

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER GMBU 1-16-9-16H								
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-16532			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		806 FNL 652 FEL		NENE		16		9.0 S		16.0 E		S		
Top of Uppermost Producing Zone		806 FNL 652 FEL		NENE		16		9.0 S		16.0 E		S		
At Total Depth		100 FSL 2300 FEL		SWSE		16		9.0 S		16.0 E		S		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 100			23. NUMBER OF ACRES IN DRILLING UNIT 640								
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1320			26. PROPOSED DEPTH MD: 10415 TVD: 5812								
27. ELEVATION - GROUND LEVEL 5774			28. BOND NUMBER B001834			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-7478								
Hole, Casing, and Cement Information														
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight				
Surf	12.25	8.625	0 - 500	24.0	J-55 ST&C	8.3	Class G	203	1.17	15.8				
Prod	7.875	5.5	0 - 6292	20.0	N-80 LT&C	9.0	Premium Lite High Strength	205	3.53	11.0				
							50/50 Poz	294	1.24	14.3				
P2	7.875	4.5	6292 - 10415	11.6	P-110 LT&C	9.0	No Used	0	0.0	0.0				
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 09/20/2011				EMAIL mcrozier@newfield.com						
API NUMBER ASSIGNED 43013509830000				APPROVAL				 Permit Manager						

Newfield Production Company
GMBU 1-16-9-16H
NE/NE Section 16, T9S, R16E
Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta	surface		
Green River	1,506'		
Garden Gulch member	3,625'		
TD	5,812'	TVD /	10,415' MD

2. Depth to Oil, Gas, Water, or Minerals

Base of moderately saline	1,068'	(water)
Green River	3,625' - 5,812'	(oil)

3. Pressure Control

Section BOP Description

Surface No control

Production 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 2M BOP system will consist of 2 ram preventers (double or two singles), and a rotating head. A choke manifold rated to at least 2,000 psi will be used.

4. Casing

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Surface	0'	500'	24	J-55	STC	8.33	8.33	12	2,950	1,370	244,000
8 5/8"									10.52	8.61	20.33
Production	0'	5,974'	20	N-80	LTC	8.33	9.0	--	9,190	8,830	428,000
5 1/2"		6,292'							4.62	4.02	3.58
Production	6,292'	5,812'	11.6	P-110	LTC	8.33	9.0	--	10,690	7,560	279,000
4 1/2"		10,415'							5.52	3.53	5.23

A tapered string of production casing will be run. A 7-7/8" hole will be drilled for the 5-1/2" casing in the vertical and curve sections of the well. A 6-1/8" hole will be drilled for the 4-1/2" casing in the lateral section of the well.

Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)

Production casing MASP = (reservoir pressure) - (gas gradient)

All collapse calculations assume fully evacuated casing with a gas gradient
 All tension calculations assume air weight of casing
 Gas gradient = 0.1 psi/ft

All casing shall be new.

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

5. Cement

Job	Hole Size	Fill	Slurry Description	ft ³	OH excess	Weight (ppg)	Yield (ft ³ /sk)
				sacks			
Surface	12 1/4	500'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	237	15%	15.8	1.17
				203			
Production Lead	7 7/8	3,625'	Premium Lite II w/ 3% KCl + 10% bentonite	722	15%	11.0	3.53
				205			
Production Tail	7 7/8	1,828'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	364	15%	14.3	1.24
				294			

The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

A system of open hole packers will be used to isolate frac stages in the lateral. Open hole packers will be used to isolate the vertical portion of the well from the lateral. A port collar will be used to cement the vertical portion of the well.

Actual cement volumes for the production casing string will be calculated from an open hole caliper log, plus 15% excess.

6. Type and Characteristics of Proposed Circulating Medium

<u>Interval</u>	<u>Description</u>
Surface - 500'	An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.
500' - TD	A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite. Anticipated maximum mud weight is 9.0 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run from KOP to the base of the surface casing. A compensated neutron/formation density log will be run from KOP to

the top of the Garden Gulch formation. A cement bond log will be run from KOP to the cement top behind the production casing.

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.43 psi/ft gradient.

$$5,974' \times 0.43 \text{ psi/ft} = 2588 \text{ psi}$$

No abnormal temperature is expected. No H₂S is expected.

9. Other Aspects

The well will be drilled vertically to a kick-off point of 5,453' .

Directional tools will then be used to build to 92.25 degrees inclination.

The hole size in the lateral will be reduced to 6-1/8". The lateral will be drilled to the bottomhole location shown on the plat.

A tapered string of production casing will be run in the well, with 5-1/2" casing in the vertical and curve portions and 4-1/2" casing in the lateral portion.

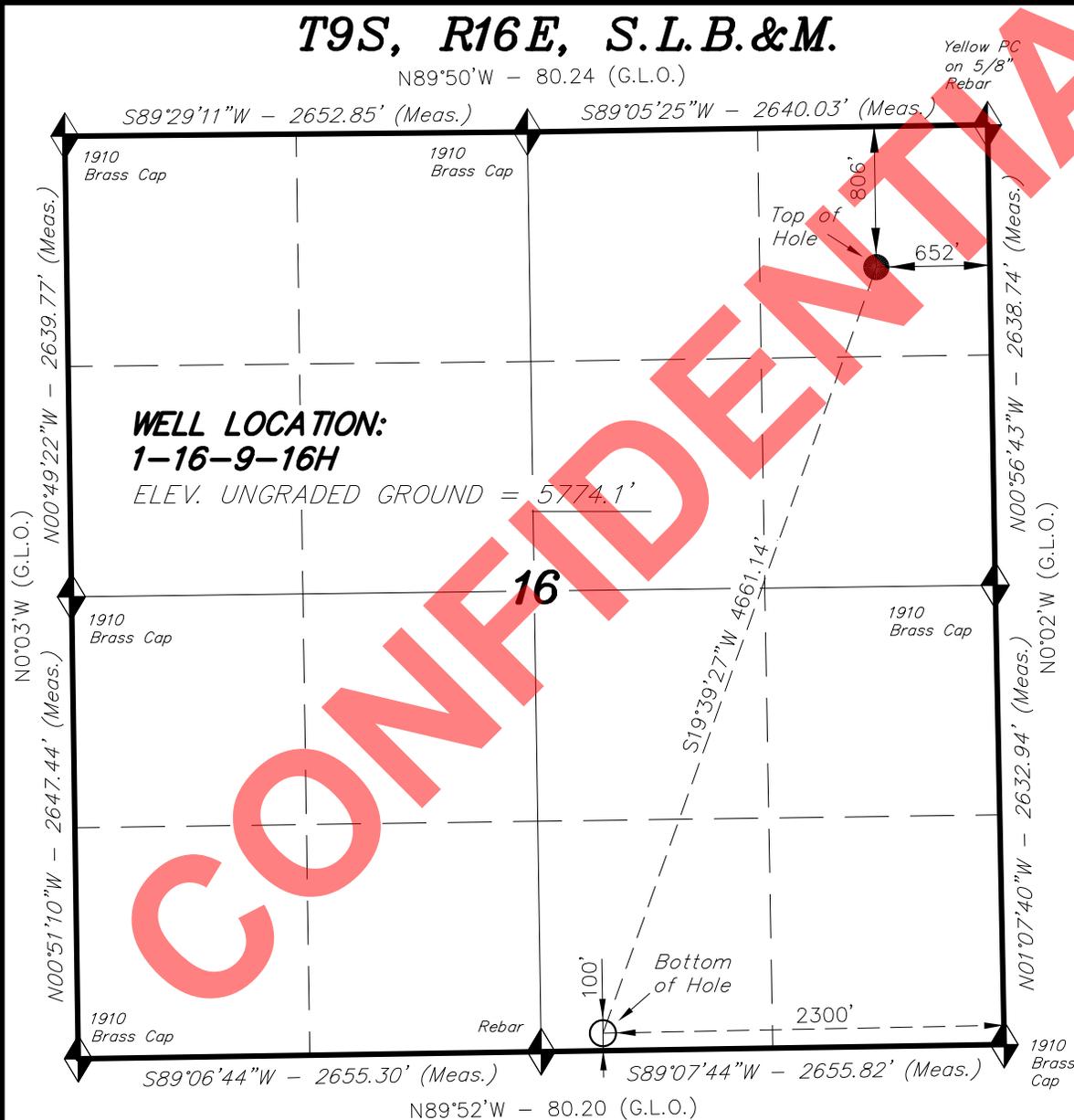
A system of open hole packers will be used to provide multi-stage frac isolation in the lateral.

A set of open hole packers will be placed at kick-off point to isolate the lateral. A port cementing collar will placed above the packers and will be used to cement the vertical portion of the well bore.

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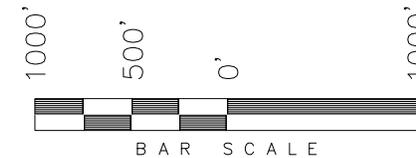
T9S, R16E, S.L.B.&M.

NEWFIELD EXPLORATION COMPANY



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

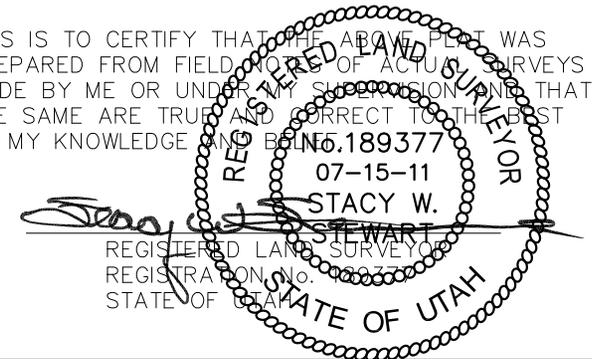
TARGET BOTTOM HOLE, 1-16-9-16H, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 16, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



NOTES:

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.

THIS IS TO CERTIFY THAT THE ABOVE PLAN WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



◆ = SECTION CORNERS LOCATED

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

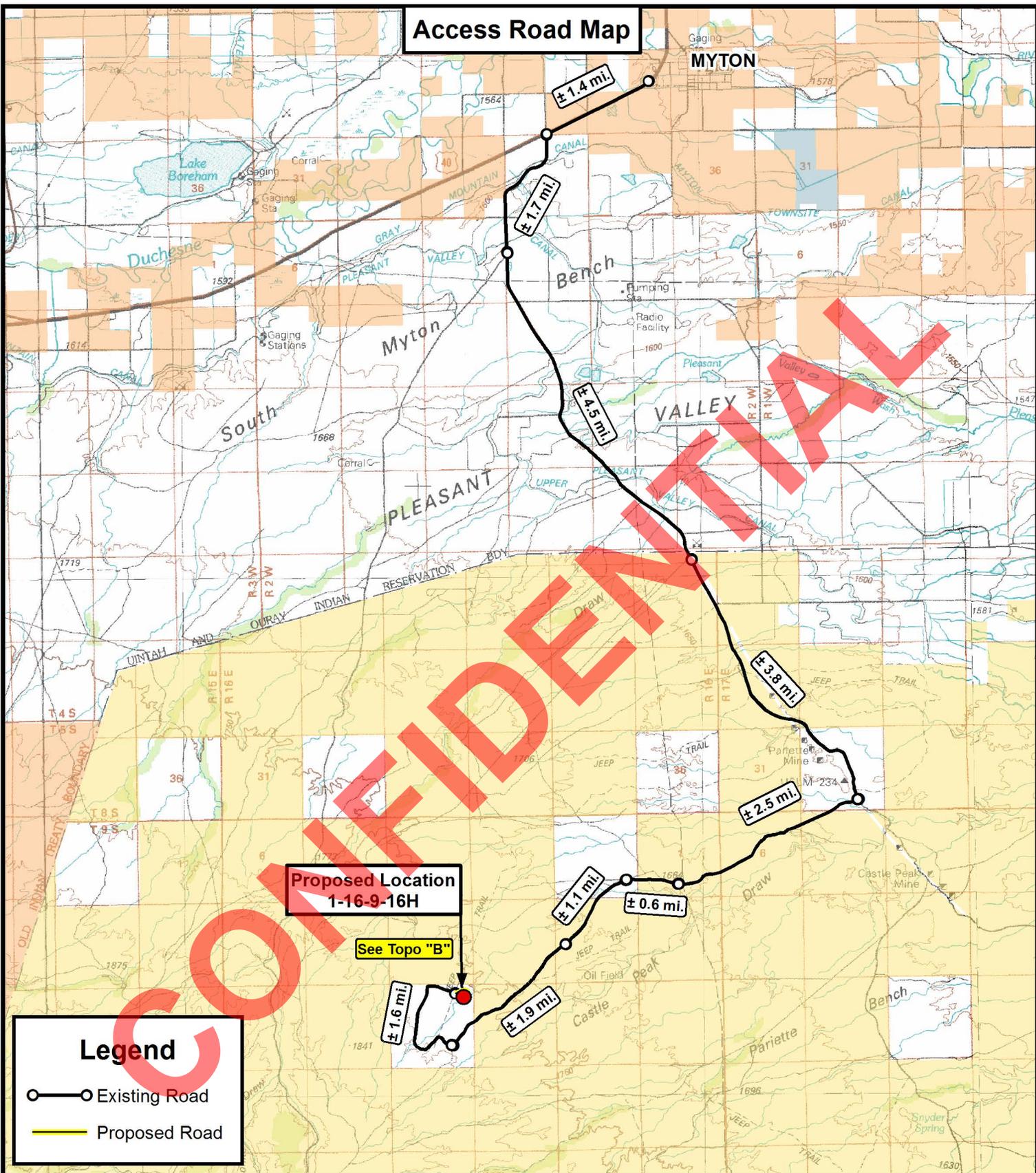
1-16-9-16H
 (Surface Location) NAD 83
 LATITUDE = 40° 02' 09.13"
 LONGITUDE = 110° 07' 01.84"

TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
 (435) 781-2501

DATE SURVEYED: 04-25-11	SURVEYED BY: S.V.	VERSION:
DATE DRAWN: 06-29-11	DRAWN BY: F.T.M.	V2
REVISED: 07-14-11 F.T.M.	SCALE: 1" = 1000'	

Access Road Map



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

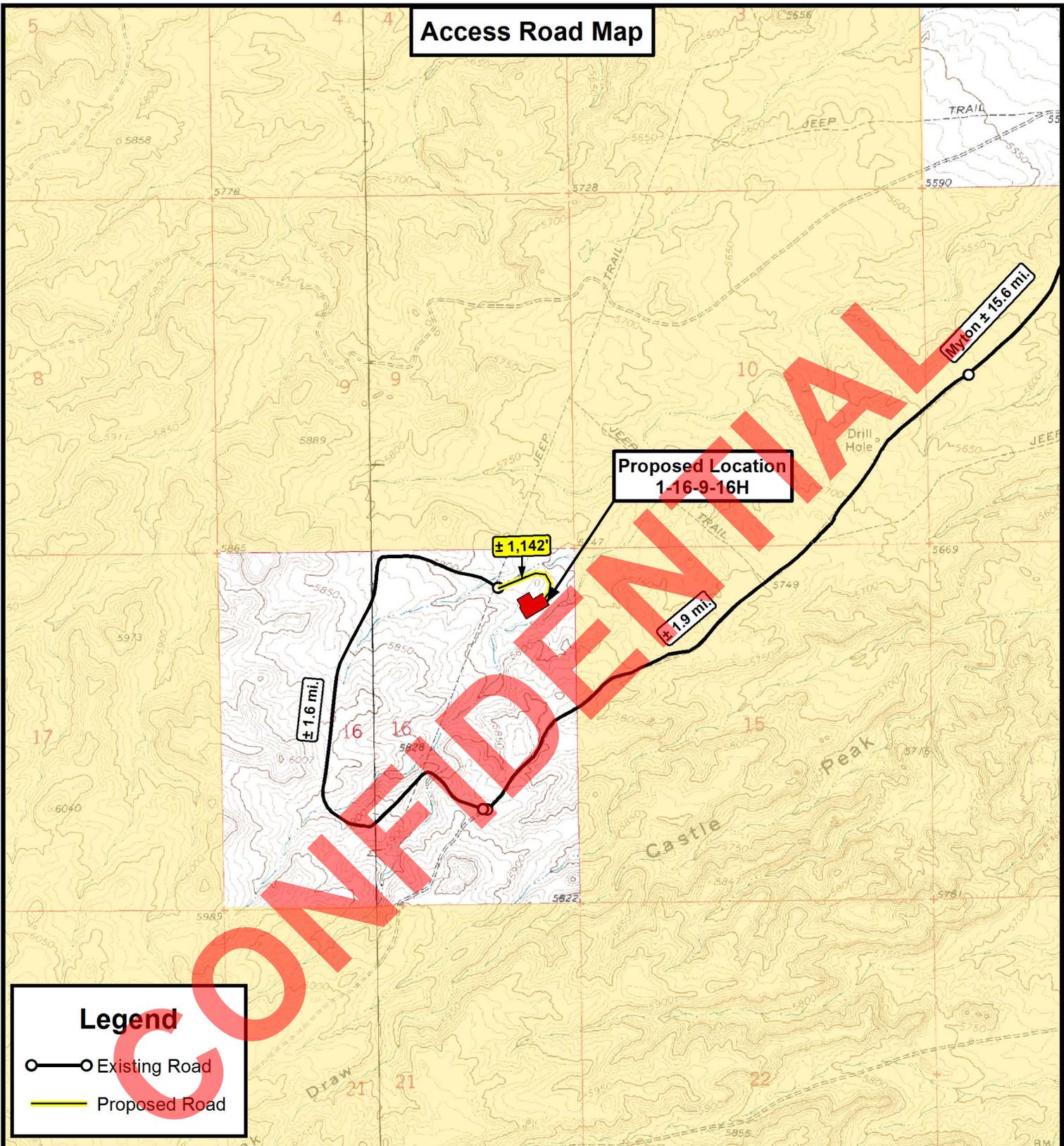
1-16-9-16H
SEC. 16, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	J.A.S.	REVISED:	07-18-11 (DCR)	VERSION:
DATE:	06-30-2011			V2
SCALE:	1:100,000			

TOPOGRAPHIC MAP

SHEET
A

Access Road Map



Legend

- Existing Road
- Proposed Road

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



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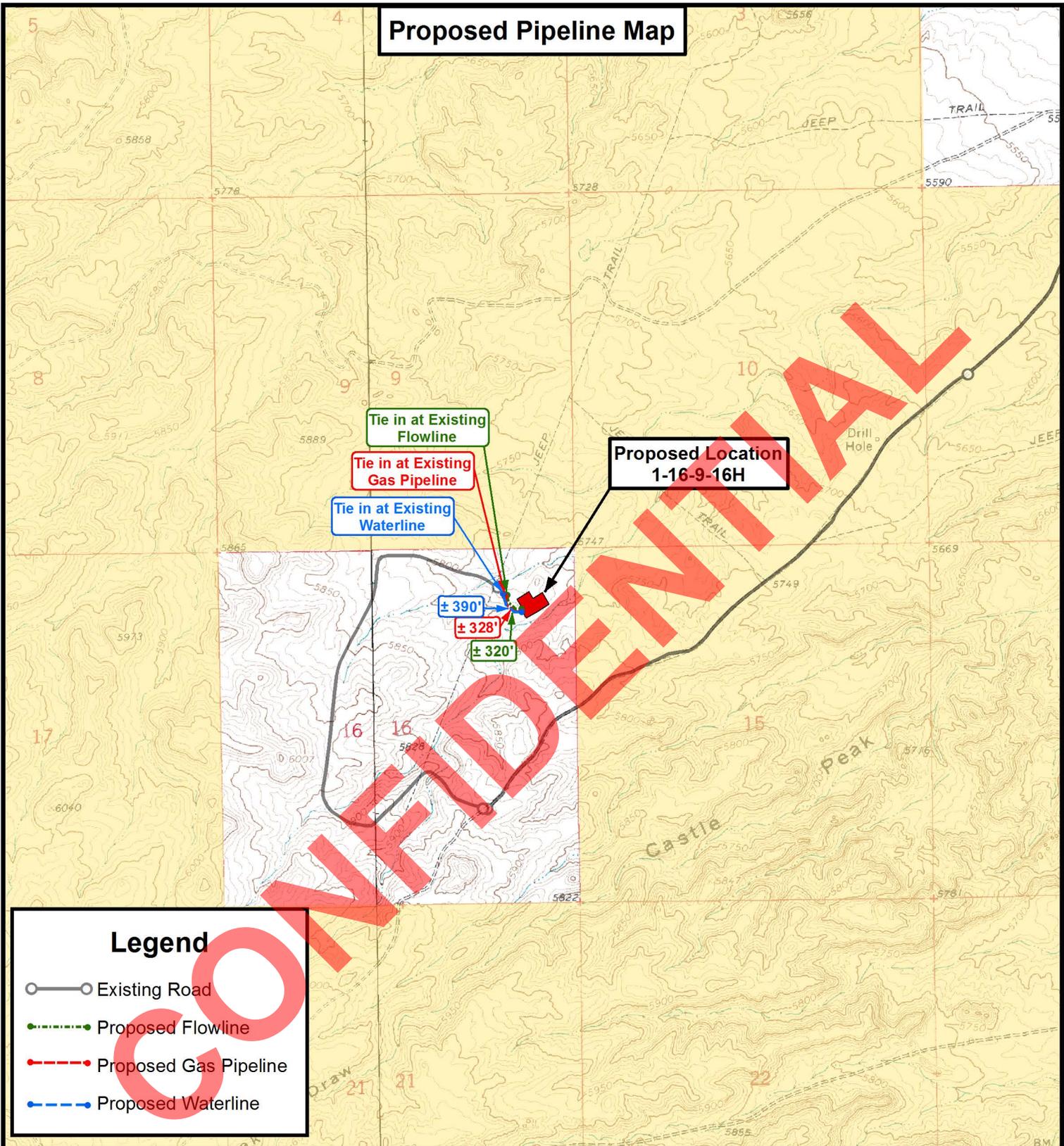
NEWFIELD EXPLORATION COMPANY

1-16-9-16H
SEC. 16, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	J.A.S.	REVISED:	07-18-11 (DCR)	VERSION:
DATE:	06-30-2011			V2
SCALE:	1" = 2,000'			

TOPOGRAPHIC MAP	SHEET B
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Proposed Pipeline Map



Legend

- Existing Road
- Proposed Flowline
- Proposed Gas Pipeline
- Proposed Waterline

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1-16-9-16H
SEC. 16, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

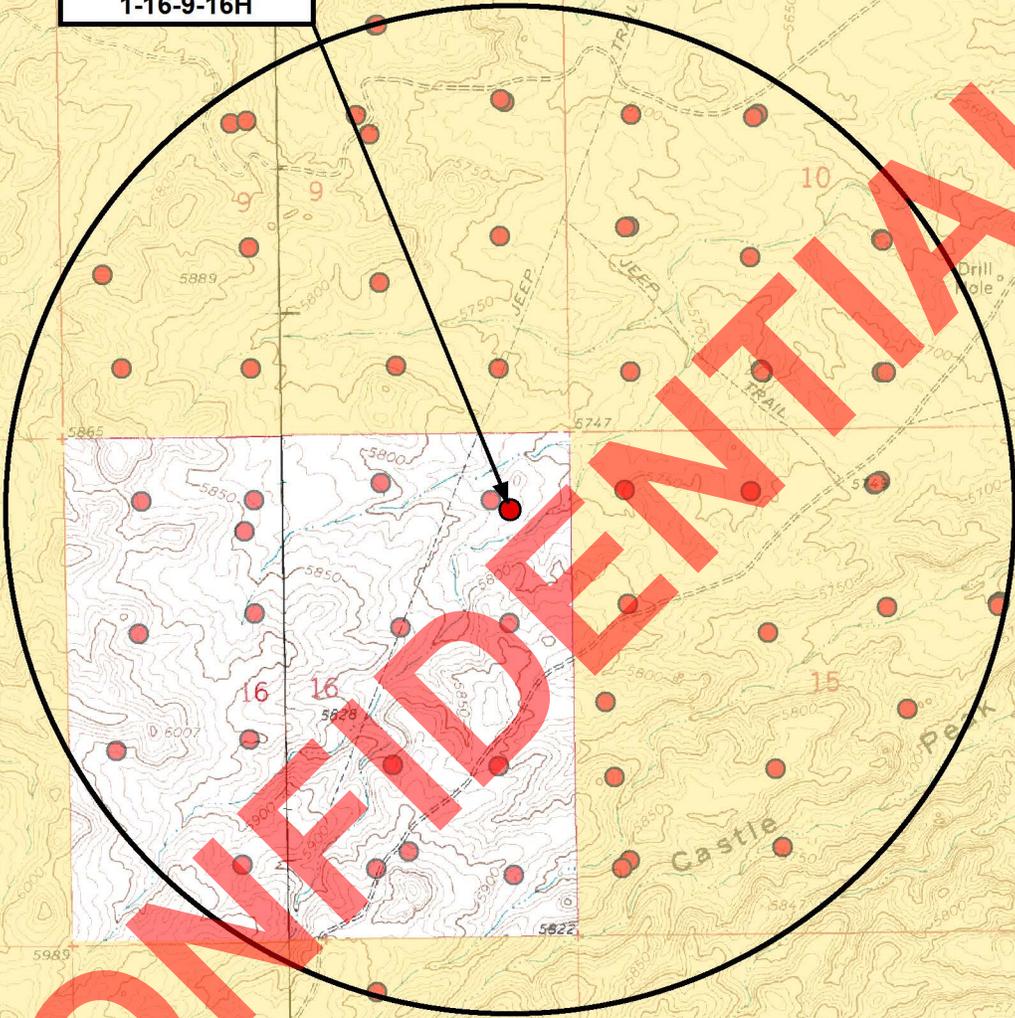
DRAWN BY:	J.A.S.	REVISED:	07-18-11 (DCR)	VERSION:	
DATE:	06-30-2011			V2	
SCALE:	1" = 2,000'				

TOPOGRAPHIC MAP

SHEET
C

Exhibit "B" Map

Proposed Location
1-16-9-16H



Legend

- Proposed Location
- 1 Mile Radius



180 NORTH VERNAL AVE. VERNAL, UTAH 84078

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F: (435) 781-2518



NEWFIELD EXPLORATION COMPANY

1-16-9-16H
SEC. 16, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	J.A.S.	REVISED:	07-18-11 (DCR)	VERSION:	
DATE:	06-30-2011			V2	
SCALE:	1" = 2,000'				

