

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 Mamie 4-25-3-3WH								
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 WILDCAT								
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME								
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) 14-20-H62-6191			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input 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') Ute Indian Tribe			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		238 FNL 1036 FWL		NWNW		24		3.0 S		3.0 W		U		
Top of Uppermost Producing Zone		660 FNL 660 FWL		NWNW		25		3.0 S		3.0 W		U		
At Total Depth		660 FSL 660 FWL		S2SW		25		3.0 S		3.0 W		U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 338			23. NUMBER OF ACRES IN DRILLING UNIT 40								
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Approved For Drilling or Completed) 3630			26. PROPOSED DEPTH MD: 12620 TVD: 8210								
27. ELEVATION - GROUND LEVEL 5236			28. BOND NUMBER RLB00100473			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 437478								
Hole, Casing, and Cement Information														
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement		Sacks	Yield	Weight			
COND	17.5	14	0 - 60	37.0	H-40 ST&C	0.0	Class G		35	1.17	15.8			
SURF	12.25	9.625	0 - 2500	36.0	J-55 ST&C	8.3	Premium Lite High Strength		204	3.53	11.0			
							Class G		154	1.17	15.8			
I1	8.75	7	0 - 8379	26.0	P-110 LT&C	11.5	Premium Lite High Strength		243	3.53	11.0			
							50/50 Poz		336	1.24	14.3			
L1	6.125	4.5	7811 - 12620	13.5	P-110 Other	11.5	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 Don Hamilton				TITLE Permitting Agent				PHONE 435 719-2018						
SIGNATURE				DATE 07/02/2012				EMAIL starpoint@etv.net						
API NUMBER ASSIGNED 43013515310000				APPROVAL  Permit Manager										

Newfield Production Company**Mamie 4-25-3-3WH****Surface Hole Location: 238' FNL, 1036' FWL, Section 25, T3S, R3W****Bottom Hole Location: 660' FSL, 660' FWL, Section 25, T3S, R3W****Duchesne County, UT****Drilling Program****1. Formation Tops**

Uinta	surface
Green River	3,165'
Garden Gulch member	5,969'
Wasatch	8,473'
Pilot Hole TD	8,673'
Lateral TD	8,210' TVD / 12,620' MD

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

Base of moderately saline	454'	(water)
Green River	5,969' - 8,210'	(oil)

Note: The pilot hole will be drilled into the Wasatch formation for evaluation and targeting purposes only. The lateral will be drilled in the Green River formation.

3. Pressure Control

<u>Section</u>	<u>BOP Description</u>
----------------	------------------------

Surface	12 1/4" diverter
---------	------------------

Interm/Prod 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 5M system.

A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 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
Conductor 14	0'	60'	37	H-40	Weld	--	--	--	--	--	--
Surface 9 5/8	0'	2,500'	36	J-55	STC	8.33	8.33	14	3,520 2.12	2,020 2.54	394,000 4.38
Intermediate 7	0'	8,708' 8,379'	26	P-110	BTC	11	11.5	15	9,960 2.42	6,210 1.43	853,000 3.92
Production 4 1/2	7,811'	8,210' 12,620'	13.5	P-110	BTC	11	11.5	--	12,410 3.20	10,670 2.61	422,000 6.50

Assumptions:

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

Intermediate casing MASP = (reservoir pressure) - (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			
Conductor	17 1/2	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	41	15%	15.8	1.17
				35			
Surface Lead	12 1/4	2,000'	Premium Lite II w/ 3% KCl + 10% bentonite	20	15%	11.0	3.53
				204			
Surface Tail	12 1/4	500'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	180	15%	15.8	1.17
				154			
Pilot Hole Plug Back	8 3/4	812'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	390	15%	14.3	1.24
				314			
Intermediate Lead	8 3/4	4,969'	Premium Lite II w/ 3% KCl + 10% bentonite	859	15%	11.0	3.53
				243			
Intermediate Tail	8 3/4	2,410'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	417	15%	14.3	1.24
				336			
Production	6 1/8	--	Liner will not be cemented. It will be isolated with a liner top packer.	--	--	--	--
				--			

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.

Actual cement volumes for the pilot hole plug back and the intermediate casing string will be calculated from an open hole caliper log, plus 15% excess.

The production liner will be left uncemented. Individual frac stages will be isolated with open hole packers. A liner top hanger and packer will be installed 50' above KOP.

6. Type and Characteristics of Proposed Circulating Medium

<u>Interval</u>	<u>Description</u>
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Surface - 2,500'

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.

2,500' - 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 11.5 ppg.

7. Logging, Coring, and Testing

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

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 0.57 psi/ft gradient.

$$8,210' \times 0.57 \text{ psi/ft} = 4690 \text{ psi}$$

No abnormal temperature is expected. No H₂S is expected.

9. Other Aspects

An 8-3/4" pilot hole will be drilled in order to determine the depth to the lateral target zone. The pilot hole will be logged, and then plugged back in preparation for horizontal operations. Directional tools will then be used to build to 92.48 degrees inclination. The 7" intermediate casing string will be set once the well is landed horizontally in the target zone.

The lateral will be drilled to the bottomhole location shown on the plat.

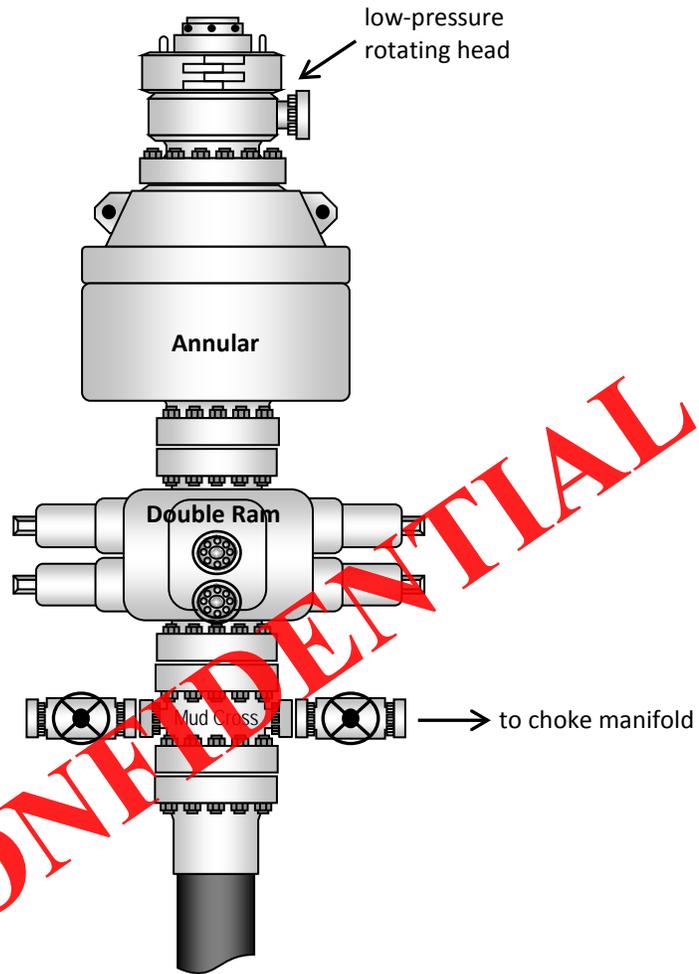
A liner with a system of open hole packers will be used to provide multi-stage frac isolation in the lateral. The top of the liner will be placed 50' above KOP and will be isolated with a liner top packer.

Newfield requests the following variances from Onshore Order #2:

- Variance from Onshore Order #2, III.E.1

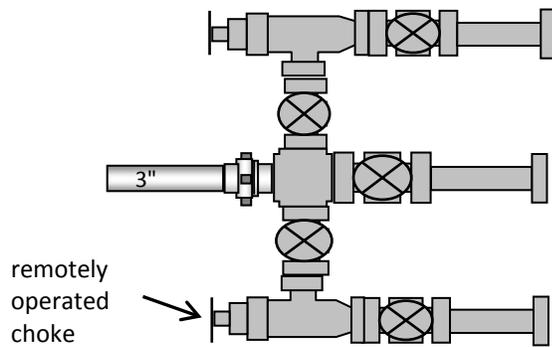
Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

Typical 5M BOP stack configuration



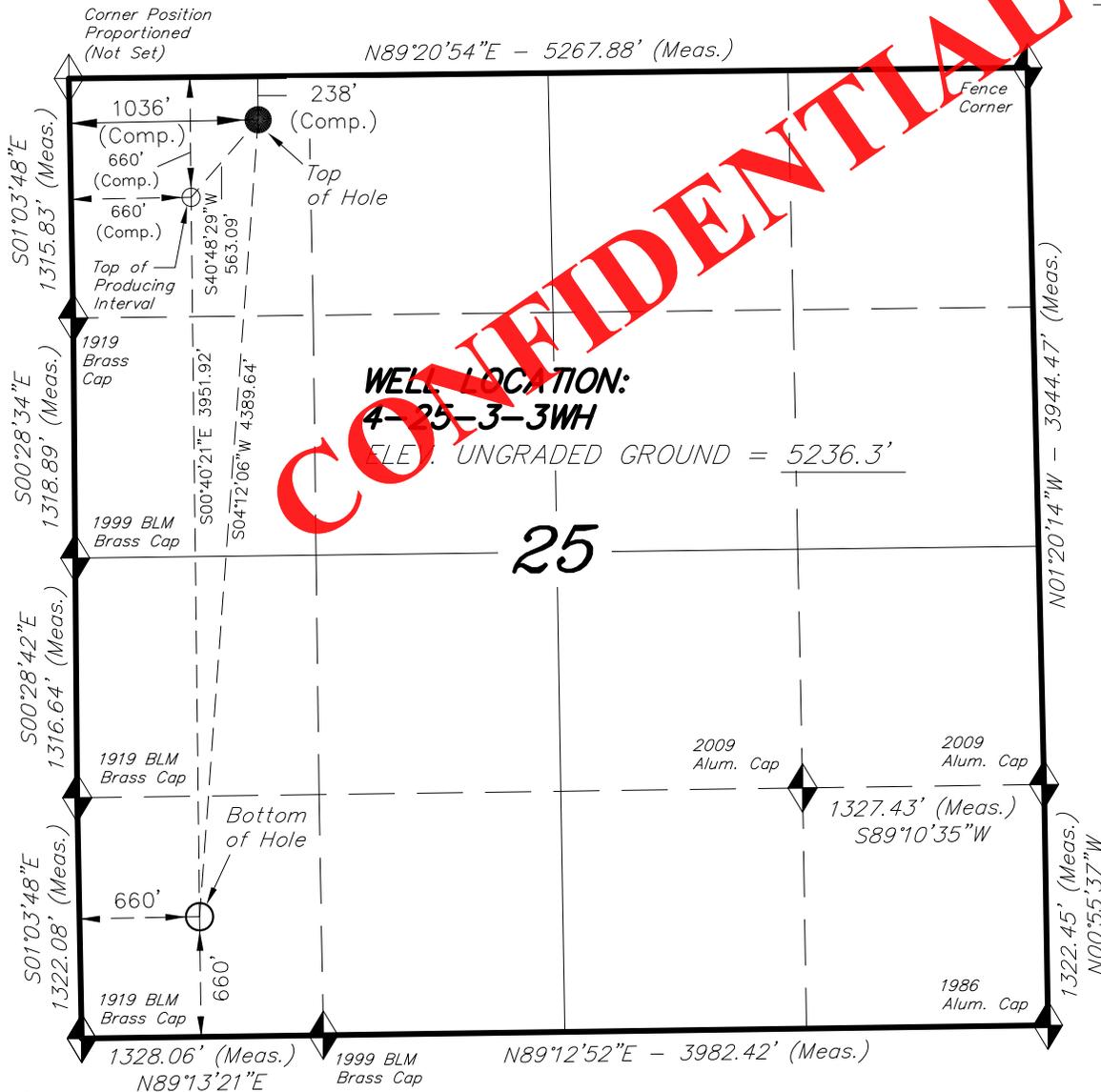
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Typical 5M choke manifold configuration



T3S, R3W, U.S.B.&M.

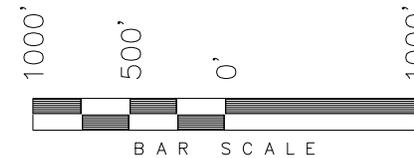
NEWFIELD EXPLORATION COMPANY



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WELL LOCATION, 4-25-3-3WH, LOCATED AS SHOWN IN THE NW 1/4 NW 1/4 OF SECTION 25, T3S, R3W, U.S.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, 4-25-3-3WH, LOCATED AS SHOWN IN THE SW 1/4 SW 1/4 OF SECTION 25, T3S, R3W, U.S.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 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

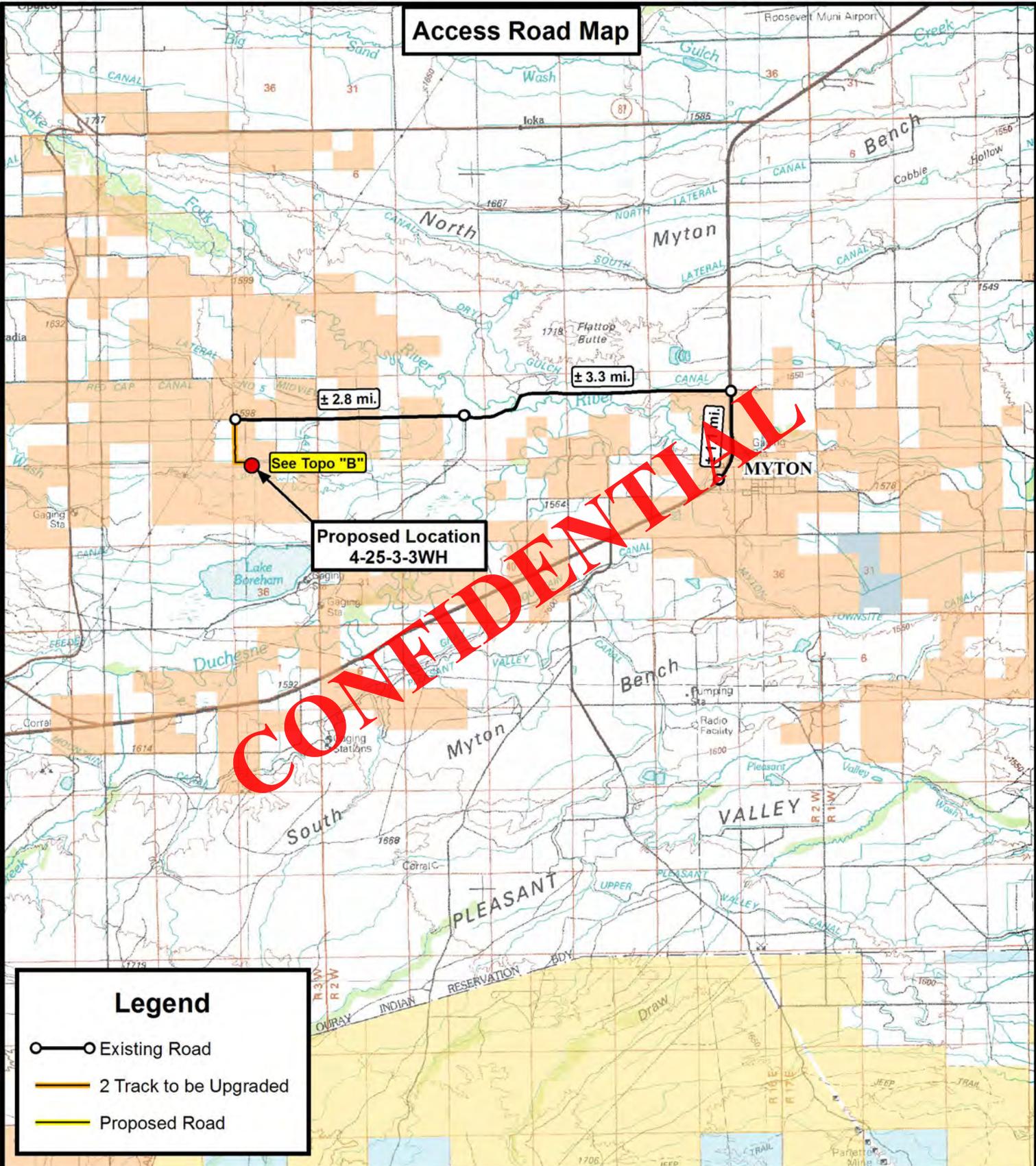
BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

4-25-3-3WH
 (Surface Location) NAD 83
 LATITUDE = 40° 11' 58.53"
 LONGITUDE = 110° 10' 36.74"

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

DATE SURVEYED: 01-23-12	SURVEYED BY: C.D.S.	VERSION:
DATE DRAWN: 01-24-12	DRAWN BY: M.W.	V1
REVISED:	SCALE: 1" = 1000'	

Access Road Map



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**Proposed Location
4-25-3-3WH**

MYTON

VALLEY

PLEASANT

SOUTH

NORTH

Myton

Bench

Duchesne

Lake Boreham

Roosevelt Muni Airport

Legend

- Existing Road
- 2 Track to be Upgraded
- 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

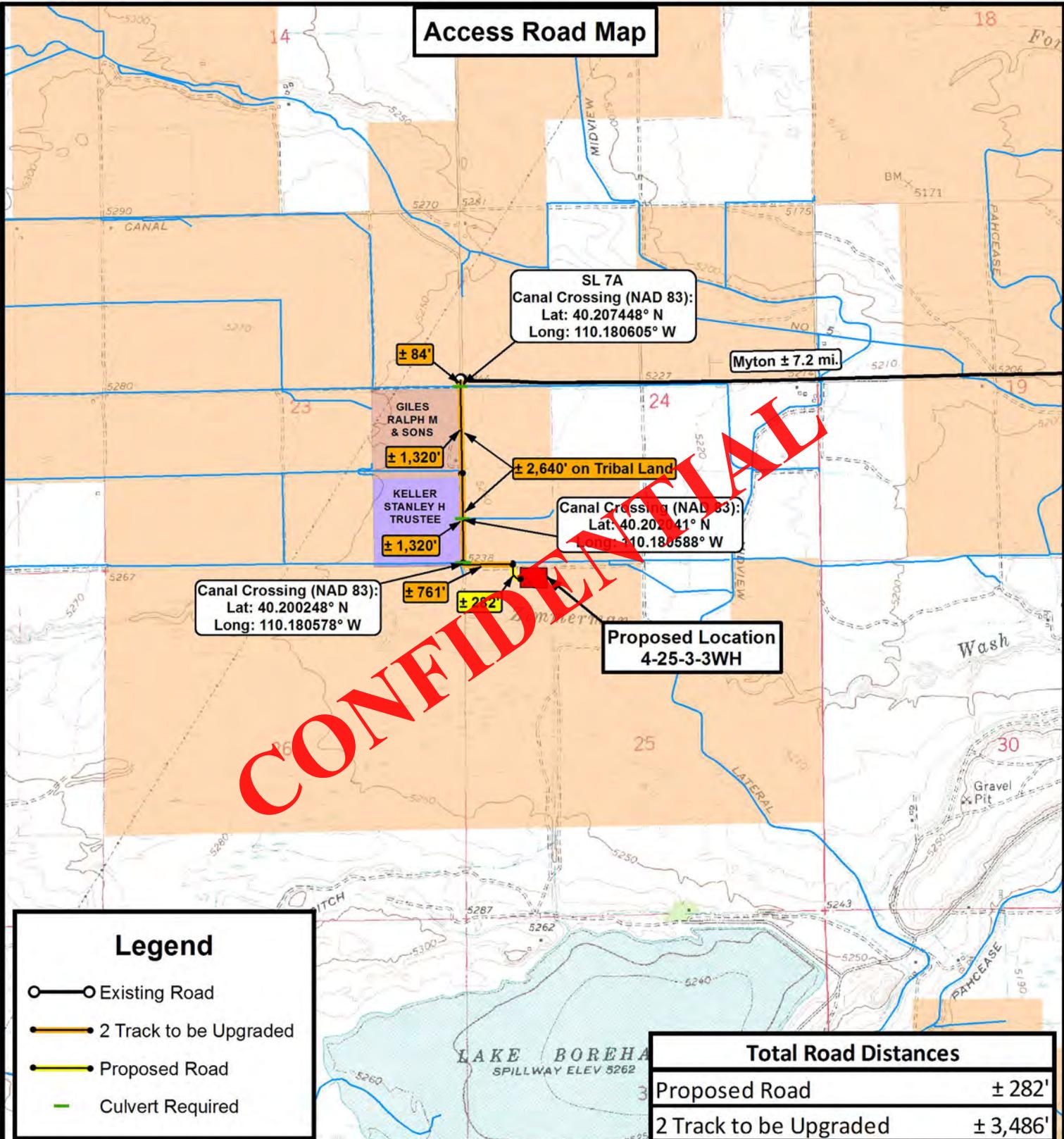
**4-25-3-3WH
SEC. 25, T3S, R3W, U.S.B.&M.
Duchesne County, UT.**

DRAWN BY:	D.C.R.	REVISED:	VERSION:
DATE:	01-25-2012		V1
SCALE:	1:100,000		

TOPOGRAPHIC MAP

SHEET
A

Access Road Map



Legend

- Existing Road
- 2 Track to be Upgraded
- Proposed Road
- Culvert Required

Total Road Distances	
Proposed Road	± 282'
2 Track to be Upgraded	± 3,486'

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.

