Proposed Location
15-2-9-16H
See "Detail"



Legend

- Existing Road
- Proposed Waterline
- Proposed Gas Pipelines
- Proposed Flowline



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N



NEWFIELD EXPLORATION COMPANY

15-2-9-16H
SEC. 2, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	C.H.M.
DATE:	07-13-2010
SCALE:	1" = 2,000'

TOPOGRAPHIC MAP

SHEET

C

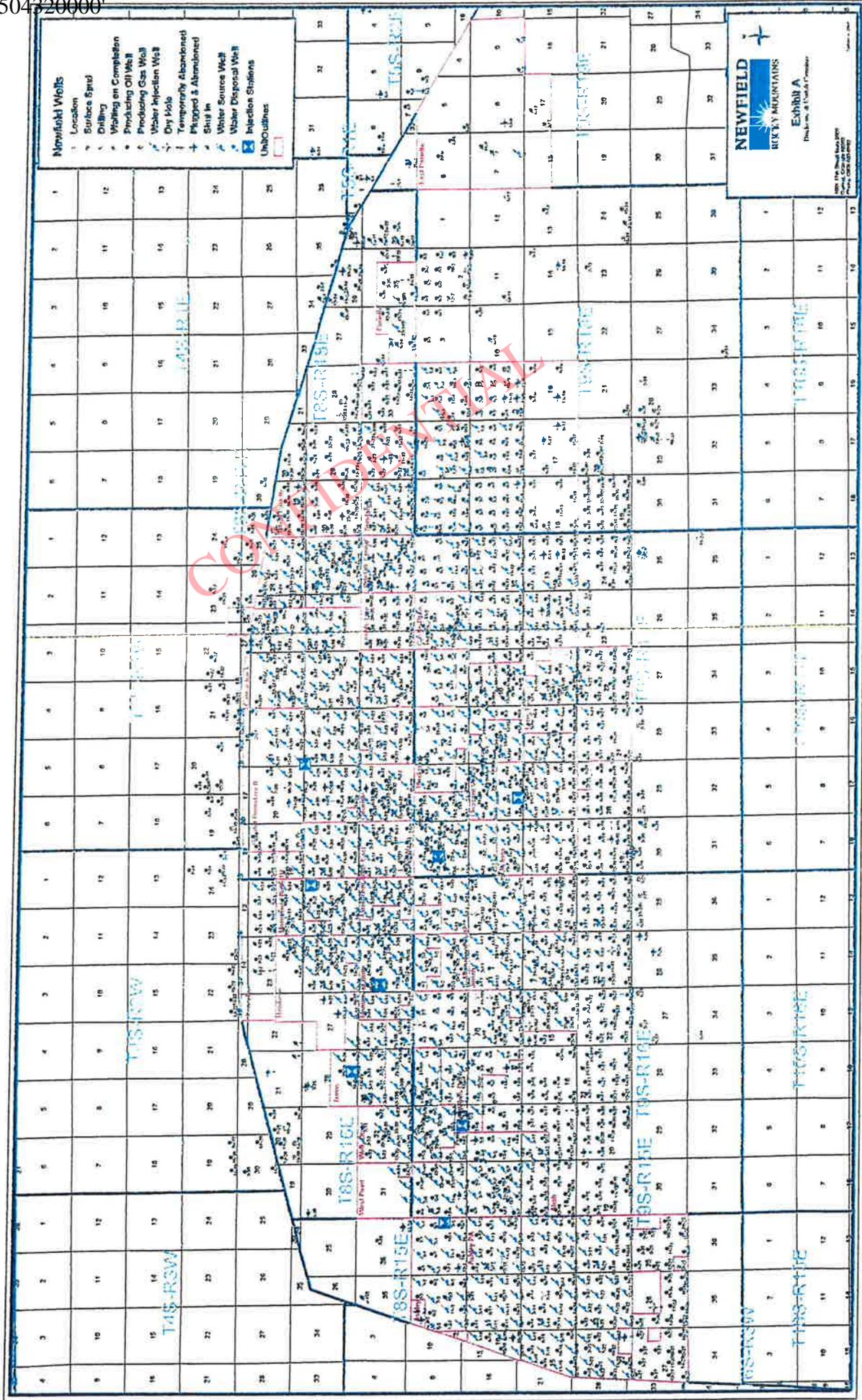


Exhibit "B" Map

**Proposed Location
15-2-9-16H**

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Legend

-  1 Mile Radius
-  Proposed Location

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

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 F: (435) 781-2518



NEWFIELD EXPLORATION COMPANY

15-2-9-16H
SEC. 2, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	C.H.M.
DATE:	07-13-2010
SCALE:	1" = 2,000'

TOPOGRAPHIC MAP

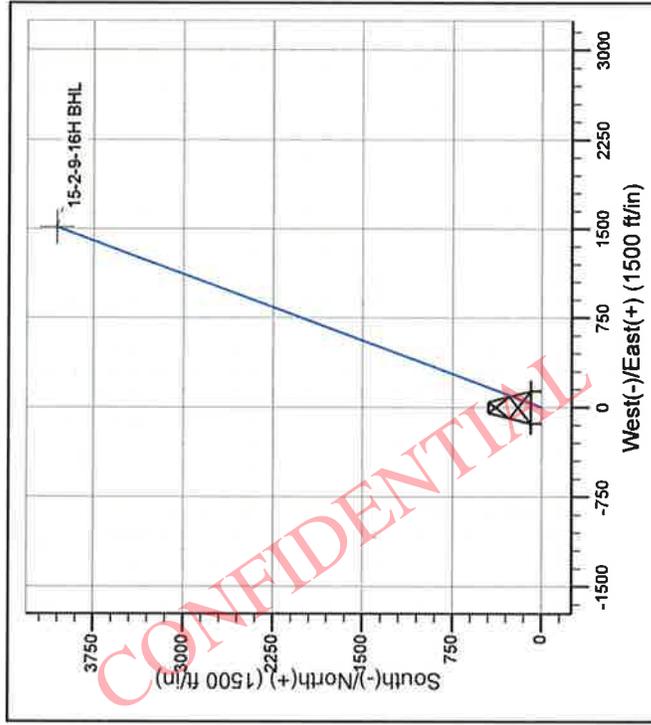
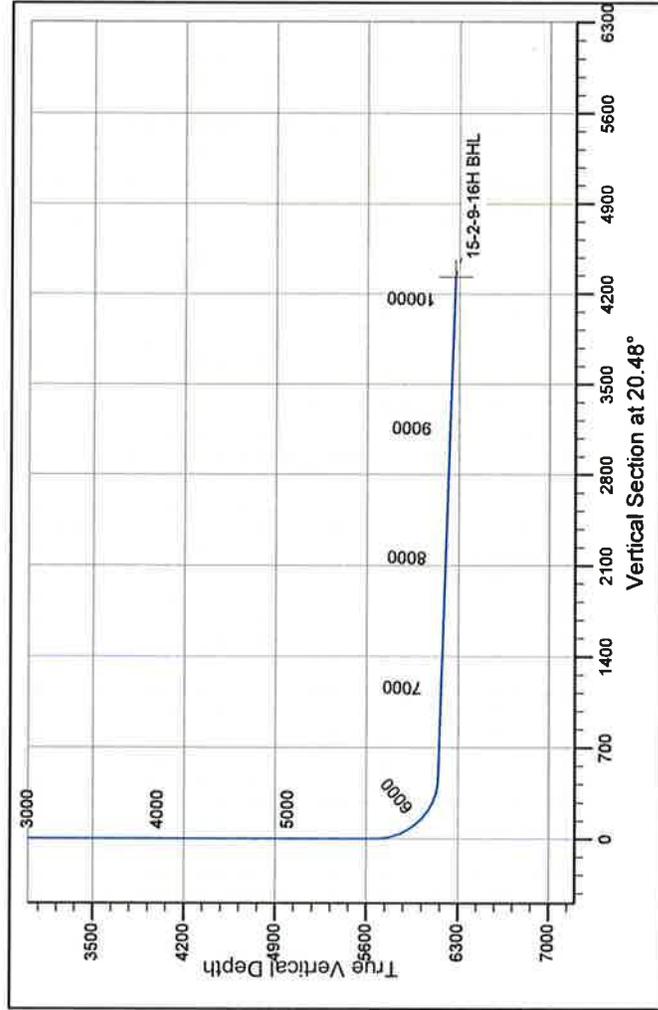
SHEET
D



Newfield Production Company

Project: Monument Butte
Site: GMB 15-2-9-16H
Well: GMB 15-2-9-16H
Wellbore: Wellbore #1
Design: Design #1

T M Azimuths to True North
 Magnetic North: 11.49°
 Magnetic Field
 Strength: 52448.4snT
 Dip Angle: 65.85°
 Date: 12/31/2009
 Model: IGRF200510



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	0.0
2	5669.9	0.00	0.00	5669.9	0.0	0.0	0.00	0.00	0.0	0.0
3	6404.4	88.15	20.48	6147.1	432.8	161.7	12.00	20.48	462.1	
4	10274.3	88.15	20.48	6272.0	4056.2	1514.9	0.00	0.00	4329.9	15-2-9-16H BHL

Created by: Hans Wychgram
Date: 09-15-10

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

Newfield Production Company

Monument Butte

GMB 15-2-9-16H

GMB 15-2-9-16H

Wellbore #1

Plan: Design #1

Standard Planning Report

15 September, 2010

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Newfield Exploration Planning Report

Database: EDM 2003.21 Single User Db	Local Co-ordinate Reference: Well GMB 15-2-9-16H	
Company: Newfield Production Company	TVD Reference: KB @ 5530.0ft (Capstar #329)	
Project: Monument Butte	MD Reference: KB @ 5530.0ft (Capstar #329)	
Site: GMB 15-2-9-16H	North Reference: True	
Well: GMB 15-2-9-16H	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	GMB 15-2-9-16H		
Site Position:		Northing:	2,192,167.19 m
From:	Lat/Long	Easting:	620,793.61 m
Position Uncertainty:	0.0 ft	Slot Radius:	in
		Latitude:	40° 3' 20.380 N
		Longitude:	110° 5' 2.800 W
		Grid Convergence:	0.91 °

