

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 State 11-36-3-4W								
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 mcozler@newfield.com								
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML-51677			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>								
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Rodney L. & Christine Swasey						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-738-2245								
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') HC 64 Box 147A, Duchesne, UT 84021						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')								
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>								
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN		
LOCATION AT SURFACE		2490 FSL 2401 FWL		NESW		36		3.0 S		4.0 W		U		
Top of Uppermost Producing Zone		2490 FSL 2401 FWL		NESW		36		3.0 S		4.0 W		U		
At Total Depth		2067 FSL 2401 FWL		NESW		36		3.0 S		4.0 W		U		
21. COUNTY DUCHEсне			22. DISTANCE TO NEAREST LEASE LINE (Feet) 2067			23. NUMBER OF ACRES IN DRILLING UNIT 40								
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applicable For Drilling or Completed) 0			26. PROPOSED DEPTH MD: 10000 TVD: 9977								
27. ELEVATION - GROUND LEVEL 5429			28. BOND NUMBER B001834			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	13.375	0 - 60	48.0	H-40 ST&C	0.0	Class G		41	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			
Prod	8.75	5.5	0 - 10023	17.0	P-110 LT&C	10.0	Premium Lite High Strength		455	3.53	11.0			
							50/50 Poz		586	1.24	14.3			
ATTACHMENTS														
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES														
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN								
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER								
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP								
NAME Don Hamilton				TITLE Permitting Agent				PHONE 435 719-2018						
SIGNATURE				DATE 07/11/2012				EMAIL starpoint@etv.net						
API NUMBER ASSIGNED 43013515570000				APPROVAL  Permit Manager										

Newfield Production Company
State 11-36-3-4W
NE/SW Section 36, T3S, R4W
Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta	surface
Green River	3,010'
Garden Gulch Member	5,640'
Wasatch	8,285'
TD (TVD)	10,000'
TD (MD)	10,023'

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

Base of moderately saline	337'	(water)
Green River	7,785' - 8,285'	(oil)
Wasatch	8,285' TD	(oil)

3. Pressure Control

<u>Section</u>	<u>BOP Description</u>
Surface	12-1/4" drifter

Production The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 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							Burst	Collapse	Tension
Conductor 13 3/8	0'	60'	48	H-40	STC	--	--	--	1,730	770	322,000
Surface 9 5/8	0'	2,500'	36	J-55	STC	8.33	8.33	12	3,520	2,020	394,000
Production 5 1/2	0'	10,023'	17	P-110	LTC	9.5	10	--	2.51	2.54	4.38
									10,640	7,460	445,000
									2.70	1.78	2.61

Assumptions:

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

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

All collapse calculations assume fully evacuated casing with a gas gradient

All tension calculations assume air weight of casing

Gas gradient = 0.1 psi/ft

All casing shall be new.

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

5. Cement

Job	Hole Size	Fill	Slurry Description	ft ³	OH excess	Weight (ppg)	Yield (ft ³ /sk)
				sacks			
Conductor	17 1/2	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	48	15%	15.8	1.17
				41			
Surface Lead	12 1/4	2,000'	Premium Lite II w/ 3% KCl + 10% bentonite	720	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			
Production Lead	8 3/4	5,523'	Premium Lite II w/ 3% KCl + 10% bentonite	1604	15%	11.0	3.53
				455			
Production Tail	8 3/4	2,500'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	726	15%	14.3	1.24
				586			

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 production casing string will be calculated from an open hole caliper log, plus 15% excess.

6. Type and Characteristics of Proposed Circulating Medium

Interval

Description

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 10.0 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. A cement bond log will be run from PBTD to the cement top behind the production casing.

Cores: As deemed necessary.

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

8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.49 psi/ft gradient.

$$10,000' \times 0.49 \text{ psi/ft} = 4940 \text{ psi}$$

No abnormal temperature is expected. No H₂S is expected.

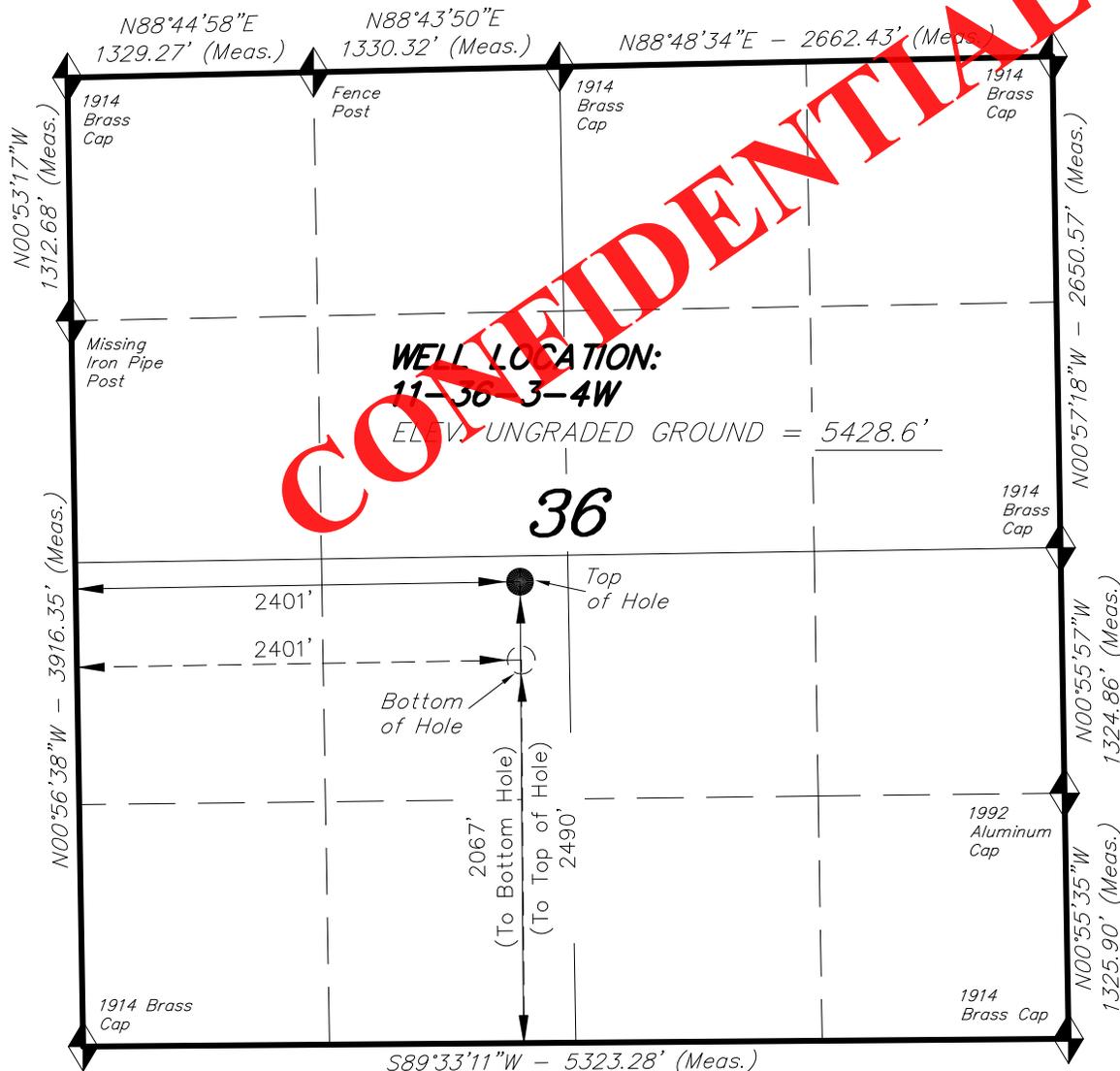
9. Other Aspects

This is planned as an "S" shaped directional well for a legal bottomhole location. A directional plan is attached.

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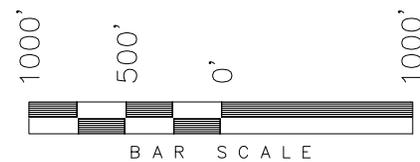
T3S, R4W, U.S.B.&M.

NEWFIELD EXPLORATION COMPANY



WELL LOCATION, 11-36-3-4W, LOCATED AS SHOWN IN THE NE 1/4 SW 1/4 OF SECTION 36, T3S, R4W, U.S.B.&M. DUCHESNE COUNTY, UTAH.

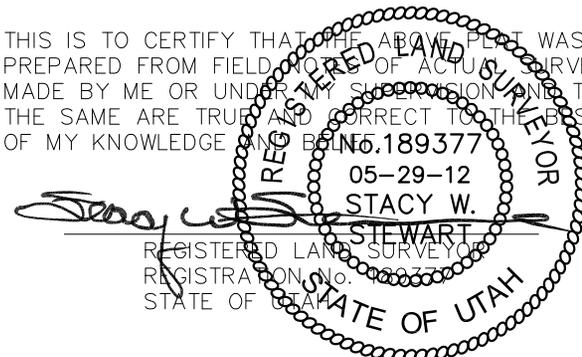
TARGET BOTTOM HOLE, 11-36-3-4W, LOCATED AS SHOWN IN THE NE 1/4 SW 1/4 OF SECTION 36, T3S, R4W, U.S.B.&M. DUCHESNE COUNTY, UTAH.



NOTES:

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Bottom Hole Bears S00°57'02"E 422.71' from the Top of Hole.

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.