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

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



NEWFIELD EXPLORATION COMPANY

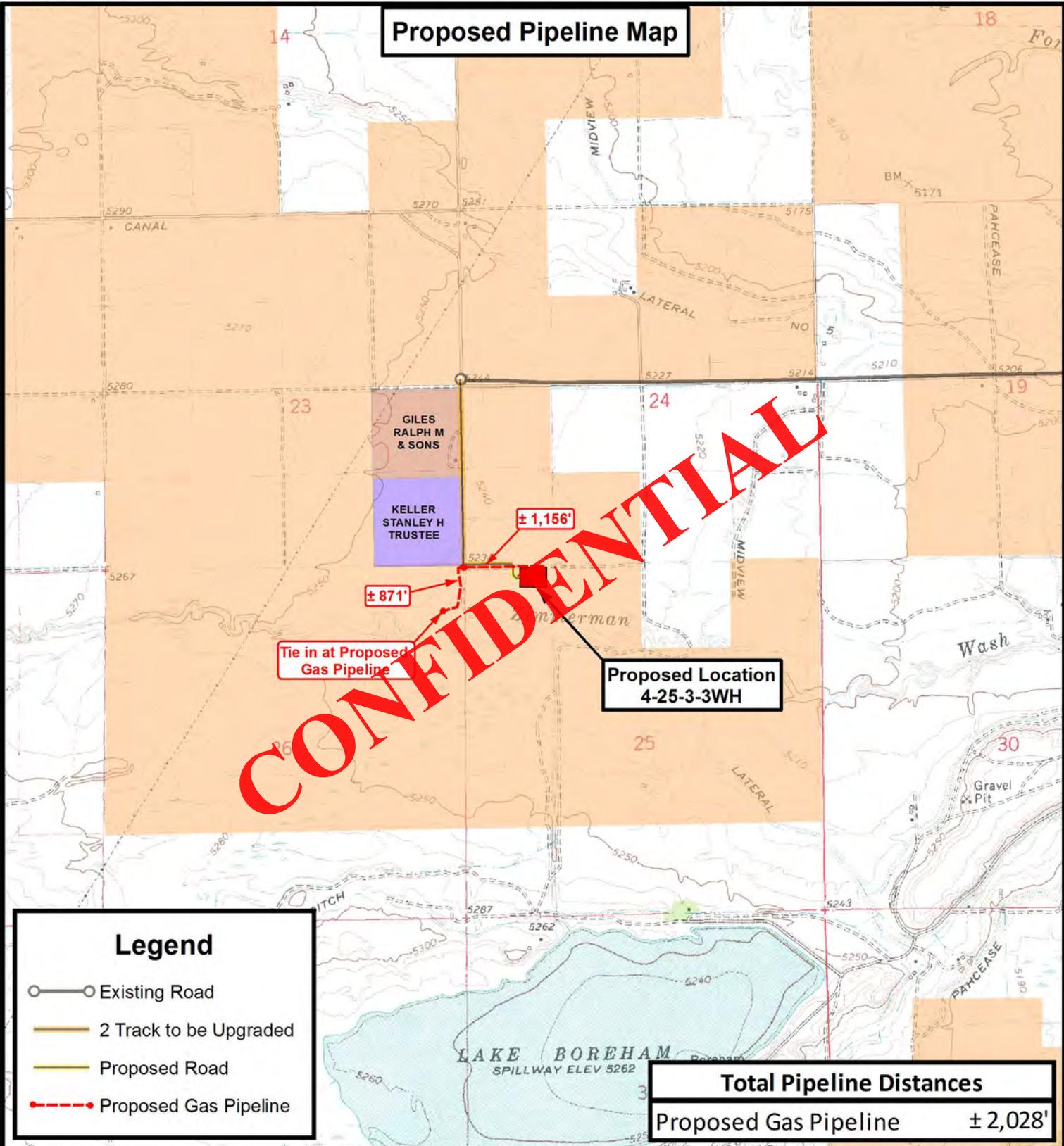
4-25-3-3WH
 SEC. 25, T3S, R3W, U.S.B.&M.
 Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	VERSION:
DATE:	01-25-2012		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET **B**

Proposed Pipeline Map



Tie in at Proposed Gas Pipeline

Proposed Location 4-25-3-3WH

Legend

- Existing Road
- 2 Track to be Upgraded
- Proposed Road
- Proposed Gas Pipeline

Total Pipeline Distances	
Proposed Gas Pipeline	± 2,028'

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
 4-25-3-3WH
 SEC. 25, T3S, R3W, U.S.B.&M.
 Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	VERSION:
DATE:	01-25-2012		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET **C**

Exhibit "B" Map

**Proposed Location
4-25-3-3WH**

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Legend

-  1 Mile Radius
-  Proposed Location

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NEWFIELD EXPLORATION COMPANY

**4-25-3-3WH
SEC. 25, T3S, R3W, U.S.B.&M.
Duchesne County, UT.**

DRAWN BY:	D.C.R.	REVISED:	VERSION:
DATE:	01-25-2012		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
D

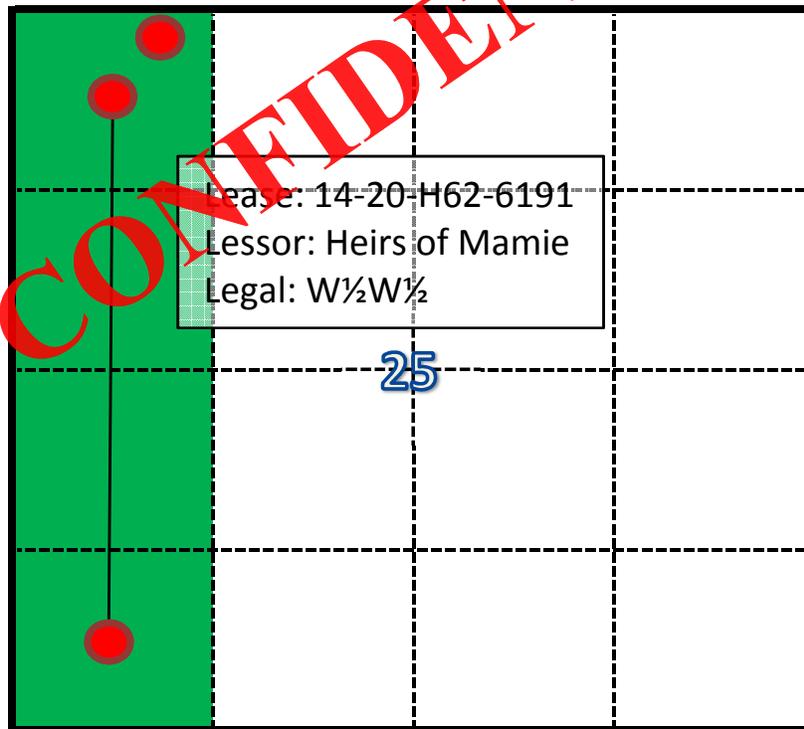
Mamie 4-25-3-3WH

SHL 238' FNL & 1036' FWL

Top of Producing Interval 660' FNL & 660' FWL

BHL 660' FSL & 660' FWL

Township 3 South, Range 3 West, Section 25: W $\frac{1}{2}$ W $\frac{1}{2}$





Weatherford®

NEWFIELD EXPLORATION CO.

DUCHESNE COUNTY, UT

MAMIE 4-25-3-3WH

MAMIE 4-25-3-3WH

MAMIE 4-25-3-3WH

Plan: PLAN #1

Standard Planning Report

13 June 2012

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Project: DUCHESNE COUNTY, UT
 Site: MAMIE 4-25-3-3WH
 Well: MAMIE 4-25-3-3WH
 Wellbore: MAMIE 4-25-3-3WH
 Design: PLAN #1
 Latitude: 40° 11' 58.530 N
 Longitude: 110° 10' 36.740 W
 GL: 5236.30
 KB: KB @ 5250.00ft (PIONEER 62)



WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL - MAMIE 4-25-3-3WH	8210.00	-4383.35	-321.67	40° 11' 15.210 N	110° 10' 40.885 W	Point
LP - MAMIE 4-25-3-3WH	8378.93	-475.64	-317.23	40° 11' 53.823 N	110° 10' 40.828 W	Point

WELL DETAILS: MAMIE 4-25-3-3WH

+N/-S	+E/-W	Northing	Ground Level: Easting	5236.30	Latitude	Longitude	Slot
0.00	0.00	7244160.37	2009983.19		40° 11' 58.530 N	110° 10' 36.740 W	

SECTION DETAILS

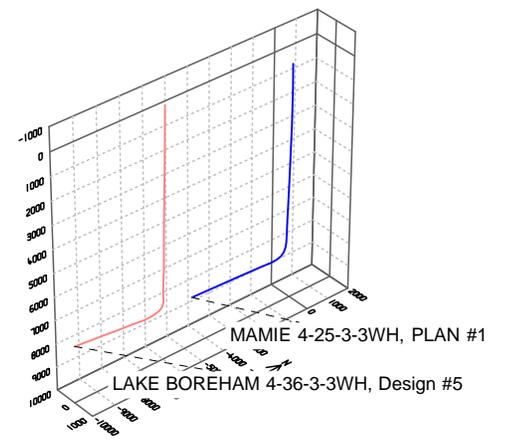
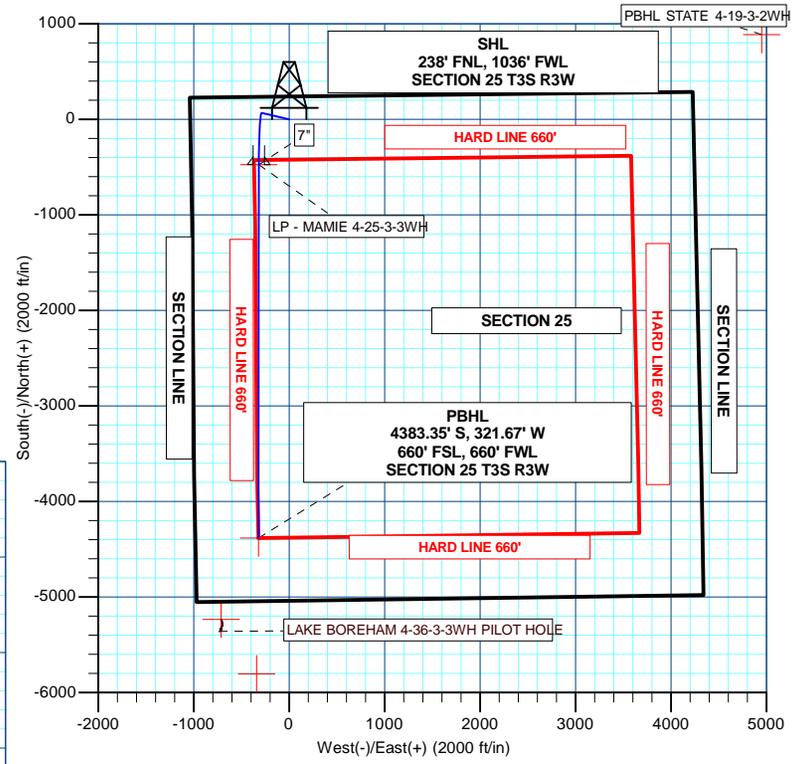
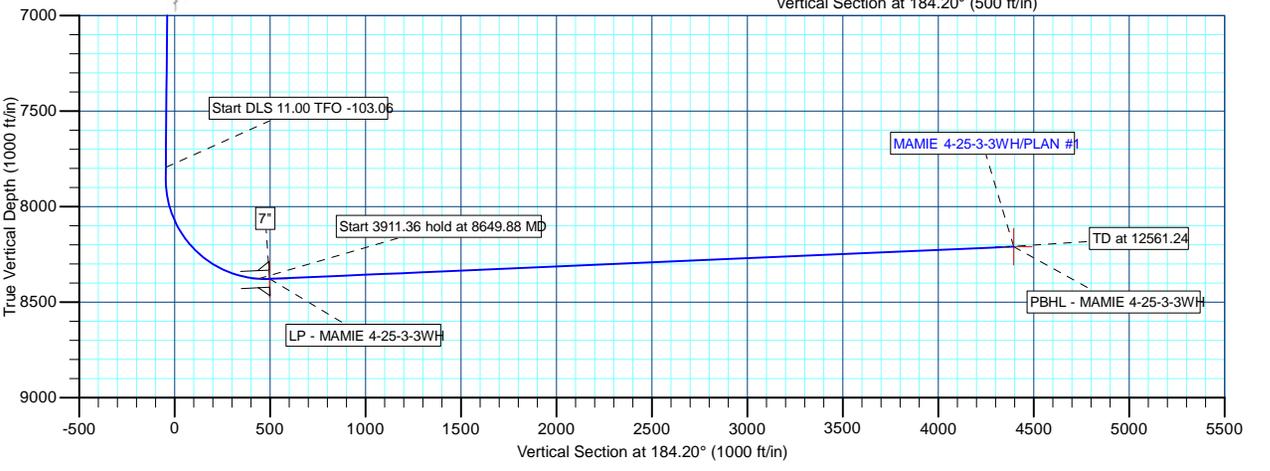
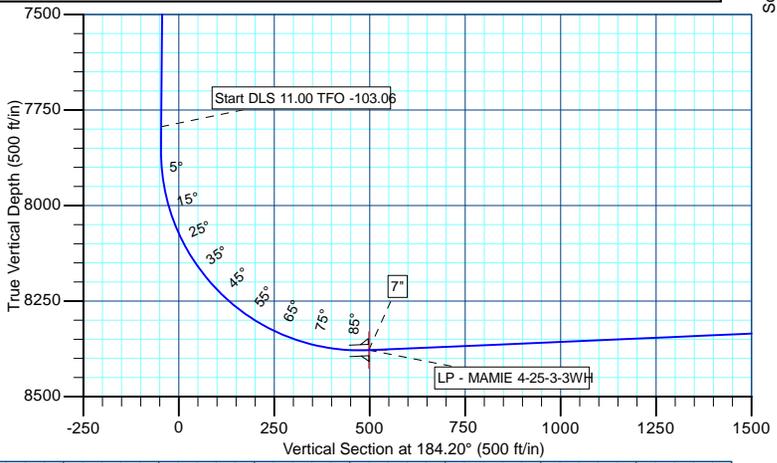
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
2659.88	3.20	283.27	2659.79	1.02	0.34	2.00	283.27	-0.70	
7860.93	3.20	283.27	7852.75	77.63	-286.70	0.00	0.00	-46.45	
8708.22	92.48	180.07	8378.93	-475.64	-317.23	11.00	-103.05	497.58	
12619.58	92.48	180.07	8210.00	-4383.35	-321.67	0.00	0.00	4395.14	

Azimuths to True North
 Magnetic North: 11.29°

Magnetic Field
 Strength: 52183.4nT
 Dip Angle: 65.85°
 Date: 6/13/2012
 Model: BGGM2011

CASING DETAILS

TVD	MD	Name	Size
8378.93	8708.22	7"	7"





Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MAMIE 4-25-3-3WH
Company:	NEWFIELD EXPLORATION CO.	TVD Reference:	KB @ 5254.30ft (PIONEER 62)
Project:	DUCHESNE COUNTY, UT	MD Reference:	KB @ 5254.30ft (PIONEER 62)
Site:	MAMIE 4-25-3-3WH	North Reference:	True
Well:	MAMIE 4-25-3-3WH	Survey Calculation Method:	Minimum Curvature
Wellbore:	MAMIE 4-25-3-3WH		
Design:	PLAN #1		

Project	DUCHESNE COUNTY, UT		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	MAMIE 4-25-3-3WH				
Site Position:		Northing:	7,244,160.37 usft	Latitude:	40° 11' 58.530 N
From:	Lat/Long	Easting:	2,009,983.19 usft	Longitude:	110° 10' 36.740 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16"	Grid Convergence:	0.85 °

Well	MAMIE 4-25-3-3WH					
Well Position	+N/-S	0.00 ft	Northing:	7,244,160.37 usft	Latitude:	40° 11' 58.530 N
	+E/-W	0.00 ft	Easting:	2,009,983.19 usft	Longitude:	110° 10' 36.740 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,236.30 ft

Wellbore	MAMIE 4-25-3-3WH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2011	6/13/2012	(°)	(°)	(nT)
			11.29	65.85	52,183

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	184.20

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,659.88	3.20	283.27	2,659.79	1.02	-4.34	2.00	2.00	0.00	283.27	
7,860.93	3.20	283.27	7,852.75	67.62	-286.70	0.00	0.00	0.00	0.00	
8,708.22	92.48	180.07	8,378.93	-475.64	-317.23	11.00	10.54	-12.18	-103.05	
12,619.58	92.48	180.07	8,210.00	-4,383.35	-321.67	0.00	0.00	0.00	0.00	PBHL - MAMIE 4-25-



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MAMIE 4-25-3-3WH
Company:	NEWFIELD EXPLORATION CO.	TVD Reference:	KB @ 5254.30ft (PIONEER 62)
Project:	DUCHESNE COUNTY, UT	MD Reference:	KB @ 5254.30ft (PIONEER 62)
Site:	MAMIE 4-25-3-3WH	North Reference:	True
Well:	MAMIE 4-25-3-3WH	Survey Calculation Method:	Minimum Curvature
Wellbore:	MAMIE 4-25-3-3WH		
Design:	PLAN #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 2.00										
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,600.00	2.00	283.27	2,599.98	0.40	-1.70	-0.28	2.00	2.00	0.00	
2,659.88	3.20	283.27	2,659.79	1.02	-4.34	-0.70	2.00	2.00	0.00	
Start 5140.99 hold at 2661.53 MD										
2,661.53	3.20	283.27	2,661.44	1.04	-4.43	-0.72	0.00	0.00	0.00	
2,700.00	3.20	283.27	2,699.85	1.54	-6.52	-1.06	0.00	0.00	0.00	
2,800.00	3.20	283.27	2,799.70	2.82	-11.95	-1.94	0.00	0.00	0.00	
2,900.00	3.20	283.27	2,899.54	4.10	-17.38	-2.82	0.00	0.00	0.00	
3,000.00	3.20	283.27	2,999.39	5.38	-22.81	-3.70	0.00	0.00	0.00	
3,100.00	3.20	283.27	3,099.23	6.66	-28.23	-4.57	0.00	0.00	0.00	
3,200.00	3.20	283.27	3,199.08	7.94	-33.66	-5.45	0.00	0.00	0.00	
3,300.00	3.20	283.27	3,298.92	9.22	-39.09	-6.33	0.00	0.00	0.00	
3,400.00	3.20	283.27	3,398.76	10.50	-44.52	-7.21	0.00	0.00	0.00	
3,500.00	3.20	283.27	3,498.61	11.78	-49.95	-8.09	0.00	0.00	0.00	
3,600.00	3.20	283.27	3,598.45	13.06	-55.38	-8.97	0.00	0.00	0.00	
3,700.00	3.20	283.27	3,698.30	14.34	-60.81	-9.85	0.00	0.00	0.00	
3,800.00	3.20	283.27	3,798.14	15.62	-66.24	-10.73	0.00	0.00	0.00	
3,900.00	3.20	283.27	3,897.99	16.90	-71.67	-11.61	0.00	0.00	0.00	
4,000.00	3.20	283.27	3,997.83	18.18	-77.09	-12.49	0.00	0.00	0.00	
4,100.00	3.20	283.27	4,097.68	19.46	-82.52	-13.37	0.00	0.00	0.00	
4,200.00	3.20	283.27	4,197.52	20.74	-87.95	-14.25	0.00	0.00	0.00	
4,300.00	3.20	283.27	4,297.36	22.02	-93.38	-15.13	0.00	0.00	0.00	
4,400.00	3.20	283.27	4,397.21	23.30	-98.81	-16.01	0.00	0.00	0.00	
4,500.00	3.20	283.27	4,497.05	24.58	-104.24	-16.89	0.00	0.00	0.00	
4,600.00	3.20	283.27	4,596.90	25.86	-109.67	-17.77	0.00	0.00	0.00	
4,700.00	3.20	283.27	4,696.74	27.14	-115.10	-18.65	0.00	0.00	0.00	
4,800.00	3.20	283.27	4,796.59	28.43	-120.53	-19.53	0.00	0.00	0.00	
4,900.00	3.20	283.27	4,896.43	29.71	-125.95	-20.41	0.00	0.00	0.00	



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MAMIE 4-25-3-3WH
Company:	NEWFIELD EXPLORATION CO.	TVD Reference:	KB @ 5254.30ft (PIONEER 62)
Project:	DUCHESNE COUNTY, UT	MD Reference:	KB @ 5254.30ft (PIONEER 62)
Site:	MAMIE 4-25-3-3WH	North Reference:	True
Well:	MAMIE 4-25-3-3WH	Survey Calculation Method:	Minimum Curvature
Wellbore:	MAMIE 4-25-3-3WH		
Design:	PLAN #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,000.00	3.20	283.27	4,996.27	30.99	-131.38	-21.29	0.00	0.00	0.00	
5,100.00	3.20	283.27	5,096.12	32.27	-136.81	-22.17	0.00	0.00	0.00	
5,200.00	3.20	283.27	5,195.96	33.55	-142.24	-23.05	0.00	0.00	0.00	
5,300.00	3.20	283.27	5,295.81	34.83	-147.67	-23.93	0.00	0.00	0.00	
5,400.00	3.20	283.27	5,395.65	36.11	-153.10	-24.81	0.00	0.00	0.00	
5,500.00	3.20	283.27	5,495.50	37.39	-158.53	-25.69	0.00	0.00	0.00	
5,600.00	3.20	283.27	5,595.34	38.67	-163.96	-26.56	0.00	0.00	0.00	
5,700.00	3.20	283.27	5,695.18	39.95	-169.39	-27.44	0.00	0.00	0.00	
5,800.00	3.20	283.27	5,795.03	41.23	-174.81	-28.32	0.00	0.00	0.00	
5,900.00	3.20	283.27	5,894.87	42.51	-180.24	-29.20	0.00	0.00	0.00	
6,000.00	3.20	283.27	5,994.72	43.79	-185.67	-30.08	0.00	0.00	0.00	
6,100.00	3.20	283.27	6,094.56	45.07	-191.10	-30.96	0.00	0.00	0.00	
6,200.00	3.20	283.27	6,194.41	46.35	-196.53	-31.84	0.00	0.00	0.00	
6,300.00	3.20	283.27	6,294.25	47.63	-201.96	-32.72	0.00	0.00	0.00	
6,400.00	3.20	283.27	6,394.09	48.91	-207.39	-33.60	0.00	0.00	0.00	
6,500.00	3.20	283.27	6,493.94	50.19	-212.82	-34.48	0.00	0.00	0.00	
6,600.00	3.20	283.27	6,593.78	51.47	-218.25	-35.36	0.00	0.00	0.00	
6,700.00	3.20	283.27	6,693.63	52.75	-223.68	-36.24	0.00	0.00	0.00	
6,800.00	3.20	283.27	6,793.47	54.03	-229.10	-37.12	0.00	0.00	0.00	
6,900.00	3.20	283.27	6,893.32	55.31	-234.53	-38.00	0.00	0.00	0.00	
7,000.00	3.20	283.27	6,993.16	56.59	-239.96	-38.88	0.00	0.00	0.00	
7,100.00	3.20	283.27	7,093.00	57.87	-245.39	-39.76	0.00	0.00	0.00	
7,200.00	3.20	283.27	7,192.85	59.15	-250.82	-40.64	0.00	0.00	0.00	
7,300.00	3.20	283.27	7,292.69	60.43	-256.25	-41.52	0.00	0.00	0.00	
7,400.00	3.20	283.27	7,392.54	61.71	-261.68	-42.40	0.00	0.00	0.00	
7,500.00	3.20	283.27	7,492.38	63.00	-267.11	-43.28	0.00	0.00	0.00	
7,600.00	3.20	283.27	7,592.23	64.28	-272.54	-44.16	0.00	0.00	0.00	
7,700.00	3.20	283.27	7,692.07	65.56	-277.96	-45.04	0.00	0.00	0.00	
7,800.00	3.20	283.27	7,791.91	66.84	-283.39	-45.92	0.00	0.00	0.00	
Start DLS 11.00 TFO -103.06										
7,802.52	3.20	283.27	7,794.43	66.87	-283.53	-45.94	0.00	0.00	0.00	
7,860.93	3.20	283.27	7,852.75	67.62	-286.70	-46.45	0.00	0.00	0.00	
7,900.00	4.74	221.22	7,891.74	66.65	-288.83	-45.33	11.00	3.95	-158.83	
8,000.00	14.90	192.00	7,990.19	50.92	-294.24	-29.25	11.00	10.16	-29.21	
8,100.00	25.75	186.68	8,083.83	16.67	-299.45	5.29	11.00	10.85	-5.33	
8,200.00	36.69	184.39	8,169.23	-34.85	-304.28	57.03	11.00	10.94	-2.29	
8,300.00	47.65	183.04	8,243.23	-101.74	-308.54	124.05	11.00	10.96	-1.35	
8,400.00	58.63	182.10	8,303.13	-181.55	-312.08	203.91	11.00	10.97	-0.94	
8,500.00	69.61	181.36	8,346.71	-271.34	-314.76	293.65	11.00	10.98	-0.74	
8,600.00	80.59	180.72	8,372.39	-367.81	-316.50	389.99	11.00	10.98	-0.64	
Start 3911.36 hold at 8649.88 MD										
8,649.88	86.07	180.41	8,378.19	-417.33	-316.99	439.41	11.00	10.98	-0.61	
8,700.00	91.57	180.11	8,379.22	-467.42	-317.22	489.39	11.00	10.98	-0.60	
7" - LP - MAMIE 4-25-3-3WH										
8,708.22	92.48	180.07	8,378.93	-475.64	-317.23	497.58	11.00	10.98	-0.60	
8,800.00	92.48	180.07	8,374.96	-567.33	-317.33	589.04	0.00	0.00	0.00	
8,900.00	92.48	180.07	8,370.64	-667.24	-317.45	688.68	0.00	0.00	0.00	
9,000.00	92.48	180.07	8,366.33	-767.15	-317.56	788.33	0.00	0.00	0.00	
9,100.00	92.48	180.07	8,362.01	-867.05	-317.68	887.98	0.00	0.00	0.00	
9,200.00	92.48	180.07	8,357.69	-966.96	-317.79	987.62	0.00	0.00	0.00	
9,300.00	92.48	180.07	8,353.37	-1,066.87	-317.90	1,087.27	0.00	0.00	0.00	
9,400.00	92.48	180.07	8,349.05	-1,166.77	-318.02	1,186.92	0.00	0.00	0.00	
9,500.00	92.48	180.07	8,344.73	-1,266.68	-318.13	1,286.57	0.00	0.00	0.00	