Well	GMB 15-2-9-16H		
Well Position	+N/-S	0.0 ft	Northing: 2,192,167.19 m
	+E/-W	0.0 ft	Easting: 620,793.61 m
Position Uncertainty		0.0 ft	Wellhead Elevation: ft
			Latitude: 40° 3' 20.380 N
			Longitude: 110° 5' 2.800 W
			Ground Level: 5,520.0ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	11.49	65.85	52,448

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	20.48

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	
5,669.9	0.00	0.00	5,669.9	0.0	0.0	0.00	0.00	0.00	0.00	
6,404.4	88.15	20.48	6,147.1	432.8	161.7	12.00	12.00	0.00	20.48	
10,274.3	88.15	20.48	6,272.0	4,056.2	1,514.9	0.00	0.00	0.00	0.00	15-2-9-16H BHL

Newfield Exploration Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well GMB 15-2-9-16H
Company:	Newfield Production Company	TVD Reference:	KB @ 5530.0ft (Capstar #329)
Project:	Monument Butte	MD Reference:	KB @ 5530.0ft (Capstar #329)
Site:	GMB 15-2-9-16H	North Reference:	True
Well:	GMB 15-2-9-16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

Newfield Exploration Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well GMB 15-2-9-16H
Company:	Newfield Production Company	TVD Reference:	KB @ 5530.0ft (Capstar #329)
Project:	Monument Butte	MD Reference:	KB @ 5530.0ft (Capstar #329)
Site:	GMB 15-2-9-16H	North Reference:	True
Well:	GMB 15-2-9-16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,669.9	0.00	0.00	5,669.9	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	3.62	20.48	5,700.0	0.9	0.3	1.0	12.00	12.00	0.00
5,800.0	15.62	20.48	5,798.4	16.5	6.2	17.6	12.00	12.00	0.00
5,900.0	27.62	20.48	5,891.2	51.0	19.0	54.4	12.00	12.00	0.00
6,000.0	39.62	20.48	5,974.3	102.7	38.4	109.7	12.00	12.00	0.00
6,100.0	51.62	20.48	6,044.1	169.6	63.3	181.0	12.00	12.00	0.00
6,200.0	63.62	20.48	6,097.6	248.5	92.8	265.3	12.00	12.00	0.00
6,300.0	75.62	20.48	6,132.4	336.2	125.6	358.9	12.00	12.00	0.00
6,400.0	87.62	20.48	6,146.9	428.7	160.1	457.6	12.00	12.00	0.00
6,404.4	88.15	20.48	6,147.1	432.8	161.7	462.1	12.00	12.00	0.00
6,500.0	88.15	20.48	6,150.2	522.3	195.1	557.6	0.00	0.00	0.00
6,600.0	88.15	20.48	6,153.4	616.0	230.1	657.5	0.00	0.00	0.00
6,700.0	88.15	20.48	6,156.6	709.6	265.0	757.5	0.00	0.00	0.00
6,800.0	88.15	20.48	6,159.8	803.2	300.0	857.4	0.00	0.00	0.00
6,900.0	88.15	20.48	6,163.1	896.8	335.0	957.4	0.00	0.00	0.00
7,000.0	88.15	20.48	6,166.3	990.5	369.9	1,057.3	0.00	0.00	0.00
7,100.0	88.15	20.48	6,169.5	1,084.1	404.9	1,157.3	0.00	0.00	0.00
7,200.0	88.15	20.48	6,172.8	1,177.7	439.9	1,257.2	0.00	0.00	0.00
7,300.0	88.15	20.48	6,176.0	1,271.4	474.8	1,357.1	0.00	0.00	0.00
7,400.0	88.15	20.48	6,179.2	1,365.0	509.8	1,457.1	0.00	0.00	0.00
7,500.0	88.15	20.48	6,182.4	1,458.6	544.8	1,557.0	0.00	0.00	0.00
7,600.0	88.15	20.48	6,185.7	1,552.3	579.7	1,657.0	0.00	0.00	0.00
7,700.0	88.15	20.48	6,188.9	1,645.9	614.7	1,756.9	0.00	0.00	0.00
7,800.0	88.15	20.48	6,192.1	1,739.5	649.7	1,856.9	0.00	0.00	0.00
7,900.0	88.15	20.48	6,195.4	1,833.2	684.7	1,956.8	0.00	0.00	0.00
8,000.0	88.15	20.48	6,198.6	1,926.8	719.6	2,056.8	0.00	0.00	0.00
8,100.0	88.15	20.48	6,201.8	2,020.4	754.6	2,156.7	0.00	0.00	0.00
8,200.0	88.15	20.48	6,205.0	2,114.0	789.6	2,256.7	0.00	0.00	0.00
8,300.0	88.15	20.48	6,208.3	2,207.7	824.5	2,356.6	0.00	0.00	0.00
8,400.0	88.15	20.48	6,211.5	2,301.3	859.5	2,456.6	0.00	0.00	0.00
8,500.0	88.15	20.48	6,214.7	2,394.9	894.5	2,556.5	0.00	0.00	0.00
8,600.0	88.15	20.48	6,217.9	2,488.6	929.4	2,656.5	0.00	0.00	0.00
8,700.0	88.15	20.48	6,221.2	2,582.2	964.4	2,756.4	0.00	0.00	0.00
8,800.0	88.15	20.48	6,224.4	2,675.8	999.4	2,856.4	0.00	0.00	0.00
8,900.0	88.15	20.48	6,227.6	2,769.5	1,034.4	2,956.3	0.00	0.00	0.00
9,000.0	88.15	20.48	6,230.9	2,863.1	1,069.3	3,056.3	0.00	0.00	0.00
9,100.0	88.15	20.48	6,234.1	2,956.7	1,104.3	3,156.2	0.00	0.00	0.00
9,200.0	88.15	20.48	6,237.3	3,050.3	1,139.3	3,256.2	0.00	0.00	0.00
9,300.0	88.15	20.48	6,240.5	3,144.0	1,174.2	3,356.1	0.00	0.00	0.00
9,400.0	88.15	20.48	6,243.8	3,237.6	1,209.2	3,456.1	0.00	0.00	0.00
9,500.0	88.15	20.48	6,247.0	3,331.2	1,244.2	3,556.0	0.00	0.00	0.00
9,600.0	88.15	20.48	6,250.2	3,424.9	1,279.1	3,655.9	0.00	0.00	0.00
9,700.0	88.15	20.48	6,253.5	3,518.5	1,314.1	3,755.9	0.00	0.00	0.00
9,800.0	88.15	20.48	6,256.7	3,612.1	1,349.1	3,855.8	0.00	0.00	0.00
9,900.0	88.15	20.48	6,259.9	3,705.8	1,384.1	3,955.8	0.00	0.00	0.00
10,000.0	88.15	20.48	6,263.1	3,799.4	1,419.0	4,055.7	0.00	0.00	0.00
10,100.0	88.15	20.48	6,266.4	3,893.0	1,454.0	4,155.7	0.00	0.00	0.00
10,200.0	88.15	20.48	6,269.6	3,986.7	1,489.0	4,255.6	0.00	0.00	0.00
10,274.3	88.15	20.48	6,272.0	4,056.2	1,514.9	4,329.9	0.00	0.00	0.00

15-2-9-16H BHL

Newfield Exploration Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well GMB 15-2-9-16H
Company:	Newfield Production Company	TVD Reference:	KB @ 5530.0ft (Capstar #329)
Project:	Monument Butte	MD Reference:	KB @ 5530.0ft (Capstar #329)
Site:	GMB 15-2-9-16H	North Reference:	True
Well:	GMB 15-2-9-16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

CONFIDENTIAL

NEWFIELD PRODUCTION COMPANY
GREATER MONUMENT BUTTE 15-2-9-16H
AT SURFACE: SW/SE SECTION 2, T9S, R16E
DUCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. EXISTING ROADS

See attached **Topographic Map “A”**

To reach Newfield Production Company well location site Greater Monument Butte 15-2-9-16H located in the SW¼ SE¼ Section 2, T9S, R16E, S.L.B. & M., Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed southeasterly - 10.0 miles to it's junction with an existing road to the southwest; proceed southwesterly - 3.3 ± to it's junction with an existing road to the northwest; proceed northwesterly - 0.1 miles ± to it's junction with the beginning of the proposed access road to the north; proceed northerly along the proposed access road - 123' ± to the proposed 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

Approximately 123' of access road is proposed. See attached **Topographic Map “B”**.

The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%.

There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

3. LOCATION OF EXISTING WELLS

Refer to **EXHIBIT B**.

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

There are no existing facilities that will be used by this well.

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 a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. 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**

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not 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. A 16 mil liner with felt will be required. Newfield requests approval that a flare pit be constructed and 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:** State of Utah.

12. **OTHER ADDITIONAL INFORMATION:**

Newfield Production Company requests 123' of planned access road to be granted. **Refer to Topographic Map "B"**. Newfield Production Company requests 109' of surface gas line to be granted. Newfield Production Company requests 171' of buried water line to be granted.

It is proposed that the disturbed area will be 60' wide to allow for construction of the proposed access road, a 10" or smaller gas gathering line, a 4" poly fuel gas line, a buried 3" steel water injection line and a buried 3" poly water return line. The planned access road will consist of a 18' permanent running surface (9' either side of the centerline) crowned and ditched in order to handle any run-off from any precipitation events that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be turnouts as needed along this road to allow for increases in potential traffic issues. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Both the proposed surface gas and buried water lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** The proposed water pipelines will be buried in a 4-5' deep trench constructed with a trencher or backhoe for the length of the proposal. The equipment will run on the surface and not be flat bladed to minimize surface impacts to precious topsoil in these High Desert environments. If possible, all proposed surface gas pipelines will be installed on the same side of the road as existing gas lines. The construction phase of the planned access road, proposed gas lines and proposed water lines will last approximately (5) days.