\blacklozenge = 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'

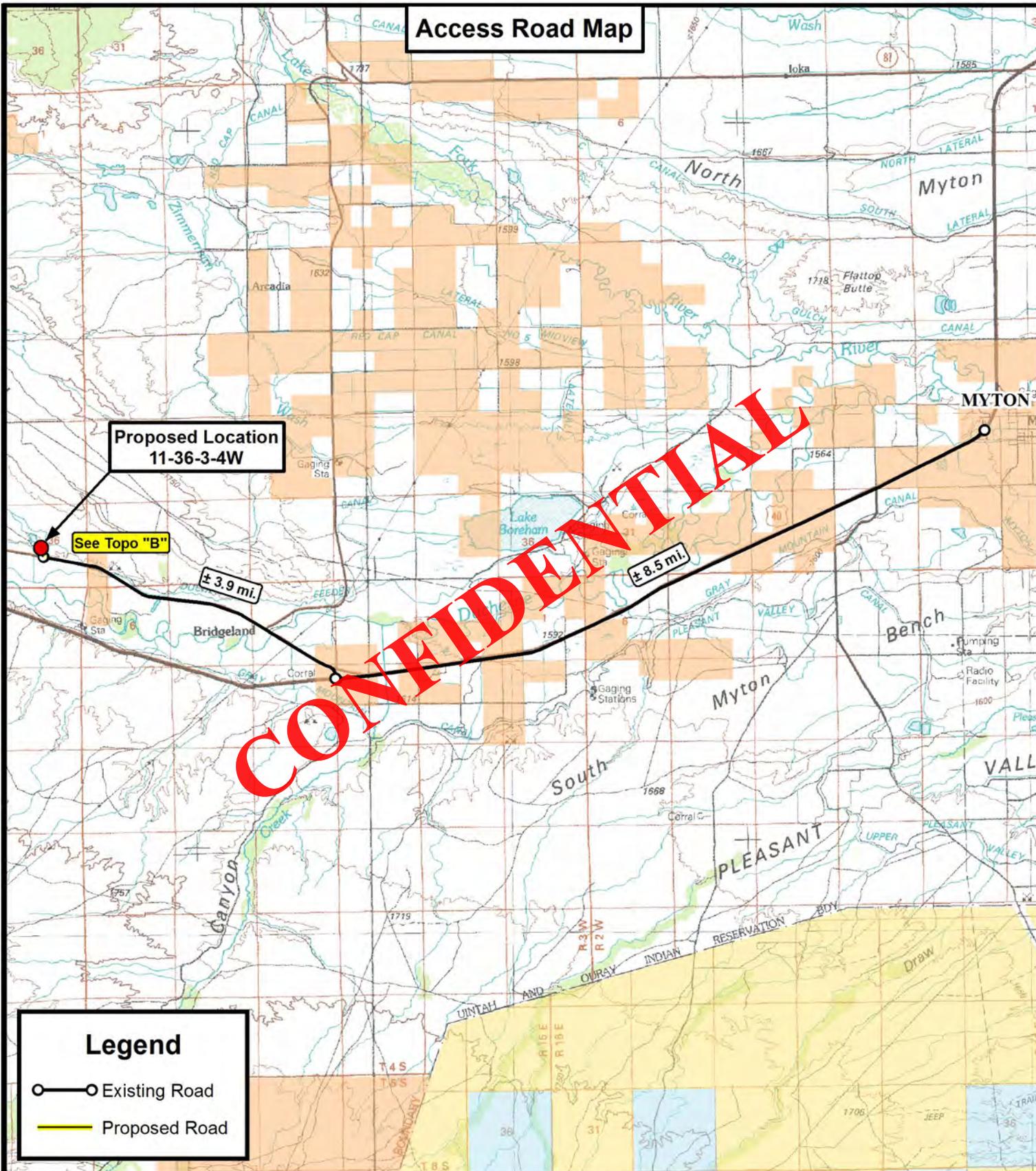
11-36-3-4W
 (Surface Location) NAD 83
 LATITUDE = 40° 10' 39.46"
 LONGITUDE = 110° 17' 06.67"

TRI STATE LAND SURVEYING & CONSULTING

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

DATE SURVEYED: 01-27-12	SURVEYED BY: S.V.	VERSION:
DATE DRAWN: 02-16-12	DRAWN BY: M.W.	V3
REVISED: 05-29-12 L.K.	SCALE: 1" = 1000'	

Access Road Map



**Proposed Location
11-36-3-4W**

See Topo "B"

± 3.9 mi.

± 8.5 mi.

Legend

- Existing Road
- Proposed Road

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

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



NEWFIELD EXPLORATION COMPANY

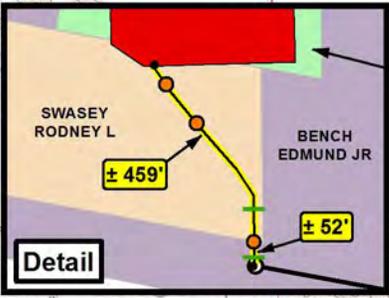
**11-36-3-4W
SEC. 36, T3S, R4W, U.S.B.&M.
Duchesne County, UT.**

DRAWN BY:	D.C.R.	REVISED:	05-29-12 A.P.C.	VERSION:
DATE:	02-16-2012			V3
SCALE:	1:100,000			

TOPOGRAPHIC MAP

SHEET
A

Access Road Map



**Proposed Location
11-36-3-4W**

See "Detail"

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Legend

- Existing Road
- Proposed Road
- Culvert Required
- Cattle Guard Required

Total Road Distances	
Proposed Road	± 510'

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

11-36-3-4W
SEC. 36, T3S, R4W, U.S.B.&M.
Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	05-29-12 A.P.C.	VERSION:
DATE:	02-16-2012			V3
SCALE:	1" = 2,000'			

TOPOGRAPHIC MAP

SHEET **B**

Proposed Pipeline Map

**Proposed Location
11-36-3-4W**

**Proposed Gas Pipeline
Not Yet Determined**

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Legend

-  Existing Road
-  Proposed Road

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NEWFIELD EXPLORATION COMPANY

**11-36-3-4W
SEC. 36, T3S, R4W, U.S.B.&M.
Duchesne County, UT.**

DRAWN BY:	D.C.R.	REVISED:	05-29-12 A.P.C.	VERSION:
DATE:	02-16-2012			V3
SCALE:	1" = 2,000'			

TOPOGRAPHIC MAP

SHEET
C

Exhibit "B" Map

**Proposed Location
11-36-3-4W**

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Legend

-  1 Mile Radius
-  Proposed Location

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NEWFIELD EXPLORATION COMPANY

**11-36-3-4W
SEC. 36, T3S, R4W, U.S.B.&M.
Duchesne County, UT.**

DRAWN BY:	D.C.R.	REVISED:	05-29-12 A.P.C.	VERSION:
DATE:	02-16-2012			V3
SCALE:	1" = 2,000'			

TOPOGRAPHIC MAP

SHEET
D

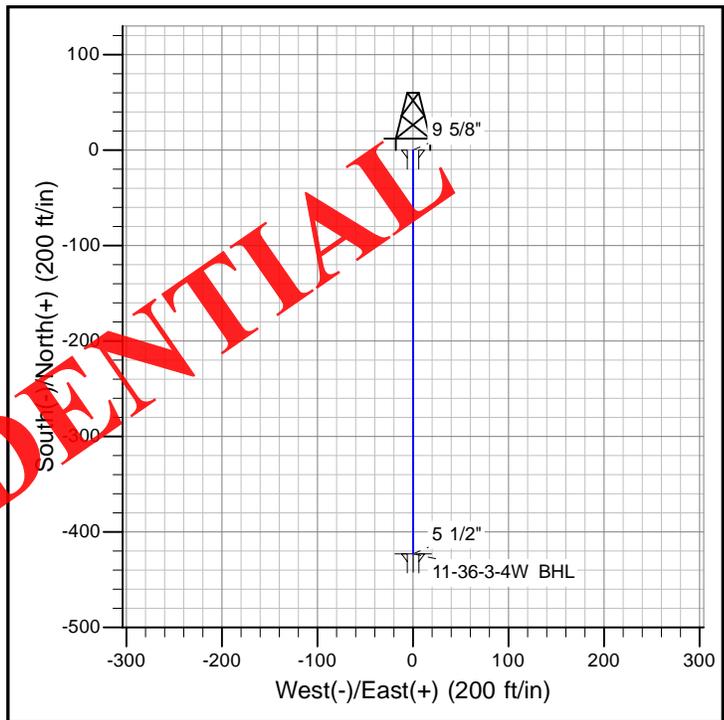
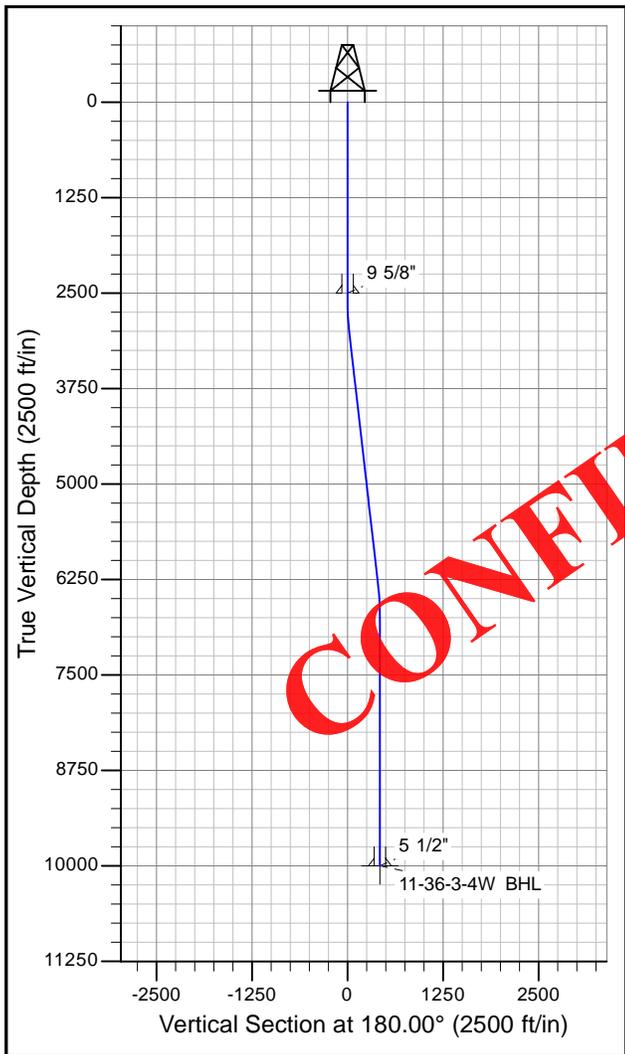