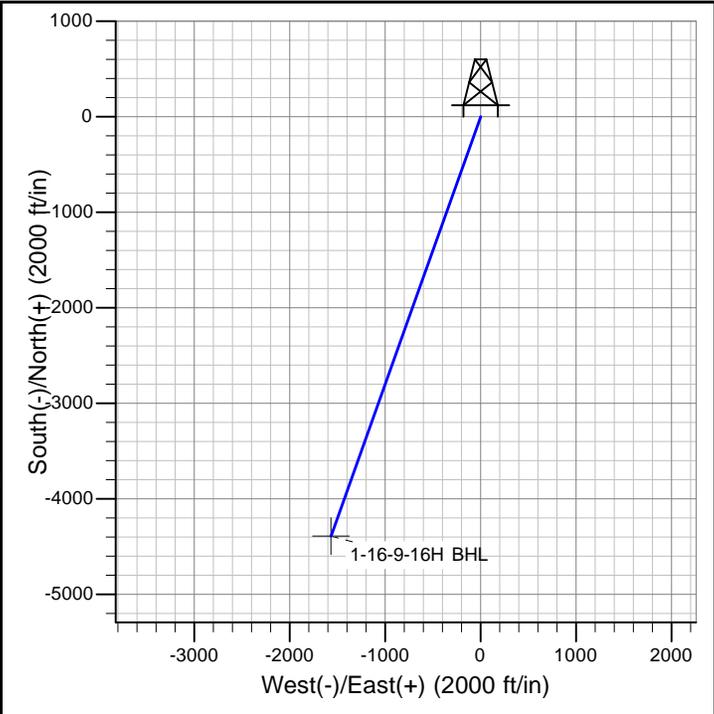
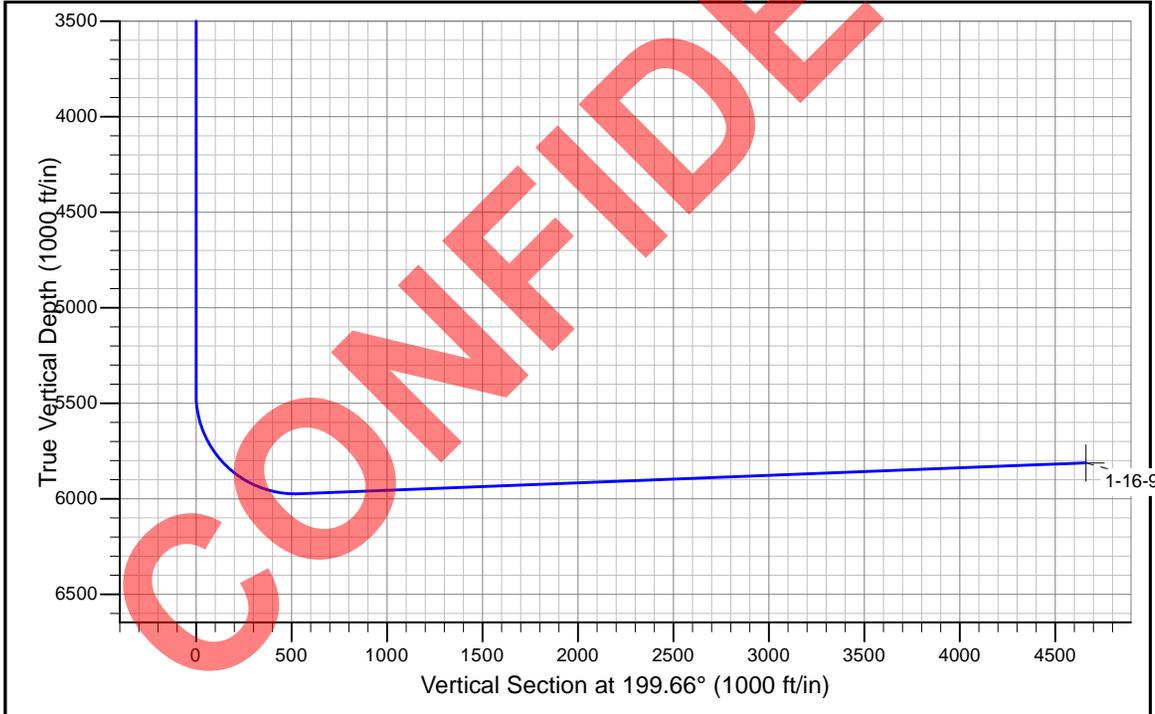
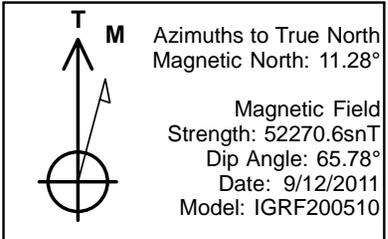
TOPOGRAPHIC MAP

SHEET
D



Newfield Production Company

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



SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	5453.4	0.00	0.00	5453.4	0.0	0.0	0.00	0.00	0.0		
3	6292.0	92.25	199.66	5973.9	-509.8	-182.1	11.00	199.66	541.3		
4	10415.0	92.25	199.66	5812.0	-4389.5	-1568.0	0.00	0.00	4661.1	1-16-9-16H 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

Newfield Production Company

Uinta Basin

GMBU 1-16-9-16H

GMBU 1-16-9-16H

Wellbore #1

Plan: Design #1

Standard Planning Report

12 September, 2011

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Newfield Exploration
Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site GMBU 1-16-9-16H
Company:	Newfield Production Company	TVD Reference:	RKB @ 5786.0ft
Project:	Uinta Basin	MD Reference:	RKB @ 5786.0ft
Site:	GMBU 1-16-9-16H	North Reference:	True
Well:	GMBU 1-16-9-16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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

Site	GMBU 1-16-9-16H				
Site Position:		Northing:	2,189,925.95 m	Latitude:	40° 2' 9.130 N
From:	Lat/Long	Easting:	618,006.80 m	Longitude:	110° 7' 1.840 W
Position Uncertainty:	0.0 ft	Slot Radius:	0.000 in	Grid Convergence:	0.89 °

Well	GMBU 1-16-9-16H					
Well Position	+N/-S	0.0 ft	Northing:	2,189,925.95 m	Latitude:	40° 2' 9.130 N
	+E/-W	0.0 ft	Easting:	618,006.80 m	Longitude:	110° 7' 1.840 W
Position Uncertainty		0.0 ft	Wellhead Elevation:		Ground Level:	5,774.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	9/12/2011	(°)	(°)	(nT)
			11.28	65.78	52,271

Design	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	199.66	

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	
5,453.4	0.00	0.00	5,453.4	0.0	0.0	0.00	0.00	0.00	0.00	
6,292.0	92.25	199.66	5,973.9	-509.8	-182.1	11.00	11.00	0.00	199.66	
10,415.0	92.25	199.66	5,812.0	-4,389.5	-1,568.0	0.00	0.00	0.00	0.00	1-16-9-16H BHL

Newfield Exploration

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site GMBU 1-16-9-16H
Company:	Newfield Production Company	TVD Reference:	RKB @ 5786.0ft
Project:	Uinta Basin	MD Reference:	RKB @ 5786.0ft
Site:	GMBU 1-16-9-16H	North Reference:	True
Well:	GMBU 1-16-9-16H	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 5000.1 Single User Db	Local Co-ordinate Reference:	Site GMBU 1-16-9-16H
Company:	Newfield Production Company	TVD Reference:	RKB @ 5786.0ft
Project:	Uinta Basin	MD Reference:	RKB @ 5786.0ft
Site:	GMBU 1-16-9-16H	North Reference:	True
Well:	GMBU 1-16-9-16H	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
5,453.4	0.00	0.00	5,453.4	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	5.13	199.66	5,499.9	-2.0	-0.7	2.1	11.00	11.00	0.00
5,600.0	16.13	199.66	5,598.1	-19.3	-6.9	20.5	11.00	11.00	0.00
5,700.0	27.13	199.66	5,690.9	-54.0	-19.3	57.3	11.00	11.00	0.00
5,800.0	38.13	199.66	5,775.0	-104.6	-37.4	111.1	11.00	11.00	0.00
5,900.0	49.13	199.66	5,847.3	-169.5	-60.6	180.0	11.00	11.00	0.00
6,000.0	60.13	199.66	5,905.1	-246.2	-87.9	261.4	11.00	11.00	0.00
6,100.0	71.13	199.66	5,946.3	-331.8	-118.5	352.4	11.00	11.00	0.00
6,200.0	82.13	199.66	5,969.4	-423.3	-151.2	449.5	11.00	11.00	0.00
6,292.0	92.25	199.66	5,973.9	-509.8	-182.1	541.3	11.00	11.00	0.00
6,300.0	92.25	199.66	5,973.6	-517.3	-184.8	549.3	0.00	0.00	0.00
6,400.0	92.25	199.66	5,969.6	-611.4	-218.4	649.2	0.00	0.00	0.00
6,500.0	92.25	199.66	5,965.7	-705.5	-252.0	749.1	0.00	0.00	0.00
6,600.0	92.25	199.66	5,961.8	-799.6	-285.6	849.0	0.00	0.00	0.00
6,700.0	92.25	199.66	5,957.9	-893.7	-319.2	949.0	0.00	0.00	0.00
6,800.0	92.25	199.66	5,953.9	-987.8	-352.8	1,048.9	0.00	0.00	0.00
6,900.0	92.25	199.66	5,950.0	-1,081.9	-386.5	1,148.8	0.00	0.00	0.00
7,000.0	92.25	199.66	5,946.1	-1,176.0	-420.1	1,248.7	0.00	0.00	0.00
7,100.0	92.25	199.66	5,942.1	-1,270.1	-453.7	1,348.7	0.00	0.00	0.00
7,200.0	92.25	199.66	5,938.2	-1,364.2	-487.3	1,448.6	0.00	0.00	0.00
7,300.0	92.25	199.66	5,934.3	-1,458.3	-520.9	1,548.5	0.00	0.00	0.00
7,400.0	92.25	199.66	5,930.4	-1,552.4	-554.5	1,648.4	0.00	0.00	0.00
7,500.0	92.25	199.66	5,926.4	-1,646.5	-588.1	1,748.4	0.00	0.00	0.00
7,600.0	92.25	199.66	5,922.5	-1,740.6	-621.8	1,848.3	0.00	0.00	0.00
7,700.0	92.25	199.66	5,918.6	-1,834.7	-655.4	1,948.2	0.00	0.00	0.00
7,800.0	92.25	199.66	5,914.7	-1,928.8	-689.0	2,048.1	0.00	0.00	0.00
7,900.0	92.25	199.66	5,910.7	-2,022.9	-722.6	2,148.0	0.00	0.00	0.00
8,000.0	92.25	199.66	5,906.8	-2,117.0	-756.2	2,248.0	0.00	0.00	0.00
8,100.0	92.25	199.66	5,902.9	-2,211.1	-789.8	2,347.9	0.00	0.00	0.00
8,200.0	92.25	199.66	5,899.0	-2,305.2	-823.4	2,447.8	0.00	0.00	0.00
8,300.0	92.25	199.66	5,895.0	-2,399.3	-857.1	2,547.7	0.00	0.00	0.00
8,400.0	92.25	199.66	5,891.1	-2,493.4	-890.7	2,647.7	0.00	0.00	0.00
8,500.0	92.25	199.66	5,887.2	-2,587.5	-924.3	2,747.6	0.00	0.00	0.00
8,600.0	92.25	199.66	5,883.3	-2,681.6	-957.9	2,847.5	0.00	0.00	0.00
8,700.0	92.25	199.66	5,879.3	-2,775.7	-991.5	2,947.4	0.00	0.00	0.00
8,800.0	92.25	199.66	5,875.4	-2,869.8	-1,025.1	3,047.4	0.00	0.00	0.00
8,900.0	92.25	199.66	5,871.5	-2,963.9	-1,058.7	3,147.3	0.00	0.00	0.00
9,000.0	92.25	199.66	5,867.6	-3,058.0	-1,092.3	3,247.2	0.00	0.00	0.00
9,100.0	92.25	199.66	5,863.6	-3,152.1	-1,126.0	3,347.1	0.00	0.00	0.00
9,200.0	92.25	199.66	5,859.7	-3,246.2	-1,159.6	3,447.0	0.00	0.00	0.00
9,300.0	92.25	199.66	5,855.8	-3,340.2	-1,193.2	3,547.0	0.00	0.00	0.00
9,400.0	92.25	199.66	5,851.8	-3,434.3	-1,226.8	3,646.9	0.00	0.00	0.00
9,500.0	92.25	199.66	5,847.9	-3,528.4	-1,260.4	3,746.8	0.00	0.00	0.00
9,600.0	92.25	199.66	5,844.0	-3,622.5	-1,294.0	3,846.7	0.00	0.00	0.00
9,700.0	92.25	199.66	5,840.1	-3,716.6	-1,327.6	3,946.7	0.00	0.00	0.00
9,800.0	92.25	199.66	5,836.1	-3,810.7	-1,361.3	4,046.6	0.00	0.00	0.00
9,900.0	92.25	199.66	5,832.2	-3,904.8	-1,394.9	4,146.5	0.00	0.00	0.00
10,000.0	92.25	199.66	5,828.3	-3,998.9	-1,428.5	4,246.4	0.00	0.00	0.00
10,100.0	92.25	199.66	5,824.4	-4,093.0	-1,462.1	4,346.3	0.00	0.00	0.00
10,200.0	92.25	199.66	5,820.4	-4,187.1	-1,495.7	4,446.3	0.00	0.00	0.00
10,300.0	92.25	199.66	5,816.5	-4,281.2	-1,529.3	4,546.2	0.00	0.00	0.00
10,400.0	92.25	199.66	5,812.6	-4,375.3	-1,562.9	4,646.1	0.00	0.00	0.00
10,415.0	92.25	199.66	5,812.0	-4,389.5	-1,568.0	4,661.1	0.00	0.00	0.00