In the event that the proposed well is converted to a water injection well, a Sundry Notice form will be applied for through the State of Utah DOGM office.

The Archaeological Resource Survey will be forthcoming. The Paleontological Resource Survey for this area is attached. Paleontological Resource Survey prepared by, Wade E. Miller, 9/6/10. See attached report cover page, Exhibit "D".

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.

Surface Flow Line

Newfield requests 171' of surface flow line be granted. It is proposed that the disturbed area for the surface flowline will be 30' to allow for construction of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. Refer to Topographic Map "C" for the proposed location of the proposed flow line. Flow lines will be tan and will be constructed using the following procedures:

Clearing and Grading: the proposed flow line will be placed on the surface of the ground. As such no grading or clearing will be needed. The flow line will be centered staked every 200 feet prior to the installation. The flow line will be as close to the access road as possible without interfering with the normal road travel, or road maintenance

Installation for portions along existing roads, lengths of pipe will be laid in the barrow ditch, welded together and moved into place. For lines that go cross-country minimal access will be needed only for maintenance purpose. It is in the best interest of Newfield Exploration to avoid wet and saturated ground that would cause ruts greater than 3 inches in depth. Disturbed areas will be reclaimed with in 120 days of the end of the installation.

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 Greater Monument Butte 15-2-9-16H, 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 Monument Butte 15-2-9-16H 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

Name: Tim Eaton
Address: Newfield Production Company

Ten Point Well Program &
Thirteen Point Well Program
Page 6 of 6

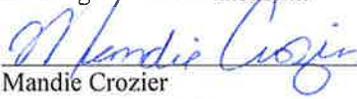
Route 3, Box 3630
Myton, UT 84052
Telephone: (435) 646-3721

Certification

Please be advised that Newfield Production Company is considered to be the operator of well #15-2-9-16H, SW/SE Section 2, T9S, R16E, 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 #B001834.

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.

_____ 9/30/10 _____
Date



Mandie Crozier
Regulatory Specialist
Newfield Production Company

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2-M SYSTEM

Blowout Prevention Equipment Systems

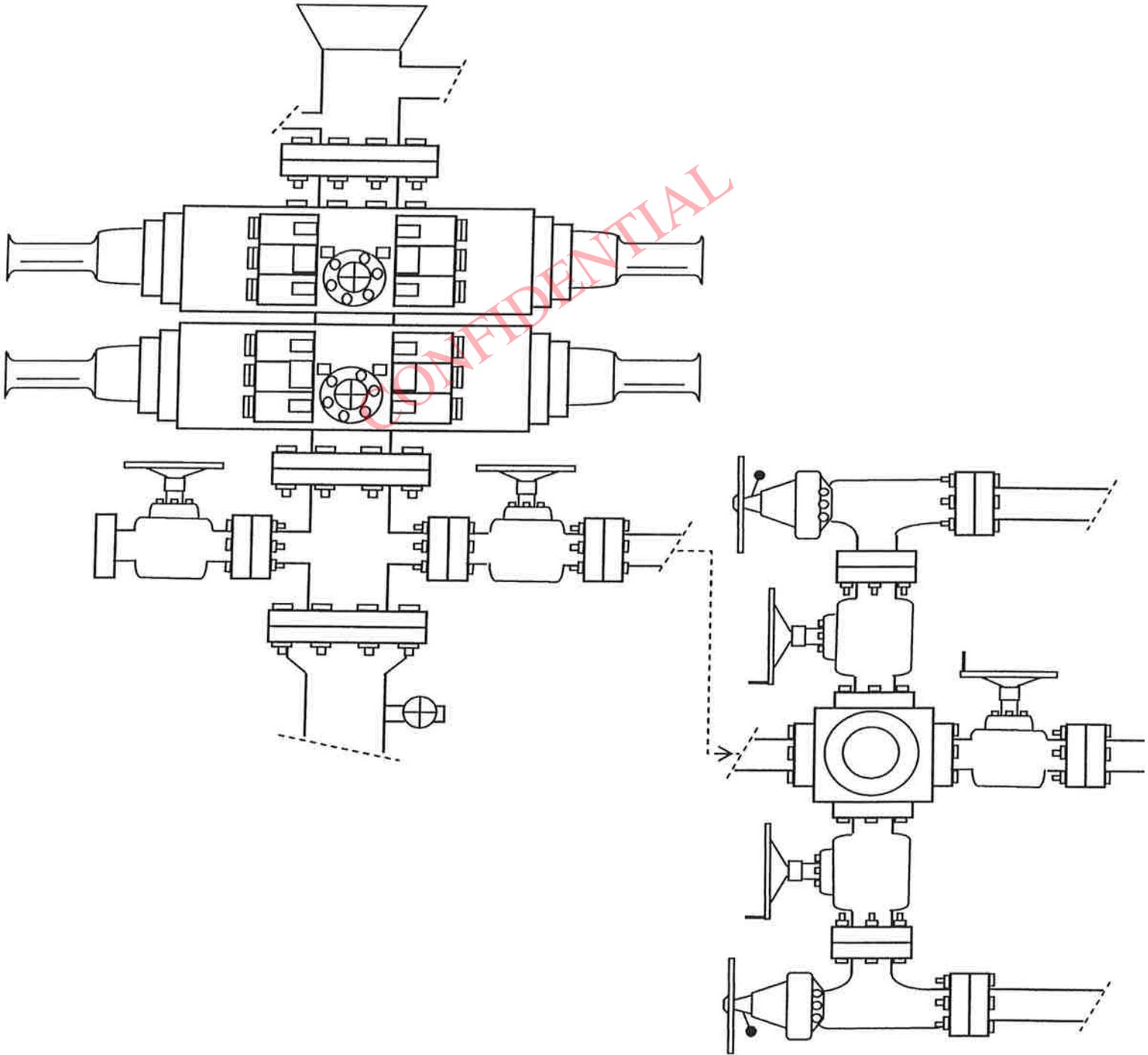
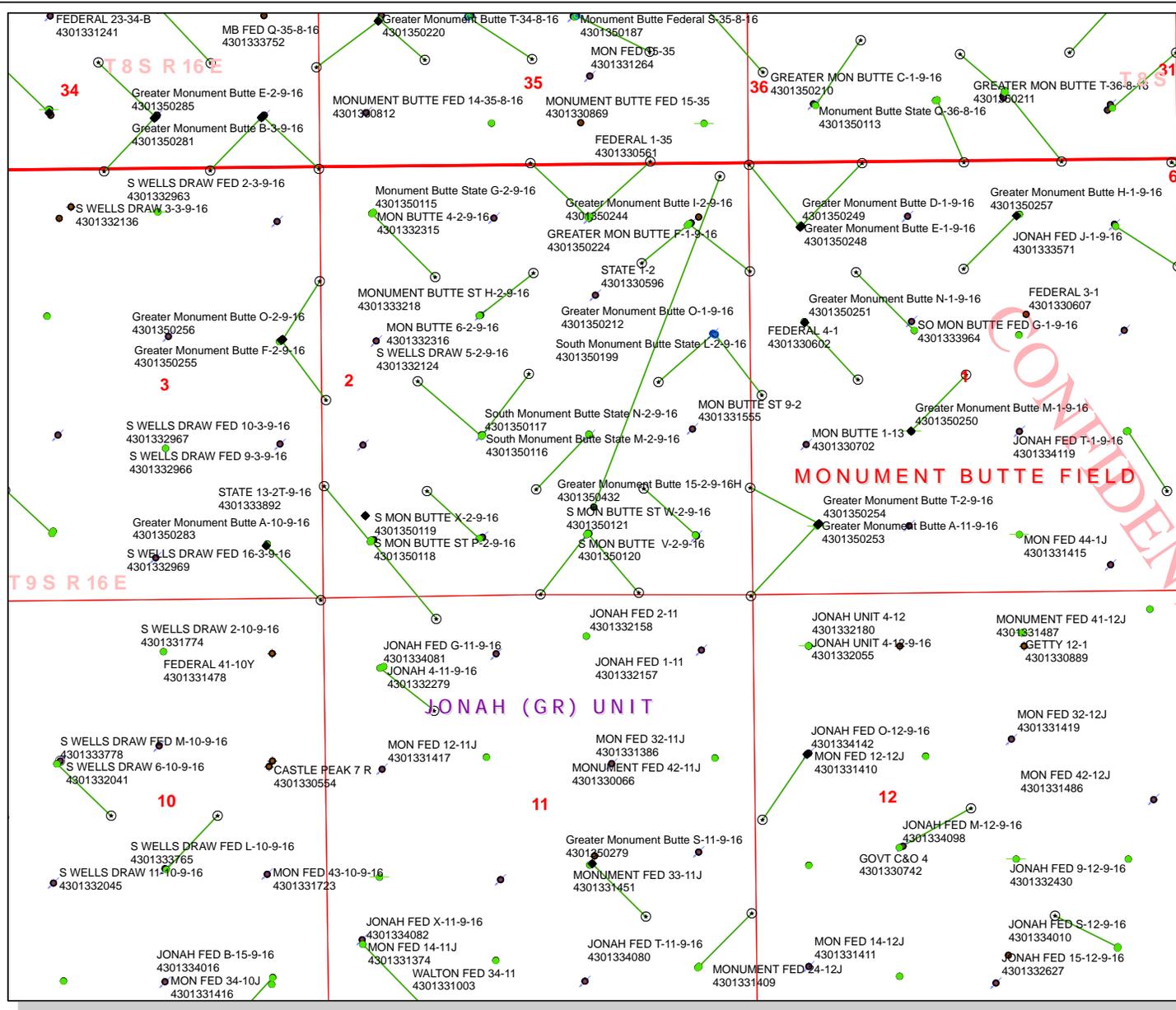
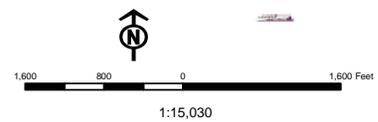


EXHIBIT C

API Number: 4301350432
Well Name: Greater Monument Butte 15-2-9-16H
Township 09.0 S Range 16.0 E Section 02
Meridian: SLBM
Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
 Map Produced by Diana Mason