Newfield Production Company

Project: Uinta Basin
Site: State 11-36-3-4W
Well: State 11-36-3-4W
Wellbore: Wellbore #1
Design: Design #1

M Azimuths to True North
 Magnetic North: 11.25°

Magnetic Field
 Strength: 52236.1snT
 Dip Angle: 65.84°
 Date: 8/29/2012
 Model: IGRF200510



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PROJECT DETAILS: Uinta Basin

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

System Datum: Mean Sea Level

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
	22600.0	0.00	0.00	2600.0	0.0	0.0	0.00	0.00	0.0	
	33033.5	6.50	180.00	3032.6	-24.6	0.0	1.50	180.00	24.6	
	46334.6	6.50	180.00	6312.4	-398.4	0.0	0.00	0.00	398.4	
	56768.1	0.00	0.00	6745.0	-423.0	0.0	1.50	180.00	423.0	
	60023.1	0.00	0.00	10000.0	-423.0	0.0	0.00	0.00	423.0	11-36-3-4W BHL

Newfield Production Company

Uinta Basin

State 11-36-3-4W

State 11-36-3-4W

Wellbore #1

Plan: Design #1

Standard Planning Report

29 August 2012

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Planning Report

Database:	EDM 5000.1 Update	Local Co-ordinate Reference:	Site State 11-36-3-4W
Company:	Newfield Production Company	TVD Reference:	RKB @ 5447.0ft
Project:	Uinta Basin	MD Reference:	RKB @ 5447.0ft
Site:	State 11-36-3-4W	North Reference:	True
Well:	State 11-36-3-4W	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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

Site	State 11-36-3-4W				
Site Position:		Northing:	2,205,455.26 m	Latitude:	40° 10' 39.460 N
From:	Lat/Long	Easting:	603,456.55 m	Longitude:	110° 17' 6.670 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.78 °

Well	State 11-36-3-4W					
Well Position	+N/-S	0.0 ft	Northing:	2,205,455.26 m	Latitude:	40° 10' 39.460 N
	+E/-W	0.0 ft	Easting:	603,456.55 m	Longitude:	110° 17' 6.670 W
Position Uncertainty		0.0 ft	Wellhead Elevation:		Ground Level:	5,429.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	8/29/2012	(°)	(°)	(nT)
			11.25	65.84	52,236

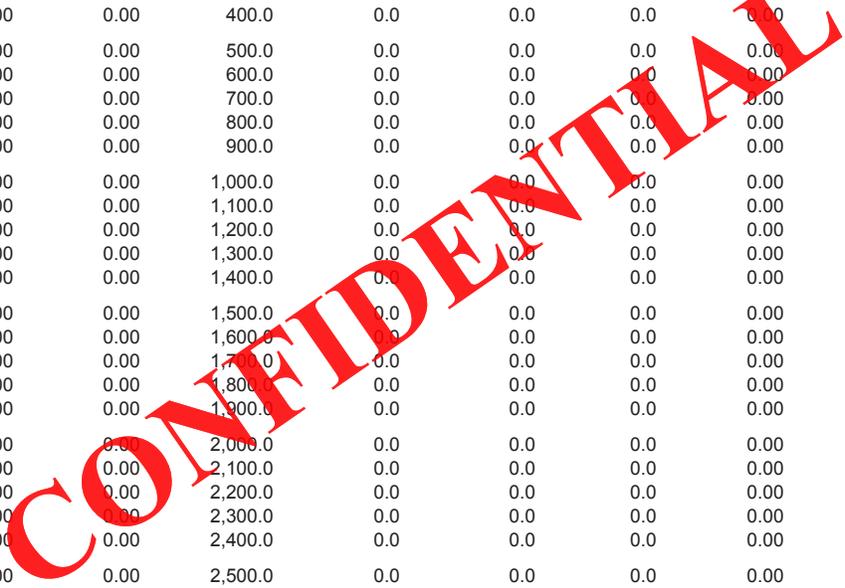
Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	180.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,033.5	6.50	180.00	3,032.6	-24.6	0.0	1.50	1.50	0.00	180.00	
6,334.6	6.50	180.00	6,312.4	-398.4	0.0	0.00	0.00	0.00	0.00	
6,768.1	0.00	0.00	6,745.0	-423.0	0.0	1.50	-1.50	0.00	180.00	
10,023.1	0.00	0.00	10,000.0	-423.0	0.0	0.00	0.00	0.00	0.00	11-36-3-4W BHL

Planning Report

Database:	EDM 5000.1 Update	Local Co-ordinate Reference:	Site State 11-36-3-4W
Company:	Newfield Production Company	TVD Reference:	RKB @ 5447.0ft
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Well:	State 11-36-3-4W	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	1.50	180.00	2,700.0	-1.3	0.0	1.3	1.50	1.50	0.00
2,800.0	3.00	180.00	2,799.9	-5.2	0.0	5.2	1.50	1.50	0.00
2,900.0	4.50	180.00	2,899.7	-11.8	0.0	11.8	1.50	1.50	0.00
3,000.0	6.00	180.00	2,999.3	-20.9	0.0	20.9	1.50	1.50	0.00
3,033.5	6.50	180.00	3,032.6	-24.6	0.0	24.6	1.50	1.50	0.00
3,100.0	6.50	180.00	3,098.6	-32.1	0.0	32.1	0.00	0.00	0.00
3,200.0	6.50	180.00	3,198.0	-43.4	0.0	43.4	0.00	0.00	0.00
3,300.0	6.50	180.00	3,297.4	-54.8	0.0	54.8	0.00	0.00	0.00
3,400.0	6.50	180.00	3,396.7	-66.1	0.0	66.1	0.00	0.00	0.00
3,500.0	6.50	180.00	3,496.1	-77.4	0.0	77.4	0.00	0.00	0.00
3,600.0	6.50	180.00	3,595.4	-88.7	0.0	88.7	0.00	0.00	0.00
3,700.0	6.50	180.00	3,694.8	-100.1	0.0	100.1	0.00	0.00	0.00
3,800.0	6.50	180.00	3,794.1	-111.4	0.0	111.4	0.00	0.00	0.00
3,900.0	6.50	180.00	3,893.5	-122.7	0.0	122.7	0.00	0.00	0.00
4,000.0	6.50	180.00	3,992.9	-134.0	0.0	134.0	0.00	0.00	0.00
4,100.0	6.50	180.00	4,092.2	-145.4	0.0	145.4	0.00	0.00	0.00
4,200.0	6.50	180.00	4,191.6	-156.7	0.0	156.7	0.00	0.00	0.00
4,300.0	6.50	180.00	4,290.9	-168.0	0.0	168.0	0.00	0.00	0.00
4,400.0	6.50	180.00	4,390.3	-179.3	0.0	179.3	0.00	0.00	0.00
4,500.0	6.50	180.00	4,489.6	-190.7	0.0	190.7	0.00	0.00	0.00
4,600.0	6.50	180.00	4,589.0	-202.0	0.0	202.0	0.00	0.00	0.00
4,700.0	6.50	180.00	4,688.3	-213.3	0.0	213.3	0.00	0.00	0.00
4,800.0	6.50	180.00	4,787.7	-224.6	0.0	224.6	0.00	0.00	0.00
4,900.0	6.50	180.00	4,887.1	-236.0	0.0	236.0	0.00	0.00	0.00
5,000.0	6.50	180.00	4,986.4	-247.3	0.0	247.3	0.00	0.00	0.00
5,100.0	6.50	180.00	5,085.8	-258.6	0.0	258.6	0.00	0.00	0.00
5,200.0	6.50	180.00	5,185.1	-269.9	0.0	269.9	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1 Update	Local Co-ordinate Reference:	Site State 11-36-3-4W
Company:	Newfield Production Company	TVD Reference:	RKB @ 5447.0ft
Project:	Uinta Basin	MD Reference:	RKB @ 5447.0ft
Site:	State 11-36-3-4W	North Reference:	True
Well:	State 11-36-3-4W	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,300.0	6.50	180.00	5,284.5	-281.3	0.0	281.3	0.00	0.00	0.00	
5,400.0	6.50	180.00	5,383.8	-292.6	0.0	292.6	0.00	0.00	0.00	
5,500.0	6.50	180.00	5,483.2	-303.9	0.0	303.9	0.00	0.00	0.00	
5,600.0	6.50	180.00	5,582.6	-315.2	0.0	315.2	0.00	0.00	0.00	
5,700.0	6.50	180.00	5,681.9	-326.6	0.0	326.6	0.00	0.00	0.00	
5,800.0	6.50	180.00	5,781.3	-337.9	0.0	337.9	0.00	0.00	0.00	
5,900.0	6.50	180.00	5,880.6	-349.2	0.0	349.2	0.00	0.00	0.00	
6,000.0	6.50	180.00	5,980.0	-360.5	0.0	360.5	0.00	0.00	0.00	
6,100.0	6.50	180.00	6,079.3	-371.9	0.0	371.9	0.00	0.00	0.00	
6,200.0	6.50	180.00	6,178.7	-383.2	0.0	383.2	0.00	0.00	0.00	
6,300.0	6.50	180.00	6,278.1	-394.5	0.0	394.5	0.00	0.00	0.00	
6,334.6	6.50	180.00	6,312.4	-398.4	0.0	398.4	0.00	0.00	0.00	
6,400.0	5.52	180.00	6,377.5	-405.3	0.0	405.3	1.50	-1.50	0.00	
6,500.0	4.02	180.00	6,477.1	-419.3	0.0	413.6	1.50	-1.50	0.00	
6,600.0	2.52	180.00	6,577.0	-419.3	0.0	419.3	1.50	-1.50	0.00	
6,700.0	1.02	180.00	6,676.9	-422.4	0.0	422.4	1.50	-1.50	0.00	
6,768.1	0.00	0.00	6,745.0	-423.0	0.0	423.0	1.50	-1.50	0.00	
6,800.0	0.00	0.00	6,776.9	-423.0	0.0	423.0	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,876.9	-423.0	0.0	423.0	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,976.9	-423.0	0.0	423.0	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,076.9	-423.0	0.0	423.0	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,176.9	-423.0	0.0	423.0	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,276.9	-423.0	0.0	423.0	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,376.9	-423.0	0.0	423.0	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,476.9	-423.0	0.0	423.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,576.9	-423.0	0.0	423.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,676.9	-423.0	0.0	423.0	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,776.9	-423.0	0.0	423.0	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,876.9	-423.0	0.0	423.0	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,976.9	-423.0	0.0	423.0	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,076.9	-423.0	0.0	423.0	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,176.9	-423.0	0.0	423.0	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,276.9	-423.0	0.0	423.0	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,376.9	-423.0	0.0	423.0	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,476.9	-423.0	0.0	423.0	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,576.9	-423.0	0.0	423.0	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,676.9	-423.0	0.0	423.0	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,776.9	-423.0	0.0	423.0	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,876.9	-423.0	0.0	423.0	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,976.9	-423.0	0.0	423.0	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,076.9	-423.0	0.0	423.0	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,176.9	-423.0	0.0	423.0	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,276.9	-423.0	0.0	423.0	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,376.9	-423.0	0.0	423.0	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,476.9	-423.0	0.0	423.0	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,576.9	-423.0	0.0	423.0	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,676.9	-423.0	0.0	423.0	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,776.9	-423.0	0.0	423.0	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,876.9	-423.0	0.0	423.0	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,976.9	-423.0	0.0	423.0	0.00	0.00	0.00	
10,023.1	0.00	0.00	10,000.0	-423.0	0.0	423.0	0.00	0.00	0.00	