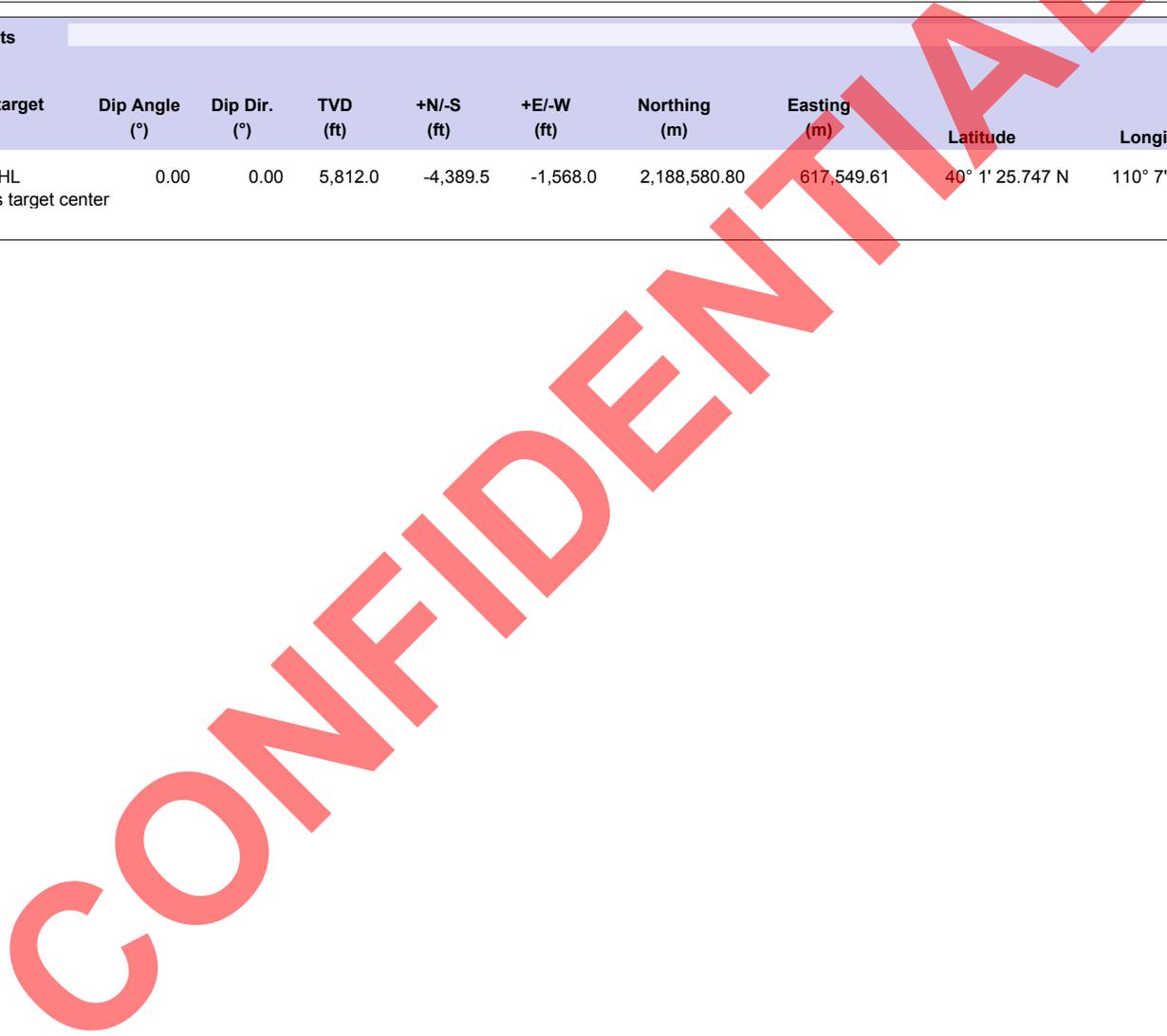
Newfield Exploration

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site GMBU 1-16-9-16H
Company:	Newfield Production Company	TVD Reference:	RKB @ 5786.0ft
Project:	Uinta Basin	MD Reference:	RKB @ 5786.0ft
Site:	GMBU 1-16-9-16H	North Reference:	True
Well:	GMBU 1-16-9-16H	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)

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude
1-16-9-16H BHL - plan hits target center - Point	0.00	0.00	5,812.0	-4,389.5	-1,568.0	2,188,580.80	617,549.61	40° 1' 25.747 N	110° 7' 21.997 W



NEWFIELD PRODUCTION COMPANY
GMBU 1-16-9-16H
SHL: NE/NE SECTION 16, T9S, R16E
BHL: SW/SE SECTION 16, 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 GMBU 1-16-9-16H located in the NE¼ NE¼ Section 16, 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 its junction with an existing road to the southwest; proceed southwesterly - 6.1 miles ± to its junction with an existing road to the northwest; proceed in a northwesterly and then easterly direction - 1.6 miles ± to its junction with the beginning of the proposed access road to the northeast; proceed along the proposed access road - 1,142' ± 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 1,142' 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: 47-1817 (A30414DVA, 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:**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. State of Utah Antiquities Project Permit #U-07-MQ-1297s 10/31/07. Paleontological Resource Survey prepared by, Wade E. Miller, 9/6/11.

Newfield Production Company requests 1,142' of planned access road be granted. Refer to **Topographic Map "B"**. Newfield Production Company requests 328' of surface gas line be granted. Newfield Production Company requests 390' of buried water line 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 10" steel water injection line, a buried 3" poly water return line, and a and a 14" surface flow line. The planned access road will consist of a 20' permanent running surface (10' 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.

Surface Flow Line

Newfield requests 320' of surface flow line be granted. The Surface Flow Line will consist of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. For all new wells, Newfield. 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: No clearing or grading of the ROW will be required. The centerline of the proposed route will be staked prior to installation. Flow lines shall be placed as close to existing roads as possible without interfering with normal road travel or road maintenance activities. Due to the proximity of existing facilities, no temporary use or construction/storage areas are anticipated. If necessary, temporary use or construction/storage areas will be identified on a topographic map included in the approved permit.

Installation: The proposed flow lines will be installed 4-6" above the ground. For portions along existing two-track and primary access roads, lengths of pipe will be strung out in the borrow ditch, welded together, and rolled or dragged into place with heavy equipment. For pipelines that are installed cross-country (not along existing or proposed roads), travel along the lines will be infrequent and for maintenance needs only. No installation activities will be performed during periods when the soil is too wet to adequately support installation equipment. If such equipment creates ruts in excess of three (3) inches deep, the soil will be deemed too wet to adequately support the equipment.

Termination and Final Reclamation: After abandonment of the associated production facilities, the flow lines will be cut and removed, and any incidental surface disturbance reclaimed. Reclamation procedures will follow those outlined in the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

- 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.

Water Disposal

After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw 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, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal 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 GMBU 1-16-9-16H, 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 GMBU 1-16-9-16H 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
Route 3, Box 3630
Myton, UT 84052
Telephone: (435) 646-3721

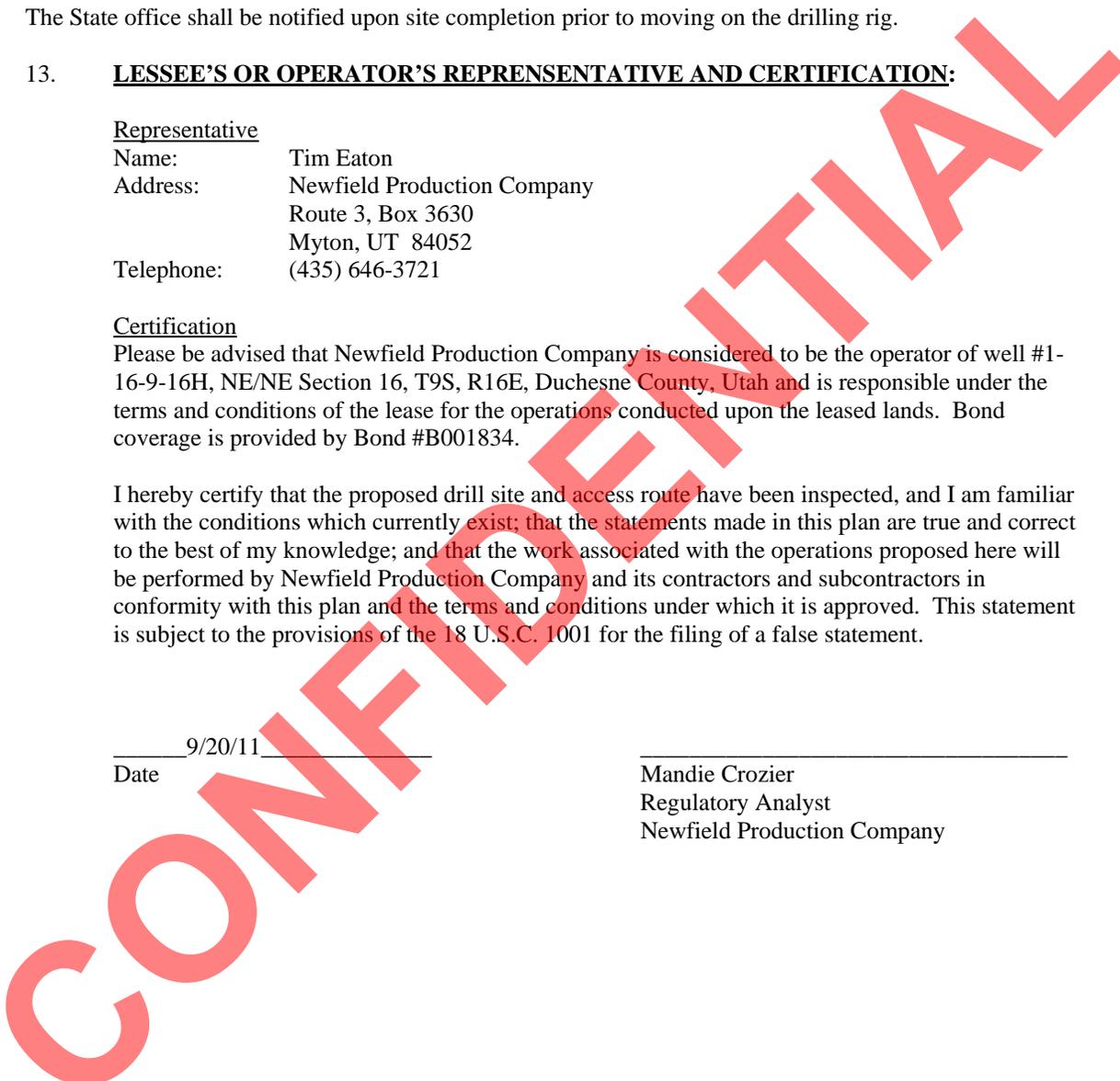
Certification

Please be advised that Newfield Production Company is considered to be the operator of well #1-16-9-16H, NE/NE Section 16, 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.

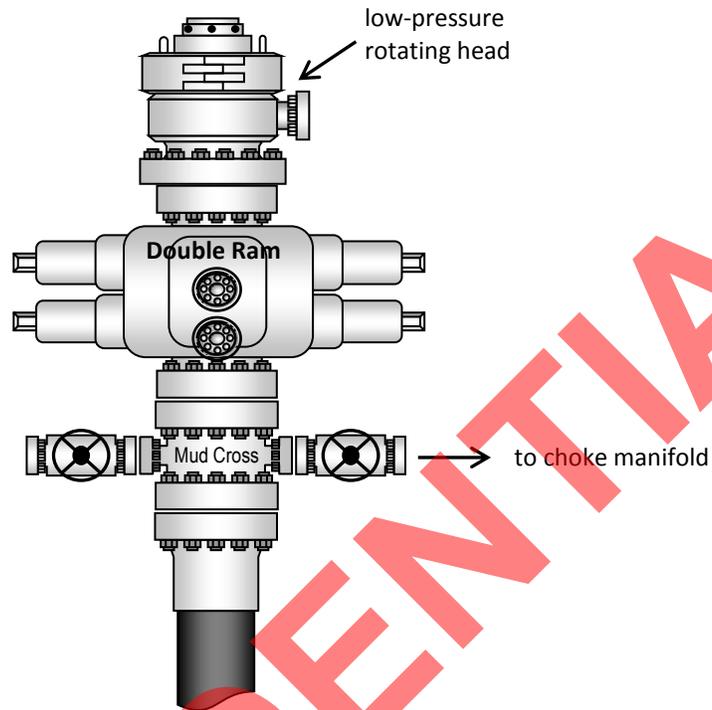
I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will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