- | | |
|--|---|
| Units | Wells Query |
| <ul style="list-style-type: none"> ACTIVE EXPLORATORY GAS STORAGE NF PP OIL NF SECONDARY PI OIL PP GAS PP GEOTHERML PP OIL SECONDARY TERMINATED | <ul style="list-style-type: none"> <-all other values> APD - Approved Permit DRL - Spudded (Drilling Commenced) GIW - Gas Injection GS - Gas Storage LA - Location Abandoned LOC - New Location OPS - Operation Suspended PA - Plugged Abandoned PGW - Producing Gas Well POW - Producing Oil Well RET - Returned APD SGW - Shut-in Gas Well SWG - Shut-in Oil Well TA - Temp. Abandoned TW - Test Well WDW - Water Disposal WW - Water Injection Well WSW - Water Supply Well |
| Fields | |
| <ul style="list-style-type: none"> Sections Township Bottom Hole Location - AGRC | |



CONFIDENTIAL

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)

October 5, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Greater Monument
Butte Unit, Duchesne and Uintah Counties,
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 horizontal wells are planned for calendar year 2010 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50432	GMBU 15-2-9-16H Sec 02 T09S R16E 1107 FSL 1935 FEL Lateral 1 Sec 02 T09S R16E 0150 FNL 0350 FEL	
43-013-50433	GMBU 3-32-8-16H Sec 32 T08S R16E 0433 FNL 1699 FWL Lateral 1 Sec 32 T08S R16E 0150 FSL 0290 FWL	

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

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch
of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2010.10.05 13:11:22 -06'00'

bcc: File - Greater Monument Butte Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:10-5-10

**NEWFIELD PRODUCTION COMPANY
GREATER MONUMENT BUTTE 15-2-9-16H
SHL: SW/SE SECTION 2, T9S, R16E
BHL: NE/NE SECTION 2, T9S, R16E
DUCHESNE COUNTY, UTAH**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

This well is designed as a horizontal in the Basal Carbonate formation, at the base of the Green River formation. The well will be drilled vertically to a kick off point of 5,670'. Directional tools will then be used to build to 88.15° inclination and the well will be landed in the Basal Carbonate formation. The lateral will be drilled to the proposed bottomhole location, and 5-1/2" production casing will be run to TD. An open hole packer system and sliding sleeves will be used to isolate separate frac stages in the lateral. The casing will be cemented from the top of the curve to surface with a port collar.

1. GEOLOGIC SURFACE FORMATION:

Uinta formation

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Green River	1,550'
Target (Basal Carbonate)	6,272'
TD	6,272' TVD / 10,274' MD

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

Green River Formation (Oil) 4,055' – 6,272' TVD

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 300'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the State 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 the State of Utah DOGM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the State Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the State 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.

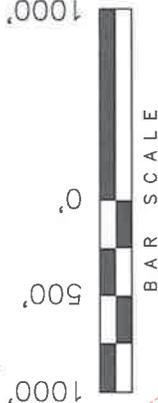
The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH

NEWFIELD EXPLORATION COMPANY

WELL LOCATION, 15-2-9-16H, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 2, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, 15-2-9-16H, LOCATED AS SHOWN IN THE NE 1/4 NE 1/4 (LOT 1) OF SECTION 2, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



Note:
1. The bottom of hole footages are 150' FNL & 350' FEL.

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. 189377

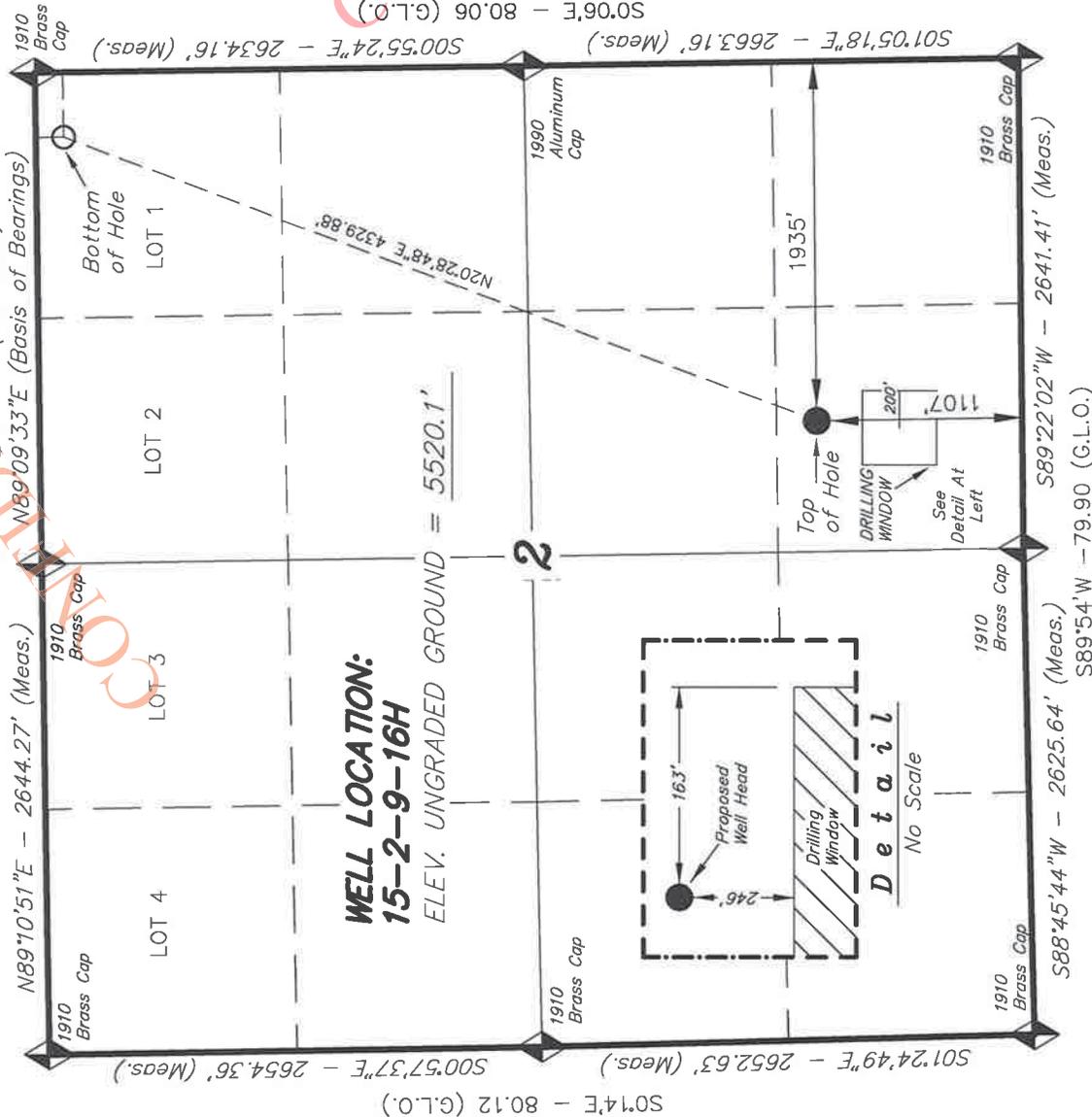
Stacy W. Stewart
STACY W. STEWART
REGISTERED LAND SURVEYOR
REGISTRATION NO. 88827
STATE OF UTAH

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

DATE SURVEYED: 07-09-10	SURVEYED BY: S.H.
DATE DRAWN: 07-12-10	DRAWN BY: M.W.
REVISED: 08-11-10 - M.W.	SCALE: 1" = 1000'

T9S, R16E, S.L.B.&M.

S89°57'E (G.L.O.) 2639.47' (Measured)
N89°09'33"E (Basis of Bearings)



15-2-9-16H
(Surface Location) **NAD 83**
LATITUDE = 40° 03' 20.38"
LONGITUDE = 110° 05' 02.80"

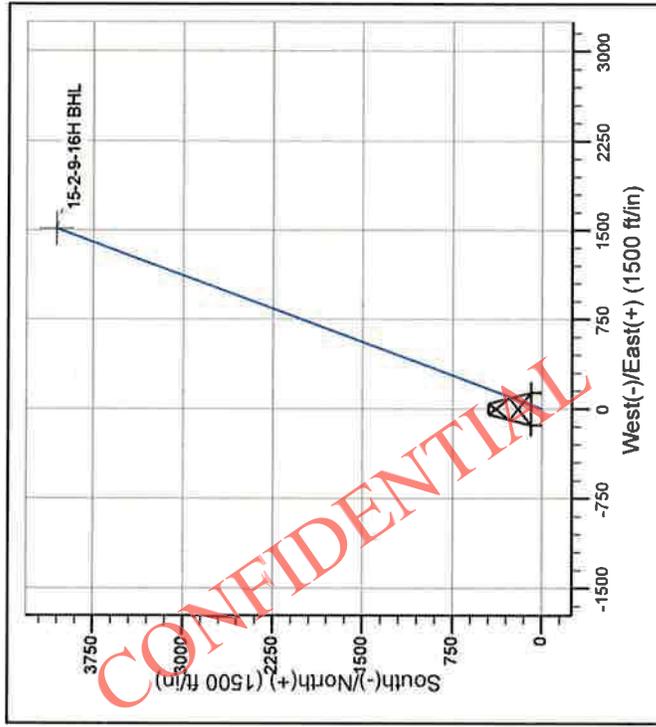
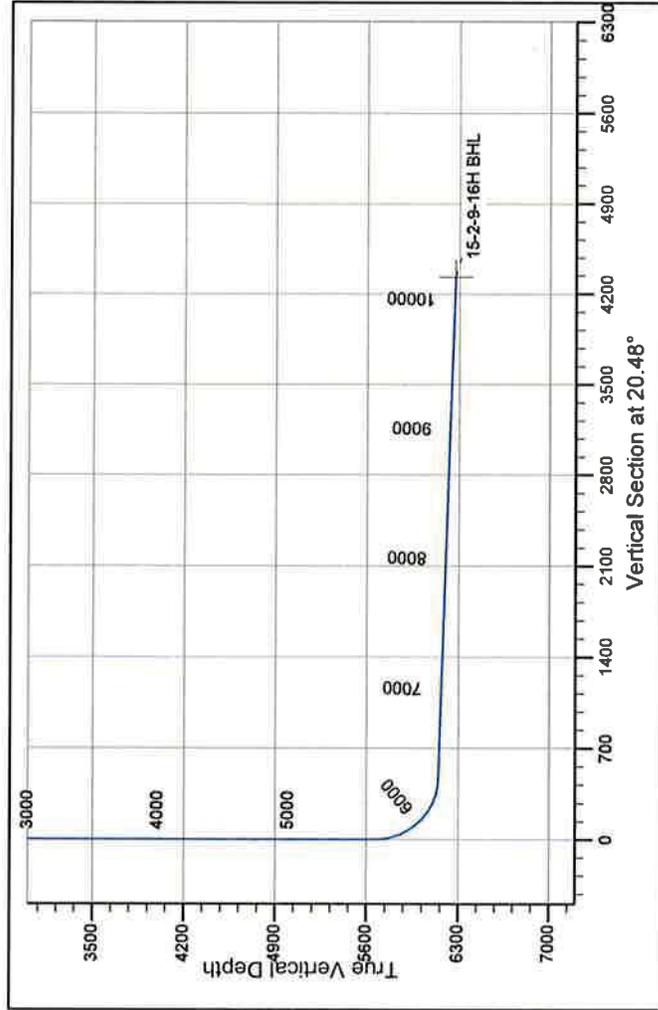
◆ = SECTION CORNERS LOCATED
BASIS OF ELEV; Elevations are base on LOCATION: an N.G.S. OPUS Correction. LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'