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MAMIE 4-25-3-3WH
Company:	NEWFIELD EXPLORATION CO.	TVD Reference:	KB @ 5254.30ft (PIONEER 62)
Project:	DUCHESNE COUNTY, UT	MD Reference:	KB @ 5254.30ft (PIONEER 62)
Site:	MAMIE 4-25-3-3WH	North Reference:	True
Well:	MAMIE 4-25-3-3WH	Survey Calculation Method:	Minimum Curvature
Wellbore:	MAMIE 4-25-3-3WH		
Design:	PLAN #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,600.00	92.48	180.07	8,340.41	-1,366.59	-318.24	1,386.21	0.00	0.00	0.00	
9,700.00	92.48	180.07	8,336.09	-1,466.49	-318.36	1,485.86	0.00	0.00	0.00	
9,800.00	92.48	180.07	8,331.77	-1,566.40	-318.47	1,585.51	0.00	0.00	0.00	
9,900.00	92.48	180.07	8,327.46	-1,666.31	-318.58	1,685.15	0.00	0.00	0.00	
10,000.00	92.48	180.07	8,323.14	-1,766.21	-318.70	1,784.80	0.00	0.00	0.00	
10,100.00	92.48	180.07	8,318.82	-1,866.12	-318.81	1,884.45	0.00	0.00	0.00	
10,200.00	92.48	180.07	8,314.50	-1,966.03	-318.92	1,984.09	0.00	0.00	0.00	
10,300.00	92.48	180.07	8,310.18	-2,065.93	-319.04	2,083.74	0.00	0.00	0.00	
10,400.00	92.48	180.07	8,305.86	-2,165.84	-319.15	2,183.39	0.00	0.00	0.00	
10,500.00	92.48	180.07	8,301.54	-2,265.75	-319.27	2,283.04	0.00	0.00	0.00	
10,600.00	92.48	180.07	8,297.22	-2,365.65	-319.38	2,382.68	0.00	0.00	0.00	
10,700.00	92.48	180.07	8,292.90	-2,465.56	-319.49	2,482.33	0.00	0.00	0.00	
10,800.00	92.48	180.07	8,288.59	-2,565.47	-319.61	2,581.98	0.00	0.00	0.00	
10,900.00	92.48	180.07	8,284.27	-2,665.37	-319.72	2,681.62	0.00	0.00	0.00	
11,000.00	92.48	180.07	8,279.95	-2,765.28	-319.83	2,781.27	0.00	0.00	0.00	
11,100.00	92.48	180.07	8,275.63	-2,865.19	-319.95	2,880.92	0.00	0.00	0.00	
11,200.00	92.48	180.07	8,271.31	-2,965.10	-320.06	2,980.56	0.00	0.00	0.00	
11,300.00	92.48	180.07	8,266.99	-3,065.00	-320.17	3,080.21	0.00	0.00	0.00	
11,400.00	92.48	180.07	8,262.67	-3,164.91	-320.29	3,179.86	0.00	0.00	0.00	
11,500.00	92.48	180.07	8,258.35	-3,264.81	-320.40	3,279.51	0.00	0.00	0.00	
11,600.00	92.48	180.07	8,254.03	-3,364.72	-320.51	3,379.15	0.00	0.00	0.00	
11,700.00	92.48	180.07	8,249.72	-3,464.63	-320.63	3,478.80	0.00	0.00	0.00	
11,800.00	92.48	180.07	8,245.40	-3,564.53	-320.74	3,578.45	0.00	0.00	0.00	
11,900.00	92.48	180.07	8,241.08	-3,664.44	-320.86	3,678.09	0.00	0.00	0.00	
12,000.00	92.48	180.07	8,236.76	-3,764.35	-320.97	3,777.74	0.00	0.00	0.00	
12,100.00	92.48	180.07	8,232.44	-3,864.25	-321.08	3,877.39	0.00	0.00	0.00	
12,200.00	92.48	180.07	8,228.12	-3,964.16	-321.20	3,977.03	0.00	0.00	0.00	
12,300.00	92.48	180.07	8,223.80	-4,064.07	-321.31	4,076.68	0.00	0.00	0.00	
12,400.00	92.48	180.07	8,219.48	-4,163.97	-321.42	4,176.33	0.00	0.00	0.00	
12,500.00	92.48	180.07	8,215.16	-4,263.88	-321.54	4,275.98	0.00	0.00	0.00	
TD at 12561.24										
12,561.24	92.48	180.07	8,212.52	-4,325.06	-321.61	4,337.00	0.00	0.00	0.00	
12,600.00	92.48	180.07	8,210.85	-4,363.78	-321.65	4,375.62	0.00	0.00	0.00	
PBHL - MAMIE 4-25-3-3WH										
12,619.58	92.48	180.07	8,210.00	-4,383.35	-321.67	4,395.14	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
PBHL - MAMIE 4-25-3-3 - hit/miss target - Shape - Point	0.00	0.00	8,210.00	-4,383.35	-321.67	7,239,772.75	2,009,726.40	40° 11' 15.210 N	110° 10' 40.885 W	
LP - MAMIE 4-25-3-3WH - plan hits target center - Point	0.00	0.00	8,378.93	-475.64	-317.23	7,243,680.09	2,009,673.03	40° 11' 53.829 N	110° 10' 40.828 W	



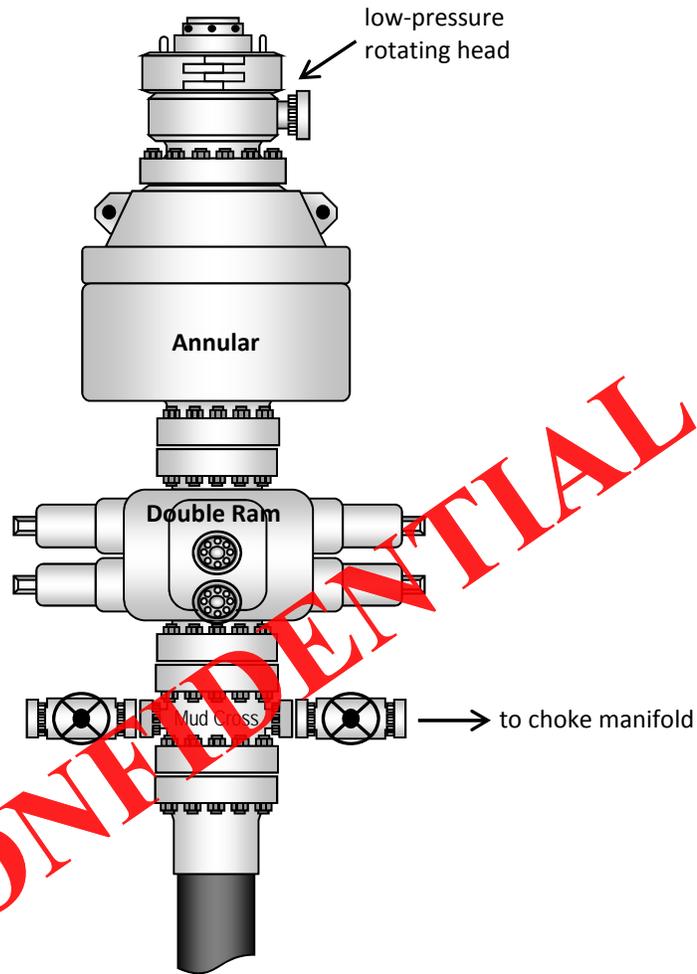
Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MAMIE 4-25-3-3WH
Company:	NEWFIELD EXPLORATION CO.	TVD Reference:	KB @ 5254.30ft (PIONEER 62)
Project:	DUCHESNE COUNTY, UT	MD Reference:	KB @ 5254.30ft (PIONEER 62)
Site:	MAMIE 4-25-3-3WH	North Reference:	True
Well:	MAMIE 4-25-3-3WH	Survey Calculation Method:	Minimum Curvature
Wellbore:	MAMIE 4-25-3-3WH		
Design:	PLAN #1		

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
8,708.22	8,378.93	7"	7	8-3/4

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,500.00	2,500.00	0.00	0.00	Start Build 2.00
2,661.53	2,661.44	1.05	-4.43	Start 5140.95 hold at 2,661.53 MD
7,802.52	7,794.26	67.61	-286.39	Start DLS 11.00 CFO -103.06
8,649.88	8,320.49	-475.64	-317.23	Start 391.36 hold at 8649.88 MD
12,561.24	8,151.57	-4,383.35	-321.67	TD at 12561.24

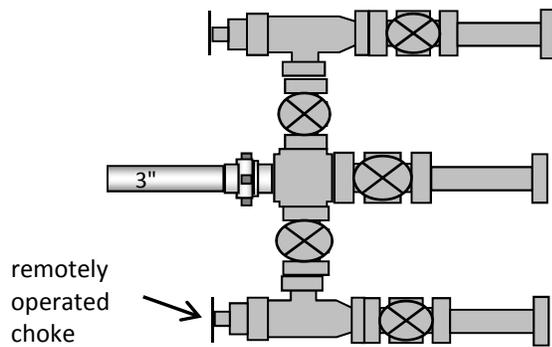
CONFIDENTIAL

Typical 5M BOP stack configuration



CONFIDENTIAL

Typical 5M choke manifold configuration



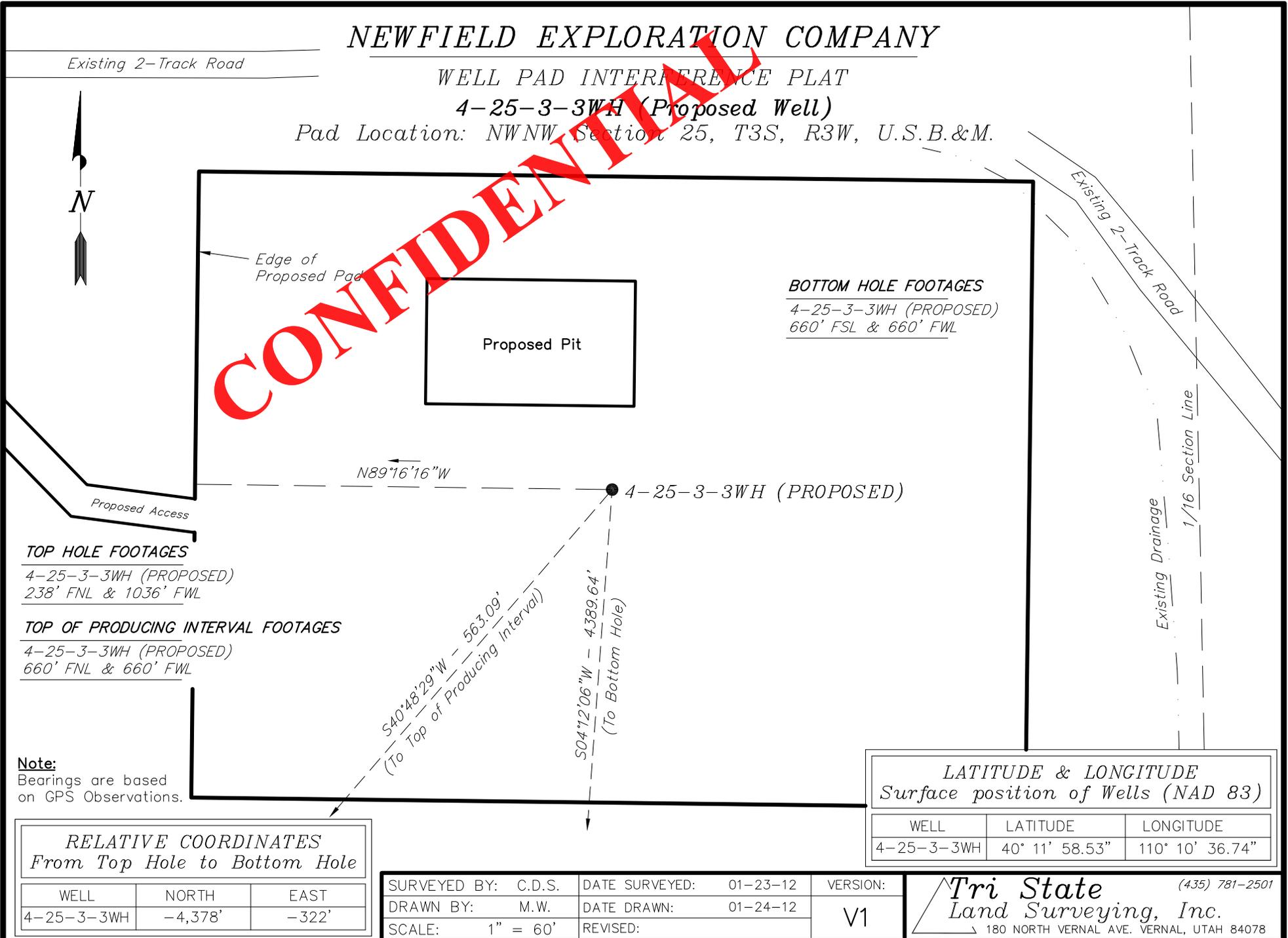
NEWFIELD EXPLORATION COMPANY

WELL PAD INTERFERENCE PLAT

4-25-3-3WH (Proposed Well)

Pad Location: NWNW Section 25, T3S, R3W, U.S.B.&M.

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BOTTOM HOLE FOOTAGES
 4-25-3-3WH (PROPOSED)
 660' FSL & 660' FWL

TOP HOLE FOOTAGES
 4-25-3-3WH (PROPOSED)
 238' FNL & 1036' FWL

TOP OF PRODUCING INTERVAL FOOTAGES
 4-25-3-3WH (PROPOSED)
 660' FNL & 660' FWL

Note:
 Bearings are based on GPS Observations.

RELATIVE COORDINATES
 From Top Hole to Bottom Hole

WELL	NORTH	EAST
4-25-3-3WH	-4,378'	-322'

LATITUDE & LONGITUDE
 Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
4-25-3-3WH	40° 11' 58.53"	110° 10' 36.74"

SURVEYED BY: C.D.S.	DATE SURVEYED: 01-23-12	VERSION:
DRAWN BY: M.W.	DATE DRAWN: 01-24-12	V1
SCALE: 1" = 60'	REVISED:	

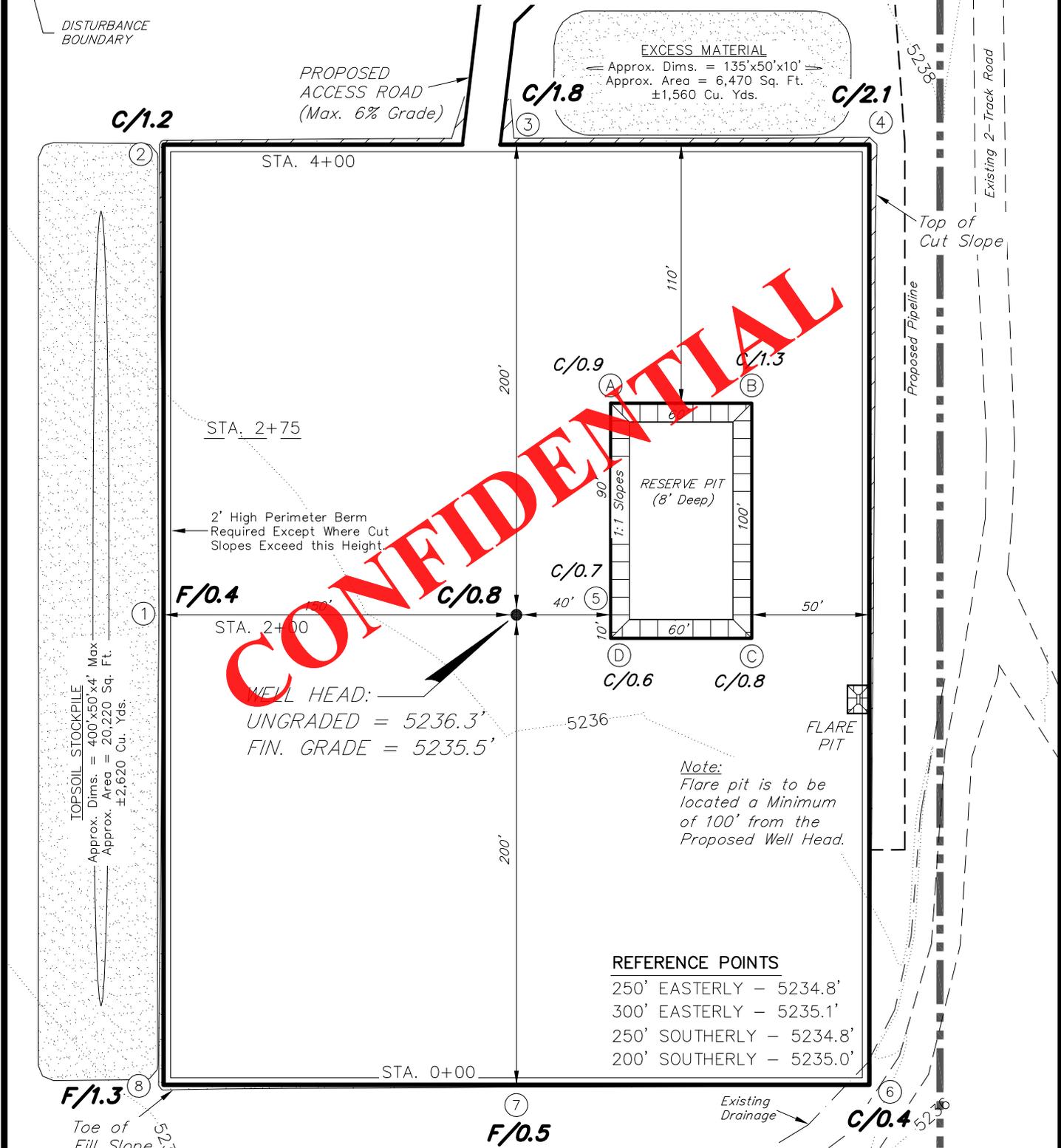
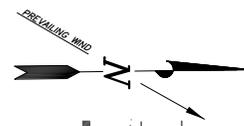
Tri State (435) 781-2501
 Land Surveying, Inc.
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD EXPLORATION COMPANY

PROPOSED LOCATION LAYOUT

4-25-3-3WH

Pad Location: NWNW Section 25, T3S, R3W, U.S.B.&M.



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Note:
 Flare pit is to be located a Minimum of 100' from the Proposed Well Head.

NOTE:
 The topsoil & excess material areas are calculated as being mounds containing 4,180 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:
 Topsoil to be Stripped From All New Construction Areas and Proposed Stock Pile Locations

SURVEYED BY: C.D.S.	DATE SURVEYED: 01-23-12	VERSION: V1
DRAWN BY: M.W.	DATE DRAWN: 01-24-12	
SCALE: 1" = 60'	REVISED:	

(435) 781-2501

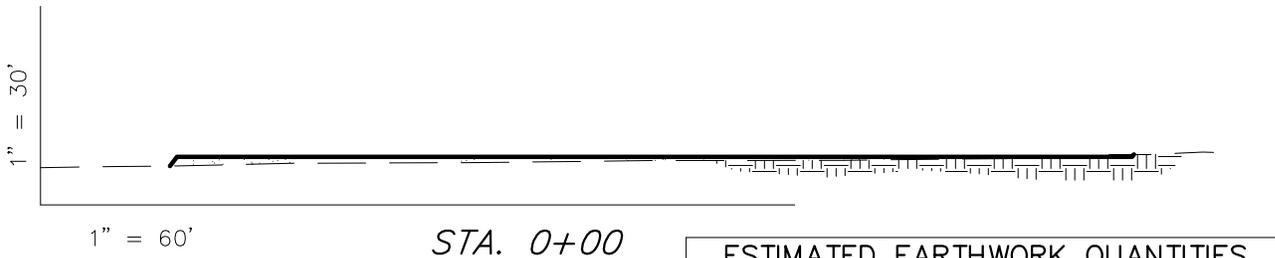
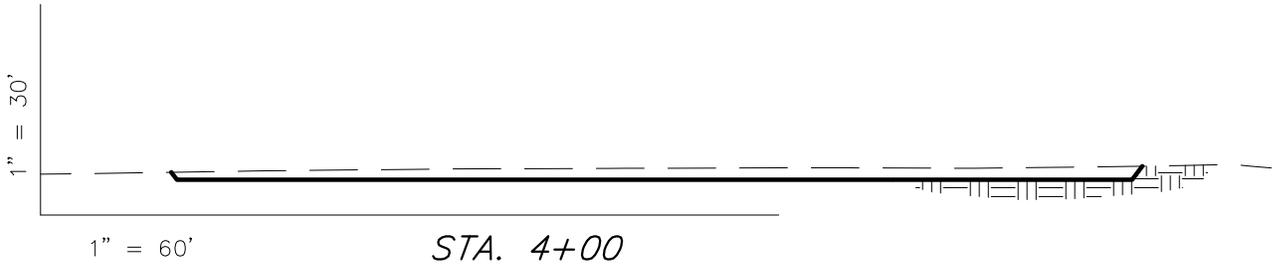
Tri State
 Land Surveying, Inc.
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS

4-25-3-3WH

Pad Location: NWNW Section 25, T3S, R3W, U.S.B.&M.



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ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	1,470	1,470	Topsoil is not included in Pad Cut Volume	0
PIT	1,420	0		1,420
TOTALS	2,890	1,470	2,380	1,420

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

SURVEYED BY: C.D.S.	DATE SURVEYED: 01-23-12	VERSION:
DRAWN BY: M.W.	DATE DRAWN: 01-24-12	V1
SCALE: 1" = 60'	REVISED:	

(435) 781-2501

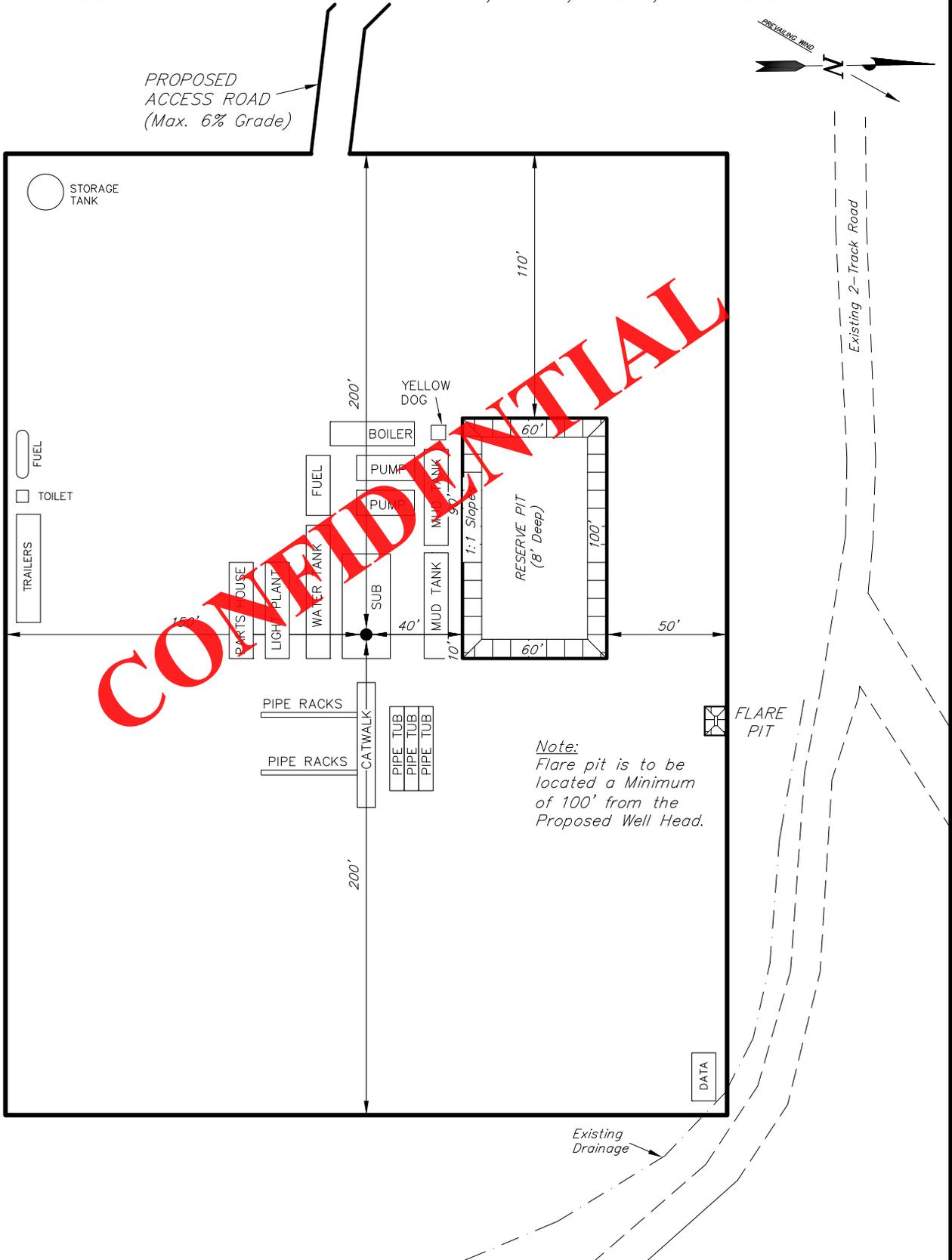
Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT

4-25-3-3WH

Pad Location: NWNW Section 25, T3S, R3W, U.S.B.&M.