9/20/11
Date

Mandie Crozier
Regulatory Analyst
Newfield Production Company



Typical 2M BOP stack configuration



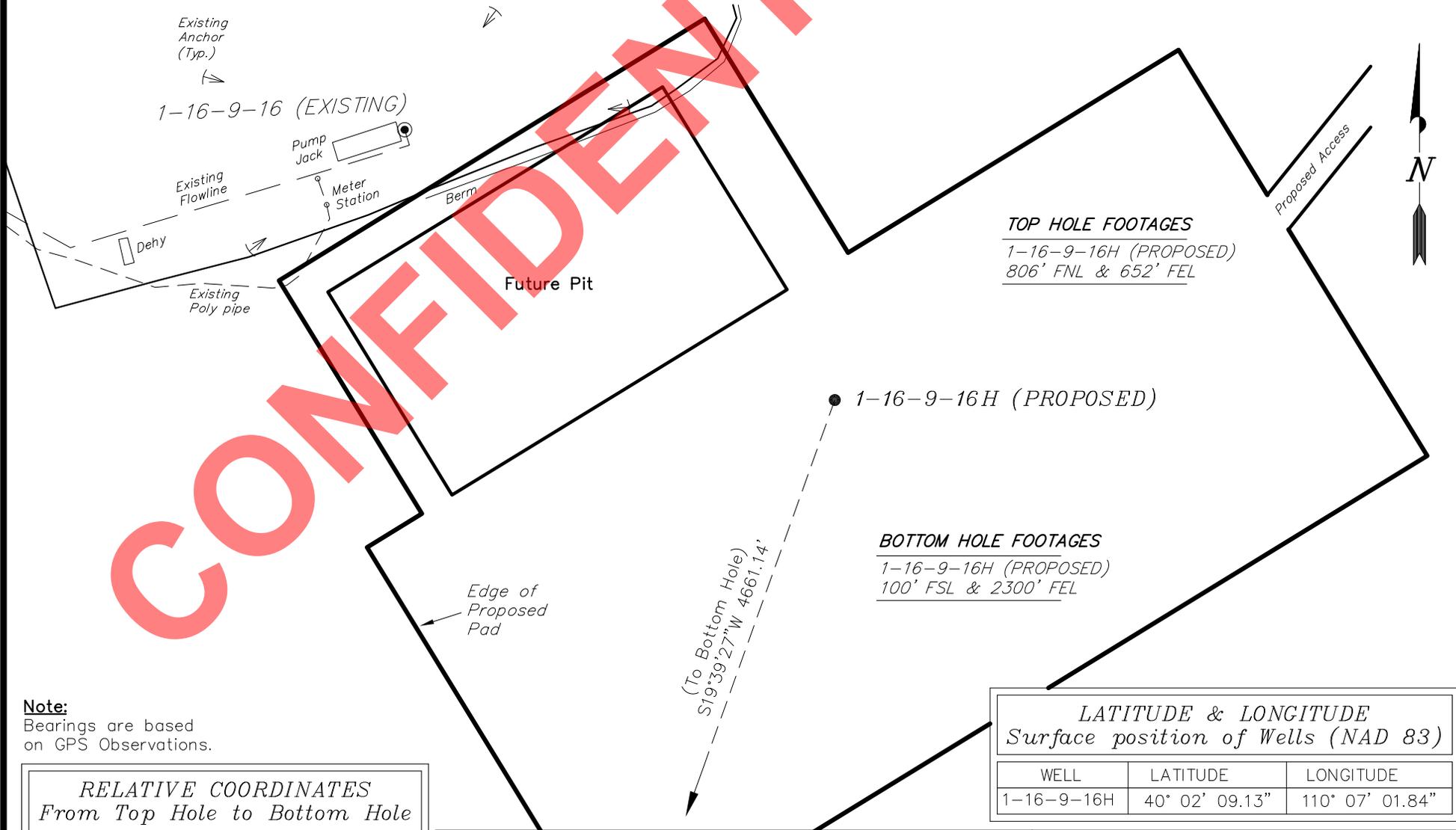
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NEWFIELD EXPLORATION COMPANY

WELL PAD INTERFERENCE PLAT

1-16-9-16H (Proposed Well)

Pad Location: NENE Section 16, T9S, R16E, S.L.B.&M.



RELATIVE COORDINATES
From Top Hole to Bottom Hole

WELL	NORTH	EAST
1-16-9-16H	-4,389'	-1,568'

LATITUDE & LONGITUDE
Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
1-16-9-16H	40° 02' 09.13"	110° 07' 01.84"

SURVEYED BY: S.V.	DATE SURVEYED: 04-25-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 06-29-11	V2
SCALE: 1" = 60'	REVISED: F.T.M. 07-14-11	

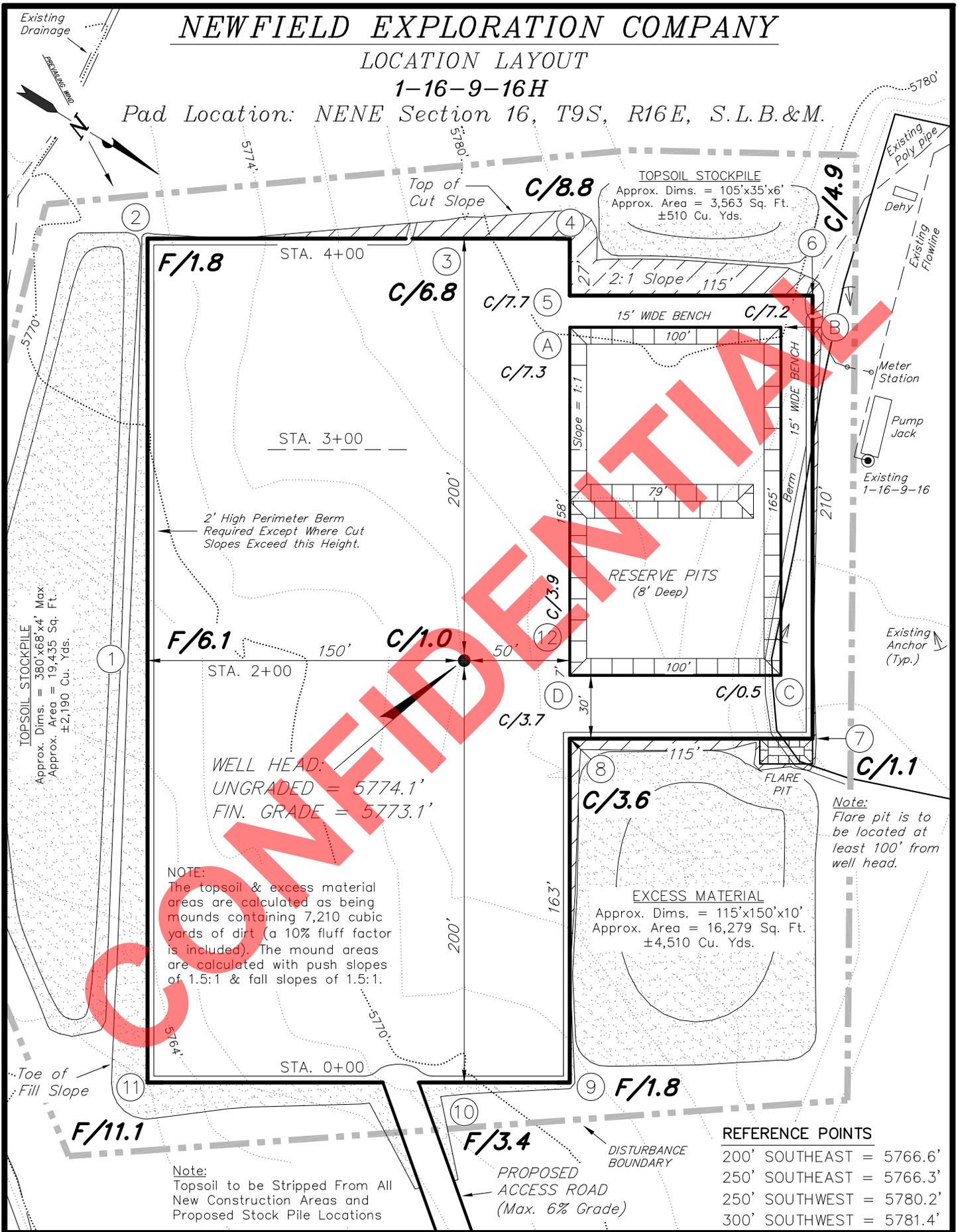
Tri State (435) 781-2501
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD EXPLORATION COMPANY

LOCATION LAYOUT

1-16-9-16H

Pad Location: NENE Section 16, T9S, R16E, S.L.B.&M.



COPYRIGHT

NOTE:
The topsoil & excess material areas are calculated as being mounds containing 7,210 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

Note:
Flare pit is to be located at least 100' from well head.

Note:
Topsoil to be Stripped From All New Construction Areas and Proposed Stock Pile Locations

REFERENCE POINTS	
200' SOUTHEAST	= 5766.6'
250' SOUTHEAST	= 5766.3'
250' SOUTHWEST	= 5780.2'
300' SOUTHWEST	= 5781.4'

SURVEYED BY: S.V.	DATE SURVEYED: 04-25-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 06-29-11	V2
SCALE: 1" = 60'	REVISED: F.T.M. 07-14-11	

(435) 781-2501

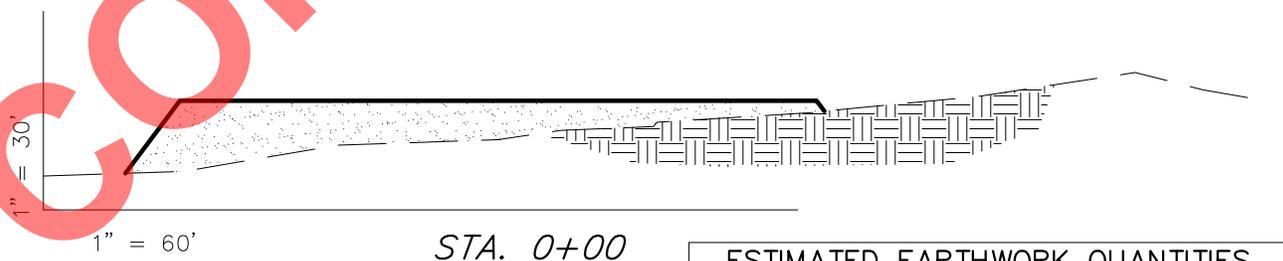
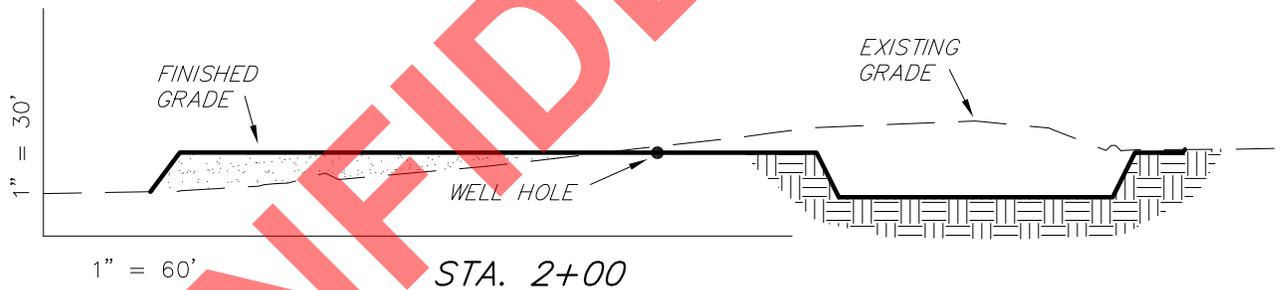
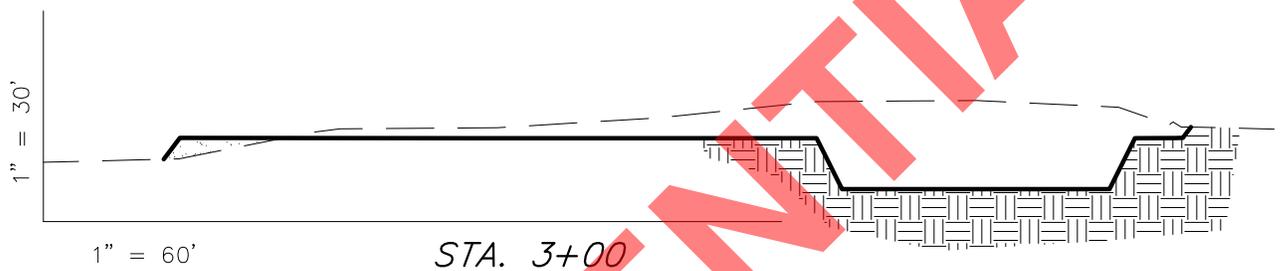
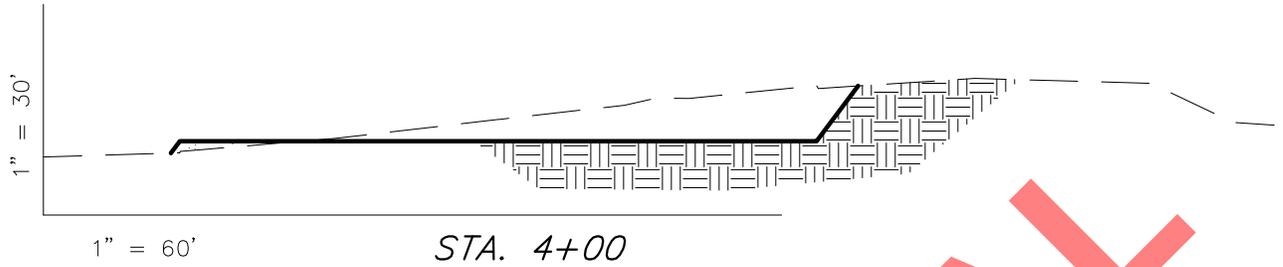
Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS

1-16-9-16H

Pad Location: NENE Section 16, T9S, R16E, S.L.B.&M.