Newfield Production Company

Project: Monument Butte
 Site: GMB 15-2-9-16H
 Well: GMB 15-2-9-16H
 Wellbore: Wellbore #1
 Design: Design #1

T M Azimuths to True North
 Magnetic North: 11.49°
 Magnetic Field
 Strength: 52448.4snT
 Dip Angle: 65.85°
 Date: 12/31/2009
 Model: IGRF200810



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	0.0
2	5669.9	0.00	0.00	5669.9	0.0	0.0	0.00	0.00	0.0	0.0
3	6404.4	88.15	20.48	6147.1	432.8	161.7	12.00	20.48	462.1	
4	10274.3	88.15	20.48	6272.0	4056.2	1514.9	0.00	0.00	4329.9	15-2-9-16H BHL

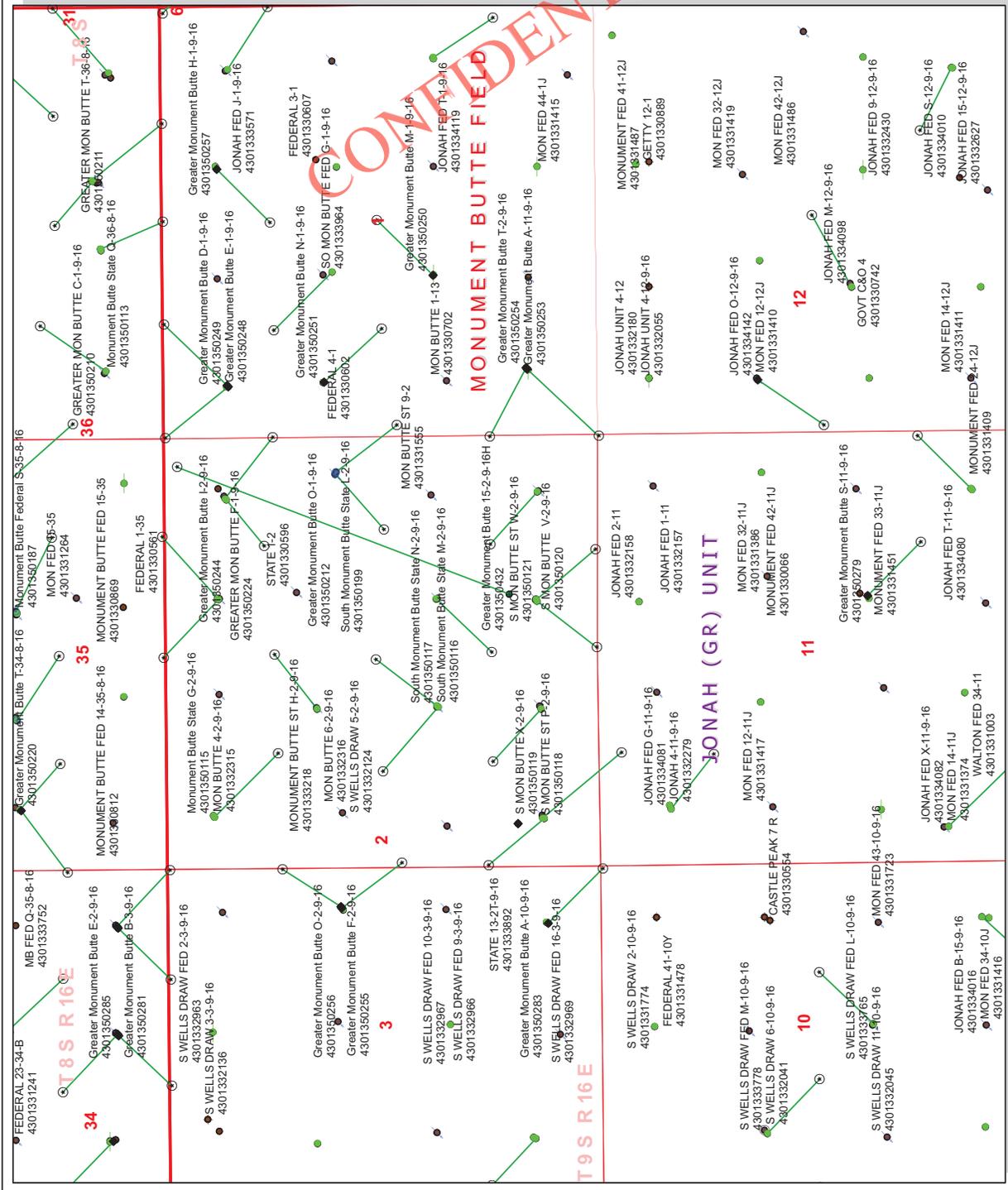
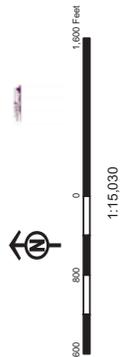
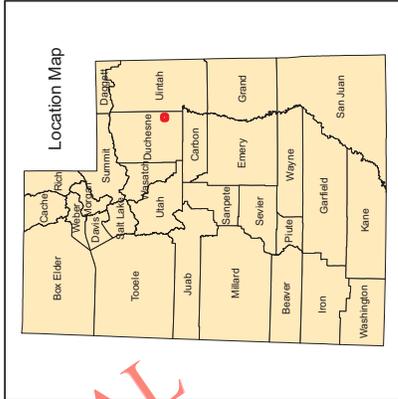
PROJECT DETAILS: Monument Butte
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Utah Central Zone
 System Datum: Mean Sea Level

Created by: Hans Wychgram
 Date: 09-15-10

API Number: 4301350432
Well Name: Greater Monument Butte 15-2-9-16H
Township 09.0 S Range 16.0 E Section 02
Meridian: SLBM
Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason

- Units**
- ACTIVE
 - EXPLORATORY
 - GAS STORAGE
 - NFP OIL
 - NF SECONDARY
 - P/OIL
 - PP GAS
 - PP-ECHEMICAL
 - PP-OIL
 - SECONDARY
 - TERMINATED
- Fields**
- Sections
 - Township
 - Bottom Hole Location - AGRIC
- Wells Query**
- APD - Approved Permit
 - DL - Spooled (During Commercial)
 - GW - Gas Injection
 - TR - Temp. Abandoned
 - LOC - New Location
 - OPS - Operation Suspended
 - PH - Plugged Abandoned
 - POW - Producing Oil Well
 - RET - Returned APD
 - SDW - Shut-in Gas Well
 - SDW - Shut-in Oil Well
 - TR - Temp. Abandoned
 - TW - Test Well
 - WDW - Water Disposal
 - WW - Water Injection Well
 - WSW - Water Supply Well



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**NEWFIELD PRODUCTION COMPANY
GREATER MONUMENT BUTTE 3-32-8-16H
SHL: NE/NW SECTION 32, T8S, R16E
BHL: SW/SW SECTION 32, T8S, R16E
DUCHESNE COUNTY, UTAH**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

This well is designed as a horizontal in the Basal Carbonate formation, at the base of the Green River formation. The well will be drilled vertically to a kick off point of 5,864'. Directional tools will then be used to build to 91.5° inclination and the well will be landed in the Basal Carbonate formation. The lateral will be drilled to the proposed bottomhole location, and 5-1/2" production casing will be run to TD. An open hole packer system and sliding sleeves will be used to isolate separate frac stages in the lateral. The casing will be cemented from the top of the curve to surface with a port collar.

1. GEOLOGIC SURFACE FORMATION:

Uinta formation

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Green River	1,715'
Target (Basal Carbonate)	6,226'
TD	6,226' TVD / 11,049' MD

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

Green River Formation (Oil) 4,260' – 6,226' TVD

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 300'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the State 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 DOGM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the State Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the State 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.