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Note:
Flare pit is to be located a Minimum of 100' from the Proposed Well Head.

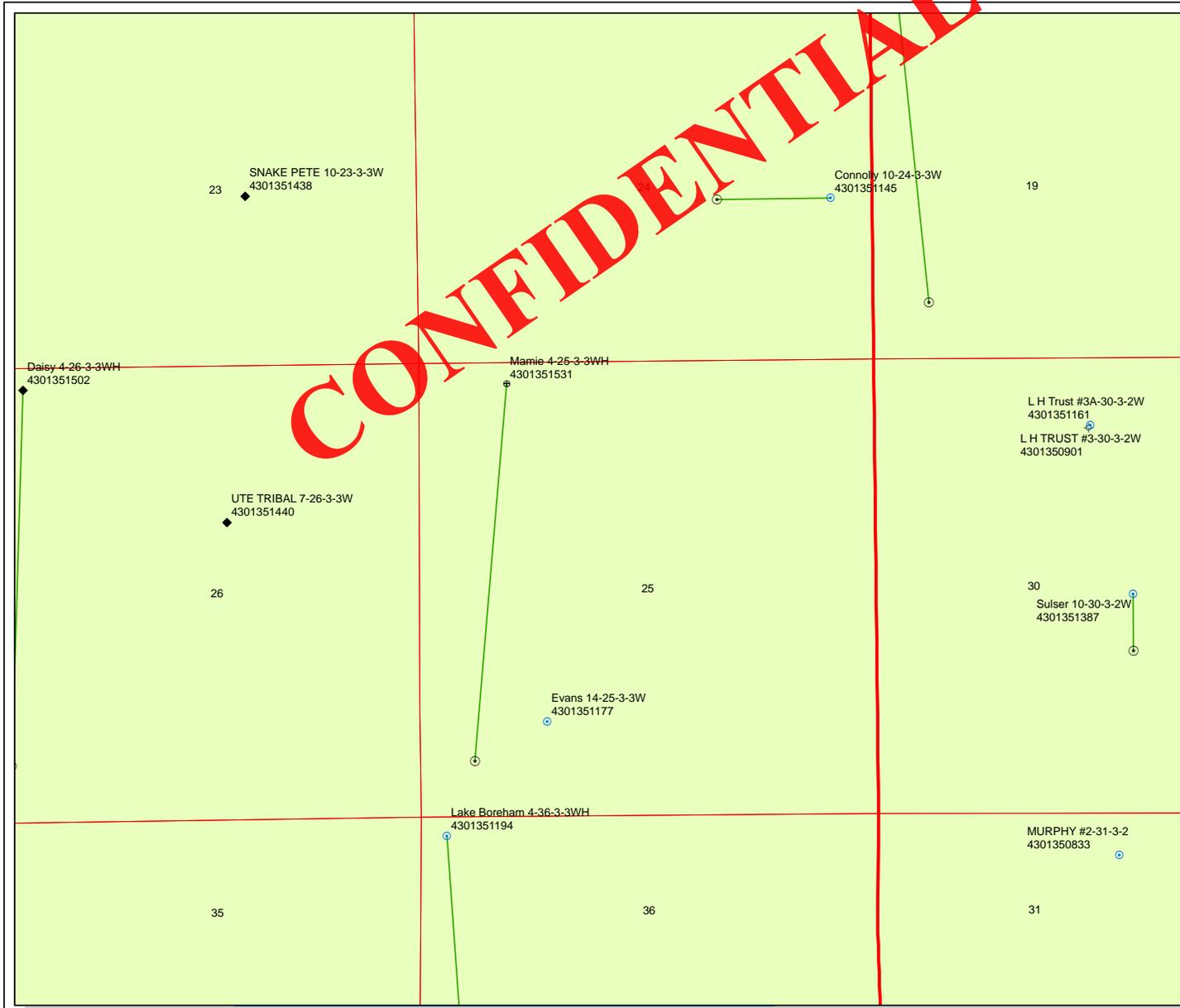
SURVEYED BY: C.D.S.	DATE SURVEYED: 01-23-12	VERSION:
DRAWN BY: M.W.	DATE DRAWN: 01-24-12	V1
SCALE: 1" = 60'	REVISED:	

(435) 781-2501

Tri State
Land Surveying, Inc.

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

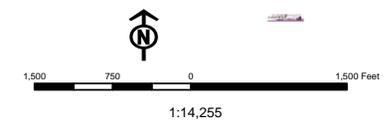
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API Number: 4301351531
Well Name: Mamie 4-25-3-3WH
Township T03.0S Range R03.0W Section 25
Meridian: UBM
 Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
 Map Produced by Diana Mason

Units Status	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	LOC - New Location
P1 OIL	OPS - Operation Suspended
PP GAS	PA - Plugged Abandoned
PP GEOTHERMAL	PGW - Producing Gas Well
PP OIL	POW - Producing Oil Well
SECONDARY	SGW - Shut-in Gas Well
TERMINATED	SOW - Shut-in Oil Well
Fields Status	TA - Temp. Abandoned
Unknown	TW - Test Well
ABANDONED	WDW - Water Disposal
ACTIVE	WW - Water Injection Well
COMBINED	WSW - Water Supply Well
INACTIVE	Bottom Hole Location - Oil/Gas/DB
STORAGE	
TERMINATED	





August 15, 2012

State of Utah
Division of Oil, Gas & Mining
ATTN: Brad Hill
P O Box 145801
Salt Lake City, UT 84114

RE: **Mamie 4-25-3-3WH**
Section 25, T3S, R3W
Duchesne County, Utah

Dear Brad,

Newfield Production Company proposes to drill the Mamie 4-25-3-3WH from a surface location of 238' FNL & 1036' FWL of Section 25, T3S, R3W. Newfield shall case and cement the Mamie 4-25-3-3WH wellbore from the surface location to the point where the wellbore reaches the legal setback of 660' FNL & 660' FWL of Section 25, T3S, R3W. The cased and cemented portion of the wellbore shall not be perforated nor produced. Newfield is the owner of 98.85% working interest in the northern offset drilling and spacing unit (Section 24, T3S-R3W) in which Newfield is the operator of the Connolly 10-24-3-2W. In the event a future recompletion into the cased and cemented portion of the wellbore is proposed, Newfield shall file the appropriate application with the State.

The proposed horizontal lateral of the Mamie 4-25-3-3WH shall be drilled from north to south along the 660' FWL of Section 25 legal setback to a bottom hole location 660' FWL & 660' FSL of Section 25 and inasmuch, portions of the wellbore will be closer than 1320' from the existing Evans 14-25-3-3W wellbore. Please be advised that the Evans 14-25-3-3W has not been, and shall not be completed in the Uteland Butte, and the Mamie 4-25-3-3WH shall only be completed in the Uteland Butte. In the event the horizontal lateral drifts west, Newfield will attempt to acquire consent from all owners in Section 26 in which Newfield and its partners own 97.44% of the working interest.

Due to these circumstances, Newfield respectfully requests that DOGM administratively grant an exception location for the Mamie 4-25-3-3WH.

If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-383-4197 or by email at sgillespie@newfield.com. Your consideration of this matter is greatly appreciated.

Sincerely,

A handwritten signature in blue ink, appearing to read "Shane Gillespie", is written over the word "Sincerely,".

Shane Gillespie
Landman

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/2/2012

API NO. ASSIGNED: 43013515310000

WELL NAME: Mamie 4-25-3-3WH

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 719-2018

CONTACT: Don Hamilton

PROPOSED LOCATION: NWNW 25 030S 030W

Permit Tech Review:

SURFACE: 0238 FNL 1036 FWL

Engineering Review:

BOTTOM: 0660 FSL 0660 FWL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.19958

LONGITUDE: -110.17689

UTM SURF EASTINGS: 570056.00

NORTHINGS: 4450234.00

FIELD NAME: WILDCAT

LEASE TYPE: 2 - Indian

LEASE NUMBER: 14-20-H62-6191

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: INDIAN - RLB00100473
- 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:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 139-90
- Effective Date: 5/9/2012
- Siting: (4) Producing Grrv-Wstc Wells in Sec Drl Unit
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhll
4 - Federal Approval - dmason
27 - Other - 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: Mamie 4-25-3-3WH
API Well Number: 43013515310000
Lease Number: 14-20-H62-6191
Surface Owner: INDIAN
Approval Date: 8/27/2012

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 139-90. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:

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

General:

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

Conditions of Approval:

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

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

Notification Requirements:

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

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

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

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

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

Approved By:



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: 14-20-H62-6191
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: Ute In 7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: MAMIE 4-25-3-3WH
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013515310000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext
9. FIELD and POOL or WILDCAT: WILDCAT	4. LOCATION OF WELL FOOTAGES AT SURFACE: 0238 FNL 1036 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 25 Township: 03.0S Range: 03.0W Meridian: U
	COUNTY: DUCHESNE STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/15/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

Newfield production Company respectfully submits this sundry to amend the previously approved Mamie 4-25-3-3WH to utilize OBM during the drilling process and also shorten the surface casing to 2,500 feet. No changes to the approved surface location, pad layout or access and pipeline corridors have occurred and surface use remains in place. Attached please find an updated drilling plan reflecting the changes.

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

Date: April 25, 2013

By: Don Hamilton

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent
SIGNATURE N/A	DATE 4/24/2013	

Newfield Production Company**4-25-3-3WH****Surface Hole Location: 238' FNL, 1036' FWL, Section 25, T3S, R3W****Bottom Hole Location: 660' FSL, 660' FWL, Section 25, T3S, R3W****Duchesne County, UT****Drilling Program****1. Formation Tops**

Uinta	surface
Green River	3,165'
Garden Gulch member	5,969'
Uteland Butte	8,473'
Lateral TD	8,210' TVD / 12,620' MD

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

Base of moderately saline	454' TVD	(water)
Green River	5,969' - 8,210' TVD	(oil)

3. Pressure ControlSection BOP Description

Surface 12-1/4" diverter

Interm/Prod 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 5M system.

A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 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
Conductor 14	0'	60'	37	H-40	Weld	--	--	--	--	--	--
Surface 9 5/8	0'	3,000'	36	J-55	LTC	8.33	8.33	13	3,520	2,020	453,000
Intermediate 7	0'	8,708' 8,379'	26	P-110	BTC	12	12.5	15	9,960	6,210	830,000
Production 4 1/2	7,811'	8,210' 12,620'	13.5	P-110	BTC	12	12.5	--	12,410	10,670	422,000
									2.88	2.36	6.50

Assumptions:

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

Intermediate casing MASP = (reservoir pressure) - (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			
Conductor	17 1/2	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	41	15%	15.8	1.17
				35			
Surface Lead	12 1/4	2,000'	Varicem + .125 lbs/sk Cello Flakes	720	15%	11.0	3.33
				216			
Surface Tail	12 1/4	1,000'	Varicem + .125 lbs/sk Cello Flakes	360	15%	13.0	1.9
				190			
Intermediate Lead	8 3/4	4,969'	Extendacem + .125 lbs/sk Cello Flakes	859	15%	11.5	2.59
				332			
Intermediate Tail	8 3/4	2,410'	Econocem + .125 lbs/sk Cello Flakes	417	15%	13.0	1.62
				257			
Production	6 1/8	--	Liner will not be cemented. It will be isolated with a liner top packer.	--	--	--	--
				--			

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.

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

The cement slurries will be adjusted for hole conditions and blend test results.

The production liner will be left uncemented. Individual frac stages will be isolated with open hole packers. A liner top hanger and packer will be installed 50' above KOP.

6. Type and Characteristics of Proposed Circulating Medium

Interval

Description

Surface - 3,000'

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.

3,000' - TD

One of two possible mud systems may be used depending on offset well performance on ongoing wells:
A water based mud: 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.

-or-

A diesel based OBM system: with an oil to water ratio between 70/30 and 80/20. Emulsifiers and wetting agents will be used to maintain adequate mud properties. A water phase salinity will be maintained in the range of 25% using CaCl (Calcium Chloride).

Anticipated maximum mud weight is 12.5 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run in the intermediate section from the top of the curve to the base of the surface casing. A compensated neutron/formation density log will be run in the intermediate section from the top of the curve to the top of the Garden Gulch formation. A cement bond log will be run from the top of the curve to the cement top behind the intermediate 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 0.62 psi/ft gradient.

$$8,210' \times 0.62 \text{ psi/ft} = 5123 \text{ psi}$$

No abnormal temperature is expected. No H₂S is expected.

9. Other Aspects

An 8-3/4" hole will be drilled to a kick off point of 7,861' .

Directional tools will then be used to build to 92.48 degrees inclination.

The lateral will be drilled to the bottomhole location shown on the plat.

A liner with a system of open hole packers will be used to provide multi-stage frac isolation in the lateral. The top of the liner will be place 50' above KOP and will be isolated with a liner top packer. In the event that the 7" casing is set outside the lease line setback, the upper most packer and frac sleeve will be installed inside the lease line setback back at ~8660' MD or deeper (660' FWL and 660' FNL).

Newfield requests the following variances from Onshore Order #2:

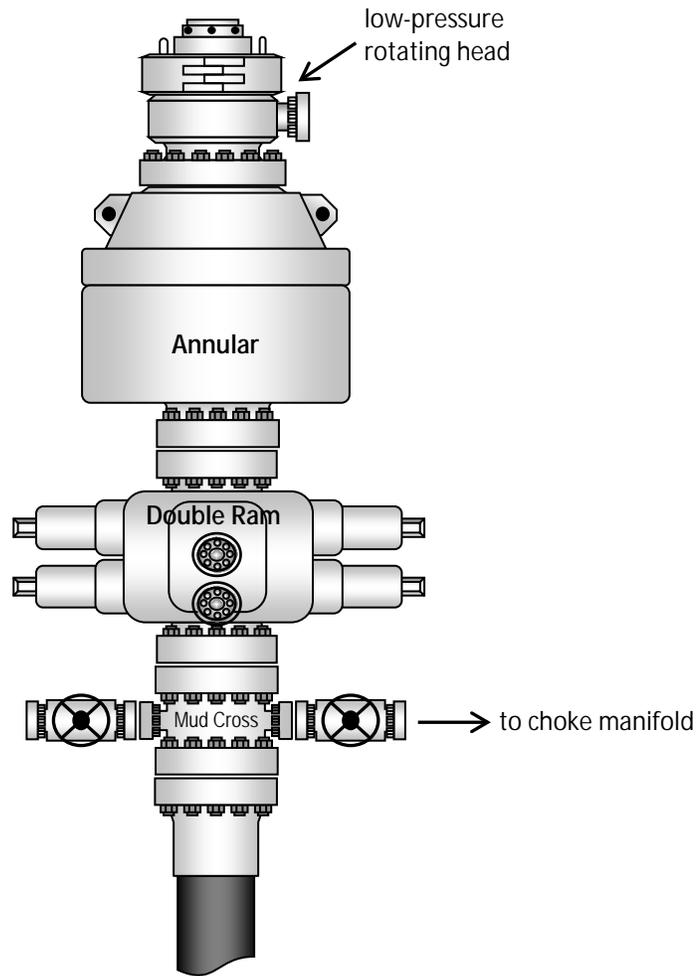
- Variance from Onshoer Order #2, III.E.1

Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

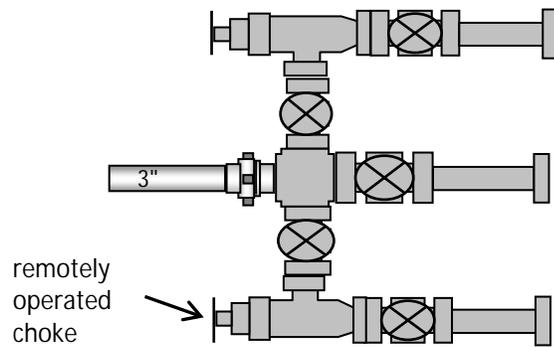
If oil based mud (OBM) is used, all processed OBM drill cuttings would be removed from the well bore using a closed loop system. OBM cuttings would be dried and centrifuged and then

temporarily stored within a lined pit that would be constructed inboard of the pad area. The pit would be lined with 16 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit, and a minimum of two feet of free board would be maintained between the maximum fluid level and the top of the pit at all times. All OBM cuttings will be mechanically dried and centrifuged so that they can be easily transferred to a lined cuttings pit with little to no free fluid on them. Samples of the mechanically dried OBM cuttings will be taken for chemical analysis. The OBM cuttings will then be mixed with a chemical drying agent and the chemically dried OBM cuttings will be placed in a lined cuttings pit on the generating location that is separated from the water based cuttings. The pit will be of sufficient size to contain all cuttings generated in the drilling process. At this point, the chemically dried OBM cuttings are ready for the Firmus® construction process or the OBM cuttings may also be transported to a state approved disposal facility. If an oil based mud is not used, a conventional reserve pit will be utilized. The pit will be reclaimed using UDOGM and BLM approved procedures.

Typical 5M BOP stack configuration



Typical 5M choke manifold configuration



RECEIVED

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUL 02 2012

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

CONFIDENTIAL

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 1420H626191
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator NEWFIELD PRODUCTION COMPANY Contact: DON S HAMILTON Email: starpoint@etv.net		7. If Unit or CA Agreement, Name and No.
3a. Address ROUTE 3 BOX 3630 MYTON, UT 84052	3b. Phone No. (include area code) Ph: 435-719-2018 Fx: 435-719-2019	8. Lease Name and Well No. MAMIE 4-25-3-3WH
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNW 238FNL 1036FWL 40.199592 N Lat, 110.176872 W Lon At proposed prod. zone SWSW 660FSL 660FWL		9. API Well No. 43-013-51531
14. Distance in miles and direction from nearest town or post office* 7.9 MILES WEST OF ROOSEVELT, UTAH	15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 226	10. Field and Pool, or Exploratory N/A
16. No. of Acres in Lease 160.00	17. Spacing Unit dedicated to this well 40.00	11. Sec., T., R., M., or Blk. and Survey or Area Sec 25 T3S R3W Mer UBM
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 0	19. Proposed Depth 12620 MD 8210 TVD	12. County or Parish DUCHESNE
20. BLM/BIA Bond No. on file RLB00100473	21. Elevations (Show whether DF, KB, RT, GL, etc.) 5236 GL	13. State UT
22. Approximate date work will start 09/01/2012	23. Estimated duration 60 DAYS	

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) DON S HAMILTON Ph: 435-719-2018	Date 06/30/2012
Title PERMITTING AGENT		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date APR 23 2013
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

CONDITIONS OF APPROVAL ATTACHED

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

Additional Operator Remarks (see next page)

Electronic Submission #141988 verified by the BLM Well Information System
For NEWFIELD PRODUCTION COMPANY, sent to the Vernal
Committed to AFMSS for processing by LESLIE ROBINSON on 07/05/2012 ()

NOTICE OF APPROVAL

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

12PRH2373A NOS-4/20/12



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Newfield Production Company
Well No: Mamie 4-25-3-3WH
API No: 43-013-51531

Location: NWNW, Sec. 25, T3S, R3W
Lease No: 14-20-H62-6191
Agreement:

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

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

Newfield will comply with:

- All Applicant-Committed Environmental Protection Measures (ACEPMs) listed in Section 2.1.8 of Environmental Assessment No. U&O-FY13_Q1-020.
- All ACEPMs on page 5 of the Final Biological Opinion for Newfield Exploration Company and Ute Energy, LLC's proposed Rocky Point Exploration and Development (Rocky Point BO) dated March 20, 2012.
- All terms and conditions of the Rocky Point BO and
- Any and all additional terms or stipulations attached to BIA ROW Serial No. H62-2013-270 and BIA ROW Serial No. H62-2013-271.

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

SITE SPECIFIC DOWNHOLE COAs:

- Gamma Ray Log shall be run from Total Depth to Surface.
- Surface casing cement will be circulated to surface.

Variations Granted

Air Drilling

- Dust suppression equipment. Variance granted for water mist system to substitute for the dust suppression equipment.
- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 75' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors.
- Straight run blooie line. Variance granted for targeted "T's" bends.
- Automatic igniter. Variance granted for igniter due to water mist.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

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

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-6191
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: Ute In 7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: MAMIE 4-25-3-3WH
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013515310000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext
9. FIELD and POOL or WILDCAT: WILDCAT	4. LOCATION OF WELL FOOTAGES AT SURFACE: 0238 FNL 1036 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 25 Township: 03.0S Range: 03.0W Meridian: U
COUNTY: DUCHESNE	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/15/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>

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

Newfield Production Company respectfully requests changes to the previously approved drilling plans for the referenced well to include 9-5/8 surface casing increasing to 3,000 feet, elimination of the pilot hole and plug back, and option to utilize OBM. Attached please find an updated drilling plan.

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

Date: May 22, 2013

By: Don K. Quist

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent
SIGNATURE N/A	DATE 5/1/2013	

Newfield Production Company**4-25-3-3WH****Surface Hole Location: 238' FNL, 1036' FWL, Section 25, T3S, R3W****Bottom Hole Location: 660' FSL, 660' FWL, Section 25, T3S, R3W****Duchesne County, UT****Drilling Program****1. Formation Tops**

Uinta	surface
Green River	3,165'
Garden Gulch member	5,969'
Uteland Butte	8,473'
Lateral TD	8,210' TVD / 12,620' MD

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

Base of moderately saline	454' TVD	(water)
Green River	5,969' - 8,210' TVD	(oil)

3. Pressure Control**Section BOP Description**

Surface 12-1/4" diverter

Interm/Prod 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 5M system.