Planning Report

Database:	EDM 5000.1 Update	Local Co-ordinate Reference:	Site State 11-36-3-4W
Company:	Newfield Production Company	TVD Reference:	RKB @ 5447.0ft
Project:	Uinta Basin	MD Reference:	RKB @ 5447.0ft
Site:	State 11-36-3-4W	North Reference:	True
Well:	State 11-36-3-4W	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude
11-36-3-4W BHL - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	10,000.0	-423.0	0.0	2,205,326.34	603,458.30	40° 10' 35.280 N	110° 17' 6.670 W

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
2,500.0	2,500.0	9 5/8"	9.625	12.250		
10,023.1	10,000.0	5 1/2"	5.500	7.875		

CONFIDENTIAL

AFFIDAVIT OF EASEMENT, RIGHT-OF-WAY AND SURFACE USE AGREEMENT

Greg Boggs personally appeared before me, being duly sworn, deposes and with respect to State of Utah R649-3-34.7 says:

1. My name is Greg Boggs. I am a Landman for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 ("Newfield").
2. Newfield is the Operator of the proposed State 11-36-3-4W well with a surface location to be positioned in the NESW of Section 36, Township 3 South, Range 4 West, Duchesne County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is George L. Swasey and Jeanette Swasey, Trustees of the Swasey Family Trust dated November 29, 2010, whose address is HC 64 Box 147, Duchesne, UT 84021 ("Surface Owner").
3. Newfield and the Surface Owner have agreed upon an Easement, Right-of-Way and Surface Use Agreement dated April 16, 2012 covering the Drillsite Location and access to the Drillsite Location.

FURTHER AFFIANT SAYETH NOT.

CONFIDENTIAL


Greg Boggs

ACKNOWLEDGEMENT

STATE OF COLORADO §
 §
COUNTY OF DENVER §

Before me, a Notary Public, in and for the State, on this 30th day of July, 2012, personally appeared Greg Boggs, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.


NOTARY PUBLIC

My Commission Expires:

PETER BURNS
NOTARY PUBLIC
STATE OF COLORADO
My Commission Expires 8/09/2015

AFFIDAVIT OF EASEMENT, RIGHT-OF-WAY AND SURFACE USE AGREEMENT

Greg Boggs personally appeared before me, being duly sworn, deposes and with respect to State of Utah R649-3-34.7 says:

1. My name is Greg Boggs. I am a Landman for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 ("Newfield").
2. Newfield is the Operator of the proposed State 11-36-3-4W well with a surface location to be positioned in the NESW of Section 36 Township 3 South, Range 4 West, Duchesne County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is Rodney L. Swasey and Christine Swasey, whose address is HC 64 Box 147A, Duchesne, UT 84021 ("Surface Owner").
3. Newfield and the Surface Owner have agreed upon an Easement, Right-of-Way and Surface Use Agreement dated April 18, 2012 covering the Drillsite Location and access to the Drillsite Location.

FURTHER AFFIANT SAYETH NOT

CONFIDENTIAL

Greg Boggs

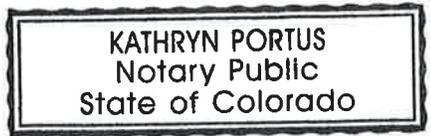
ACKNOWLEDGEMENT

STATE OF COLORADO §
 §
COUNTY OF DENVER §

Before me, a Notary Public, in and for the State, on this 18th day of April 2012, personally appeared Greg Boggs, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

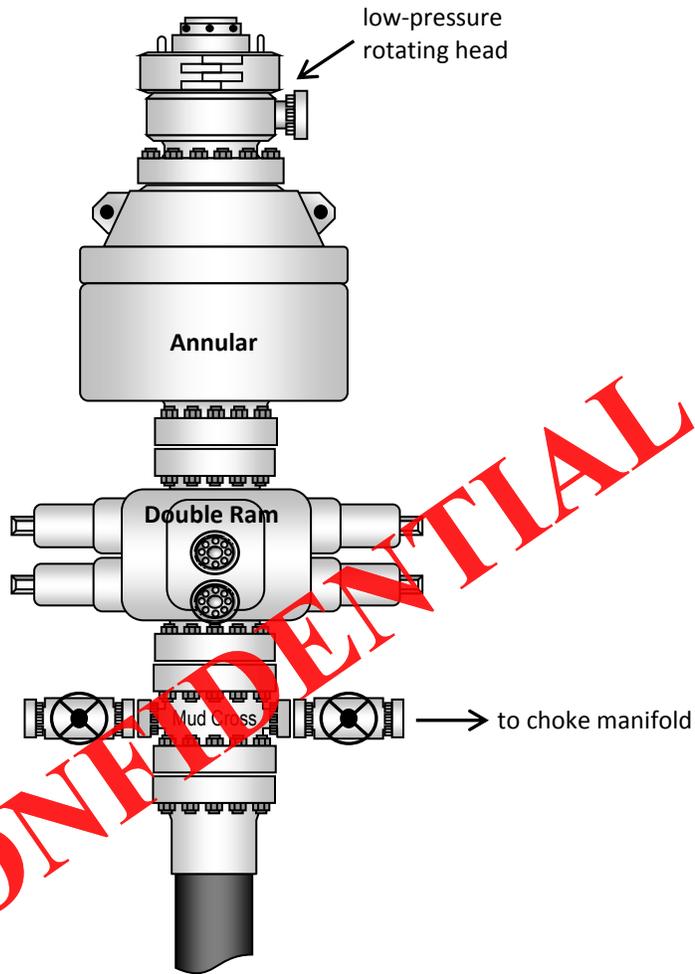
Kathryn Portus
NOTARY PUBLIC

My Commission Expires:



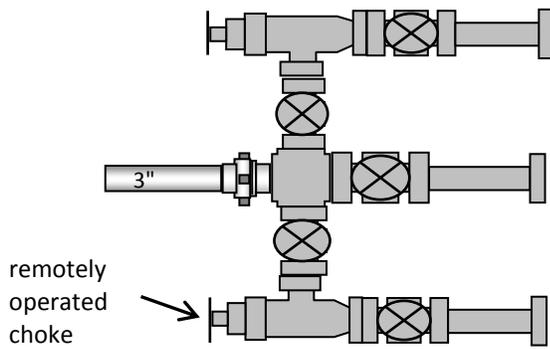
My Commission Expires February 09, 2013

Typical 5M BOP stack configuration



CONFIDENTIAL

Typical 5M choke manifold configuration

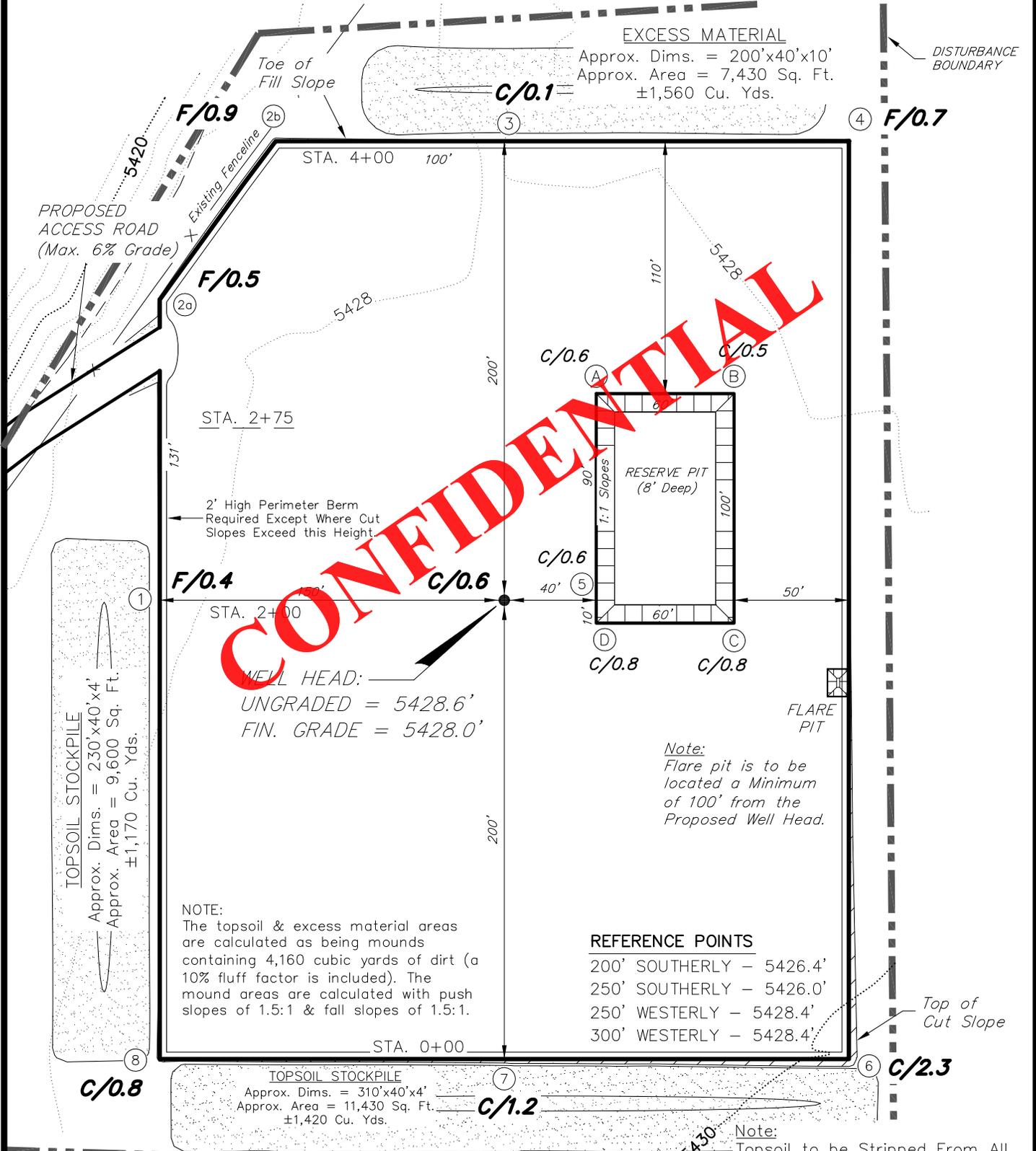
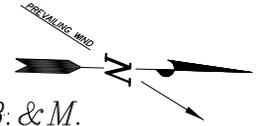


NEWFIELD EXPLORATION COMPANY

PROPOSED LOCATION LAYOUT

11-36-3-4W

Pad Location: NESW Section 36, T3S, R4W, U.S.B.&M.



CONFIDENTIAL

SURVEYED BY: S.V.	DATE SURVEYED: 01-27-12	VERSION: V3
DRAWN BY: M.W.	DATE DRAWN: 02-16-12	
SCALE: 1" = 60'	REVISED: 05-29-12 L.K.	

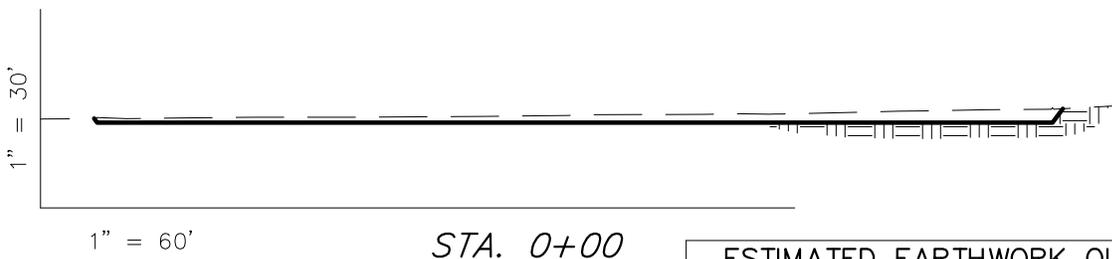
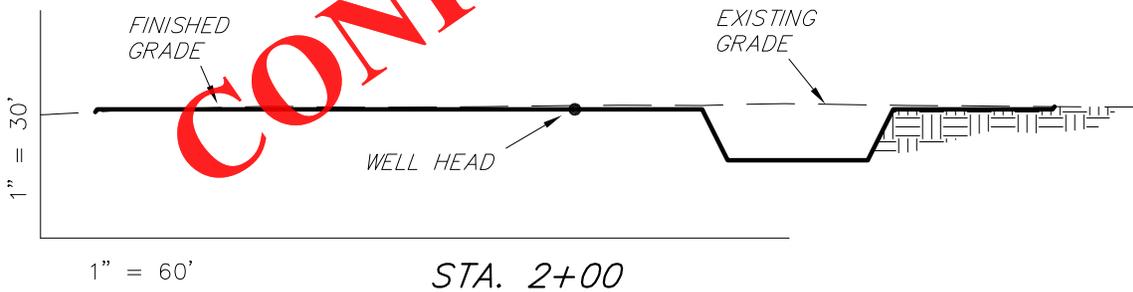
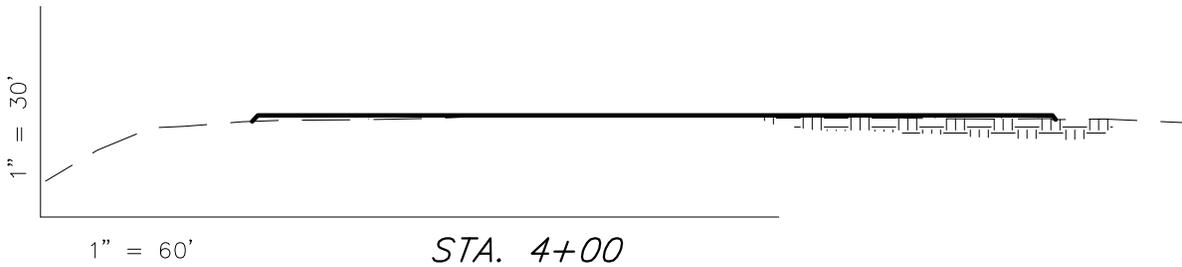
Tri State Land Surveying, Inc. (435) 781-2501
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS

11-36-3-4W

Pad Location: NESW Section 36, T3S, R4W, 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	850	850	Topsoil is not included in Pad Cut Volume	0
PIT	1,420	0		1,420
TOTALS	2,270	850	2,360	1,420

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

SURVEYED BY: S.V.	DATE SURVEYED: 01-27-12	VERSION: V3
DRAWN BY: M.W.	DATE DRAWN: 02-16-12	
SCALE: 1" = 60'	REVISED: 05-29-12 L.K.	