ESTIMATED EARTHWORK QUANTITIES
(No Shrink or swell adjustments have been used)
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	7,010	7,010	Topsoil is not included in Pad Cut	0
PIT	4,100	0		4,100
TOTALS	11,110	7,010	2,460	4,100

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

SURVEYED BY: S.V.	DATE SURVEYED: 04-25-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 06-29-11	V2
SCALE: 1" = 60'	REVISED: F.T.M. 07-14-11	

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

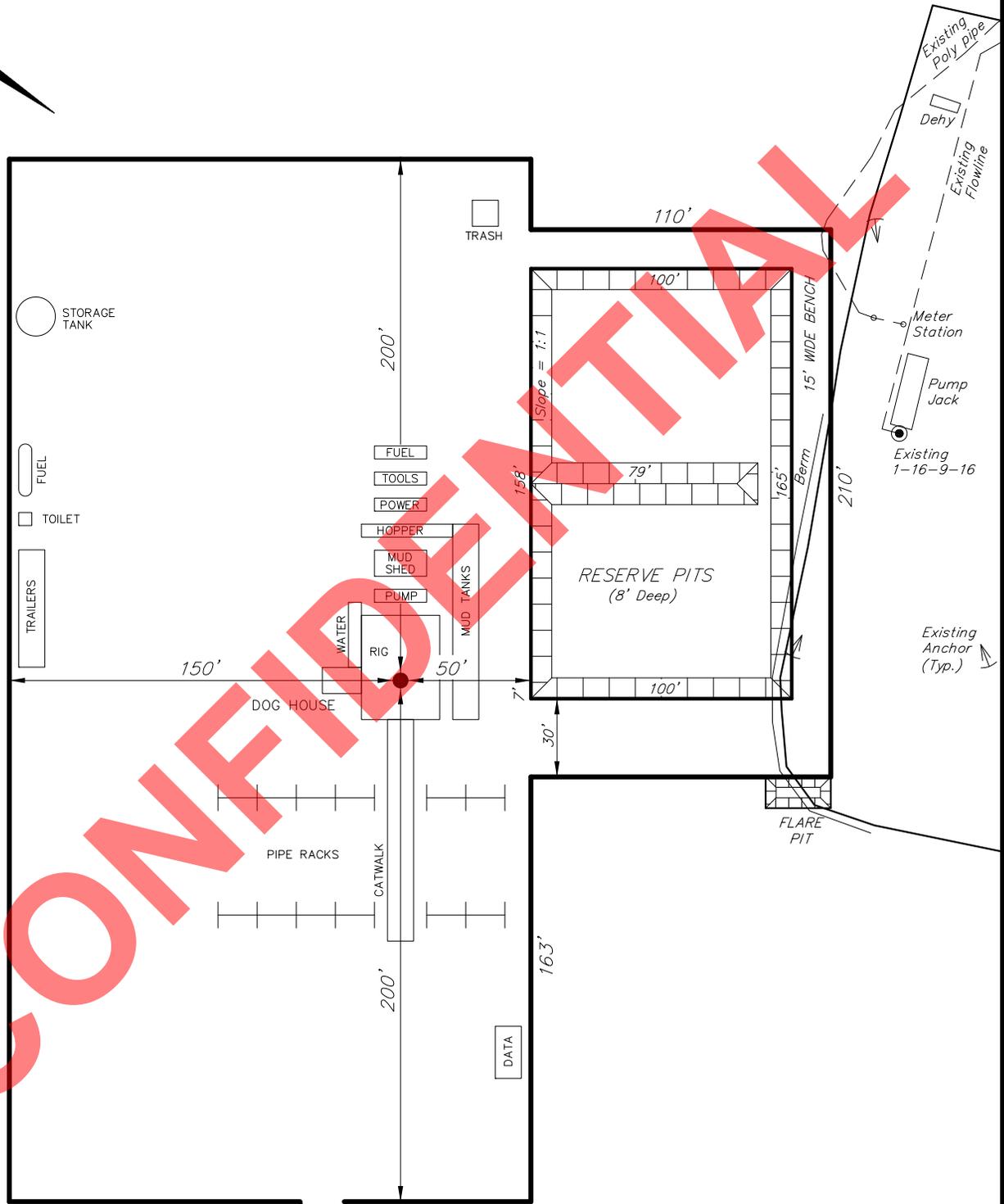
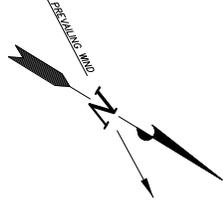
RECEIVED: September 20, 2011

NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT

1-16-9-16H

Pad Location: NENE Section 16, T9S, R16E, S.L.B.&M.

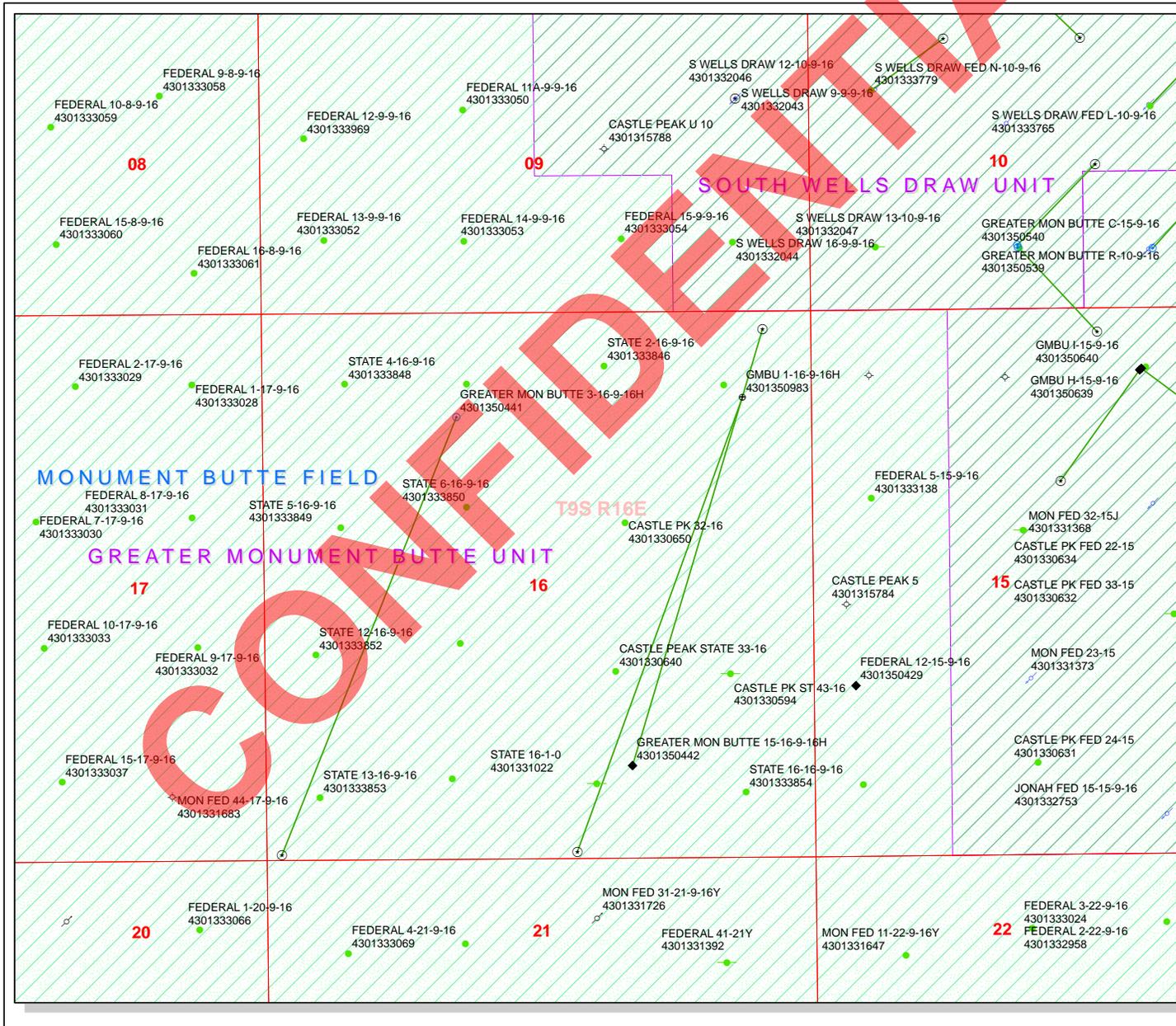


PROPOSED ACCESS ROAD (Max. 6% Grade)

SURVEYED BY: S.V.	DATE SURVEYED: 04-25-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 06-29-11	V2
SCALE: 1" = 60'	REVISED: F.T.M. 07-14-11	

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

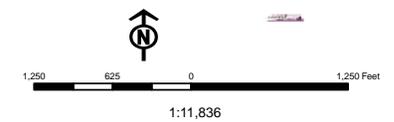
RECEIVED: September 20, 2011



API Number: 4301350983
Well Name: GMBU 1-16-9-16H
Township T09 . Range R1.6 . Section 16
Meridian: SLBM
Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
 Map Produced by Diana Mason

- | | |
|---------------|------------------------------------|
| Units | Wells Query Status |
| ACTIVE | APD - Approved Permit |
| EXPLORATORY | DRL - Spudded (Drilling Commenced) |
| GAS STORAGE | GIW - Gas Injection |
| NF PP OIL | GS - Gas Storage |
| NF SECONDARY | LA - Location Abandoned |
| PI OIL | LOC - New Location |
| PP GAS | OPS - Operation Suspended |
| PP GEOTHERM | PA - Plugged Abandoned |
| PP OIL | PGW - Producing Gas Well |
| SECONDARY | POW - Producing Oil Well |
| TERMINATED | RET - Returned APD |
| Fields | SGW - Shut-in Gas Well |
| Unknown | SOW - Shut-in Oil Well |
| ABANDONED | TA - Temp. Abandoned |
| ACTIVE | TW - Test Well |
| COMBINED | WDW - Water Disposal |
| INACTIVE | WIW - Water Injection Well |
| STORAGE | WSW - Water Supply Well |
| TERMINATED | |



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 22, 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 wells are planned for calendar year 2011 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-047-52013	GMBU 2-16-9-18H Sec 16	T09S R18E 0541 FNL 1998 FEL Lateral 1 Sec 16 T09S R18E 0200 FSL 1200 FWL
43-013-50983	GMBU 1-16-9-16H Sec 16	T09S R16E 0806 FNL 0652 FEL Lateral 1 Sec 16 T09S R16E 0100 FSL 2300 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 1-16-9-16H Newfield will request that the approval of the 15-16-9-16H, API 43-013-50442 be rescinded.

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: 2011.09.22 13:44:02 -06'00'

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

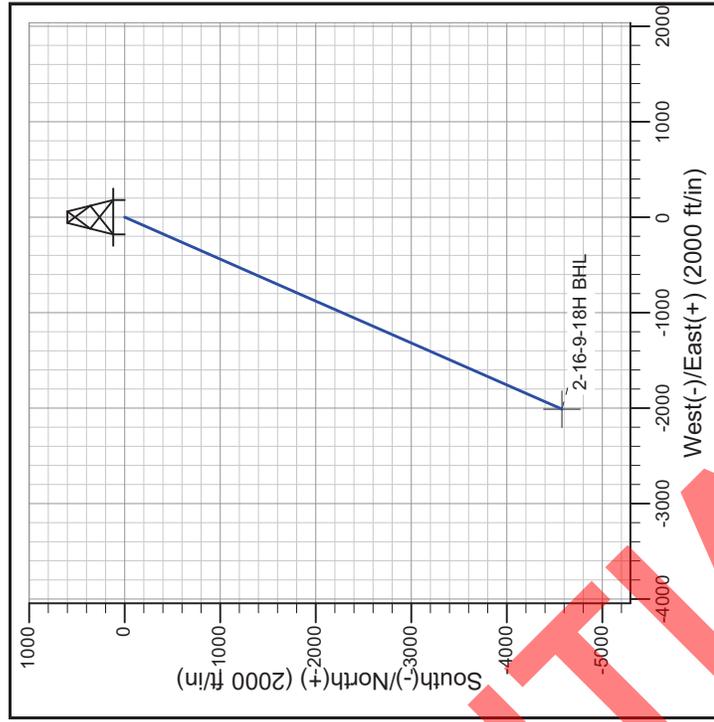
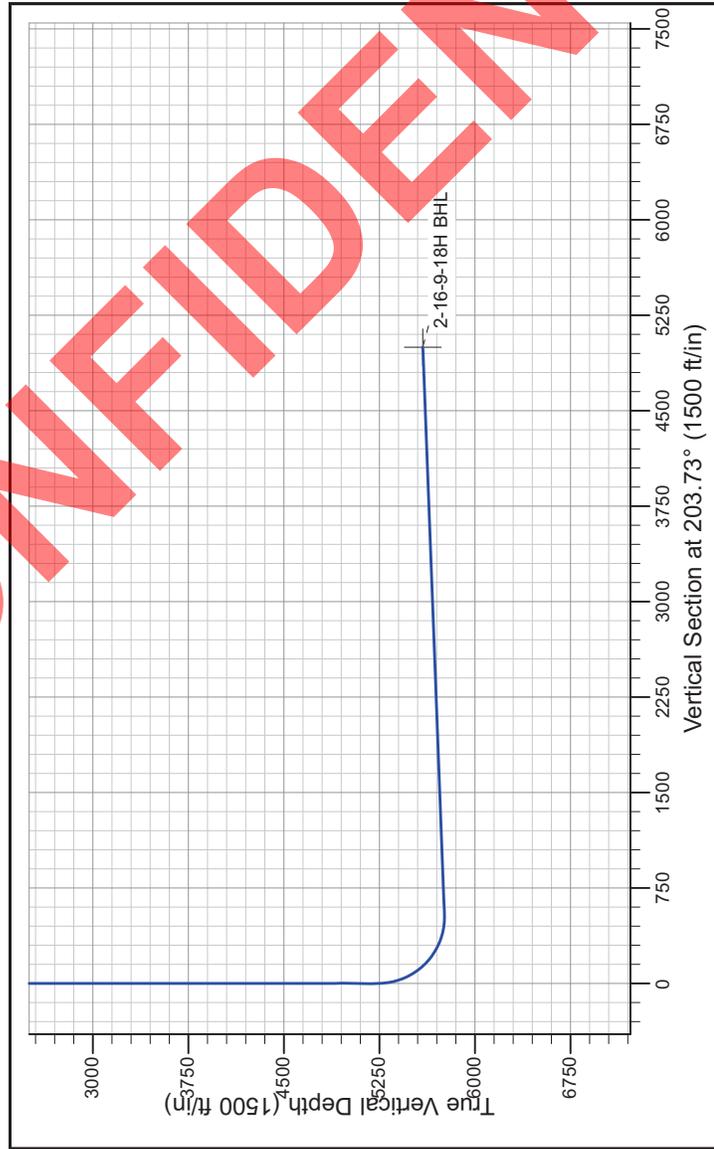
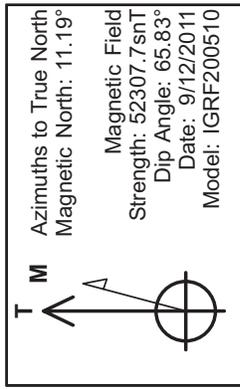
MCoulthard:mc:9-22-11