A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 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
Conductor 14	0'	60'	37	H-40	Weld	--	--	--	--	--	--
Surface 9 5/8	0'	3,000'	36	J-55	LTC	8.33	8.33	13	3,520	2,020	453,000
Intermediate 7	0'	8,708' 8,379'	26	P-110	BTC	12	12.5	15	9,960	6,210	830,000
Production 4 1/2	7,811'	8,210' 12,620'	13.5	P-110	BTC	12	12.5	--	12,410	10,670	422,000
									2.88	2.36	6.50

Assumptions:

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

Intermediate casing MASP = (reservoir pressure) - (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			
Conductor	17 1/2	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	41	15%	15.8	1.17
				35			
Surface Lead	12 1/4	2,000'	Varicem + .125 lbs/sk Cello Flakes	720	15%	11.0	3.33
				216			
Surface Tail	12 1/4	1,000'	Varicem + .125 lbs/sk Cello Flakes	360	15%	13.0	1.9
				190			
Intermediate Lead	8 3/4	4,969'	Extendacem + .125 lbs/sk Cello Flakes	859	15%	11.5	2.59
				332			
Intermediate Tail	8 3/4	2,410'	Econocem + .125 lbs/sk Cello Flakes	417	15%	13.0	1.62
				257			
Production	6 1/8	--	Liner will not be cemented. It will be isolated with a liner top packer.	--	--	--	--
				--			

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.

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

The cement slurries will be adjusted for hole conditions and blend test results.

The production liner will be left uncemented. Individual frac stages will be isolated with open hole packers. A liner top hanger and packer will be installed 50' above KOP.

6. Type and Characteristics of Proposed Circulating Medium

Interval

Description

Surface - 3,000'

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.

3,000' - TD

One of two possible mud systems may be used depending on offset well performance on ongoing wells:

A water based mud: 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.

-or-

A diesel based OBM system: with an oil to water ratio between 70/30 and 80/20. Emulsifiers and wetting agents will be used to maintain adequate mud properties. A water phase salinity will be maintained in the range of 25% using CaCl (Calcium Chloride).

Anticipated maximum mud weight is 12.5 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run in the intermediate section from the top of the curve to the base of the surface casing. A compensated neutron/formation density log will be run in the intermediate section from the top of the curve to the top of the Garden Gulch formation. A cement bond log will be run from the top of the curve to the cement top behind the intermediate 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 0.62 psi/ft gradient.

$$8,210' \times 0.62 \text{ psi/ft} = 5123 \text{ psi}$$

No abnormal temperature is expected. No H₂S is expected.

9. Other Aspects

An 8-3/4" hole will be drilled to a kick off point of 7,861' .

Directional tools will then be used to build to 92.48 degrees inclination.

The lateral will be drilled to the bottomhole location shown on the plat.

A liner with a system of open hole packers will be used to provide multi-stage frac isolation in the lateral. The top of the liner will be place 50' above KOP and will be isolated with a liner top packer. In the event that the 7" casing is set outside the lease line setback, the upper most packer and frac sleeve will be installed inside the lease line setback back at ~8660' MD or deeper (660' FWL and 660' FNL).

Newfield requests the following variances from Onshore Order #2:

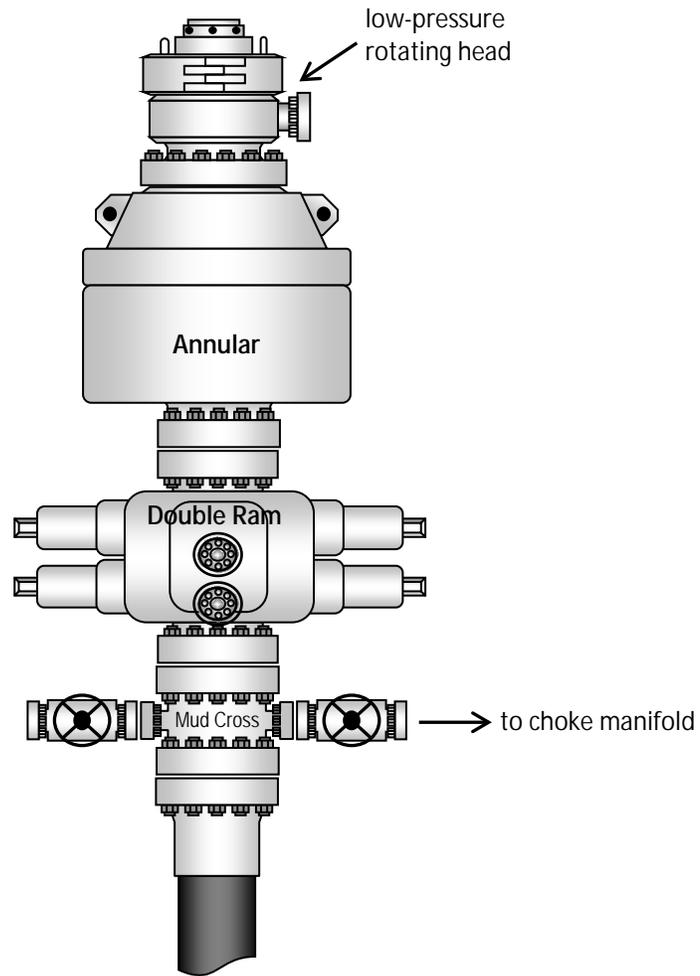
- Variance from Onshoer Order #2, III.E.1

Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

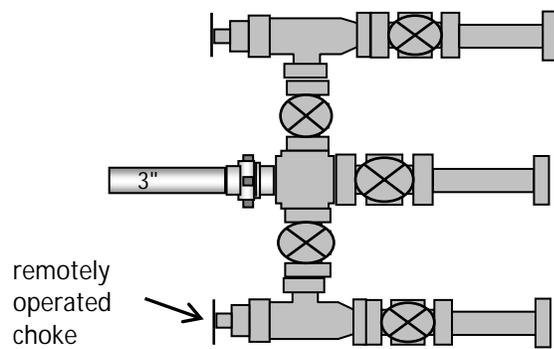
If oil based mud (OBM) is used, all processed OBM drill cuttings would be removed from the well bore using a closed loop system. OBM cuttings would be dried and centrifuged and then

temporarily stored within a lined pit that would be constructed inboard of the pad area. The pit would be lined with 16 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit, and a minimum of two feet of free board would be maintained between the maximum fluid level and the top of the pit at all times. All OBM cuttings will be mechanically dried and centrifuged so that they can be easily transferred to a lined cuttings pit with little to no free fluid on them. Samples of the mechanically dried OBM cuttings will be taken for chemical analysis. The OBM cuttings will then be mixed with a chemical drying agent and the chemically dried OBM cuttings will be placed in a lined cuttings pit on the generating location that is separated from the water based cuttings. The pit will be of sufficient size to contain all cuttings generated in the drilling process. At this point, the chemically dried OBM cuttings are ready for the Firmus® construction process or the OBM cuttings may also be transported to a state approved disposal facility. If an oil based mud is not used, a conventional reserve pit will be utilized. The pit will be reclaimed using UDOGM and BLM approved procedures.

Typical 5M BOP stack configuration



Typical 5M choke manifold configuration



BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pete Martin Rig #16
Submitted By Kylan Cook Phone Number 435-790-8236
Well Name/Number MAMIE 4-25-3-3WH
Qtr/Qtr NW/NW Section 25 Township 3S Range 3W
Lease Serial Number 14-20-H62-6191
API Number 43013515310000

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

Date/Time 05/29/2013 13:00 AM PM

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

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

Date/Time _____ AM PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test
- Other

Date/Time _____ AM PM

Remarks _____

RECEIVED
MAY 28 2013
DIV. OF OIL, GAS & MINING

RECEIVED
MAY 28 2013
DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-6191
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: MAMIE 4-25-3-3WH
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		9. API NUMBER: 43013515310000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext	9. FIELD and POOL or WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0238 FNL 1036 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 25 Township: 03.0S Range: 03.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 5/29/2013 <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>Pete Martin Rig #16 spudded 20" hole on 05/29/2013. Hole falling in with wet sand while drilling. Filled hole with 12.0 PPG fresh water mud. Hole still falling in while filled with drilling mud. Was able to get down to 30' GL and hit clay. Reamed 20" hole out to 36" and ran 30" pipe to 30' GL. Cemented to surface with Pro Petro Cementers on 05/30/2013. Cement Job: Pumped 27 bbls fresh water flush ahead of cement. Mixed and pumped 200 sacks (40 bbls) of Premium Class G Cement with 2% CaCl₂, and 1/4 lb/sk flocele. Mixed cement @ 15.8 ppg with yield of 1.15 cf/sk. Displaced cement with 18 bbls fresh water. 20 bbls cement to surface. Shut in well after pumping stopped. Hole stood full after pumping stopped. Letcementset. 05/31/2013: Drilled out from 30" pipe with 20" hole from 30' GL down to 60' GL. Set 14", 36.75# (0.250" wall), A52A conductor pipe at 60' GL and cemented to surface with Pro Pet</p>		<p>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 10, 2013</p>
NAME (PLEASE PRINT) Cherei Neilson	PHONE NUMBER 435 646-4883	TITLE Drilling Technician
SIGNATURE N/A		DATE 6/4/2013

Casing / Liner Detail

Well	Mamie 4-25-3-3WH
Prospect	Central Basin
Foreman	
Run Date:	5/31/2013
String Type	Conductor, 14", 36.75#, A52A, W (Welded)

- Detail From Top To Bottom -

Depth	Length	JTS	Description	OD	ID
0.00	60.00	2	14" Conductor Pipe	14.000	13.500
60.00			-		

Cement Detail

Cement Company: Other					
Slurry	# of Sacks	Weight (ppg)	Yield	Volume (ft ³)	Description - Slurry Class and Additives
Slurry 1	342	15.8	1.15	393.3	Premium Class G Cement with 2% CaCl ₂ , and 1/4 lb/sk flocele.
Stab-In-Job?		No		Cement To Surface?	
BHT:		0		Est. Top of Cement:	
Initial Circulation Pressure:		100		Plugs Bumped?	
Initial Circulation Rate:		3.5		Pressure Plugs Bumped:	
Final Circulation Pressure:		100		Floats Holding?	
Final Circulation Rate:		3.5		Casing Stuck On / Off Bottom?	
Displacement Fluid:		Water		Casing Reciprocated?	
Displacement Rate:		3.5		Casing Rotated?	
Displacement Volume:		8		CIP:	
Mud Returns:		Full		Casing Wt Prior To Cement:	
Centralizer Type And Placement:				Casing Weight Set On Slips:	



BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pro Petro Rig #10
Submitted By Kylan Cook Phone Number 435-790-8236
Well Name/Number MAMIE 4-25-3-3WH
Qtr/Qtr NW/NW Section 25 Township 3S Range 3W
Lease Serial Number 14-20-H62-6191
API Number 43013515310000

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

Date/Time _____ AM PM

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

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

Date/Time 06/03/2013 23:00 AM PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test
- Other

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JUN 02 2013
DIV. OF OIL, GAS & MINING

Date/Time _____ AM PM

Remarks _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-6191
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: Ute In 7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: MAMIE 4-25-3-3WH
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013515310000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext
9. FIELD and POOL or WILDCAT: WILDCAT	4. LOCATION OF WELL FOOTAGES AT SURFACE: 0238 FNL 1036 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 25 Township: 03.0S Range: 03.0W Meridian: U
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: 6/20/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>

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

Newfield Production Company respectfully requests the use of a swell packer as a method of production isolation from all leasehold and/or unleased mineral owners in the northern offset drilling and spacing unit. Attached please find the requested consent for use of a swell packer.

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

Date: June 25, 2013

By: Don Hamilton

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent
SIGNATURE N/A	DATE 6/10/2013	



June 6, 2013

State of Utah
Division of Oil, Gas & Mining
ATTN: Brad Hill
PO Box 145801
Salt Lake City, UT 84114

Newfield Exploration Company
1001 17th Street | Suite 2000
Denver, Colorado 80202
PH 303-893-0102 | FAX 303-893-0103

RE: Mamie 4-25-3-3WH
Township 3 South, Range 3 West
Section 25
Duchesne County, Utah

Dear Mr. Hill:

This letter is written to accompany the submission of a Sundry Notice by Newfield Production Company ("Newfield") to change the drilling design of the Mamie 4-25-3-3WH. Newfield intends to use a swell packer placed at the 660' northern setback of Section 25, Township 3 South, Range 3 West, to isolate production to the portion of the Mamie 4-25-3-3WH wellbore inside of the setback. The State of Utah has requested Newfield obtain consent to the use of a swell packer as a method of production isolation from all leasehold and/or unleased mineral owners in the northern offset drilling and spacing unit (Section 24, Township 3 South, Range 3 West) before it will consider Newfield's Sundry Notice.

Newfield and Crescent Point Energy U.S. Corp. ("Crescent Point") are the owners of 100% of the leasehold in the northern offset drilling and spacing unit and Newfield has obtained consent from Crescent Point as evidenced by the attached signed consent letter.

Thank you for your consideration, and should you have questions, concerns, or require additional information, please contact me at the information provided below.

My Regards,

A handwritten signature in blue ink, appearing to read "Shane Gillespie".

Shane Gillespie
Landman
Newfield Exploration Company
(303) 383-4197
sgillespie@newfield.com

Attachments



AD . Crescent Point Energy U.S. Corp. hereby consents to the use of a swell packer to isolate production from the Mamie 4-25-3-3WH wellbore.

A handwritten signature in black ink, appearing to read "Anthony Baldwin", written over a horizontal line.

Anthony Baldwin

Date: June 6, 2013

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pioneer rig 68
Submitted By JIM LOUDERMILK Phone Number 970-361-3263
Well Name/Number MAMIE 4-25-3-3WH
Qtr/Qtr NW/NW Section 25 Township 73S Range 73W
Lease Serial Number FEE
API Number 43013515310000

TD Notice – TD is the final drilling depth of hole.

Date/Time July 13, 2013 1800 AM PM

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

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

Date/Time 7/13/2013 00:00 AM PM

RECEIVED

JUL 13 2013

DIV. OF OIL, GAS & MINING

Form 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
14-20-H62-6191

1a. Type of Well Oil Well Gas Well Dry Other
b. Type of Completion: New Well Work Over Deepen Plug Back Diff. Resrv.,
Other: _____

6. If Indian, Allottee or Tribe Name
Ute Indian Tribe

7. Unit or CA Agreement Name and No.

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

8. Lease Name and Well No.
MAMIE 4-25-3-3WH

3. Address ROUTE #3 BOX 3630
MYTON, UT 84052

3a. Phone No. (include area code)
Ph: 435-646-3721

9. API Well No.
43-013-51531

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

10. Field and Pool or Exploratory
WILDCAT

At surface 238' FNL & 1036 FWL (NW/NW) Sec. 25 T3S, R3W

11. Sec., T., R., M., on Block and Survey or Area
Sec. 25 T3S, R3W Mer U

At top prod. interval reported below 839' FNL & 749 FWL (NW/NW) Sec. 25 T3S, R3W

12. County or Parish 13. State

At total depth 672 FSL & 666' FWL (SW/SW) Sec. 25 T3S, R3W

DUCHESNE UT

14. Date Spudded
05/29/2013

15. Date T.D. Reached
07/17/2013

16. Date Completed 08/02/2013
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
5236' GL 18'KB

18. Total Depth: MD 12790'
TVD 8247'

19. Plug Back T.D.: MD 12785'
TVD

20. Depth Bridge Plug Set: MD
TVD

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	14" A52A	35.75#	0'	60'		342 Class G			
12-1/4"	9-5/8" J-55	36#	0'	3022'		300 Class G			
						540 V Cement			
8-3/4"	7" P-110	29#	20'	8325'		330 BondCem		0'	
						605 VersaCem			
6-1/8"	4-1/2" P-110	13.5#	7844'	9159'					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@8250'	X-Nipple@8208'						

25. Producing Intervals

Formation	Top	Bottom	Perforation Interval	Size	No. Holes	Perf. Status
A) Green River	8991'	12324'	8991'-12324' MD	0.38"	24	Ball Drop Sleeve
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
8991'-12324' MD	Frac w/ 11060#s of 100 mesh and 2154290# of 30/50 sand in 31369 bbls of Lightning 17 fluid in 20 Stages

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
8/2/13	8/12/13	24	→	751	0'	385			GAS LIFT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	

28a. Production - Interval B

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

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers
GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH GARDEN GULCH 1	5960' 6223'
				GARDEN GULCH 2 DOUGLAS CREEK	6376' 7105'
				B LIMESTONE CASTLE PEAK	7588' 8006'
				UTELAND BUTTE A UTELAND BUTTE B	8334' 8345'
				UTELAND BUTTE C UTELAND BUTTE D	8375' 8409'
				WASATCH	8481'

32. Additional remarks (include plugging procedure):

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

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

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

Name (please print) Heather Calder Title Regulatory Technician
 Signature Heather Calder Date 10/07/2013

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



Survey Report



Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	Local Co-ordinate Reference:	Well 4-25-3-3WH
Project:	DUCHESNE COUNTY, UT (NAD 83)	TVD Reference:	WELL(5236'+20'= 5,256' MSL) @ 5256.00usft (Pioneer 68 (KB=20'))
Site:	CENTRAL BASIN (NAD 83)	MD Reference:	WELL(5236'+20'= 5,256' MSL) @ 5256.00usft (Pioneer 68 (KB=20'))
Well:	4-25-3-3WH	North Reference:	True
Wellbore:	4-25-3-3WH MAMIE	Survey Calculation Method:	Minimum Curvature
Design:	4-25-3-3WH MAMIE (Actual)	Database:	EDM 5000.1 Lynn Db

Project	DUCHESNE COUNTY, UT (NAD 83),		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	CENTRAL BASIN (NAD 83)				
Site Position:		Northing:	7,255,843.21 usft	Latitude:	40° 13' 50.461 N
From:	Map	Easting:	2,033,280.24 usft	Longitude:	110° 5' 34.149 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.90 °

Well	4-25-3-3WH					
Well Position	+N/-S	0.00 usft	Northing:	7,244,160.37 usft	Latitude:	40° 11' 58.530 N
	+E/-W	0.00 usft	Easting:	2,009,983.20 usft	Longitude:	110° 10' 36.740 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	5,256.00 usft	Ground Level:	5,236.00 usft

Wellbore	4-25-3-3WH MAMIE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/20/2013	11.13	65.85	52,141

Design	4-25-3-3WH MAMIE (Actual)				
Audit Notes:					
Version:	Actual	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	180.00	

Survey Program	Date 7/14/2013				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
105.00	2,975.00	PAYZONE MWD 105'- 2975' MD (4-25-3-3WH)	MWD	MWD - Standard	
3,123.00	12,790.00	Weatherford MWD 3,123'-12,724'MD(TD=)	MWD	MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.00	0.40	78.50	105.00	0.07	0.36	-0.07	0.38	0.38	0.00	
134.00	0.53	109.40	134.00	0.05	0.58	-0.05	0.96	0.45	106.55	
162.00	0.35	118.40	162.00	-0.03	0.78	0.03	0.69	-0.64	32.14	
191.00	0.48	83.60	191.00	-0.06	0.98	0.06	0.96	0.45	-120.00	
219.00	0.44	85.10	219.00	-0.04	1.20	0.04	0.15	-0.14	5.36	
248.00	0.44	111.10	247.99	-0.07	1.42	0.07	0.68	0.00	89.66	



Survey Report



Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	Local Co-ordinate Reference:	Well 4-25-3-3WH
Project:	DUCHESNE COUNTY, UT (NAD 83)	TVD Reference:	WELL(5236'+20'= 5,256' MSL) @ 5256.00usft (Pioneer 68 (KB=20'))
Site:	CENTRAL BASIN (NAD 83)	MD Reference:	WELL(5236'+20'= 5,256' MSL) @ 5256.00usft (Pioneer 68 (KB=20'))
Well:	4-25-3-3WH	North Reference:	True
Wellbore:	4-25-3-3WH MAMIE	Survey Calculation Method:	Minimum Curvature
Design:	4-25-3-3WH MAMIE (Actual)	Database:	EDM 5000.1 Lynn Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
275.00	0.57	106.10	274.99	-0.15	1.65	0.15	0.51	0.48	-18.52
297.00	0.50	92.06	296.99	-0.18	1.85	0.18	0.68	-0.34	-63.82
Payzone MWD 105- 2,975' MD									
304.00	0.48	86.80	303.99	-0.18	1.91	0.18	0.68	-0.23	-75.14
333.00	0.40	83.90	332.99	-0.16	2.13	0.16	0.29	-0.28	-10.00
365.00	0.53	85.80	364.99	-0.14	2.39	0.14	0.41	0.41	5.94
395.00	0.22	87.50	394.99	-0.13	2.58	0.13	1.03	-1.03	5.67
425.00	0.44	93.50	424.99	-0.13	2.75	0.13	0.74	0.73	20.00
455.00	0.18	81.60	454.99	-0.13	2.92	0.13	0.89	-0.87	-39.67
485.00	0.26	117.00	484.99	-0.16	3.02	0.16	0.51	0.27	118.00
515.00	0.31	112.30	514.99	-0.22	3.16	0.22	0.18	0.17	-15.67
545.00	0.44	95.90	544.99	-0.26	3.35	0.26	0.56	0.43	-54.67
575.00	0.22	82.30	574.99	-0.26	3.52	0.26	0.77	-0.73	-45.33
605.00	0.40	114.10	604.99	-0.30	3.67	0.30	0.81	0.60	106.00
635.00	0.35	77.10	634.99	-0.32	3.86	0.32	0.81	-0.17	-123.33
665.00	0.22	87.20	664.99	-0.30	4.00	0.30	0.46	-0.43	33.67
695.00	0.53	102.10	694.99	-0.32	4.20	0.32	1.07	1.03	49.67
725.00	0.48	83.70	724.98	-0.34	4.46	0.34	0.56	-0.17	-61.33
755.00	0.53	94.90	754.98	-0.34	4.72	0.34	0.37	0.17	37.33
785.00	0.57	86.30	784.98	-0.34	5.01	0.34	0.31	0.13	-28.67
815.00	0.44	72.30	814.98	-0.30	5.27	0.30	0.59	-0.43	-46.67
845.00	0.42	78.10	844.98	-0.24	5.48	0.24	0.16	-0.07	19.33
875.00	0.35	89.70	874.98	-0.21	5.68	0.21	0.35	-0.23	38.67
905.00	0.35	92.10	904.98	-0.22	5.87	0.22	0.05	0.00	8.00
935.00	0.44	124.80	934.98	-0.29	6.05	0.29	0.80	0.30	109.00
965.00	0.62	96.30	964.98	-0.37	6.31	0.37	1.05	0.60	-95.00
995.00	0.26	88.10	994.98	-0.39	6.54	0.39	1.22	-1.20	-27.33
1,025.00	0.26	91.80	1,024.98	-0.39	6.67	0.39	0.06	0.00	12.33
1,055.00	0.44	126.00	1,054.97	-0.46	6.84	0.46	0.89	0.60	114.00
1,085.00	0.18	160.60	1,084.97	-0.57	6.94	0.57	1.03	-0.87	115.33
1,115.00	0.09	155.70	1,114.97	-0.63	6.97	0.63	0.30	-0.30	-16.33
1,145.00	0.22	168.60	1,144.97	-0.71	6.99	0.71	0.45	0.43	43.00
1,175.00	0.37	151.60	1,174.97	-0.85	7.05	0.85	0.57	0.50	-56.67
1,205.00	0.31	132.00	1,204.97	-0.99	7.15	0.99	0.43	-0.20	-65.33
1,235.00	0.09	156.10	1,234.97	-1.07	7.22	1.07	0.77	-0.73	80.33
1,265.00	0.26	147.00	1,264.97	-1.15	7.27	1.15	0.57	0.57	-30.33
1,295.00	0.04	125.40	1,294.97	-1.21	7.32	1.21	0.74	-0.73	-72.00
1,325.00	0.22	169.40	1,324.97	-1.27	7.34	1.27	0.64	0.60	146.67
1,355.00	0.01	152.40	1,354.97	-1.33	7.35	1.33	0.70	-0.70	-56.67
1,385.00	0.22	119.10	1,384.97	-1.36	7.40	1.36	0.71	0.70	-111.00
1,415.00	0.03	189.90	1,414.97	-1.40	7.45	1.40	0.71	-0.63	236.00
1,445.00	0.13	240.40	1,444.97	-1.42	7.42	1.42	0.38	0.33	168.33