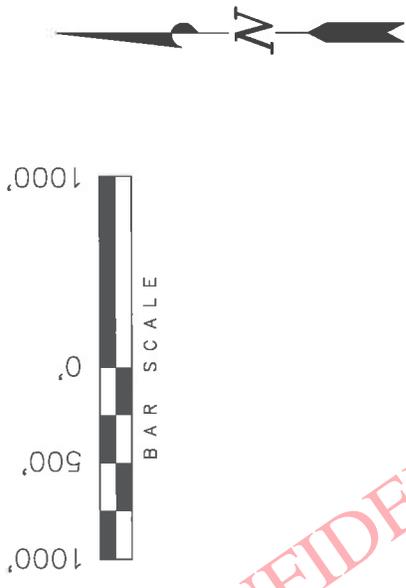
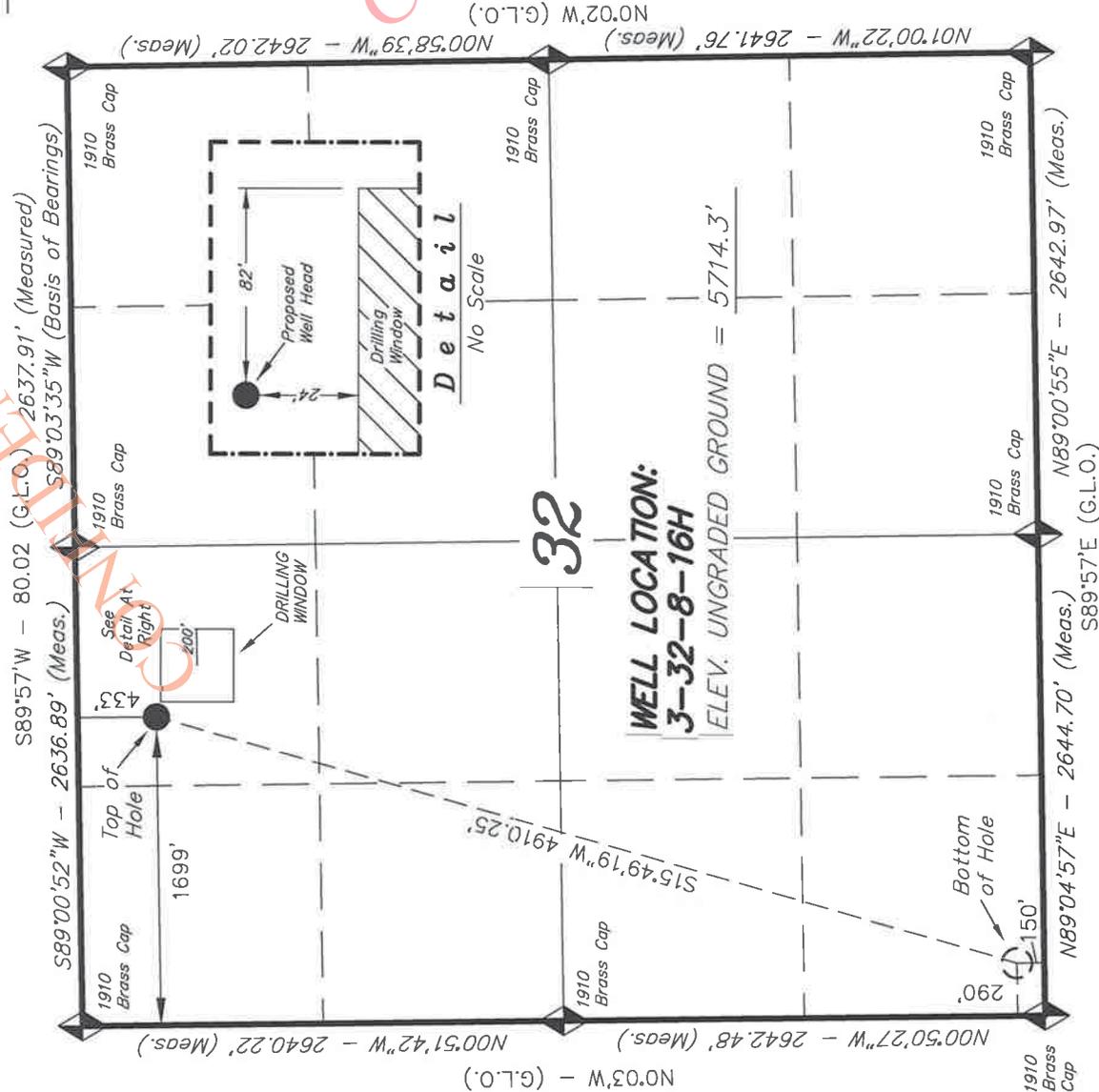
The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH

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

NEWFIELD EXPLORATION COMPANY

WELL LOCATION, 3-32-8-16H, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 32, T8S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



CONFIDENTIAL

THIS IS TO CERTIFY THAT THE ABOVE REPORT WAS PREPARED FROM FIELD NOTES OF ACCURATE 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

Stacy W. Stewart
 STACY W. STEWART
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 189377
 STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING	
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 07-15-10	SURVEYED BY: C.D.S.
DATE DRAWN: 07-26-10	DRAWN BY: F.T.M./M.W.
REVISED:	SCALE: 1" = 1000'

3-32-8-16H
 (Surface Location) **NAD 83**
 LATITUDE = 40° 04' 49.78"
 LONGITUDE = 110° 08' 47.97"

◆ = SECTION CORNERS LOCATED
 BASIS OF ELEV; Elevations are base on LOCATION: an N.G.S. OPUS Correction. LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

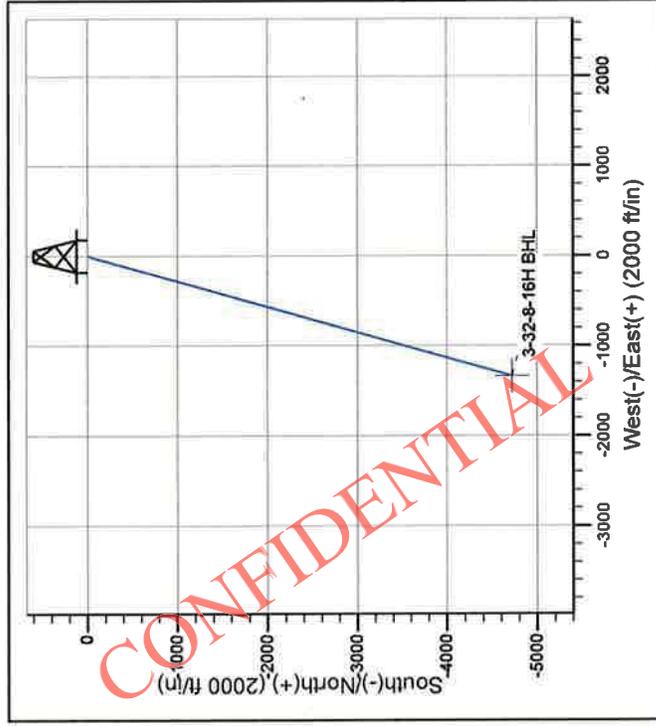
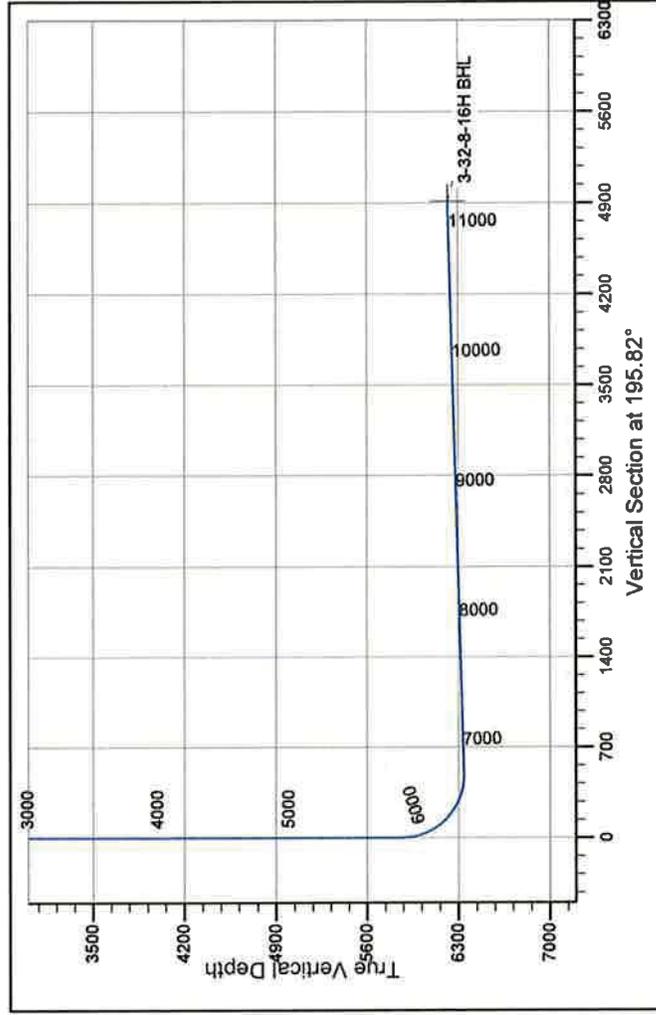


Newfield Production Company

Project: Monument Butte
Site: GMB 3-32-8-16H
Well: GMB 3-32-8-16H
Wellbore: Wellbore #1
Design: Design #1

T M Azimuths to True North
 Magnetic North: 11.52°

Magnetic Field
 Strength: 52451.5snT
 Dip Angle: 65.85°
 Date: 12/31/2009
 Model: IGRF200510



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	0.0
2	5864.4	0.00	0.00	5864.4	0.0	0.0	0.00	0.00	0.0	0.0
3	6626.9	91.50	195.82	6341.7	-471.4	-133.6	12.00	195.82	490.0	490.0
4	11048.7	91.50	195.82	6226.0	-4724.2	-1338.8	0.00	0.00	4910.3	3-32-8-16H BHL

Created by: Hans Wychgram
Date: 09-15-10

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

From: Jim Davis
To: Bonner, Ed; Mason, Diana
CC: Garrison, LaVonne; mcrozier@newfield.com; teaton@newfield.com
Date: 10/20/2010 12:33 PM
Subject: Newfield APD approvals (2)

The following wells have been approved including arch and paleo clearance.