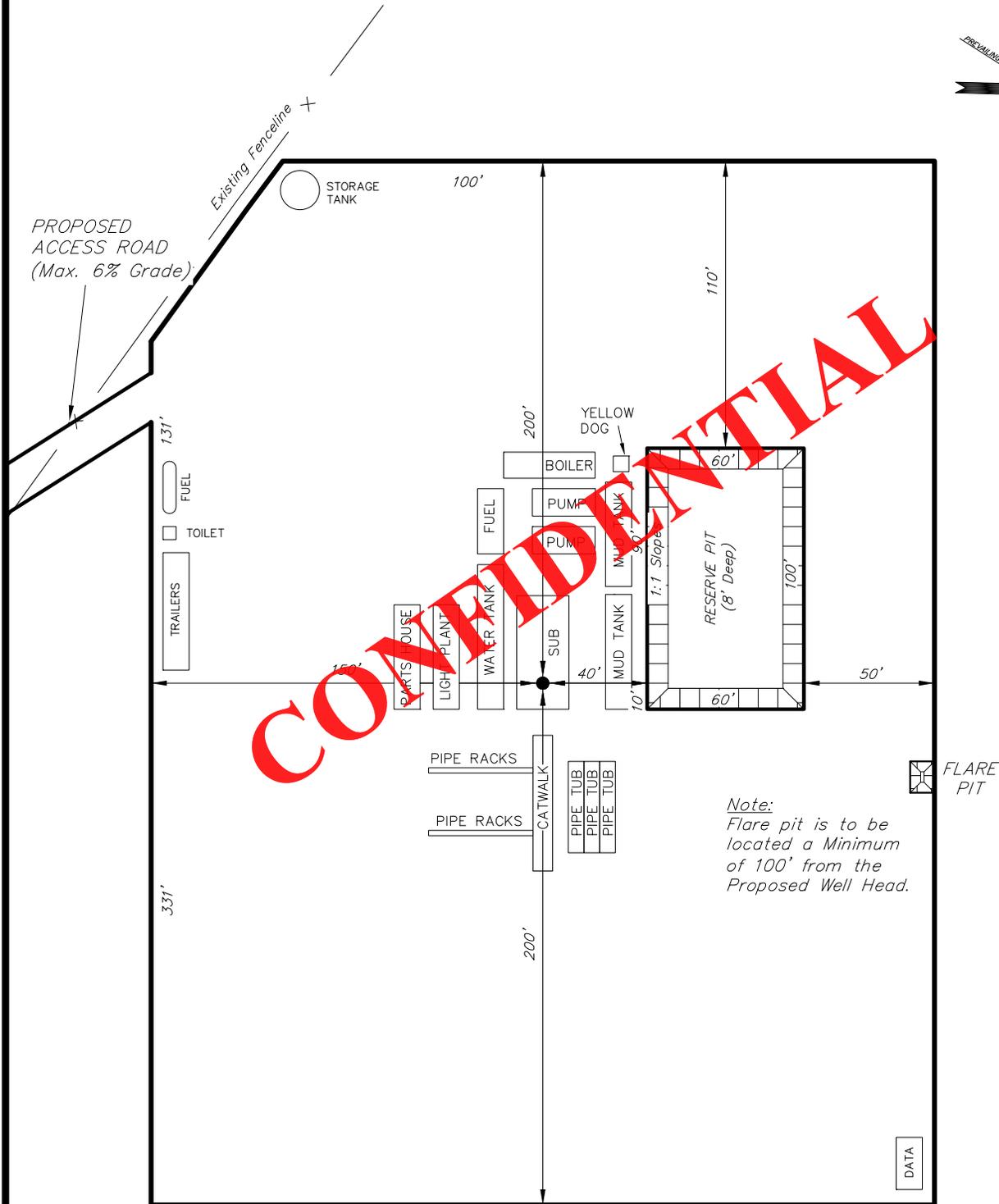
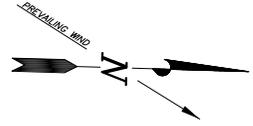
Tri State (435) 781-2501
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT

11-36-3-4W

Pad Location: NESW Section 36, T3S, R4W, U.S.B.&M.



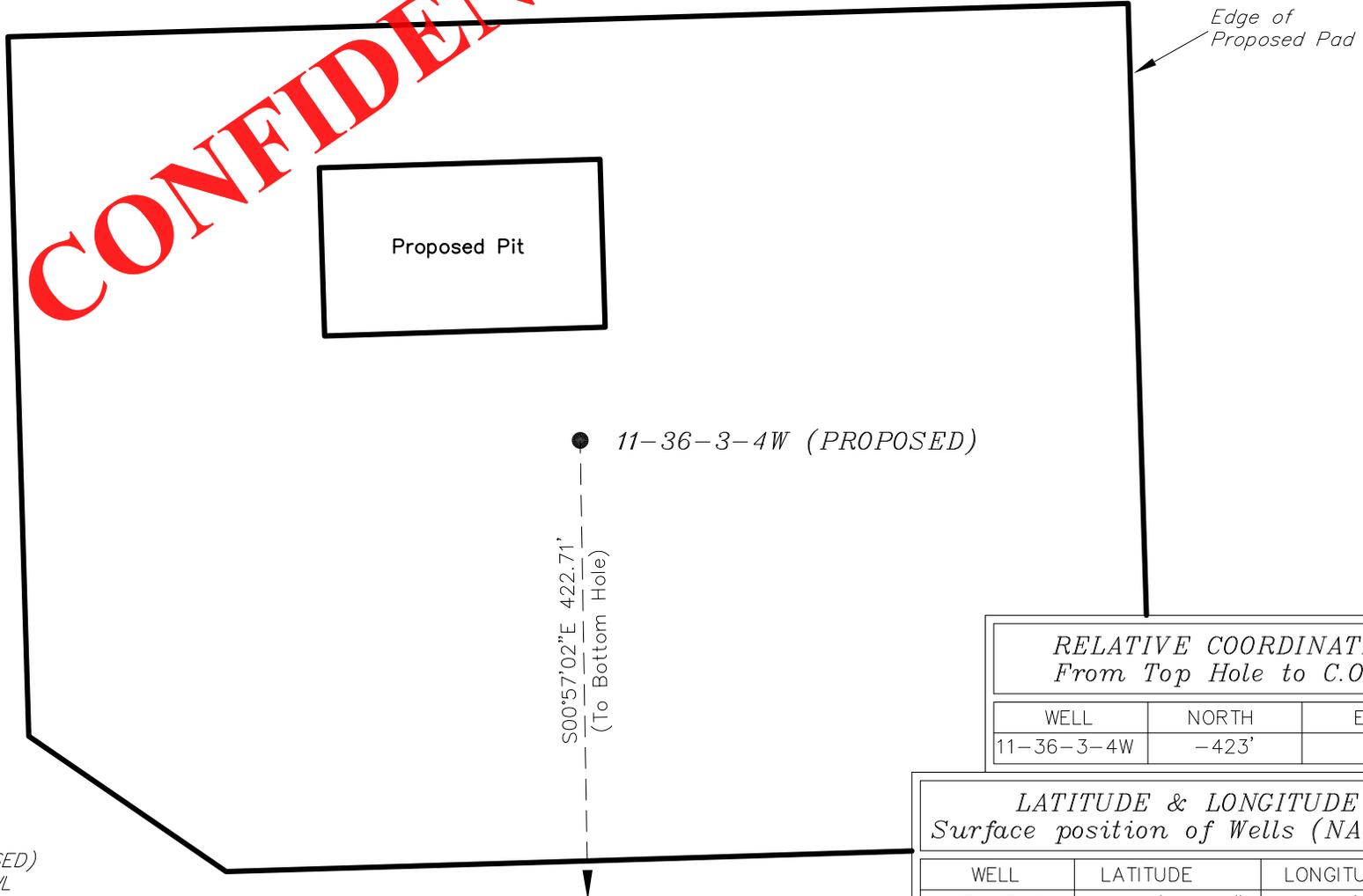
SURVEYED BY: S.V.	DATE SURVEYED: 01-27-12	VERSION:	<p>Tri State Land Surveying, Inc. (435) 781-2501 180 NORTH VERNAL AVE. VERNAL, UTAH 84078</p>
DRAWN BY: M.W.	DATE DRAWN: 02-16-12	V3	
SCALE: 1" = 60'	REVISED: 05-29-12 L.K.		

NEWFIELD EXPLORATION COMPANY

WELL PAD INTERFERENCE PLAT

11-36-3-4W

Pad Location: NENW Section 36, T3S, R4W, U.S.B.&M.



CONFIDENTIAL

RELATIVE COORDINATES From Top Hole to C.O.P.		
WELL	NORTH	EAST
11-36-3-4W	-423'	7'

LATITUDE & LONGITUDE Surface position of Wells (NAD 83)		
WELL	LATITUDE	LONGITUDE
11-36-3-4W	40° 10' 39.46"	110° 17' 06.67"