Survey Report



Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	Local Co-ordinate Reference:	Well 4-25-3-3WH
Project:	DUCHESNE COUNTY, UT (NAD 83)	TVD Reference:	WELL(5236'+20'= 5,256' MSL) @ 5256.00usft (Pioneer 68 (KB=20'))
Site:	CENTRAL BASIN (NAD 83)	MD Reference:	WELL(5236'+20'= 5,256' MSL) @ 5256.00usft (Pioneer 68 (KB=20'))
Well:	4-25-3-3WH	North Reference:	True
Wellbore:	4-25-3-3WH MAMIE	Survey Calculation Method:	Minimum Curvature
Design:	4-25-3-3WH MAMIE (Actual)	Database:	EDM 5000.1 Lynn Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,475.00	0.31	205.40	1,474.97	-1.51	7.35	1.51	0.72	0.60	-116.67
1,505.00	0.22	231.20	1,504.97	-1.62	7.27	1.62	0.49	-0.30	86.00
1,535.00	0.18	223.10	1,534.97	-1.69	7.20	1.69	0.16	-0.13	-27.00
1,565.00	0.48	199.70	1,564.97	-1.84	7.12	1.84	1.08	1.00	-78.00
1,595.00	0.35	220.80	1,594.97	-2.03	7.02	2.03	0.66	-0.43	70.33
1,625.00	0.26	217.30	1,624.97	-2.16	6.92	2.16	0.31	-0.30	-11.67
1,655.00	0.53	190.50	1,654.97	-2.35	6.85	2.35	1.07	0.90	-89.33
1,685.00	0.48	191.50	1,684.97	-2.61	6.80	2.61	0.17	-0.17	3.33
1,715.00	0.44	202.30	1,714.97	-2.84	6.73	2.84	0.32	-0.13	36.00
1,745.00	0.53	171.70	1,744.97	-3.08	6.71	3.08	0.90	0.30	-102.00
1,775.00	0.37	209.90	1,774.97	-3.30	6.68	3.30	1.10	-0.53	127.33
1,805.00	0.48	176.00	1,804.96	-3.51	6.64	3.51	0.90	0.37	-113.00
1,835.00	0.26	176.80	1,834.96	-3.70	6.65	3.70	0.73	-0.73	2.67
1,865.00	0.33	153.50	1,864.96	-3.85	6.70	3.85	0.46	0.23	-77.67
1,895.00	0.31	196.10	1,894.96	-4.00	6.71	4.00	0.78	-0.07	142.00
1,925.00	0.35	170.60	1,924.96	-4.17	6.70	4.17	0.50	0.13	-85.00
1,955.00	0.33	149.10	1,954.96	-4.34	6.76	4.34	0.43	-0.07	-71.67
1,985.00	0.44	160.60	1,984.96	-4.52	6.85	4.52	0.45	0.37	38.33
2,015.00	0.40	180.60	2,014.96	-4.73	6.88	4.73	0.50	-0.13	66.67
2,045.00	0.53	153.90	2,044.96	-4.96	6.94	4.96	0.83	0.43	-89.00
2,075.00	0.55	182.80	2,074.96	-5.23	7.00	5.23	0.90	0.07	96.33
2,105.00	0.33	160.00	2,104.96	-5.46	7.02	5.46	0.92	-0.73	-76.00
2,135.00	0.58	185.60	2,134.96	-5.69	7.03	5.69	1.05	0.83	85.33
2,165.00	0.57	186.40	2,164.95	-5.99	7.00	5.99	0.04	-0.03	2.67
2,195.00	0.57	160.80	2,194.95	-6.28	7.04	6.28	0.84	0.00	-85.33
2,225.00	0.44	189.90	2,224.95	-6.53	7.07	6.53	0.94	-0.43	97.00
2,255.00	0.38	186.00	2,254.95	-6.74	7.03	6.74	0.22	-0.20	-13.00
2,285.00	0.39	168.10	2,284.95	-6.94	7.05	6.94	0.40	0.03	-59.67
2,315.00	0.57	179.00	2,314.95	-7.19	7.07	7.19	0.67	0.60	36.33
2,345.00	0.48	164.60	2,344.95	-7.46	7.11	7.46	0.53	-0.30	-48.00
2,375.00	0.53	189.00	2,374.95	-7.72	7.12	7.72	0.73	0.17	81.33
2,405.00	0.62	165.90	2,404.95	-8.01	7.13	8.01	0.82	0.30	-77.00
2,435.00	0.62	161.80	2,434.94	-8.33	7.22	8.33	0.15	0.00	-13.67
2,465.00	0.66	173.60	2,464.94	-8.65	7.29	8.65	0.46	0.13	39.33
2,495.00	0.66	176.30	2,494.94	-9.00	7.33	9.00	0.10	0.00	9.00
2,525.00	0.40	165.40	2,524.94	-9.27	7.36	9.27	0.93	-0.87	-36.33
2,555.00	0.44	160.30	2,554.94	-9.48	7.43	9.48	0.18	0.13	-17.00
2,585.00	0.67	179.10	2,584.94	-9.76	7.47	9.76	0.97	0.77	62.67
2,615.00	0.53	180.10	2,614.94	-10.08	7.47	10.08	0.47	-0.47	3.33
2,645.00	0.44	163.10	2,644.93	-10.33	7.51	10.33	0.56	-0.30	-56.67
2,675.00	0.62	164.20	2,674.93	-10.59	7.58	10.59	0.60	0.60	3.67
2,705.00	0.70	169.50	2,704.93	-10.93	7.66	10.93	0.34	0.27	17.67



Survey Report



Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	Local Co-ordinate Reference:	Well 4-25-3-3WH
Project:	DUCHESNE COUNTY, UT (NAD 83)	TVD Reference:	WELL(5236'+20'= 5,256' MSL) @ 5256.00usft (Pioneer 68 (KB=20'))
Site:	CENTRAL BASIN (NAD 83)	MD Reference:	WELL(5236'+20'= 5,256' MSL) @ 5256.00usft (Pioneer 68 (KB=20'))
Well:	4-25-3-3WH	North Reference:	True
Wellbore:	4-25-3-3WH MAMIE	Survey Calculation Method:	Minimum Curvature
Design:	4-25-3-3WH MAMIE (Actual)	Database:	EDM 5000.1 Lynn Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,735.00	0.70	171.40	2,734.93	-11.29	7.72	11.29	0.08	0.00	6.33
2,765.00	0.71	187.70	2,764.93	-11.66	7.72	11.66	0.67	0.03	54.33
2,795.00	0.75	170.20	2,794.92	-12.03	7.73	12.03	0.75	0.13	-58.33
2,825.00	0.79	184.70	2,824.92	-12.43	7.75	12.43	0.66	0.13	48.33
2,855.00	0.83	176.50	2,854.92	-12.86	7.75	12.86	0.41	0.13	-27.33
2,885.00	0.62	170.50	2,884.92	-13.23	7.79	13.23	0.74	-0.70	-20.00
2,915.00	0.62	165.90	2,914.91	-13.55	7.85	13.55	0.17	0.00	-15.33
2,945.00	0.66	156.80	2,944.91	-13.87	7.96	13.87	0.36	0.13	-30.33
2,975.00	0.88	161.70	2,974.91	-14.24	8.10	14.24	0.76	0.73	16.33
3,123.00	0.98	205.62	3,122.89	-16.47	7.91	16.47	0.47	0.07	29.68
3,249.00	1.17	216.38	3,248.87	-18.47	6.68	18.47	0.22	0.15	8.54
3,374.00	1.28	213.56	3,373.84	-20.66	5.15	20.66	0.10	0.09	-2.26
3,499.00	1.48	213.11	3,498.80	-23.18	3.50	23.18	0.16	0.16	-0.36
3,623.00	1.75	197.74	3,622.76	-26.32	2.05	26.32	0.41	0.22	-12.40
3,747.00	2.04	195.81	3,746.69	-30.25	0.87	30.25	0.24	0.23	-1.56
3,870.00	2.10	192.59	3,869.61	-34.56	-0.22	34.56	0.11	0.05	-2.62
3,994.00	2.28	193.62	3,993.52	-39.17	-1.30	39.17	0.15	0.15	0.83
4,180.00	1.37	251.78	4,179.43	-43.46	-4.28	43.46	1.05	-0.49	31.27
4,305.00	1.79	288.54	4,304.39	-43.31	-7.55	43.31	0.86	0.34	29.41
4,429.00	4.76	320.31	4,428.18	-38.73	-12.67	38.73	2.72	2.40	25.62
4,554.00	7.08	312.25	4,552.51	-29.56	-21.69	29.56	1.97	1.86	-6.45
4,680.00	6.31	310.00	4,677.65	-19.89	-32.74	19.89	0.65	-0.61	-1.79
4,804.00	7.77	309.85	4,800.71	-10.14	-44.40	10.14	1.18	1.18	-0.12
4,927.00	6.33	304.88	4,922.78	-0.93	-56.34	0.93	1.27	-1.17	-4.04
5,051.00	6.77	310.14	5,045.97	7.69	-67.54	-7.69	0.60	0.35	4.24
5,174.00	5.90	302.24	5,168.22	15.74	-78.43	-15.74	1.00	-0.71	-6.42
5,298.00	4.97	296.39	5,291.66	21.52	-88.63	-21.52	0.87	-0.75	-4.72
5,422.00	9.51	308.21	5,414.65	30.25	-101.50	-30.25	3.83	3.66	9.53
5,547.00	8.66	309.80	5,538.08	42.66	-116.84	-42.66	0.71	-0.68	1.27
5,672.00	7.55	315.57	5,661.83	54.55	-129.82	-54.55	1.10	-0.89	4.62
5,795.00	6.59	310.90	5,783.89	64.94	-140.81	-64.94	0.91	-0.78	-3.80
5,921.00	5.52	308.61	5,909.19	73.46	-151.01	-73.46	0.87	-0.85	-1.82
6,044.00	4.07	304.11	6,031.76	79.60	-159.25	-79.60	1.22	-1.18	-3.66
6,169.00	8.25	316.81	6,156.01	88.63	-169.07	-88.63	3.50	3.34	10.16
6,294.00	6.66	314.16	6,279.95	100.22	-180.41	-100.22	1.30	-1.27	-2.12
6,419.00	7.94	323.59	6,403.94	112.22	-190.73	-112.22	1.40	1.02	7.54
6,543.00	6.53	321.83	6,526.95	124.66	-200.17	-124.66	1.15	-1.14	-1.42
6,606.00	6.81	322.04	6,589.52	130.42	-204.68	-130.42	0.45	0.44	0.33
6,668.00	6.53	317.46	6,651.11	135.91	-209.33	-135.91	0.97	-0.45	-7.39
6,729.00	6.29	314.51	6,711.72	140.81	-214.06	-140.81	0.67	-0.39	-4.84
6,791.00	6.03	316.58	6,773.37	145.56	-218.72	-145.56	0.55	-0.42	3.34



Survey Report



Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	Local Co-ordinate Reference:	Well 4-25-3-3WH
Project:	DUCHESNE COUNTY, UT (NAD 83)	TVD Reference:	WELL(5236'+20'= 5,256' MSL) @ 5256.00usft (Pioneer 68 (KB=20'))
Site:	CENTRAL BASIN (NAD 83)	MD Reference:	WELL(5236'+20'= 5,256' MSL) @ 5256.00usft (Pioneer 68 (KB=20'))
Well:	4-25-3-3WH	North Reference:	True
Wellbore:	4-25-3-3WH MAMIE	Survey Calculation Method:	Minimum Curvature
Design:	4-25-3-3WH MAMIE (Actual)	Database:	EDM 5000.1 Lynn Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,853.00	6.92	316.42	6,834.97	150.63	-223.53	-150.63	1.44	1.44	-0.26
6,916.00	6.28	317.38	6,897.55	155.91	-228.48	-155.91	1.03	-1.02	1.52
6,979.00	5.45	315.52	6,960.22	160.58	-232.91	-160.58	1.35	-1.32	-2.95
7,041.00	6.27	310.72	7,021.90	164.89	-237.54	-164.89	1.54	1.32	-7.74
7,103.00	6.80	306.05	7,083.50	169.26	-243.07	-169.26	1.21	0.85	-7.53
7,165.00	5.90	304.53	7,145.11	173.23	-248.67	-173.23	1.48	-1.45	-2.45
7,227.00	5.10	301.00	7,206.83	176.45	-253.65	-176.45	1.40	-1.29	-5.69
7,289.00	4.55	299.03	7,268.61	179.07	-258.17	-179.07	0.93	-0.89	-3.18
7,352.00	3.88	294.32	7,331.44	181.16	-262.29	-181.16	1.20	-1.06	-7.48
7,413.00	3.28	286.92	7,392.32	182.51	-265.84	-182.51	1.24	-0.98	-12.13
7,477.00	2.88	272.11	7,456.23	183.11	-269.20	-183.11	1.39	-0.63	-23.14
7,538.00	2.51	263.29	7,517.16	183.01	-272.06	-183.01	0.91	-0.61	-14.46
7,601.00	2.21	255.23	7,580.11	182.54	-274.60	-182.54	0.71	-0.48	-12.79
7,663.00	1.75	243.39	7,642.07	181.81	-276.61	-181.81	0.99	-0.74	-19.10
7,725.00	1.59	235.59	7,704.04	180.90	-278.16	-180.90	0.45	-0.26	-12.58
7,786.00	1.67	229.24	7,765.02	179.84	-279.53	-179.84	0.32	0.13	-10.41
7,835.00	1.73	227.60	7,814.00	178.87	-280.62	-178.87	0.16	0.12	-3.35
7,847.00	1.80	228.44	7,825.99	178.63	-280.90	-178.63	0.62	0.58	7.00
7,878.00	2.38	222.13	7,856.97	177.83	-281.69	-177.83	2.01	1.87	-20.35
7,909.00	5.47	208.09	7,887.89	176.04	-282.82	-176.04	10.37	9.97	-45.29
7,940.00	10.13	197.80	7,918.60	172.14	-284.35	-172.14	15.63	15.03	-33.19
7,970.00	11.93	197.48	7,948.05	166.67	-286.09	-166.67	6.00	6.00	-1.07
8,001.00	13.22	197.01	7,978.30	160.23	-288.09	-160.23	4.17	4.16	-1.52
8,032.00	14.63	196.01	8,008.39	153.07	-290.20	-153.07	4.61	4.55	-3.23
8,063.00	17.44	194.66	8,038.18	144.82	-292.46	-144.82	9.14	9.06	-4.35
8,093.00	19.57	192.47	8,066.63	135.56	-294.68	-135.56	7.47	7.10	-7.30
8,124.00	20.78	188.78	8,095.73	125.05	-296.64	-125.05	5.66	3.90	-11.90
8,154.00	21.59	186.58	8,123.70	114.31	-298.09	-114.31	3.78	2.70	-7.33
8,184.00	22.96	183.71	8,151.46	102.99	-299.10	-102.99	5.83	4.57	-9.57
8,215.00	25.14	183.68	8,179.77	90.38	-299.91	-90.38	7.03	7.03	-0.10
8,246.00	28.18	183.60	8,207.47	76.50	-300.80	-76.50	9.81	9.81	-0.26
8,277.00	30.36	182.35	8,234.51	61.37	-301.58	-61.37	7.30	7.03	-4.03
8,397.00	44.48	179.11	8,329.58	-11.34	-302.17	11.34	11.88	11.77	-2.70
8,428.00	48.45	179.13	8,350.93	-33.81	-301.83	33.81	12.81	12.81	0.06
8,460.00	53.53	178.90	8,371.07	-58.66	-301.40	58.66	15.88	15.88	-0.72
8,491.00	57.59	179.28	8,388.60	-84.22	-300.99	84.22	13.14	13.10	1.23
8,522.00	62.11	179.79	8,404.16	-111.02	-300.78	111.02	14.65	14.58	1.65
8,554.00	66.94	179.36	8,417.92	-139.90	-300.56	139.90	15.14	15.09	-1.34
8,586.00	72.36	178.80	8,429.05	-169.89	-300.08	169.89	17.02	16.94	-1.75
8,617.00	76.73	178.61	8,437.30	-199.75	-299.40	199.75	14.11	14.10	-0.61
8,648.00	82.43	179.05	8,442.91	-230.22	-298.78	230.22	18.44	18.39	1.42
8,680.00	86.99	179.28	8,445.86	-262.07	-298.32	262.07	14.27	14.25	0.72



Survey Report



Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	Local Co-ordinate Reference:	Well 4-25-3-3WH
Project:	DUCHESNE COUNTY, UT (NAD 83)	TVD Reference:	WELL(5236'+20'= 5,256' MSL) @ 5256.00usft (Pioneer 68 (KB=20'))
Site:	CENTRAL BASIN (NAD 83)	MD Reference:	WELL(5236'+20'= 5,256' MSL) @ 5256.00usft (Pioneer 68 (KB=20'))
Well:	4-25-3-3WH	North Reference:	True
Wellbore:	4-25-3-3WH MAMIE	Survey Calculation Method:	Minimum Curvature
Design:	4-25-3-3WH MAMIE (Actual)	Database:	EDM 5000.1 Lynn Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,743.00	95.88	180.52	8,444.28	-324.99	-298.21	324.99	14.25	14.11	1.97
8,774.00	97.65	179.25	8,440.63	-355.77	-298.14	355.77	7.01	5.71	-4.10
8,806.00	98.19	179.18	8,436.22	-387.46	-297.71	387.46	1.70	1.69	-0.22
8,837.00	95.88	178.46	8,432.42	-418.22	-297.08	418.22	7.80	-7.45	-2.32
8,869.00	94.27	178.46	8,429.59	-450.08	-296.22	450.08	5.03	-5.03	0.00
8,900.00	94.55	177.41	8,427.21	-480.97	-295.11	480.97	3.50	0.90	-3.39
8,932.00	94.75	176.73	8,424.62	-512.82	-293.48	512.82	2.21	0.63	-2.13
8,963.00	95.05	175.66	8,421.97	-543.64	-291.43	543.64	3.57	0.97	-3.45
9,021.00	95.62	175.72	8,416.58	-601.22	-287.09	601.22	0.99	0.98	0.10
9,083.00	94.57	176.04	8,411.07	-662.82	-282.65	662.82	1.77	-1.69	0.52
9,115.00	92.34	176.75	8,409.14	-694.70	-280.64	694.70	7.31	-6.97	2.22
9,146.00	90.99	177.60	8,408.24	-725.64	-279.11	725.64	5.15	-4.35	2.74
9,177.00	90.99	177.31	8,407.70	-756.61	-277.74	756.61	0.94	0.00	-0.94
9,208.00	91.85	178.36	8,406.94	-787.58	-276.57	787.58	4.38	2.77	3.39
9,239.00	92.53	178.76	8,405.75	-818.54	-275.79	818.54	2.54	2.19	1.29
9,271.00	92.65	178.49	8,404.31	-850.50	-275.02	850.50	0.92	0.38	-0.84
9,302.00	93.82	178.07	8,402.56	-881.44	-274.09	881.44	4.01	3.77	-1.35
9,334.00	95.37	178.65	8,399.99	-913.32	-273.18	913.32	5.17	4.84	1.81
9,365.00	96.12	178.63	8,396.89	-944.16	-272.45	944.16	2.42	2.42	-0.06
9,396.00	96.18	179.56	8,393.57	-974.97	-271.96	974.97	2.99	0.19	3.00
9,428.00	95.56	179.40	8,390.30	-1,006.80	-271.67	1,006.80	2.00	-1.94	-0.50
9,459.00	95.56	179.29	8,387.29	-1,037.66	-271.32	1,037.66	0.35	0.00	-0.35
9,490.00	95.75	179.38	8,384.24	-1,068.50	-270.96	1,068.50	0.68	0.61	0.29
9,521.00	95.32	179.67	8,381.25	-1,099.36	-270.71	1,099.36	1.67	-1.39	0.94
9,553.00	94.13	181.03	8,378.61	-1,131.25	-270.90	1,131.25	5.64	-3.72	4.25
9,584.00	92.22	181.05	8,376.89	-1,162.19	-271.46	1,162.19	6.16	-6.16	0.06
9,615.00	91.48	180.82	8,375.89	-1,193.17	-271.97	1,193.17	2.50	-2.39	-0.74
9,647.00	90.31	180.18	8,375.39	-1,225.17	-272.25	1,225.17	4.17	-3.66	-2.00
9,678.00	89.82	180.97	8,375.36	-1,256.16	-272.56	1,256.16	3.00	-1.58	2.55
9,709.00	90.80	180.76	8,375.19	-1,287.16	-273.03	1,287.16	3.23	3.16	-0.68
9,741.00	90.80	180.96	8,374.74	-1,319.15	-273.51	1,319.15	0.62	0.00	0.63
9,772.00	91.60	181.14	8,374.09	-1,350.14	-274.07	1,350.14	2.65	2.58	0.58
9,804.00	93.15	181.24	8,372.77	-1,382.11	-274.74	1,382.11	4.85	4.84	0.31
9,835.00	91.54	180.96	8,371.50	-1,413.07	-275.33	1,413.07	5.27	-5.19	-0.90
9,867.00	91.48	181.66	8,370.66	-1,445.05	-276.06	1,445.05	2.19	-0.19	2.19
9,898.00	92.84	182.14	8,369.49	-1,476.01	-277.09	1,476.01	4.65	4.39	1.55
9,930.00	92.53	181.99	8,367.99	-1,507.96	-278.24	1,507.96	1.08	-0.97	-0.47
9,961.00	92.10	183.04	8,366.74	-1,538.90	-279.60	1,538.90	3.66	-1.39	3.39
9,992.00	93.21	183.87	8,365.30	-1,569.81	-281.47	1,569.81	4.47	3.58	2.68
10,024.00	92.34	184.20	8,363.75	-1,601.69	-283.72	1,601.69	2.91	-2.72	1.03
10,055.00	90.53	185.04	8,362.98	-1,632.58	-286.21	1,632.58	6.44	-5.84	2.71
10,087.00	91.05	185.51	8,362.53	-1,664.44	-289.16	1,664.44	2.19	1.63	1.47