Greater Monument Butte 3-32-8-16H (4301350433)

Greater Monument Butte 15-2-9-16H (4301350432)

-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

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Well Name	NEWFIELD PRODUCTION COMPANY Greater Monument Butte 15-2-9-16			
String	Surf	Prod		
Casing Size(")	8.625	5.500		
Setting Depth (TVD)	1000	6272		
Previous Shoe Setting Depth (TVD)	40	1000		
Max Mud Weight (ppg)	8.3	9.0		
BOPE Proposed (psi)	500	2000		
Casing Internal Yield (psi)	2950	7740		
Operators Max Anticipated Pressure (psi)	2716	8.3		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	432	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	312	YES <input type="checkbox"/> air or fresh water drill <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	212	YES <input type="checkbox"/> OK <input type="checkbox"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	221	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		1000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

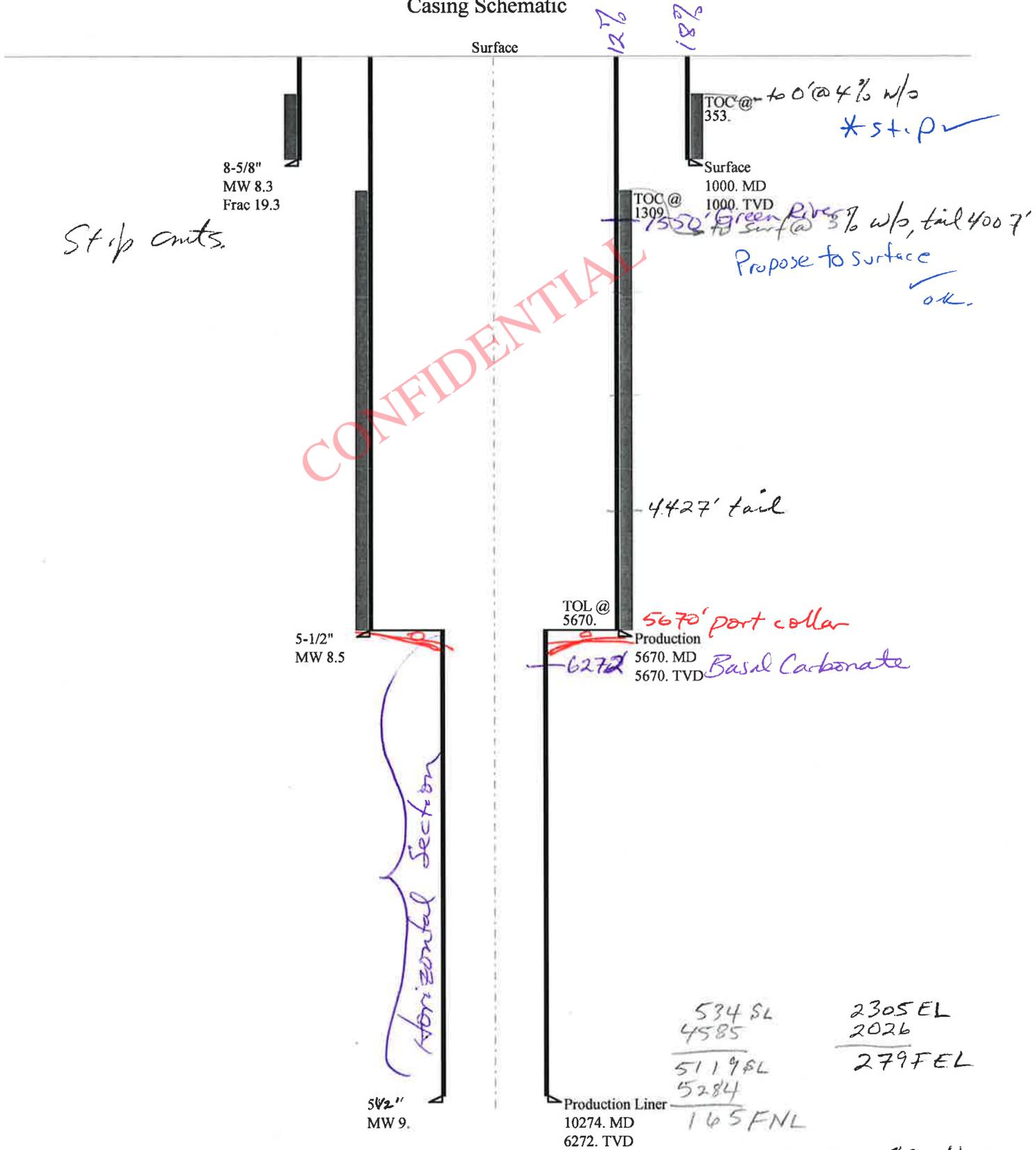
Calculations	Prod String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	2935	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	2182	NO <input type="checkbox"/> <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1555	YES <input type="checkbox"/> OK <input type="checkbox"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1775	NO <input type="checkbox"/> Reasonable <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		2000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		1000	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO <input type="checkbox"/> <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="checkbox"/> <input type="checkbox"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO <input type="checkbox"/> <input type="checkbox"/>
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO <input type="checkbox"/> <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="checkbox"/> <input type="checkbox"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO <input type="checkbox"/> <input type="checkbox"/>
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

43013504320000 Greater Monument Butte 15-2-9-16H

Casing Schematic



CONFIDENTIAL

Well name:	43013504320000 Greater Monument Butte 15-2-9-16H		
Operator:	NEWFIELD PRODUCTION COMPANY		
String type:	Surface	Project ID:	43-013-50432
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 8.330 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 88 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 353 ft

Burst

Max anticipated surface pressure: 880 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 1,000 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.70 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Tension is based on air weight.
 Neutral point: 875 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 6,272 ft
 Next mud weight: 9.000 ppg
 Next setting BHP: 2,932 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 1,000 ft
 Injection pressure: 1,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	1000	8.625	24.00	J-55	ST&C	1000	1000	7.972	5147
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	433	1370	3.166	1000	2950	2.95	24	244	10.17 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: December 6, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1000 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013504320000 Greater Monument Butte 15-2-9-16H		
Operator:	NEWFIELD PRODUCTION COMPANY		
String type:	Production	Project ID:	43-013-50432
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 8.500 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 153 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 1,309 ft

Burst

Max anticipated surface pressure: 1,256 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 2,504 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.80 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.60 (B)

Non-directional string.

Tension is based on air weight.
 Neutral point: 4,939 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	5670	5.5	17.00	N-80	LT&C	5670	5670	4.767	31958
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2504	6290	2.512	2504	7740	3.09	96.4	348	3.61 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: December 6, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 5670 ft, a mud weight of 8.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator NEWFIELD PRODUCTION COMPANY
Well Name Greater Monument Butte 15-2-9-16H
API Number 43013504320000 **APD No** 3039 **Field/Unit** MONUMENT BUTTE
Location: 1/4,1/4 SWSE **Sec 2 Tw 9.0S Rng 16.0E 1107 FSL 1935 FEL**
GPS Coord (UTM) **Surface Owner**

Participants

Floyd Bartlett (DOGM), Joe Pippy (Newfield Production Company), Jim Davis and Lavonne Garrison (SITLA).

Regional/Local Setting & Topography

The general area is approximately 12 miles southwest of Myton, Utah in the Castle Peak Draw area of the Monument Butte oil field. Castle Peak Draw runs in a northeasterly direction and joins Pariette Draw. Pariette Draw continues in a southeasterly direction about 6 miles and joins the Green River about 6 miles below Ouray Utah. Pariette Draw contains a perennial stream somewhat consisting of irrigation runoff and seepage. No streams springs or seeps occur in the immediate area. An occasional pond constructed to store runoff for livestock or wildlife exists. Drainages are ephemeral only flowing during spring snowmelt or following intense summer rainstorms. Broad flats or rolling topography intersected by drainages with gentle to sometimes steep side-slopes characterize the area. Access from Myton, Utah is following State of Utah Hwy. 40 and Duchesne and Uintah County and oilfield development roads a distance of 14.8 miles. A new road 0.1 miles in length will be required to reach the location.

The proposed State 15-2-9-16 is an oil well to be horizontally drilled. The pad is oriented in a west to east direction on a flat with a gentle slope to the northeast. It is also north of an existing well and road. A road also exists to the west. Maximum cuts are 6.4 feet at Pit Corner C and Location Corner 6. Maximum fill is 7.0 feet at Corner 2 which is on the northeast corner. A shallow swale enters the location on the west near Corner 7 and continues across the site. It should be diverted to the north around the pad. The road entrance onto the location will be moved from Corner 6 to between Corners 7 and 8. The selected site has no apparent concerns and appears to be a good location for constructing a pad, drilling and operating a well.

Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use

Grazing
Wildlfe Habitat

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.1	Width 310 Length 400	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

The site is moderately vegetated. Vegetation is a desert shrub type which includes, shadscale, curly mesquite, halogeton, mustard weed, rabbit brush, horsebrush, broom snakeweed, globe mallow and spring annuals..

Cattle, prairie dogs, antelope, small mammals and birds.

Soil Type and Characteristics

Shallow sandy loam with some surface rock.

Erosion Issues N

Sedimentation Issues Y

Site Stability Issues N

Drainage Diversion Required? Y

A shallow swale enters the location on the west near Corner 7 and continues across the site. It should be diverted to the north around the pad.

Berm Required? Y

Erosion Sedimentation Control Required? Y

A shallow swale enters the location on the west near Corner 7 and continues across the site.

Paleo Survey Run? **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors	Site Ranking	
Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	300 to 1320	10
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	30 1 Sensitivity Level

Characteristics / Requirements

A 100' x 165' x 8' deep reserve pit is planned in an area of cut on the southwest side of the location. A pit liner is required. Newfield commonly uses a 16-mil liner.