TOP HOLE FOOTAGES

11-36-3-4W (PROPOSED)
2490' FSL & 2401' FWL

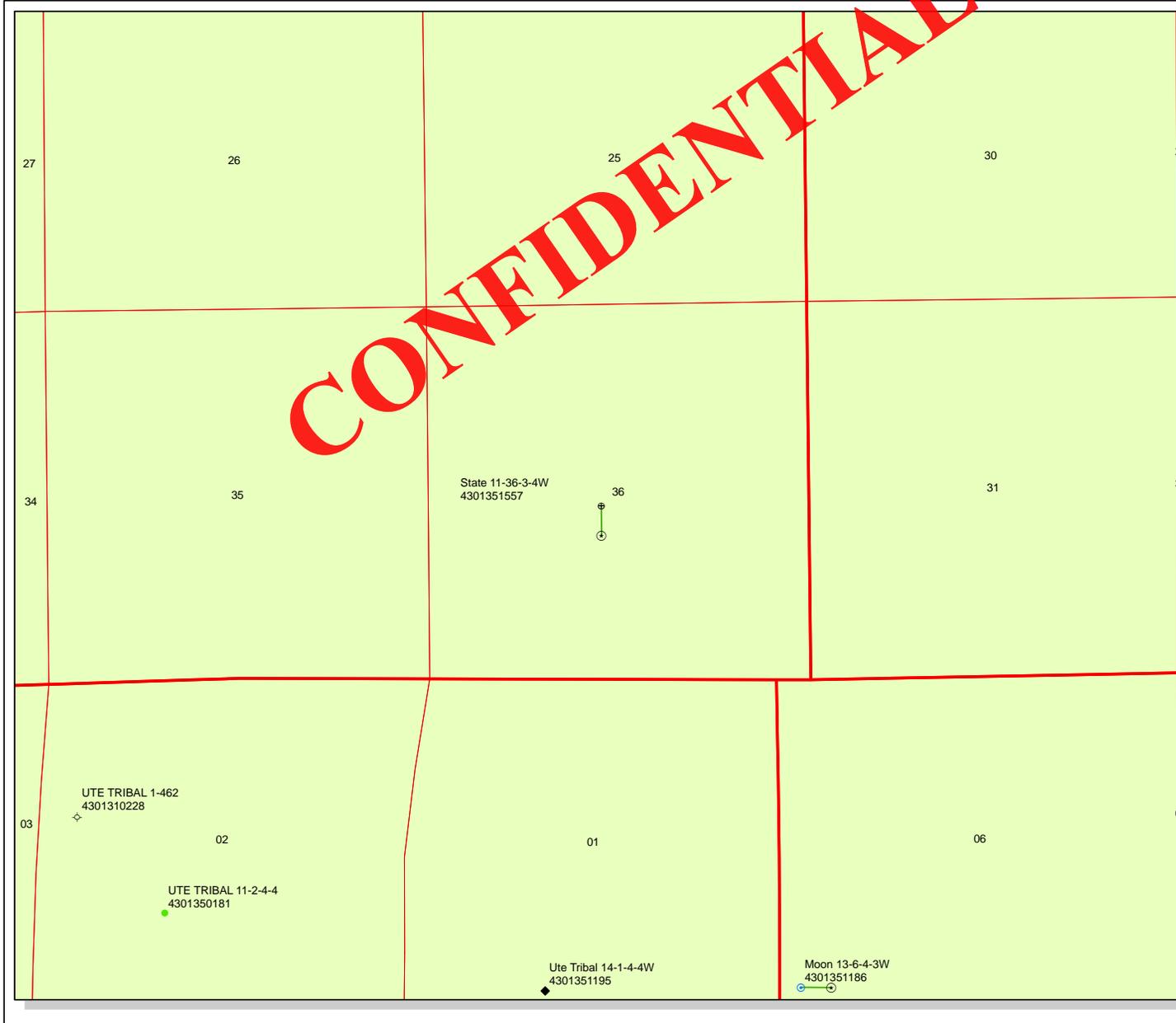
BOTTOM HOLE FOOTAGES

11-36-3-4W (PROPOSED)
2067' FSL & 2401' FWL

SURVEYED BY: S.V.	DATE SURVEYED: 01-27-12	VERSION:
DRAWN BY: L.K.	DATE DRAWN: 05-29-12	V3
SCALE: 1" = 60'	REVISED:	

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

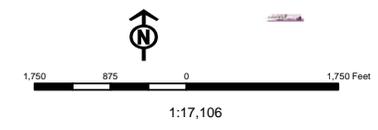
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API Number: 4301351557
Well Name: State 11-36-3-4W
Township T03.0S Range R04.0W Section 36
Meridian: UBM
 Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
 Map Produced by Diana Mason

Units	Wells Query
STATUS	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 GEOTHERML	PGW - Producing Gas Well
PP OIL	POW - Producing Oil Well
SECONDARY	SGW - Shut-in Gas Well
TERMINATED	SOW - Shut-in Oil Well
Fields	TA - Temp. Abandoned
STATUS	TW - Test Well
Unknown	WDW - Water Disposal
ABANDONED	WW - Water Injection Well
ACTIVE	WSW - Water Supply Well
COMBINED	Bottom Hole Location - Oil/Gas/Ds
INACTIVE	
STORAGE	
TERMINATED	



Well Name	NEWFIELD PRODUCTION COMPANY State 11-36-3-4W 43013515570			
String	Cond	Surf	Prod	
Casing Size(")	13.375	9.625	5.500	
Setting Depth (TVD)	60	2500	10000	
Previous Shoe Setting Depth (TVD)	0	60	2500	
Max Mud Weight (ppg)	8.3	8.3	10.0	
BOPE Proposed (psi)	0	500	5000	
Casing Internal Yield (psi)	1000	3520	10640	
Operators Max Anticipated Pressure (psi)	4929		9.5	

Calculations	Cond String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	26	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	19	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	13	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	13	NO
Required Casing/BOPE Test Pressure=		60	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

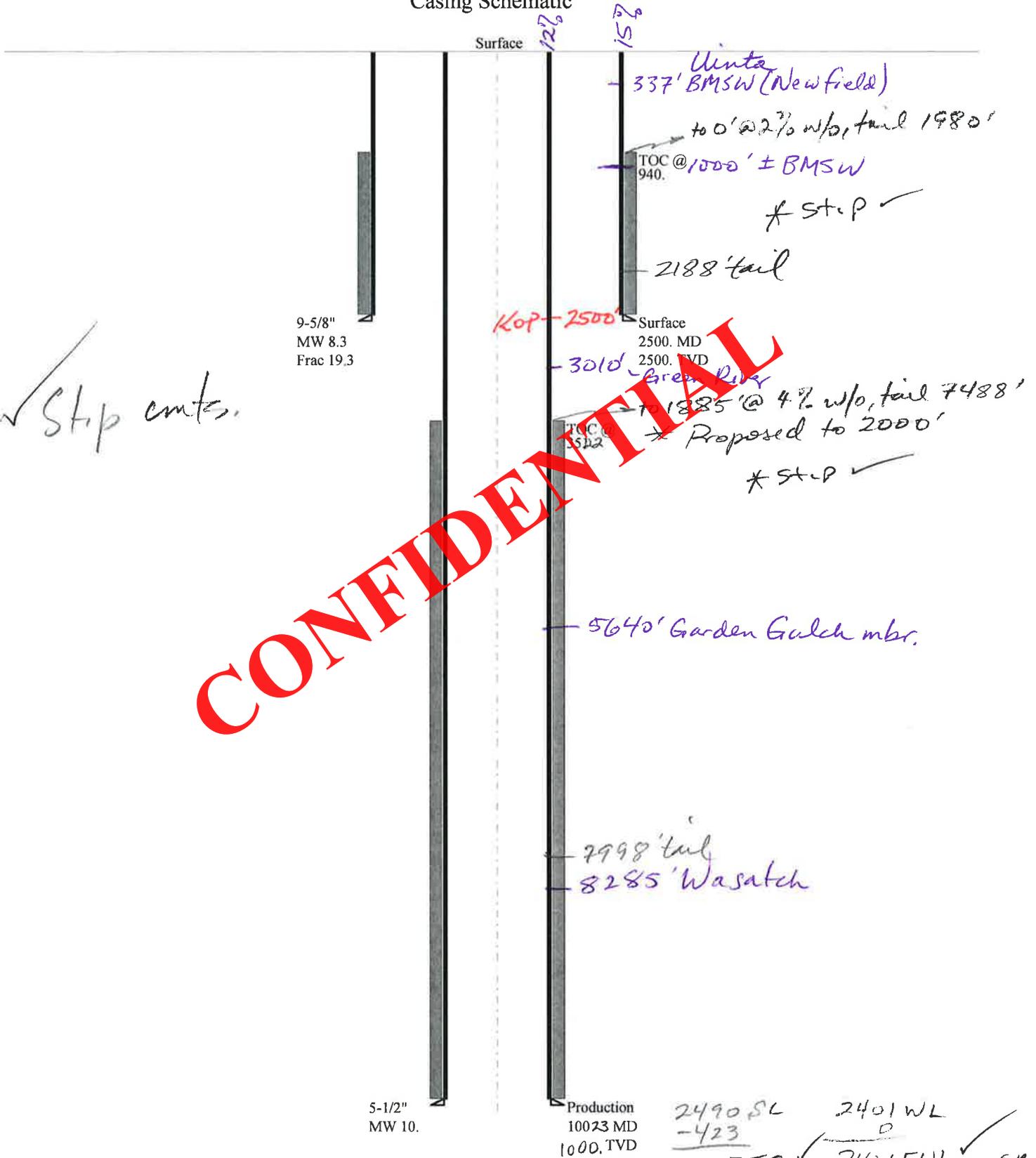
Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	109	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	779	NO air or fresh water drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	529	NO No expected pressures
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	542	NO
Required Casing/BOPE Test Pressure=		2464	psi
*Max Pressure Allowed @ Previous Casing Shoe=		60	psi *Assumes 1psi/ft frac gradient

Calculations	Prod String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	5200	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4000	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3000	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3550	NO OK
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2500	psi *Assumes 1psi/ft frac gradient

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

43013515570000 State 11-36-3-4W

Casing Schematic



✓ Stop emts.

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2490 SL	2401 WL	
-423	0	
2067 FSL	2401 FWL	OK ✓

NE SW Sec 36-35-4W

Well name:	43013515570000 State 11-36-3-4W	
Operator:	NEWFIELD PRODUCTION COMPANY	
String type:	Surface	Project ID: 43-013-51557
Location:	DUCHESNE COUNTY	

Design parameters:

Collapse

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

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 109 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft
Cement top: 940 ft

Burst

Max anticipated surface pressure: 2,200 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,500 psi

No backup mud specified.