Survey Report



Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	Local Co-ordinate Reference:	Well 4-25-3-3WH
Project:	DUCHESNE COUNTY, UT (NAD 83)	TVD Reference:	WELL(5236'+20'= 5,256' MSL) @ 5256.00usft (Pioneer 68 (KB=20'))
Site:	CENTRAL BASIN (NAD 83)	MD Reference:	WELL(5236'+20'= 5,256' MSL) @ 5256.00usft (Pioneer 68 (KB=20'))
Well:	4-25-3-3WH	North Reference:	True
Wellbore:	4-25-3-3WH MAMIE	Survey Calculation Method:	Minimum Curvature
Design:	4-25-3-3WH MAMIE (Actual)	Database:	EDM 5000.1 Lynn Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,118.00	91.97	185.12	8,361.72	-1,695.30	-292.03	1,695.30	3.22	2.97	-1.26
10,149.00	90.68	185.09	8,361.00	-1,726.17	-294.78	1,726.17	4.16	-4.16	-0.10
10,181.00	92.84	185.99	8,360.02	-1,758.00	-297.87	1,758.00	7.31	6.75	2.81
10,212.00	93.09	186.01	8,358.41	-1,788.79	-301.11	1,788.79	0.81	0.81	0.06
10,244.00	91.42	184.56	8,357.16	-1,820.63	-304.05	1,820.63	6.91	-5.22	-4.53
10,275.00	92.71	184.48	8,356.04	-1,851.51	-306.49	1,851.51	4.17	4.16	-0.26
10,306.00	92.28	184.22	8,354.69	-1,882.39	-308.84	1,882.39	1.62	-1.39	-0.84
10,338.00	92.35	183.99	8,353.40	-1,914.28	-311.13	1,914.28	0.75	0.22	-0.72
10,369.00	93.15	184.08	8,351.91	-1,945.17	-313.31	1,945.17	2.60	2.58	0.29
10,400.00	92.53	183.38	8,350.37	-1,976.07	-315.32	1,976.07	3.01	-2.00	-2.26
10,432.00	92.78	183.75	8,348.89	-2,007.97	-317.31	2,007.97	1.39	0.78	1.16
10,463.00	91.67	183.04	8,347.69	-2,038.89	-319.15	2,038.89	4.25	-3.58	-2.29
10,494.00	92.47	184.01	8,346.57	-2,069.81	-321.05	2,069.81	4.05	2.58	3.13
10,525.00	93.08	184.37	8,345.07	-2,100.69	-323.31	2,100.69	2.28	1.97	1.16
10,557.00	91.60	183.43	8,343.76	-2,132.59	-325.49	2,132.59	5.48	-4.63	-2.94
10,588.00	91.67	183.60	8,342.88	-2,163.52	-327.39	2,163.52	0.59	0.23	0.55
10,620.00	90.99	182.58	8,342.13	-2,195.46	-329.11	2,195.46	3.83	-2.13	-3.19
10,651.00	91.23	182.62	8,341.53	-2,226.43	-330.52	2,226.43	0.78	0.77	0.13
10,714.00	91.30	182.58	8,340.14	-2,289.35	-333.37	2,289.35	0.13	0.11	-0.06
10,776.00	94.01	181.71	8,337.27	-2,351.23	-335.69	2,351.23	4.59	4.37	-1.40
10,839.00	92.72	180.29	8,333.57	-2,414.11	-336.79	2,414.11	3.04	-2.05	-2.25
10,901.00	91.97	180.65	8,331.04	-2,476.05	-337.30	2,476.05	1.34	-1.21	0.58
10,963.00	92.16	181.26	8,328.80	-2,538.01	-338.33	2,538.01	1.03	0.31	0.98
11,026.00	92.10	181.30	8,326.46	-2,600.95	-339.74	2,600.95	0.11	-0.10	0.06
11,089.00	92.90	182.28	8,323.71	-2,663.85	-341.70	2,663.85	2.01	1.27	1.56
11,152.00	92.47	181.05	8,320.76	-2,726.76	-343.53	2,726.76	2.07	-0.68	-1.95
11,215.00	92.78	180.84	8,317.87	-2,789.68	-344.57	2,789.68	0.59	0.49	-0.33
11,277.00	92.53	181.27	8,315.00	-2,851.60	-345.71	2,851.60	0.80	-0.40	0.69
11,340.00	92.56	180.10	8,312.21	-2,914.54	-346.46	2,914.54	1.86	0.05	-1.86
11,403.00	92.47	180.36	8,309.44	-2,977.48	-346.71	2,977.48	0.44	-0.14	0.41
11,465.00	92.65	180.58	8,306.67	-3,039.41	-347.22	3,039.41	0.46	0.29	0.35
11,529.00	92.90	180.85	8,303.57	-3,103.33	-348.02	3,103.33	0.57	0.39	0.42
11,592.00	93.39	181.76	8,300.12	-3,166.22	-349.45	3,166.22	1.64	0.78	1.44
11,655.00	92.84	181.04	8,296.69	-3,229.11	-350.99	3,229.11	1.44	-0.87	-1.14
11,718.00	92.77	179.37	8,293.61	-3,292.03	-351.22	3,292.03	2.65	-0.11	-2.65
11,781.00	92.90	180.37	8,290.49	-3,354.95	-351.07	3,354.95	1.60	0.21	1.59
11,844.00	92.56	180.28	8,287.49	-3,417.88	-351.43	3,417.88	0.56	-0.54	-0.14
11,907.00	91.91	180.38	8,285.04	-3,480.83	-351.79	3,480.83	1.04	-1.03	0.16
11,970.00	91.79	180.57	8,283.00	-3,543.79	-352.31	3,543.79	0.36	-0.19	0.30
12,033.00	91.97	180.92	8,280.94	-3,606.75	-353.13	3,606.75	0.62	0.29	0.56
12,096.00	92.34	182.04	8,278.57	-3,669.69	-354.76	3,669.69	1.87	0.59	1.78



Survey Report



Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	Local Co-ordinate Reference:	Well 4-25-3-3WH
Project:	DUCHESNE COUNTY, UT (NAD 83)	TVD Reference:	WELL(5236'+20'= 5,256' MSL) @ 5256.00usft (Pioneer 68 (KB=20'))
Site:	CENTRAL BASIN (NAD 83)	MD Reference:	WELL(5236'+20'= 5,256' MSL) @ 5256.00usft (Pioneer 68 (KB=20'))
Well:	4-25-3-3WH	North Reference:	True
Wellbore:	4-25-3-3WH MAMIE	Survey Calculation Method:	Minimum Curvature
Design:	4-25-3-3WH MAMIE (Actual)	Database:	EDM 5000.1 Lynn Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,158.00	92.22	182.26	8,276.10	-3,731.60	-357.08	3,731.60	0.40	-0.19	0.35	
12,221.00	92.53	182.34	8,273.49	-3,794.49	-359.61	3,794.49	0.51	0.49	0.13	
12,284.00	92.41	181.83	8,270.77	-3,857.39	-361.90	3,857.39	0.83	-0.19	-0.81	
12,347.00	92.22	179.31	8,268.23	-3,920.33	-362.52	3,920.33	4.01	-0.30	-4.00	
12,410.00	92.53	180.20	8,265.62	-3,983.27	-362.26	3,983.27	1.49	0.49	1.41	
12,472.00	92.53	181.37	8,262.88	-4,045.21	-363.10	4,045.21	1.89	0.00	1.89	
12,535.00	92.71	182.63	8,260.00	-4,108.10	-365.30	4,108.10	2.02	0.29	2.00	
12,599.00	92.90	183.64	8,256.87	-4,171.93	-368.80	4,171.93	1.60	0.30	1.58	
12,661.00	93.02	179.54	8,253.67	-4,233.81	-370.51	4,233.81	6.61	0.19	-6.61	
12,724.00	92.77	179.97	8,250.48	-4,296.73	-370.24	4,296.73	0.79	-0.40	0.68	
Weatherford MWD 3,123- 12,724' MD										
12,790.00	92.77	179.97	8,247.30	-4,362.65	-370.21	4,362.65	0.00	0.00	0.00	
Projected to T.D.- 12,790' MD										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
297.00	296.99	-0.18	1.85	Payzone MWD 105- 2,975' MD	
12,724.00	8,250.48	-4,296.73	-370.24	Weatherford MWD 3,123- 12,724' MD	
12,790.00	8,247.30	-4,362.65	-370.21	Projected to T.D.- 12,790' MD	

Checked By: _____ Approved By: _____ Date: _____

Daily Activity Report

Format For Sundry

MAMIE 4-25-3-3WH

6/1/2013 To 10/30/2013

7/23/2013 Day: 1

Completion

Rigless on 7/23/2013 - NU tbg head and HCR valve, Get location ready for the frac - 17:00- Currently hauling in frac tanks and waiting for J-W Wireline to run CBL, Magnetic thickness tool and 40 arm caliper tool. Weatherford tester will be back when J-W Wireline gets here. Cellar Grate showed up at 17:30. 18:00- Waiting on JW wireline. Frac Tanks being spotted and water being delivered. 19:00- Water truck arrived start filling Casing. 19:30- JW arrived, Hold Safety Meeting & JSA. Discussed Job. - 16:00- Two flowback tanks and 1 frac tank got to location. All three flowback tanks are on location at 17:00 - 11:00- Cameron showed up with the tbg head. Cameron is to NU tbg head and Weatherford will NU HCR valve. Cameron tested the void to 5000psi. Weatherford tested the HCR valve to 10,000psi and the hydraulics to Newfield's testing procedures. Weatherford sent out 50ft hoses not 75ft hoses so done testing at 16:00. - 10:00- Cameron called said they were on the way. Weatherford tester started untorquing night cap to four bolts so, that way when Cameron gets here they can finish and set tbg head. - 09:00- Weatherford test and torque unit showed up to test and torque. Blade showed up to go around location and finish up. Got hand over notes from Jesse with drilling. - 08:00- J-W Wireline show up with the crane to NU tbg head and Weatherford HCR valve. Cameron was loading tbg head in vernal. - 19:45- JW started rigging up. Pulled hanger & TWCV and Topped well off with water. Frac Tanks are still being spotted and also Water trucks are filling frac tanks. 20:30- WL making up 1st Tool String; (1 7/16" x 1ft Rope Socket w/a 3/4"FN, 1 11/16" x 7ft Weight Bar, 3 1/8" x 1.25ft CCL, 1.50" x 1.5ft Quick Change, 3.125" x 6.08ft Junk Basket, 6" x .33ft Gauge Ring, Total Length 17.17ft. 21:10- Stab WL Lube on WH and test to 4800psi, Good Test. Open Well and RIH. 21:52- WL tagged at Top of 4.5" Liner @ 7841". POOH and make up 3.75" Gauge Ring. There was nothing in the Junk Basket?. 22:20 WL OOH, change out Gauge Ring to 3.75" Gauge Ring. Tool Sting; 1 7/16" x 1ft Rope Socket w/a 3/4"FN, 1 11/16" x 7ft Weight Bar, 3 1/8" x 1.25ft CCL, 1.50" x 1.5ft Quick Change, 3.125" x 6.08ft Junk Basket, 3.75" Gauge Ring, Total Length= 17.08ft.. 22:30 WL Lube is stabbed on WH and ready to test to 4800psi?. Good Test. Open WH and RIH. 22:45 WL's CCL is not working POOH and change out CCL. 23:10 WL has changed out the CCL and stabbed on WH, Ready to test to 4800psi.. GOOD Test. RIH with 3.75" Gauge Ring. 23:45 WL tagging up at 7841?. Tried to get into Liner Top several times but we are still sitting down in same spot. POOH and JW is checking to see if they have a smaller Gauge Ring that we can try.

Daily Cost: \$0

Cumulative Cost: \$4,085

7/24/2013 Day: 2

Completion

Rigless on 7/24/2013 - Finish logging the well, Continue to haul in frac tanks and water, - 2 Frac Tanks need a total of 700bbls between them both. RNI said 2 trucks would be back in early morning hours to finish up.. HES has set their Sand Kings and T-belt. They will start hauling sand in tomorrow. - 22:00- Current; We are continuing to haul Water into Frac Tanks. We are lacking about 700bbls from being completely full in all 36 tanks. Halliburton's here on location spotting Sand Kings. They will wait until tomorrow to spot T-belt they said because of sand haulers/space. - 11:00- Still hauling in Frac tanks and filling them as they get spotted. 13:00- Flowback tanks and flowback iron are all grounded. 25 frac tanks on location 17 are full. 15:30- Rockwater has all there equipment RU just not hooked to the wellhead. 32 frac tanks on location 24 are full. Continue to bring in frac tanks and water. Halliburton will spot the movers and T-belt as soon as the 36th frac tank gets spotted in. 17:30- Continue to spot frac tanks and bring in water. Halliburton's on the way with movers,T-belt to spot in and get

them loaded. - 00:20- WL OOH. Change gauge ring out to a 3.625" Tool Sting; 1 7/16" x 1ft Rope Socket w/a 3/4"FN, 1 11/16" x 7ft Weight Bar, 3 1/8" x 1.25ft CCL, 1.50" x 1.5ft Quick Change, 3.125" x 6.08ft Junk Basket, 3.75" Gauge Ring, Total Length= 17.08ft.. Still nothing in the junk basket when we came out of Hole. Water and Frac Tanks still being delivered to location. 00:30- WL tested to 4800psi and ready to RIH with 3.625" Gauge Ring. 00:45- WL tagging up in same spot again. Try 3 times. Still can't get past Top of Liner. POOH. JW is checking to see if they have 3.5" & 3.25" Gauge Rings. 01:15 WL OOH, Rig off well and wait on Jed to bring 3.5" & 3.25" Gauge Rings back. 01:50- WL back with gauges. Put 3.5" Gauge Ring on and stab lube on WH & Test to 4800psi. GOOD TEST. 02:05- WL RIH with 3.5" Gauge Ring Tool Sting; 1 7/16" x 1ft Rope Socket w/a 3/4"FN, 1 11/16" x 7ft Weight Bar, 3 1/8" x 1.25ft CCL, 1.50" x 1.5ft Quick Change, 3.125" x 6.08ft Junk Basket, 3.50" Gauge Ring, Total Length= 17.08ft.. - 09:00-Wireline started having issues with tool string keeping current running through at 586 feet. 10:00- We decided at 251 feet just to POOH with tools. 10:30- Wireline is OOH with CBL, Magnetic thickness tool and Caliper. - 04:15- WL's communication problem has been resolved. Continue in hole. 05:00- WL @ 7820ft and ready to Log Up Hole to 6768ft. 05:20- WL RIH to 7820ft. 05:30- Weatherford pressuring up to 1500psi on Casing. WL ready to Log OOH. 05:40- WL @ 7820ft logging OOH under pressure. - 02:25- WL tagged up at 7841ft? POOH. When WL gets OOH we will pick up Logging Tools and RIH to make the logging passes. 02:45- WL OOH, Rig off Gauge Ring Tool String (Found some Mud in the Junk Basket) and Make up Logging Tool String to RIH. 03:15 ? WL Logging Tool String ; 1 7/16" x 1ft w/(3/4" External Fishing Neck) Cable Head, 2.75" x 34.5" x 2.88ft Bow Spring Centralizer, 2.75" x 8.92ft Bond Tool, 2.75" x 34.5" x 2.88ft Bow Spring Centralizer, 2.75" x 4.77ft GR-CCL-Temp Probe, 3.50" x 5.87ft EMIT Probe (Metal Thickness Probe), 2.75" x 6.89ft MFCAL Probe (Fingers)? Total Length = 33.19ft 03:30- JW setting tool calibration on computer. Lube stabbed on WH and ready to test to 4800psi, Good Test! 03:55- WL RIH for Logging Pass. They are having some trouble with Computer or Logging Tools. Tool String keeps losing communication.. - 10:30- Wireline is OOH with CBL, Magnetic thickness tool and Caliper. 11:00- Still hauling in Frac tanks and filling them as they get spotted.

Daily Cost: \$0

Cumulative Cost: \$128,417

7/25/2013 Day: 3

Completion

Rigless on 7/25/2013 - Finish bring in frac tand and water. Bring in sand for the frac. NU and test frac stack, - 08:00- Current Status; RNI is still hauling water. Rain for Rent brought 9 more frac tanks. Weatherford tester is on location to test Rockwater flowback equipment. - 06:00- Current Status; RNI is still hauling in water to top off Frac Tanks. - 00:01- Current Status; HES is shut down for the night. They have hauled in Sand Kings & T-belt and spotted them. They will start hauling sand in the morning. RNI will finish hauling the last 700bbls of water to location sometime this morning. 03:20- Current Status; RNI is has started hauling water again to location. - - 22:31- Current Status: Weatherford is still rigging up Goat Head and getting readyt to start testing Stack Per NFX Policy. 23:55- Weatherford done with testing Frac Stack. - 21:45- Current Status: We started testing the Frac stack and the Grease fitting on the Top valve started leaking. We ordered extra fittings to come out with the Goat head. We will change all fittings when they arrive and start testing again. 22:30- Current Status: Weatherford's Goat Head arrived along with the Grease Fittings for the Frac valves. We will change them out and start making up the goat head and test the stack. - 18:00- Current Status; Weatherford is torqueing up frac Stack and Sand trucks filling HES Sand Kings. 20:30- Current Status; FMC Ball Launcher and Accumulators arrived on location. We stacked it out of the way. Weatherford has Stack on the WH and torqueing it down. Sand trucks still hauling sand to location. - Current Status: Weatherford is torqueing up the Frac Valves & Flow Cross. Sand haulers are still hauling in sand to the HES Sand Kings. - Current Status; Hot shot showed up with Weatherford frac stack at 16:15 - 15:45- Current Status; First sand hauler showed up at 13:45. B&G crane showed up at 14:45. Weatherford testers finished flowback at 14:00 and are still on location to NU Weatherford frac stack and test it. All the frac tanks are

bleached and full. - 13:00- Current Status; RNI is still hauling water. We have 45 frac tanks on location and 41 are full. Hammer came and bleached the tanks. Weatherford is still testing flowback iron. Halliburton manifold is set. Rockwater is still RU their manifold to transfer water to the frac. Sand is on its way. - 10:30- Current Status; RNI is still hauling water. Weatherford tester is on location testing Rockwater flowback equipment. Rockwater and Halliburton on location setting up water manifolds. Hammer is here bleaching tanks. Weatherford 7 1/16th 10k frac stack will be here around 14:30.

Daily Cost: \$0

Cumulative Cost: \$140,400

7/26/2013 Day: 4

Completion

Rigless on 7/26/2013 - Torqueing up Frac Stack and Testing it, Get the frac crew RU, - 04:00- Current Status; waiting on everyone to arrive at 8am. - 08:20- Current Status; Rockwater arrived on location with the Ball Catcher. 09:00- Current Status; Weatherford tester arrived on location. Weatherford & Rockwater will go ahead and install Ball Launcher and start testing 2? Wing Valves, Launcher & Ball catcher. - 12:00- Current Status; Frac Stack is all tested and ready. Flowback all tested and ready to go. Halliburton is spotted in and RU all their equipment and iron to the well. - 14:30- Current Status; Halliburton is getting RU to the wellhead. Everything else on location is ready to go in the morning. Halliburton will get primed up and pressure tested. - 17:30- Current Status; Halliburton is Bucket testing all the chemical pumps, priming up and pressure test their iron. Pressure test went good chemicals are all bucket tested and are good. We will start frac hopefully before 7am. - Ready to frac in the AM - 00:00- Current Status; Weatherford has finished torqueing up the Frac Stack and Testing it Per NFX Policy. 04:00- Current Status; waiting on everyone to arrive at 8am.

Daily Cost: \$0

Cumulative Cost: \$163,310

7/27/2013 Day: 5

Completion

Rigless on 7/27/2013 - Start frac operations, Frac Stgs. 1-14 - 20:50 Stage 10: Test lines to 9,550 psi, OK. Frac Uteland Butte stage 10 as follows: avg rate 45 bpm, avg press 4982 psi, max rate 46 bpm, max press 5773 psi. Fraced with 1367 bbl of 17# Delta 200. 93900lbs 0.5-4PPG 30/50 white. 20200lbs 6 PPG 30/50 CRC. Avg HHP: 5495. Sleeve shifted at 6728 psi. 4808 psi before shifting. 4760 psi after shifting. Stage 10 est. cost is \$34,406.95. Job went well. - Well is shut and secure. Start frac operation at 5AM - 05:00- Current Status; Everybody?s on location getting equipment started. We will hold a PJSM before going done hole. - 08:00- Current Status; The ball launcher is RU wrong we are moving it to the right placement in the frac iron. 10:45- Current Status; Halliburton acid pump is getting spotted in to the ball launcher and getting RU. We will pressure test again and get ready to start fraccing. 12:10- Current Status; Halliburton opened the well at 12:05. - 12:10- JSA and safety meeting. Test lines to 9,800 psi, OK. Frac Green River stage 1 as follows: avg rate 25 bpm, avg press 7390 psi, max rate 35 bpm, max press 8700 psi. Fraced with 1605 bbl of 20# Delta 200. 3750 lbs 0.5-1.0 PPG 100 mesh. 62600lbs 0.5-3PPG 30/50 white. 10650lbs 3.5 PPG 30/50 CRC. Avg HHP: 4510. Sleeve shifted at 6205 psi. 4385 psi before shifting. 4310 psi after shifting. Job went well. Stage 1 est. cost is 21616.24 - 13:10- JSA and safety meeting. Test lines to 9,550 psi, OK. Frac Green River stage 2 as follows: avg rate 35 bpm, avg press 4875 psi, max rate 36 bpm, max press 5670 psi. Fraced with 1790 bbl of 20# Delta 200. 3500 lbs 0.5-1.0 PPG 100 mesh. 73700lbs 0.5-3PPG 30/50 white. 16240lbs 4 PPG 30/50 CRC. Avg HHP: 4435. Sleeve shifted at 6235 psi. 4395 psi before shifting. 4320 psi after shifting. Stage 2 est. cost is 26977.12. Job went well. - 14:15- Test lines to 9,550 psi, OK. Frac Uteland Butte stage 3 as follows: avg rate 35 bpm, avg press 5055 psi, max rate 35 bpm, max press 5665 psi. Fraced with 1772 bbl of 20# Delta 200. 3810 lbs 0.5-1.0 PPG 100 mesh. 74000lbs 0.5-3PPG 30/50 white. 15000lbs 4 PPG 30/50 CRC. Avg HHP: 4324. Sleeve shifted at 6165 psi.

4435 psi before shifting. 4420 psi after shifting. Stage 3 est. cost is 26579.85. Job went well. - 15:15- Test lines to 9,550 psi, OK. Frac Uteland Butte stage 4 as follows: avg rate 35 bpm, avg press 5030 psi, max rate 36 bpm, max press 5155 psi. Fraced with 1749 bbl of 20# Delta 200. 93700lbs 0.5-4PPG 30/50 white. 15800lbs 5 PPG 30/50 CRC. Avg HHP: 4327. Sleeve shifted at 6850 psi. 4570 psi before shifting. 4060 psi after shifting. Stage 4 est. cost is 32121.04. Job went well. - 16:10- Test lines to 9,550 psi, OK. Frac Uteland Butte stage 5 as follows: avg rate 35 bpm, avg press 4595 psi, max rate 35 bpm, max press 4835 psi. Fraced with 1268 bbl of 17# Delta 200. 93800lbs 0.5-4PPG 30/50 white. 16500lbs 6 PPG 30/50 CRC. Avg HHP: 3942. Sleeve shifted at 6780 psi. 4730 psi before shifting. 4465 psi after shifting. Stage 5 est. cost is 32287.40. Job went well. - 16:55- Stage 6; Test lines to 9,550 psi, OK. Frac Uteland Butte stage 6 as follows: avg rate 36 bpm, avg press 4815 psi, max rate 36 bpm, max press 5405 psi. Fraced with 1285 bbl of 17# Delta 200. 94300lbs 0.5-4PPG 30/50 white. 18300lbs 6 PPG 30/50 CRC. Avg HHP: 4213. Sleeve shifted at 7065 psi. 4940 psi before shifting. 4690 psi after shifting. Stage 6 est. cost is \$33,370.76. Job went well. - 17:35- Stage 7; Test 9,550 psi, OK. Frac Uteland Butte stage 7 as follows: avg rate 36 bpm, avg press 5200 psi, max rate 36 bpm, max press 6925 psi. Fraced with 1303 bbl of 17# Delta 200. 94900lbs 0.5-4PPG 30/50 white. 15300lbs 6 PPG 30/50 CRC. Avg HHP: 4550. Sleeve shifted at 6405 psi. 4420 psi before shifting. 4690 psi after shifting. Stage 7 est. cost is \$32,896.24. Job went well. - 19:30- Stage 8; Test lines to 9,550 psi, OK. Frac Uteland Butte stage 8 as follows: avg rate 45 bpm, avg press 5083 psi, max rate 47 bpm, max press 6317 psi. Fraced with 1533 bbl of 17# Delta 200. 94000lbs 0.5-4PPG 30/50 white. 17100lbs 6 PPG 30/50 CRC. Avg HHP: 5606. Sleeve shifted at 7690 psi. 5624 psi before shifting. 4411 psi after shifting. Stage 8 est. cost is \$33,573.06. Job went well. - 20:15 Stage 9: Test lines to 9,550 psi, OK. Frac Uteland Butte stage 9 as follows: avg rate 45 bpm, avg press 5000 psi, max rate 46 bpm, max press 6260 psi. Fraced with 1344 bbl of 17# Delta 200. 94000lbs 0.5-4PPG 30/50 white. 15300lbs 6 PPG 30/50 CRC. Avg HHP: 5515. Sleeve shifted at 7107 psi. 5161 psi before shifting. 5156 psi after shifting. Stage 9 est. cost is \$33,241.17. Job went well. - 21:30 Stage 11: Test lines to 9,550 psi, OK. Frac Uteland Butte stage 11 as follows: avg rate 45 bpm, avg press 4815 psi, max rate 46 bpm, max press 5836 psi. Fraced with 1340 bbl of 17# Delta 200. 94100lbs 0.5-4PPG 30/50 white. 17900lbs 6 PPG 30/50 CRC. Avg HHP: 5312. Sleeve shifted at 6487 psi. 4719 psi before shifting. 4760 psi after shifting. Stage 11 est. cost is \$33,220.36. Job went well. - 22:05 Stage 12: Test lines to 9,550 psi, OK. Frac Uteland Butte stage 12 as follows: avg rate 45 bpm, avg press 4948 psi, max rate 46 bpm, max press 7387 psi. Fraced with 1328 bbl of 17# Delta 200. 93900lbs 0.5-4PPG 30/50 white. 17700lbs 6 PPG 30/50 CRC. Avg HHP: 5457. Sleeve shifted at 7754 psi. 6429 psi before shifting. 4639 psi after shifting. Stage 12 est. cost is \$32,888.19. Job went well. - 22:45 Stage 13: Test lines to 9,550 psi, OK. Frac Uteland Butte stage 13 as follows: avg rate 46 bpm, avg press 5020 psi, max rate 47 bpm, max press 7057 psi. Fraced with 1341 bbl of 17# Delta 200. 93800lbs 0.5-4PPG 30/50 white. 18900lbs 6 PPG 30/50 CRC. Avg HHP: 5660. Sleeve shifted at 7477 psi. 5663 psi before shifting. 4532 psi after shifting. Stage 13 est. cost is \$36,290.62. Job went well. - 23:20 Stage 14: Test lines to 9,550 psi, OK. Frac Uteland Butte stage 14 as follows: avg rate 45 bpm, avg press 4817 psi, max rate 45 bpm, max press 6595 psi. Fraced with 1295 bbl of 17# Delta 200. 93900lbs 0.5-4PPG 30/50 white. 16900lbs 6 PPG 30/50 CRC. Avg HHP: 5313. Sleeve shifted at 7462 psi. 5382 psi before shifting. 3103 psi after shifting. Stage 14 est. cost is \$32,674.52. Job went well.