RECEIVED: September 22, 2011



Newfield Production Company

Project: Uinta Basin
Site: GMBU 2-16-9-18H
Well: GMBU 2-16-9-18H
Wellbore: 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	5240.0	0.00	0.00	5240.0	0.0	0.0	0.00	0.00	0.0	0.0
3	6077.9	92.18	203.73	5760.5	-495.0	-217.5	11.00	203.73	540.7	540.7
4	10538.8	92.18	203.73	5591.0	-4575.8	-2011.2	0.00	0.00	4998.3	2-16-9-18H BHL

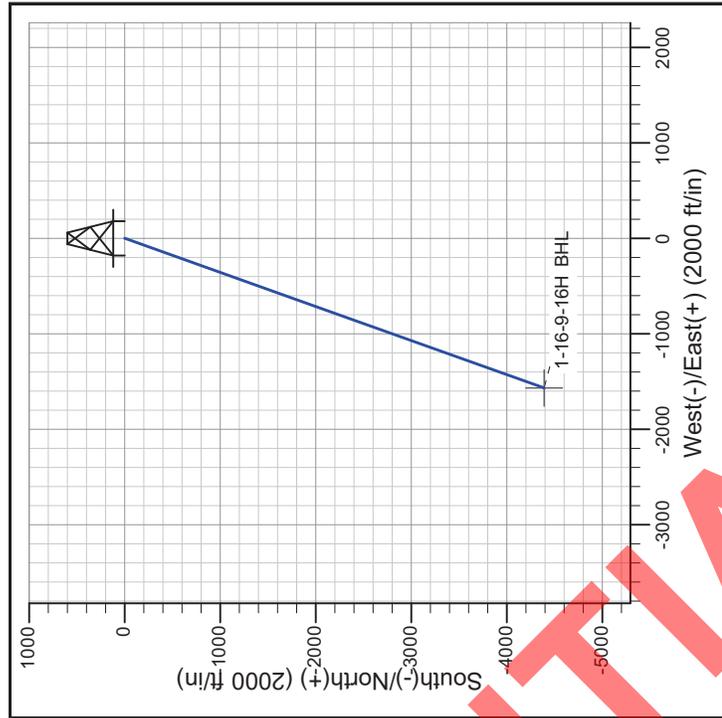
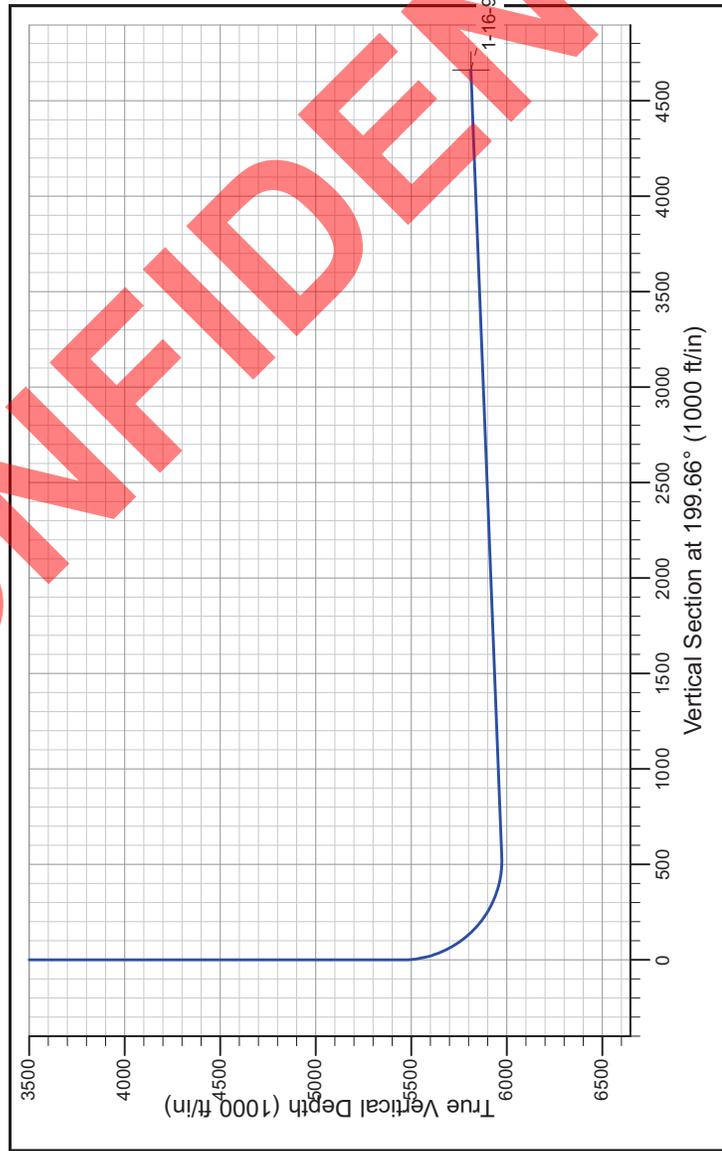
PROJECT DETAILS: Uinta Basin
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Utah Central Zone
 System Datum: Mean Sea Level



Newfield Production Company

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

Azimuths to True North
 Magnetic North: 11.28°
 Magnetic Field Strength: 52270.6snT
 Dip Angle: 65.78°
 Date: 9/12/2011
 Model: IGRF200510



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	5453.4	0.00	0.00	5453.4	0.0	0.0	0.00	0.00	0.0	0.0
3	6292.0	92.25	199.66	5973.9	-509.8	-182.1	11.00	199.66	541.3	1-16-9-16H BHL
4	10415.0	92.25	199.66	5812.0	-4389.5	-1568.0	0.00	0.00	4661.1	1-16-9-16H 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

From: Jim Davis
To: Hill, Brad; Mason, Diana
CC: Bonner, Ed; Garrison, LaVonne; mcrozier@newfield.com; teaton@newfield...
Date: 11/30/2011 4:35 PM
Subject: APD approvals (7 for Newfield)

The following APDs have been approved by SITLA including arch and paleo clearance.

4301350969 GMBU 1-2-9-16H
4304752011 GMBU 1-36T-8-17H
4301350960 GMBU 1A-32-8-17H
4301350933 GMBU I-2-9-15
4301350983 GMBU 1-16-9-16H
4304752013 GMBU 2-16-9-18H
4304751752 GMBU 1-2T-9-17H

A few things to note on the GMBU 1-2T-9-17H:

This location was presited then the location layout was changed (at SITLA/DOGM's request). This approval comes after SITLA did a follow-up site inspection after the layout was revised and the location was re-staked.

Paleo monitoring is required at this location as recommended in the paleo survey report. Newfield, please acknowledge this stipulation by a reply to this email. Thanks.

-Jim

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

CONFIDENTIAL

Well Name	NEWFIELD PRODUCTION COMPANY GMBU 1-16-9-16H 43013509830000			
String	Surf	Prod	P2	
Casing Size(")	8.625	5.500	4.500	
Setting Depth (TVD)	500	5974	5812	
Previous Shoe Setting Depth (TVD)	0	500	5974	
Max Mud Weight (ppg)	8.3	9.0	9.0	
BOPE Proposed (psi)	0	2000	2000	
Casing Internal Yield (psi)	2950	9190	10690	
Operators Max Anticipated Pressure (psi)	2499		8.3	

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	216	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	156	NO <input type="checkbox"/> air and/or water drill <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	106	NO <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)=	106	NO <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		500	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	Prod String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	2796	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	2079	NO <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1482	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)=	1592	NO <input type="checkbox"/> Reasonable <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		2000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		500	psi *Assumes 1psi/ft frac gradient

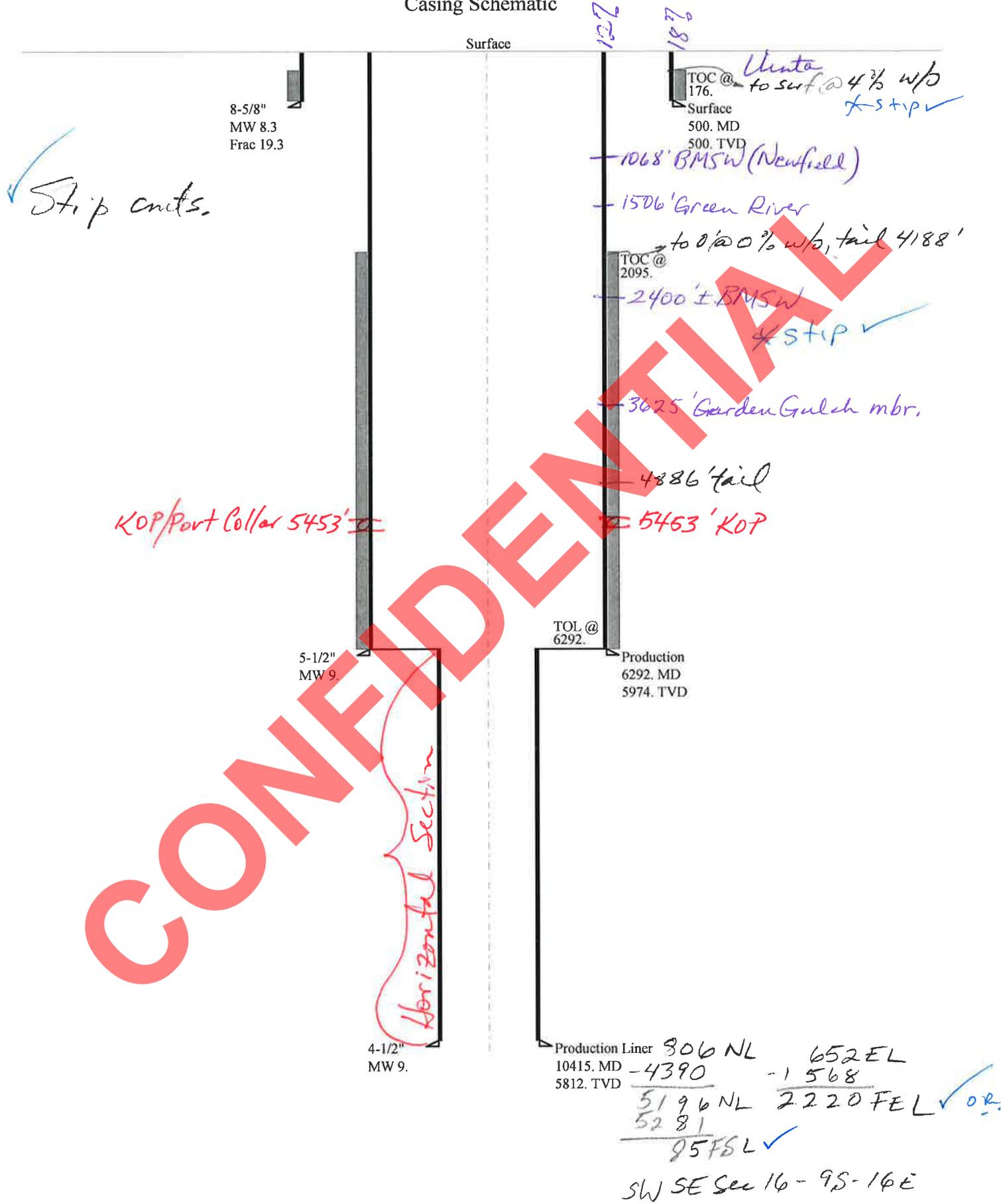
Calculations	P2 String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	2720	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	2023	NO <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1441	YES <input type="checkbox"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2756	YES <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		2000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		5974	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"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <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"/>
Required Casing/BOPE Test Pressure=			psi

CONFIDENTIAL

43013509830000 GMBU 1-16-9-16H

Casing Schematic



Well name:	43013509830000 GMBU 1-16-9-16H		
Operator:	NEWFIELD PRODUCTION COMPANY		
String type:	Surface	Project ID:	43-013-50983
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

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

Burst

Max anticipated surface pressure: 440 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP: 500 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor: 1.125

Burst:

Design factor: 1.00

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: 437 ft

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 81 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: 176 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 5,974 ft
 Next mud weight: 9.000 ppg
 Next setting BHP: 2,793 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 500 ft
 Injection pressure: 500 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	500	8.625	24.00	J-55	ST&C	500	500	7.972	2573
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	216	1370	6.334	500	2950	5.90	12	244	20.34 J