Tension:

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

Tension is based on air weight.
Neutral point: 2,192 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 10,000 ft
Next mud weight: 10.000 ppg
Next setting BHP: 5,195 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,500 ft
Injection pressure: 2,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2500	9.625	36.00	J-55	ST&C	2500	2500	8.796	21730
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1082	2020	1.867	2500	3520	1.41	90	394	4.38 J

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

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

Date: August 30, 2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2500 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013515570000 State 11-36-3-4W		
Operator:	NEWFIELD PRODUCTION COMPANY		
String type:	Production	Project ID:	43-013-51557
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 10.000 ppg
 Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 2,995 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP: 5,195 psi

 No backup mud specified.

Minimum design factors:

Collapse:

Design factor: 1.125

Burst:

Design factor: 1.00

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.80 (J)
 Buttress: 1.00 (I)
 Premium: 1.50 (J)
 Body yield: 1.60 (B)

Tension is based on air weight.
 Neutral point: 8,507 ft

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 214 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

Cement top: 1,885 ft

Directional well information:

Kick-off point: 2500 ft
 Departure at shoe: 423 ft
 Maximum dogleg: 1.5 °/100ft
 Inclination at shoe: 0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	10023	5.5	17.00	P-110	LT&C	10000	10023	4.767	66019
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5195	7480	1.440	5195	10640	2.05	170	445	2.62 J

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

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

Date: August 30, 2012
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 10000 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator NEWFIELD PRODUCTION COMPANY
Well Name State 11-36-3-4W
API Number 43013515570000 **APD No** 6373 **Field/Unit** WILDCAT
Location: 1/4,1/4 NESW **Sec** 36 **Tw** 3.0S **Rng** 4.0W 2490 FSL 2401 FWL
GPS Coord (UTM) 560856 4447716 **Surface Owner** Rodney L. & Christine Swasey

Participants

T. Eaton, F. Bird, Z. Mc Intyre, - Newfield; C. Jensen, - DOGM ; J. Simonsen -BLM; D. Petty - Tri State Land Surveying

Regional/Local Setting & Topography

This location is within what is known as the Central Basin Unit approximately 2.5 miles West of the Bridgeland Turn off in Duchesne County below the Blue Bench. The city of Duchesne is 11 road miles West. The surrounding topography is fairly flat with slopes

Surface Use Plan

Current Surface Use
Agricultural

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 300 Length 400	Onsite	ALLU

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

cultivated lands with nearly all surrounding surface currently in production.

Some Russian Olive, Opuntia cactus and foxtail found on perimeters and fence lines

Soil Type and Characteristics

silty clayey sands

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? Y

Location situated on a terrace above a current river bottom floodplain

Erosion Sedimentation Control Required? N**Paleo Survey Run? N Paleo Potential Observed? N Cultural Survey Run? N Cultural Resources? N****Reserve Pit****Site-Specific Factors****Site Ranking**

Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	300 to 1000	2
Dist. Nearest Municipal Well (ft)		20
Distance to Other Wells (feet)	>1320	0
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	10 to 20	5
Affected Populations		
Presence Nearby Utility Conduits	Present	15
Final Score		62 1 Sensitivity Level

Characteristics / Requirements

A 40' x 80' x 8' deep reserve pit is planned in an area of cut on the northwest side of the location. A pit liner is required. Newfield commonly uses a 30 mil liner with a felt under liner. Pit should be fenced to prevent entry by deer, other wildlife and domestic animals. Pit to be closed within one year after drilling activities are complete.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? N**Other Observations / Comments**

The surface owner and operator discussed the owners preferences for placing the access road in a different location. The Operator seemed to be amenable to the changes.

Chris Jensen
Evaluator

7/18/2012
Date / Time

Application for Permit to Drill Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
6373	43013515570000	LOCKED	OW	P	No
Operator	NEWFIELD PRODUCTION COMPANY		Surface Owner-APD	Rodney L. & Christine Swasey	
Well Name	State 11-36-3-4W		Unit		
Field	WILDCAT		Type of Work	DRILL	
Location	NESW 36 3S 4W U 2490 FSL (UTM) 560866E 4447704N		2401 FWL	GPS Coord	

Geologic Statement of Basis

Newfield proposes to set 60' of conductor and 2,500' of surface casing at this location. Air or fresh water will be used for drilling the entire surface hole. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 1,000'. A search of Division of Water Rights records shows 11 water wells within a 10,000 foot radius of the center of Section 36. Uses for these wells are listed as domestic, irrigation and stock watering. Depth listed ranges from 40-150 feet. Depth is not listed for 2 wells. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed surface casing should adequately protect ground water in this area.

Brad Hill
APD Evaluator

8/1/2012
Date / Time

Surface Statement of Basis

Operator has a surface agreement in place with the landowner. I was made aware that some concessions were made to the landowner. Location is proposed in the best possible position within the spacing window. Access road is going to be placed along the Southern most boundary of the parcel but, planning is yet to be finalized.

The soil type and topography at present do not combine to pose a significant threat to erosion or sediment/ pollution transport in these regional climate conditions. Construction standards of the Operator appear to be adequate for the proposed purpose. I recognize no special flora or animal species or cultural resources on site that the proposed action may harm. The landowner was invited and was in attendance for the pre-site inspection. The location should be bermed to prevent spills from leaving the confines of the pad. Fencing around the reserve pit will be necessary once the well is drilled to prevent wildlife and livestock from entering. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit. Measures (BMP's) shall be taken to protect steep slopes from erosion, sedimentation and stability issues.

Chris Jensen
Onsite Evaluator

7/18/2012
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
----------	-----------

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

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WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/11/2012

API NO. ASSIGNED: 43013515570000

WELL NAME: State 11-36-3-4W

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 719-2018

CONTACT: Don Hamilton

PROPOSED LOCATION: NESW 36 030S 040W

Permit Tech Review:

SURFACE: 2490 FSL 2401 FWL

Engineering Review:

BOTTOM: 2067 FSL 2401 FWL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.17751

LONGITUDE: -110.28510

UTM SURF EASTINGS: 560866.00

NORTHINGS: 4447704.00

FIELD NAME: WILDCAT

LEASE TYPE: 3 - State

LEASE NUMBER: ML-51677

PROPOSED PRODUCING FORMATION(S): GREEN RIVER-WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingling 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: 5 - Statement of Basis - bhill
 12 - Cement Volume (3) - hmacdonald
 15 - Directional - dmason
 25 - Surface Casing - hmacdonald



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: State 11-36-3-4W
API Well Number: 43013515570000
Lease Number: ML-51677
Surface Owner: FEE (PRIVATE)
Approval Date: 9/24/2012

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-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

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

General:

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

Conditions of Approval:

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

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

Cement volume for the 5 1/2 production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 2000' MD as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and

mining before performing any of the following actions during the drilling of this well:

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

Notification Requirements:

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

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

Contact Information:

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

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

Reporting Requirements:

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

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

Approved By:

Approved by:

A handwritten signature in black ink, appearing to read "J. Rogers", written in a cursive style.

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: ML-51677	
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: STATE 11-36-3-4W
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013515570000
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: 2490 FSL 2401 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 36 Township: 03.0S Range: 04.0W Meridian: U
9. STATE: UTAH	COUNTY: DUCHESNE

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: 9/24/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

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

Approved by the Utah Division of Oil, Gas and Mining

Date: September 12, 2013

By:

NAME (PLEASE PRINT) Mandie Crozier	PHONE NUMBER 435 646-4825	TITLE Regulatory Tech
SIGNATURE N/A	DATE 9/5/2013	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013515570000

API: 43013515570000

Well Name: STATE 11-36-3-4W

Location: 2490 FSL 2401 FWL QTR NESW SEC 36 TWNP 030S RNG 040W MER U

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 9/24/2012

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

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

Signature: Mandie Crozier

Date: 9/5/2013

Title: Regulatory Tech Representing: NEWFIELD PRODUCTION COMPANY

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: ML-51677	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME:	
8. WELL NAME and NUMBER: STATE 11-36-3-4W	
9. API NUMBER: 43013515570000	
9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH	
COUNTY: DUCHESNE	
STATE: UTAH	

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.

1. TYPE OF WELL Oil Well	
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	
3. ADDRESS OF OPERATOR: 1001 17th Street, Suite 2000 , Denver, CO, 80202	PHONE NUMBER: 303 382-4443 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2490 FSL 2401 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 36 Township: 03.0S Range: 04.0W Meridian: U	

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: 9/19/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

This sundry notice is being submitted to request an extension to this APD that expires 09/24/2014.

Approved by the
September 16, 2014
Oil, Gas and Mining

Date: _____

By:

NAME (PLEASE PRINT) Melissa Luke	PHONE NUMBER 303 323-9769	TITLE Regulatory Technician
SIGNATURE N/A	DATE 9/15/2014	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013515570000

API: 43013515570000

Well Name: STATE 11-36-3-4W

Location: 2490 FSL 2401 FWL QTR NESW SEC 36 TWNP 030S RNG 040W MER U

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 9/24/2012

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

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

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

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

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

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

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

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

Signature: Melissa Luke

Date: 9/15/2014

Title: Regulatory Technician Representing: NEWFIELD PRODUCTION COMPANY