Daily Cost: \$0

Cumulative Cost: \$632,484

7/28/2013 Day: 6

Completion

Rigless on 7/28/2013 - Frac Stages 15-20. RD Frac, ND frac tree, NU BOP stack. - 11:00; am- Test lines to 9,550 psi, OK. Frac Uteland Butte stage 19 as follows: avg rate 44 bpm, avg press 5850 psi, max rate 46 bpm, max press 8130 psi. Fraced with 1277 bbl of 17# Delta 200. 96400lbs 1-4PPG 30/50 white. 23400lbs 6 PPG 30/50 CRC. Avg HHP: 6309. Sleeve shifted at 8360psi. 7810 psi before shifting. 4240 psi after shifting. Stage 19 est. cost is

\$32626.23. Screened out on stage 19 placed 89.1% of designed proppant was placed into formation. - Stage 15; We pumped the ball down. Then we shut down due to not having enough sand in hoppers. Sand trucks are loading Sand Kings with sand. - 18:00 ? 23:45 Continue to RIH 4 ?? gauge ring into liner, Pull short strip and POH with 4 ?? gauge ring (3.625?), PUMU 4 ?? HES 10K kill plug #1 and RIH and set at 7,976?, POH with setting tools and recovered all tools, Bleed off casing pressure (2000 Psi) 0 Psi on casing, PUMU 4 ?? HES 10K kill plug #2 and RIH and set at 7,936?, POH with setting tools and recovered all tools, RDMO JW Wireline unit. - Weatherford starting to nipple down Frac Stack. - 0240 Stage 16: Test lines to 9,550 psi, OK. Frac Uteland Butte stage 16 as follows: avg rate 45 bpm, avg press 4505 psi, max rate 47 bpm, max press 5650 psi. Fraced with 1314 bbl of 17# Delta 200. 94100lbs 0.5-4PPG 30/50 white. 16300lbs 6 PPG 30/50 CRC. Avg HHP: 4969. Sleeve shifted at 6726 psi. 4759 psi before shifting. 4214 psi after shifting. Stage 16 est. cost is \$33,111.86. Job went well. - 17:00- Current Status; wireline is RU lubricator to run in hole with a gauge ring. Weatherford test unit will pressure test the lubricator to 5000psi. - 13:40- Test lines to 9,550 psi, OK. Frac Uteland Butte stage 20 as follows: avg rate 45 bpm, avg press 4760 psi, max rate 46 bpm, max press 5805 psi. Fraced with 1906 bbl of 20# Delta 200. 94400lbs 1-4PPG 30/50 white. 20500lbs 6 PPG 30/50 CRC. Avg HHP: 5192. Sleeve shifted at 5050psi. 6915 psi before shifting. 4900 psi after shifting. Stage 19 est. cost is \$32626.23. Screened out on stage 19 placed 89.1% of designed proppant was placed into formation. - Current Status; Flowing the well back at 6bbbls a min. At 1400psi. After screening out stg# 19. We will get back two bottoms and flush well. - 23:20 Stage 15: Test lines to 9,550 psi, OK. Frac Uteland Butte stage 15 as follows: avg rate 46 bpm, avg press 4690 psi, max rate 47 bpm, max press 6318 psi. Fraced with 1327 bbl of 17# Delta 200. 94100lbs 0.5-4PPG 30/50 white. 15100lbs 6 PPG 30/50 CRC. Avg HHP: 5288. Sleeve shifted at 6706 psi. 4831 psi before shifting. 4142 psi after shifting. Stage 15 est. cost is \$32,851.28. Job went well. - Screened out stg #18 Currently Flowing the well back at 6bbbls a min. We will get back two bottoms and flush well. Current Status; Well is flushed dropping ball for stg #19. Frac report for stg#17 & #18 to follow. 07:25; Stage 18: Test lines to 9,550 psi, OK. Frac Uteland Butte stage 18 as follows: avg rate 45 bpm, avg press 4840 psi, max rate 46 bpm, max press 6710 psi. Fraced with 1239 bbl of 17# Delta 200. 93800lbs 1-4PPG 30/50 white. 25400lbs 6 PPG 30/50 CRC. Avg HHP: 5386. Sleeve shifted at 5050psi. 6915 psi before shifting. 4900 psi after shifting. Stage 18 est. cost is \$32626.23. Screened out placed 89.1% of designed proppant was placed into formation. Screened out stg #18 Currently Flowing the well back at 6bbbls a min. We will get back two bottoms and flush well. - Started back up the frac on stg #17. 06:30- Stage 17: Test lines to 9,550 psi, OK. Frac Uteland Butte stage 17 as follows: avg rate 45bpm, avg press 4630 psi, max rate 48 bpm, max press 5050 psi. Fraced with 1369 bbls of 17# Delta 200. 93700lbs 1-5PPG 30/50 white. 28400lbs 6 PPG 30/50 CRC. Avg HHP: 5095. Sleeve shifted at 5445 psi. 5060 psi before shifting. 5140 psi after shifting. Stage 17 est. cost is \$36119.40. Job went well. - 03:30- Shut Down Waiting on Sand?.

Daily Cost: \$0

Cumulative Cost: \$1,575,372

7/29/2013 Day: 7

Completion

Mountain States #1409 on 7/29/2013 - Finsihed Frac and started rigging down HES Frac & Support Equipment. Ran 2 HES 10K Kill Plugs. Wait on prod crew to lay flow lines, RU WOR and snubbing unit. - 00:01- Current Status; Weatherford is Rigging down Frac Stack. Once Frac Stack is rigged down out of the way. Weatherford will rig up the Rig BOP and Test to NFX Policy. 02:30- Current Status; Weatherford has rigged off the Frac Stack and they are stacking the BOPs - 02:30- Current Status; Weatherford has rigged off the Frac Stack and they are stacking the BOPs. 04:00- Current Status; Weatherford has torqued up the stack and are ready to start testing. 05:30- Current Status; Weatherford is still testing Stack. Test good - Waiting on construction NU production flow lines - Spot rig, Start to RU 8unit and shut down for rain, lighting and high wind storm to pass area, - RU WOR and snubbing unit, tourqe snubbing unit up, Change out bag rubber, rain and winds continue to come across location,

start testing of snubbing unit.
Daily Cost: \$0
Cumulative Cost: \$1,622,896

7/30/2013 Day: 8

Completion

Mountain States #1409 on 7/30/2013 - test snubbing unit, PUMU & RIH with BHA, Tag kill plugs, drill out kill plug, - Kill plug #2 RIH w/BHA Tag Kill plug #2 @ 7,936?, N-WT 48K, SO-WT 46k, PU-WT 50K, Drilling on plug, But something not quit right, shut down pump, bled off tbg, flapper holding, bring pump back on line, and continue to turn on plug for 5 mins, plug free, not drilling as should. Drill plug in 5 min. Pump Rate: 2.8 bpm @ 4,800 psi, WH 2,500 psi returns 3.5 bpm. On 20/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1200, Drill-Torque 1400. RIH 1 jt Tag Kill plug #1 jt #257 Continue to PU MU BHA: 4 Blade flat bottom mill 3.750 OD, 1.250 ID L-1.46, Double Flapper 2.950 1.000 ID L-1.26, X Sub 2-3/8? reg pin 2.950 OD 1.250 ID X 2-3/8? PH6 box 2.950 OD 1,250 ID L-0.64, RIH w/159 jts PU R-Nipple 2.909 OD 1.560 ID L-0.64, (4,952?) Tag kill plug #2 @ 7,936?, Jt #256 Pressure up system to circulation pressure and drill out kill plug #2, Kill plug #2 RIH w/BHA Tag Kill plug #2 @ 7,936?, N-WT 48K, SO-WT 46k, PU-WT 50K, Drilling on plug, But something not quit right, shut down pump, bled off tbg, flapper holding, bring pump back on line, and continue to turn on plug for 5 mins, plug free, not drilling as should. Drill plug in 5 min. Pump Rate: 2.8 bpm @ 4,800 psi, WH 2,500 psi returns 3.5 bpm. On 20/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1200, Drill-Torque 1400. RIH 1 jt Tag Kill plug #1 jt #257 Kill plug #1 RIH w/BHA Tag Kill plug #1 @ 7,936?, N-WT 48K, SO-WT 46k, PU-WT 50K, Drill plug in 40 min. Pump Rate: 2.8 bpm @ 4,800 psi, WH 2,600 psi returns 3.5 bpm. On 15/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1200, Drill-Torque 1400. - Continue to PU MU BHA: 4 Blade flat bottom mill 3.750 OD, 1.250 ID L-1.46, Double Flapper 2.950 1.000 ID L-1.26, X Sub 2-3/8? reg pin 2.950 OD 1.250 ID X 2-3/8? PH6 box 2.950 OD 1,250 ID L-0.64, RIH w/159 jts PU R-Nipple 2.909 OD 1.560 ID L-0.64, (4,952?) Tag kill plug #2 @ 7,936?, Jt #256 - Unload 2 3/8? PH-6 tubing from runners yard, Lay out on racks and QT Casing crew drifting and cleaning same, 193 jts unloaded with 424 jts total pipe on location, 231 jts in hole, 7,179', - Waiting Runners to delivered 193 jts 2-3/8 P-110 PH6 tbg - Held PJSM & JSA. Current Operation: PU MU BHA 4 Blade flat bottom mill 3.750 OD, 1.250 ID L-1.46, Double Flapper 2.950 1.000 ID L-1.26, X Sub 2-3/8? reg pin 2.950 OD 1,250 ID X 2-3/8? PH6 box 2.950 OD 1,250 ID L-0.64, 1 jt 2-3/8? 5.95# P-110 PH6 L-31.19, RN-Nipple 2.909 OD 1.560 ID L-0.75RIH w/159 jts PU R-Nipple 2.909 OD 1.560 ID L-0.64, RIH w/231 jts @ 7,184.54. Run out of Tubing. - Continue to RU snubbing unit, change out bag rubber in unit, and test unit to Newfield's procedure, 250 Psi low, 5,000 Psi high, 3,500 Psi on bag, Blinds leaking, redress and retest. Blinds B.O.P had crack in door, change out door put new door on, test to Newfield's procedure, 250 low 5,000 high test good.

Daily Cost: \$0
Cumulative Cost: \$1,743,044

7/31/2013 Day: 9

Completion

Mountain States #1409 on 7/31/2013 - Dril out sleeves, circ bottoms up, POH laying down workstring, - Sleeve #4 @ 12,097?, N-WT 46K, SO-WT 44k, PU-WT 58, Drill plug in 26 min. Pump Rate: 2.8 bpm @ 4,900 psi, WH 2,350 psi returns 3.5 bpm. On 15/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1700, Drill-Torque 2400. RIH 6 jt Tag Sleeve 3 jt #397 Sleeve #3 @ 12,323?, N-WT 46K, SO-WT 44k, PU-WT 58, Drill plug in 22 min. Pump Rate: 2.9 bpm @ 4,900 psi, WH 2,400 psi returns 3.5 bpm. On 16/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1700, Drill-Torque 2400. RIH 6 jt Sleeve #2 @ 12,513?, N-WT 46K, SO-WT 44k, PU-WT 58, Drill plug in 28 min. Pump Rate: 2.8 bpm @ 4,900 psi, WH 2,350 psi returns 3.5 bpm. On 16/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1600, Drill-Torque 2400. - Sleeve #20 RIH w/BHA Tag Sleeve #20 @ 8,991?, N-WT 52K, SO-WT 50k, PU-WT 54, Drill plug in 17min.

Pump Rate: 2.8 bpm @ 4,800 psi, WH 2,600 psi returns 3.5 bpm. On 15/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1400, Drill-Torque 1700. RIH 5 jt Tag Sleeve 19 jt #296 Sleeve #19 RIH w/BHA Tag Sleeve #19 @ 9,163?, N-WT 52K, SO-WT 50k, PU-WT 54, Drill plug in 6 min. Pump Rate: 2.8 bpm @ 4,800 psi, WH 2,600 psi returns 3.5 bpm. On 15/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1400, Drill-Torque 1700. RIH 6 jt Tag Sleeve 18 jt #301 Sleeve #18 RIH w/BHA Tag Sleeve #18 @ 9,357?, N-WT 52K, SO-WT 50k, PU-WT 54, Drill plug in 7 min. Pump Rate: 2.8 bpm @ 4,800 psi, WH 2,600 psi returns 3.5 bpm. On 15/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1400, Drill-Torque 1700. RIH 7 jt Tag Sleeve 17 jt #308 - RIH tag @ 12,709 circulating bottom up, Continued to circulate bottoms up 2.5 time?s well volume. 700 +- bbls from 12,709?. Returns are clean, very little sand in returns, Blue dye came around with bottom?s sweeps and no sand in samples, light skim of oil in sample. - Shut in well bore, Hang back swivel in derrick, POH laying down 2-3/8? 5.95# P-110 PH-6 workstring on racks, Laid down 120 jts on racks, left 290 jts in hole, 9,015? tbg hanging in well. - Sleeve #17 RIH w/BHA Tag Sleeve #17 @ 9,549?, N-WT 52K, SO-WT 50k, PU-WT 54, Drill plug in 10min. Pump Rate: 2.8 bpm @ 4,800 psi, WH 2,600 psi returns 3.5 bpm. On 15/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1500, Drill-Torque 1800. RIH 7 jt Tag Sleeve 16 jt #314 Sleeve #16 RIH w/BHA Tag Sleeve #16 @ 9,735?, N-WT 52K, SO-WT 50k, PU-WT 54, Drill plug in 14 min. Pump Rate: 2.8 bpm @ 4,800 psi, WH 2,800 psi returns 3.5 bpm. On 15/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1500, Drill-Torque 1800. RIH 7 jt Tag Sleeve 15 jt #321 - Sleeve #15 @ 9,964?, N-WT 52K, SO-WT 50k, PU-WT 54, Drill plug in 17min. Pump Rate: 2.8 bpm @ 4,500 psi, WH 2,400 psi returns 3.5 bpm. On 15/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1400, Drill-Torque 1700. RIH 5 jt Tag Sleeve 14 jt #327 Sleeve #14 @ 10,152?, N-WT 52K, SO-WT 50k, PU-WT 54, Drill plug in 25 min. Pump Rate: 2.8 bpm @ 4,400 psi, WH 2,200 psi returns 3.5 bpm. On 15/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1400, Drill-Torque 1700. RIH 6 jt Tag Sleeve 13 jt #333 Sleeve #13 @ 10,342?, N-WT 52K, SO-WT 50k, PU-WT 54, Drill plug in 9 min. Pump Rate: 2.8 bpm @ 4,500 psi, WH 2,200 psi returns 3.5 bpm. On 16/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1400, Drill-Torque 1700. RIH 6 jt Tag Sleeve 12 jt #339 Sleeve #12 @ 10,528?, N-WT 52K, SO-WT 50k, PU-WT 54, Drill plug in 28min. Pump Rate: 2.8 bpm @ 4,800 psi, WH 2,600 psi returns 3.5 bpm. On 15/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1500, Drill-Torque 1800. RIH 7 jt Tag Sleeve 11 jt #346 - Sleeve #10 @ 10,941?, N-WT 52K, SO-WT 50k, PU-WT 54, Drill plug in 17min. Pump Rate: 2.8 bpm @ 4,500 psi, WH 2,300 psi returns 3.5 bpm. On 15/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1400, Drill-Torque 1700. RIH 5 jt Tag Sleeve 9 jt #359 Sleeve #9 @ 11,127?, N-WT 52K, SO-WT 50k, PU-WT 54, Drill plug in 25 min. Pump Rate: 2.8 bpm @ 4,400 psi, WH 2,200 psi returns 3.5 bpm. On 15/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1400, Drill-Torque 1700. RIH 6 jt Tag Sleeve 8 jt #365 - Sleeve #8 @ 11,314?, N-WT 46K, SO-WT 44k, PU-WT 58, Drill plug in 20min. Pump Rate: 2.8 bpm @ 4,500 psi, WH 2,300 psi returns 3.5 bpm. On 15/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1700, Drill-Torque 2400. RIH 5 jt Tag Sleeve 7 jt #372 Sleeve #7 @ 11,538?, N-WT 46K, SO-WT 44k, PU-WT 58, Drill plug in 26 min. Pump Rate: 2.8 bpm @ 4,400 psi, WH 2,350 psi returns 3.5 bpm. On 15/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1700, Drill-Torque 2400. RIH 6 jt Tag Sleeve 6 jt #378 Sleeve #6 @ 11,724?, N-WT 46K, SO-WT 44k, PU-WT 58, Drill plug in 22 min. Pump Rate: 2.89bpm @ 4,900 psi, WH 2,350 psi returns 3.5 bpm. On 16/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1700, Drill-Torque 2400. RIH 6 jt Tag Sleeve #5 @ 11,912?, N-WT 46K, SO-WT 44k, PU-WT 58, Drill plug in 22 min. Pump Rate: 2.89bpm @ 4,900 psi, WH 2,350 psi returns 3.5 bpm. On 16/64 Choke. Pump 10 bbl gel sweep. Free-Torque 1600, Drill-Torque 2400. RIH 6 jt Tag

Daily Cost: \$0

Cumulative Cost: \$1,803,062

8/1/2013 Day: 10

Completion

Mountain States #1409 on 8/1/2013 - POH laying down PH6 tbg, PUMU and RIH 2 3/8 production string. - Continue to snub in 2-3/8 #4.7 L-80 eue 8rd Production String. RIH tbg and BHA as follows: 2-3/8? notched collar (.40?), 2? pup jt 2-3/8? 34.7 L-80 (2.0?), 4?

Perforated sub 2-3/8? #4.7 L-80 (4.15?), Weatherford 10K ceramic burst disk (.79?), 2-3/8? XN Nipple 1.875? ID w/1.791 No-go (1.22?), 1 jt 2-3/8? #4.7 L-80 eue (32.36?), 2-3/8? X Nipple 1.875? ID (1.17?). Fill tbg ever 1,000?, 253 jts 2-3/8? 34.7 L-80 L-2.0 tbg to surface (8,187.05?), EOT 8,248.24? - Tally 264 jts 2-3/8 #4.7 L-80 eue 8rd. RIH BHA 2-3/8? notched collar L-.40, 2 ft pup jt 2-3/8? 34.7 L-80 L-2.0, 4ft Perforated sub 2-3/8? #4.7 L-80 L-4.15, Weatherford 10K ceramic burst disk L-.79, 2-3/8? XN Nipple 1.875? ID w/1.791 No-go L-1.22 1 jt 2-3/8? #4.7 L-80 eue, 2-3/8? X Nipple 1.875? ID L-1.17. Fill tbg ever 1,000ft - Continue to POH laying down 2-3/8? 5.95# P-110 PH-6 workstring on racks, 2300 psi on well subb last 150 jts out. LD 409 jts, DO BHA. Loading tbg on Runners trucks hauling back. Runner delivered production tbg QT clean & drift tbg

Daily Cost: \$0

Cumulative Cost: \$1,924,927

8/2/2013 Day: 11

Completion

Mountain States #1409 on 8/2/2013 - Land production string, 8,248.24', NDMO Mt State snubbing unit, ND BOP stack, NU tree and test to Newfield's procedure, 250 Psi low, 10,000 Psi high. POP 8/2/13 @ 1200hrs - land tbg w/TWCV and hanger @ 8,248.24?, Production string ran as follows:: 2-3/8? notched collar (.40?), 2? pup jt 2-3/8? 34.7 L-80 (2.0?), 4? Perforated sub 2-3/8? #4.7 L-80 (4.15?), Weatherford 10K ceramic burst disk (.79?), 2-3/8? XN Nipple 1.875? ID w/1.791 No-go (1.22?), 1 jt 2-3/8? #4.7 L-80 eue (32.36?), 2-3/8? X Nipple 1.875? ID (1.17?). Fill tbg ever 1,000?, 253 jts 2-3/8? 34.7 L-80 L-2.0 tbg to surface (8,187.05?), EOT 8,248.24?, Cameron on location with hanger and tree, Land tbg w/TWCV and hanger @8,248.24?, Test hanger to 250 Psi low, 10,000 Psi high. RDMO Hydra-Walk, Pipe racks, prep rig and snubbing unit to RDMO. - ND snubbing unit, ND BOP stack, NU tree and test as per Newfield's procedures. Test, Test good. - Released All Vendors and Equipment - Frac tanks will be moved as soon as a Location is ready - 1700 BBLs Fresh water being moved to next Job . Well Turned over to production 8/2/13 @ 1200hrs - - RDMO WOR, NU Weatherford pump. Burst disc @ 3,500" psi, pump 2.5 bpm @ 3,000 pis, pump 2X tubing volumes, total-68' bbls

Daily Cost: \$0

Cumulative Cost: \$2,048,795

8/6/2013 Day: 12

Completion

Rigless on 8/6/2013 - Capture Cost in DCR - Capture Cost in DCR

Daily Cost: \$0

Cumulative Cost: \$2,067,415

8/15/2013 Day: 13

Completion

Rigless on 8/15/2013 - Enter Cost in DCR - Captured costs 8/29/13 as delayed tickets come through.

Daily Cost: \$0

Cumulative Cost: \$1,783,485

Pertinent Files: Go to File List