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

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

Date: December 19, 2011
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 500 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:	43013509830000 GMBU 1-16-9-16H	
Operator:	NEWFIELD PRODUCTION COMPANY	
String type:	Production	Project ID: 43-013-50983
Location:	DUCHESNE COUNTY	

Design parameters:

Collapse

Mud weight: 9.000 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 1,479 psi
Internal gradient: 0.220 psi/ft
Calculated BHP: 2,793 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor: 1.125

Burst:

Design factor: 1.00

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)

Tension is based on air weight.
Neutral point: 5,160 ft

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 158 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 2,095 ft

Directional Info - Build & Hold

Kick-off point: 5453 ft
Departure at shoe: 541 ft
Maximum dogleg: 11 °/100ft
Inclination at shoe: 92.25 °

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	6292	5.5	20.00	N-80	LT&C	5974	6292	4.653	41735
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	2793	8339	2.986	2793	9190	3.29	119.5	428	3.58 J

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

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

Date: December 19, 2011
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 5974 ft, a mud weight of 9 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.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:	43013509830000 GMBU 1-16-9-16H	
Operator:	NEWFIELD PRODUCTION COMPANY	
String type:	Production Liner	Project ID: 43-013-50983
Location:	DUCHESNE COUNTY	

Design parameters:

Collapse

Mud weight: 9.000 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 1,439 psi
Internal gradient: 0.220 psi/ft
Calculated BHP: 2,717 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor: 1.125

Burst:

Design factor: 1.00

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)

Tension is based on air weight.
Neutral point: 0 ft

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 155 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Liner top: 6,292 ft

Directional Info - Build & Hold

Kick-off point: 5453 ft
Departure at shoe: 4661 ft
Maximum dogleg: 0 °/100ft
Inclination at shoe: 92.25 °

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	4115	4.5	11.60	P-110	LT&C	5812	10415	3.875	19826
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	2717	7580	2.790	2753	10690	3.88	-1.9	279	99.99 J

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

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

Date: December 19, 2011
Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 5812 ft, a mud weight of 9 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator NEWFIELD PRODUCTION COMPANY
Well Name GMBU 1-16-9-16H
API Number 43013509830000 **APD No** 4668 **Field/Unit** MONUMENT BUTTE
Location: 1/4,1/4 NENE **Sec** 16 **Tw** 9.0S **Rng** 16.0E 806 FNL 652 FEL
GPS Coord (UTM) **Surface Owner**

Participants

M. Jones (UDOGM), T. Eaton (Newfield), B. Williams, A. Hansen (UDWR), Annie Smith (South Slope).

Regional/Local Setting & Topography

This location is staked approximately 19 road miles southwest of Myton, Utah, west of the Castle Peak Draw area. Topography is slightly hilly terrain. This location is adjacent to an existing Newfield wellbore. The old pad could not accommodate a second wellbore. The access road appeared to be staked in a route that was longer than necessary thus impacting more rangeland and wildlife habitat. It was recommended by all that a shorter access route was an option. Newfield representatives agreed that the alternate route would work fine. It is recommended that the alternate route across the north end of the existing pad be utilized.

Surface Use Plan

Current Surface Use

Grazing
Wildlife Habitat

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.11	Width 200 Length 400	Onsite	

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

sagebrush, grasses, other forbs, brush and weeds.

Soil Type and Characteristics

sandy gravelly clay.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? Y

Divert drainages around and away from well pad and access road.

Berm Required? Y

Berm location to prevent leaks and spills from leaving the confines of the pad.

Erosion Sedimentation Control Required? N

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

Reserve Pit

Site-Specific Factors		Site Ranking	
Distance to Groundwater (feet)	>200	0	
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)	10 to 20	5	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	30	1 Sensitivity Level

Characteristics / Requirements

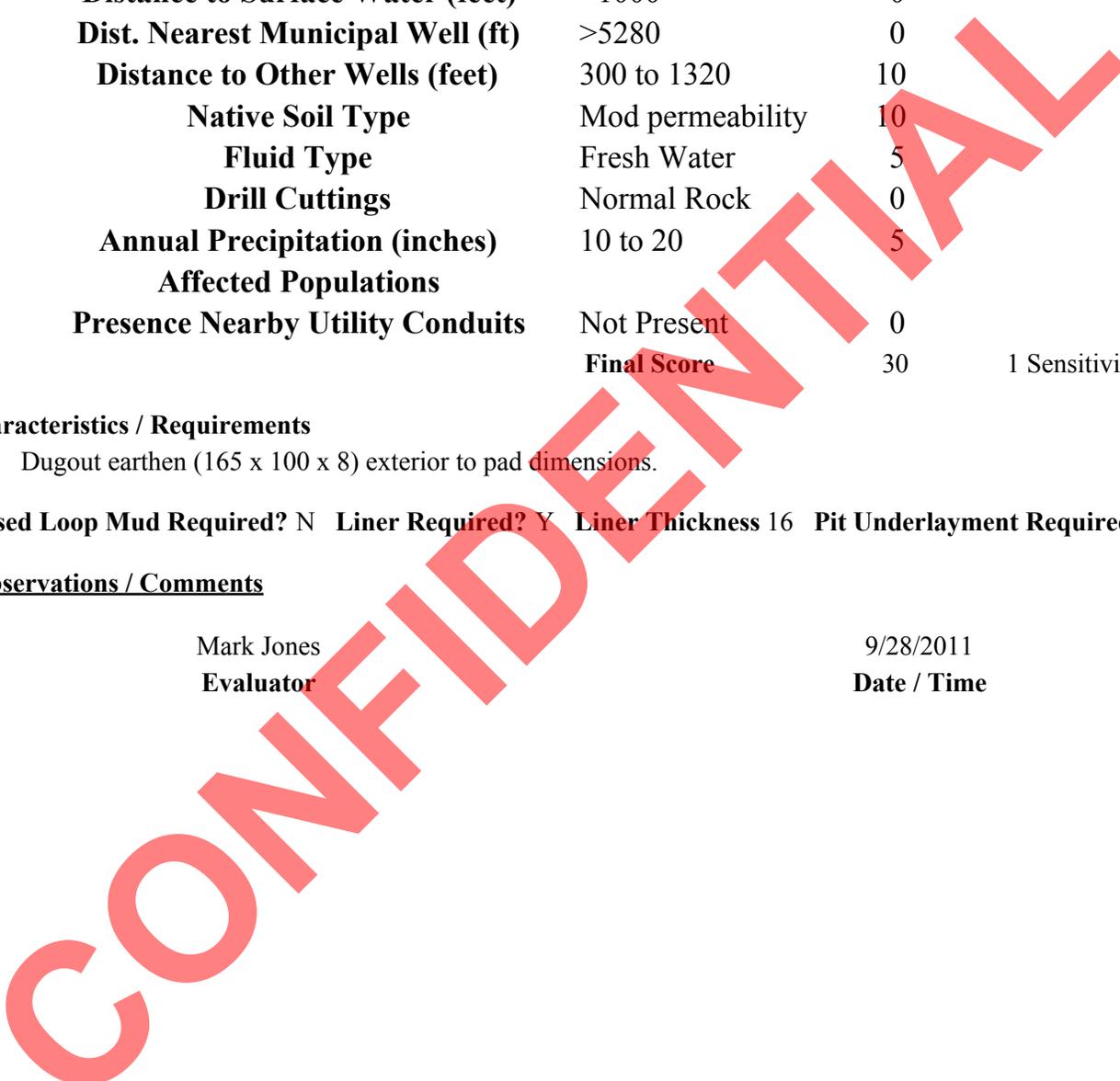
Dugout earthen (165 x 100 x 8) exterior to pad dimensions.

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

Other Observations / Comments

Mark Jones
Evaluator

9/28/2011
Date / Time



Application for Permit to Drill Statement of Basis

12/29/2011

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
4668	43013509830000	SITLA	OW	S	No
Operator	NEWFIELD PRODUCTION COMPANY		Surface Owner-APD		
Well Name	GMBU 1-16-9-16H		Unit	GMBU (GRRV)	
Field	MONUMENT BUTTE		Type of Work	DRILL	
Location	NENE 16 9S 16E S 806 FNL 652 FEL		GPS Coord (UTM)	575313E	4432106N

Geologic Statement of Basis

Newfield proposes to set 500' 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 2,400'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 16. 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 significant source of useable ground water. Production casing cement should be brought high enough to cover the estimated base of the moderately saline ground water.

Brad Hill
APD Evaluator

10/31/2011
Date / Time

Surface Statement of Basis

This location is staked approximately 19 road miles southwest of Myton, Utah, west of the Castle Peak Draw area. Topography is slightly hilly terrain. This location is adjacent to an existing Newfield wellbore. The old pad could not accommodate a second wellbore. The access road appeared to be staked in a route that was longer than necessary thus impacting more rangeland and wildlife habitat. It was recommended by all that a shorter access route was an option. Newfield representatives agreed that the alternate route would work fine. It is recommended that the alternate route across the north end of the existing pad be utilized. Lower elevations of surrounding area create small drainages that will typically run water during storm events. The location should be bermed to prevent spills from leaving the confines of the pad. Fencing around the reserve pit will be necessary once the well is drilled to prevent wildlife and livestock from becoming a problem. Drainages should be diverted around and away from wellpad and access road. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit.

Mark Jones
Onsite Evaluator

9/28/2011
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils 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.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 9/20/2011

API NO. ASSIGNED: 43013509830000

WELL NAME: GMBU 1-16-9-16H

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: NENE 16 090S 160E

Permit Tech Review:

SURFACE: 0806 FNL 0652 FEL

Engineering Review:

BOTTOM: 0100 FSL 2300 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.03582

LONGITUDE: -110.11724

UTM SURF EASTINGS: 575313.00

NORTHINGS: 4432106.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 3 - State

LEASE NUMBER: ML-16532

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: 43-7478
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingling 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 - bhll
 8 - Cement to Surface -- 2 strings - hmadonald
 27 - Other - bhll
 28 - Other2 - bhll



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: GMBU 1-16-9-16H
API Well Number: 43013509830000
Lease Number: ML-16532
Surface Owner: STATE
Approval Date: 12/29/2011

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).

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).

Cement volumes for the 8 5/8" and 5 1/2" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface.

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

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 <http://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

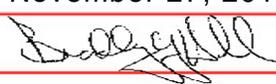
STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: ML-16532	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)	
8. WELL NAME and NUMBER: GMBU 1-16-9-16H	
9. API NUMBER: 43013509830000	
9. FIELD and POOL or WILDCAT: MONUMENT BUTTE	
9. COUNTY: DUCHESNE	
STATE: UTAH	
1. TYPE OF WELL Oil Well	
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	
PHONE NUMBER: 435 646-4825 Ext	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0806 FNL 0652 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 16 Township: 09.0S Range: 16.0E Meridian: S	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/29/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Newfield proposes to extend the Application for Permit to Drill this well.

Approved by the Utah Division of Oil, Gas and Mining
Date: November 27, 2012
By: 

NAME (PLEASE PRINT) Mandie Crozier	PHONE NUMBER 435 646-4825	TITLE Regulatory Tech
SIGNATURE N/A		DATE 11/26/2012



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013509830000

API: 43013509830000

Well Name: GMBU 1-16-9-16H

Location: 0806 FNL 0652 FEL QTR NENE SEC 16 TWNP 090S RNG 160E MER S

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 12/29/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
- Has the approved source of water for drilling changed? Yes No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
- Is bonding still in place, which covers this proposed well? Yes No

Signature: Mandie Crozier

Date: 11/26/2012

Title: Regulatory Tech Representing: NEWFIELD PRODUCTION COMPANY

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: ML-16532	
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.	
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7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)	
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9. API NUMBER: 43013509830000	
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	
PHONE NUMBER: 435 646-4825 Ext	
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COUNTY: DUCHESNE	
STATE: UTAH	

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

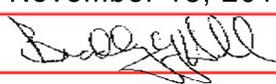
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/29/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Newfield proposes to extend the Application for Permit to Drill this well.

Approved by the Utah Division of Oil, Gas and Mining

Date: November 18, 2013

By: 

NAME (PLEASE PRINT) Mandie Crozier	PHONE NUMBER 435 646-4825	TITLE Regulatory Tech
SIGNATURE N/A	DATE 11/12/2013	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013509830000

API: 43013509830000

Well Name: GMBU 1-16-9-16H

Location: 0806 FNL 0652 FEL QTR NENE SEC 16 TWNP 090S RNG 160E MER S

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 12/29/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

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

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

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

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

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

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

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

Signature: Mandie Crozier

Date: 11/12/2013

Title: Regulatory Tech Representing: NEWFIELD PRODUCTION COMPANY



GARY R. HERBERT
Governor

SPENCER J. COX
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

January 8, 2015

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

Re: APDs Rescinded Newfield Production Company,
Duchesne and Uintah County

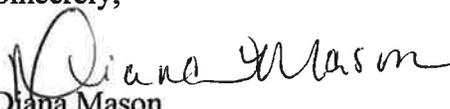
Ladies and Gentlemen:

Enclosed find the list of APDs that is being rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded as of January 8, 2015.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,


Diana Mason
Environmental Scientist

cc: Well File
SITLA, Ed Bonner



43-013-50969 GMBU 1-2-9-16H
43-013-50983 GMBU 1-16-9-16H
43-047-51752 GMBU 1-2T-9-17H
43-013-50970 GMBU B-2-9-15
43-013-50971 GMBU C-2-9-15