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

Other Observations / Comments

Floyd Bartlett
Evaluator

10/13/2010
Date / Time

Application for Permit to Drill

Statement of Basis

12/14/2010

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
3039	43013504320000	LOCKED	OW	S	No
Operator	NEWFIELD PRODUCTION COMPANY		Surface Owner-APD		
Well Name	Greater Monument Butte 15-2-9-16H		Unit	GMBU (GRRV)	
Field	MONUMENT BUTTE		Type of Work	DRILL	
Location	SWSE 2 9S 16E S 1107 FSL 1935 FEL		GPS Coord (UTM)	578176E 4434119N	

Geologic Statement of Basis

Newfield proposes to set 300' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 1,500'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 2. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a major source of useable ground water. However, ground water in the Uinta Formation should be of sufficient quality and quantity for isolated domestic and agricultural use and should be protected. Surface casing should be extended to cover the base of the moderately saline ground water.

Brad Hill
APD Evaluator

10/28/2010
Date / Time

Surface Statement of Basis

The general area is approximately 12 miles southwest of Myton, Utah in the Castle Peak Draw area of the Monument Butte oil field. Castle Peak Draw runs in a northeasterly direction and joins Pariette Draw. Pariette Draw continues in a southeasterly direction about 6 miles and joins the Green River about 6 miles below Ouray Utah. Pariette Draw contains a perennial stream somewhat consisting of irrigation runoff and seepage. No streams springs or seeps occur in the immediate area. An occasional pond constructed to store runoff for livestock or wildlife exists. Drainages are ephemeral only flowing during spring snowmelt or following intense summer rainstorms. Broad flats or rolling topography intersected by drainages with gentle to sometimes steep side-slopes characterize the area. Access from Myton, Utah is following State of Utah Hwy. 40 and Duchesne and Uintah County and oilfield development roads a distance of 14.8 miles. A new road 0.1 miles in length will be required to reach the location.

The proposed State 15-2-9-16 is an oil well to be horizontally drilled. The pad is oriented in a west to east direction on a flat with a gentle slope to the northeast. It is also north of an existing well and road. A road also exists to the west. Maximum cuts are 6.4 feet at Pit Corner C and Location Corner 6. Maximum fill is 7.0 feet at Corner 2 which is on the northeast corner. A shallow swale enters the location on the west near Corner 7 and continues across the site. It should be diverted to the north around the pad. The road entrance onto the location will be moved from Corner 6 to between Corners 7 and 8. The selected site has no apparent concerns and appears to be a good location for constructing a pad, drilling and operating a well.

Both the surface and minerals are owned by SITLA. Jim Davis represented SITLA at the pre-site evaluation. He had no concerns regarding the proposed site. SITLA is to be contacted for reclamation standards including a seed mix to be used when re-seeding the disturbed areas.

Ben Williams of the Utah Division of Wildlife Resources was invited to the pre-site. He did not attend.

Floyd Bartlett
Onsite Evaluator

10/13/2010
Date / Time

Application for Permit to Drill Statement of Basis

12/14/2010

Utah Division of Oil, Gas and Mining

Page 2

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	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

CONFIDENTIAL

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 9/30/2010

API NO. ASSIGNED: 43013504320000

WELL NAME: Greater Monument Butte 15-2-9-16H

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: SWSE 02 090S 160E

Permit Tech Review:

SURFACE: 1107 FSL 1935 FEL

Engineering Review:

BOTTOM: 0150 FNL 0350 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.05559

LONGITUDE: -110.08344

UTM SURF EASTINGS: 578176.00

NORTHINGS: 4434119.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 3 - State

LEASE NUMBER: ML-21839

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: STATE/FEE - B001834
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 437478
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingle Approved

LOCATION AND SITING:

- R649-2-3.
Unit: GMBU (GRRV)
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
Board Cause No: Cause 213-11
Effective Date: 11/30/2009
Siting: Suspends General Siting
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill
10 - Cement Ground Water - hmacdonald
15 - Directional - bhill
25 - Surface Casing - hmacdonald
27 - Other - bhill



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

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 Monument Butte 15-2-9-16H
API Well Number: 43013504320000
Lease Number: ML-21839
Surface Owner: STATE
Approval Date: 12/14/2010

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 213-11. 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

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:

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

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.

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

The 5 ½" casing string cement shall be brought back to ±800' to isolate base of moderately saline ground water.

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

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
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

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:



For John Rogers
Associate Director, Oil & Gas

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)

September 19, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Greater Monument
Butte Unit, Duchesne and Uintah Counties,
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 2011 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API#	WELL NAME	LOCATION
------	-----------	----------

(Proposed PZ GREEN RIVER)

43-013-50969	GMBU 1-2-9-16H	Sec 02 T09S R16E 0985 FNL 0231 FEL
	Lateral 1	Sec 02 T09S R16E 0100 FSL 2225 FEL

Pursuant to telephone conversation between Steve Adams, Newfield Production Company, and Mickey Coulthard, Utah State Office, Bureau of Land Management, upon approval of the GMBU 1-2-9-16H Newfield will request that the approval of the 15-2-9-16H, API 43-013-50432 be rescinded.

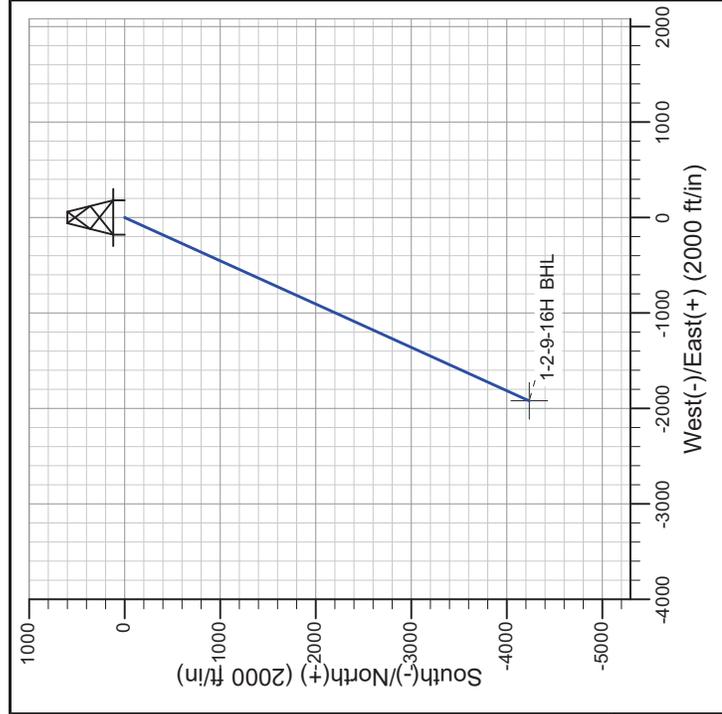
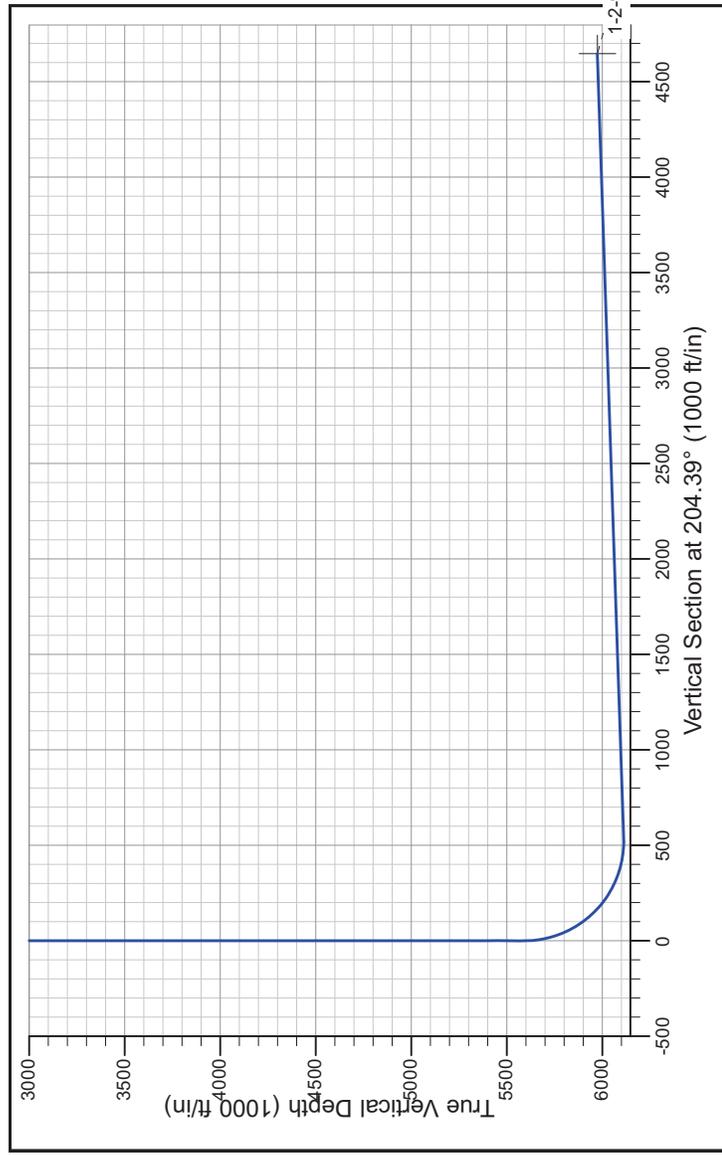
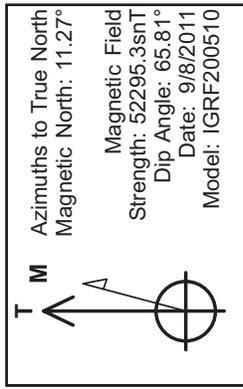
bcc: File - Greater Monument Butte Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:9-19-11



Newfield Production Company

Project: Uinta Basin
Site: GMBU 1-2-9-16H
Well: GMBU 1-2-9-16H
Wellbore #1
Design: Design #1



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0
2	5591.2	0.00	0.00	5591.2	0.0	0.0	0.00	0.00	0.0	0.0
3	6426.8	91.92	204.39	6111.8	-490.3	-222.3	11.00	204.39	538.3	1-2-9-16H BHL
4	10538.4	91.92	204.39	5974.0	-4232.9	-1919.1	0.00	0.00	4647.6	1-2-9-16H BHL

PROJECT DETAILS: Uinta Basin

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