

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

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER STATE 4-19-3-2WH								
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) Patented			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" 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') JERI CARTER						14. SURFACE OWNER PHONE (if box 12 = 'fee')								
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 392 NORTH 400 EAST, ROOSEVELT, UT 84066						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')								
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input checked="" type="checkbox"/>								
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN		
LOCATION AT SURFACE		180 FNL 256 FWL		NWNW		19		3.0 S		2.0 W		U		
Top of Uppermost Producing Zone		660 FSL 660 FWL		SWSW		19		3.0 S		2.0 W		U		
At Total Depth		660 FSL 660 FWL		SWSW		19		3.0 S		2.0 W		U		
21. COUNTY DUCHESENE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 660			23. NUMBER OF ACRES IN DRILLING UNIT 640								
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1320			26. PROPOSED DEPTH MD: 13587 TVD: 8890								
27. ELEVATION - GROUND LEVEL 5178			28. BOND NUMBER BOO1834			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 437478								
<b>Hole, Casing, and Cement Information</b>														
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 - 9445	26.0	P-110 Other	10.5	Premium Lite High Strength	252	3.53	11.0				
							50/50 Poz	461	1.24	14.3				
Prod	6.125	4.5	0 - 5113	13.5	P-110 Other	10.5	50/50 Poz	447	1.24	14.3				
<b>ATTACHMENTS</b>														
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES														
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN								
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER								
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP								
NAME Mandie Crozier				TITLE Regulatory Tech				PHONE 435 646-4825						
SIGNATURE				DATE 12/20/2011				EMAIL mcrozier@newfield.com						
API NUMBER ASSIGNED 43013511300000				APPROVAL   Permit Manager										

## Newfield Production Company

State 4-19-3-2WH

Surface Hole Location: 180' FNL, 256' FWL, Section 19, T3S, R2W

Bottom Hole Location: 660' FSL, 660' FWL, Section 19, T3S, R2W

Duchesne County, UT

Drilling Program**1. Formation Tops**

Uinta	surface		
Green River	3,325'		
Garden Gulch member	6,140'		
Wasatch	8,625'		
Lateral TD	8,890'	TVD /	13,587' MD

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

Base of moderately saline	486'	(water)
Green River	6,140' - 8,625'	(oil)
Wasatch	8,625' - 8,890'	(oil)

**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.
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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	12	3,520 2.51	2,020 2.54	394,000 4.38
Intermediate 7	0'	9,041' 9,445'	26	P-110	BTC	10	10.5	15	9,960 2.62	6,210 1.54	830,000 3.38
Production 4 1/2	8,474'	8,890' 13,587'	13.5	P-110	BTC	10	10.5	--	12,410 3.32	10,670 2.69	422,000 6.11

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 <sup>3</sup>	OH excess	Weight (ppg)	Yield (ft <sup>3</sup> /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	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			
Intermediate Lead	8 3/4	5,140'	Premium Lite II w/ 3% KCl + 10% bentonite	889	15%	11.0	3.53
				252			
Intermediate Tail	8 3/4	3,305'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	571	15%	14.3	1.24
				461			
Production	6 1/8	5,113'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	554	15%	14.3	1.24
				447			

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.

**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                      10.5 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. A cement bond log will be run from PBSD 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 0.52 psi/ft gradient.

$$8,890' \times 0.52 \text{ psi/ft} = 4623 \text{ psi}$$

No abnormal temperature is expected. No H<sub>2</sub>S is expected.

## 9. Other Aspects

An 8-3/4" vertical hole will be drilled to a kick off point of 8,524'.

Directional tools will then be used to build to 91.98 degrees inclination.

The 7" intermediate casing string will be set once the well is landed horizontally in the target zone.

Note that the 7" casing will be set inside the setback requirement.

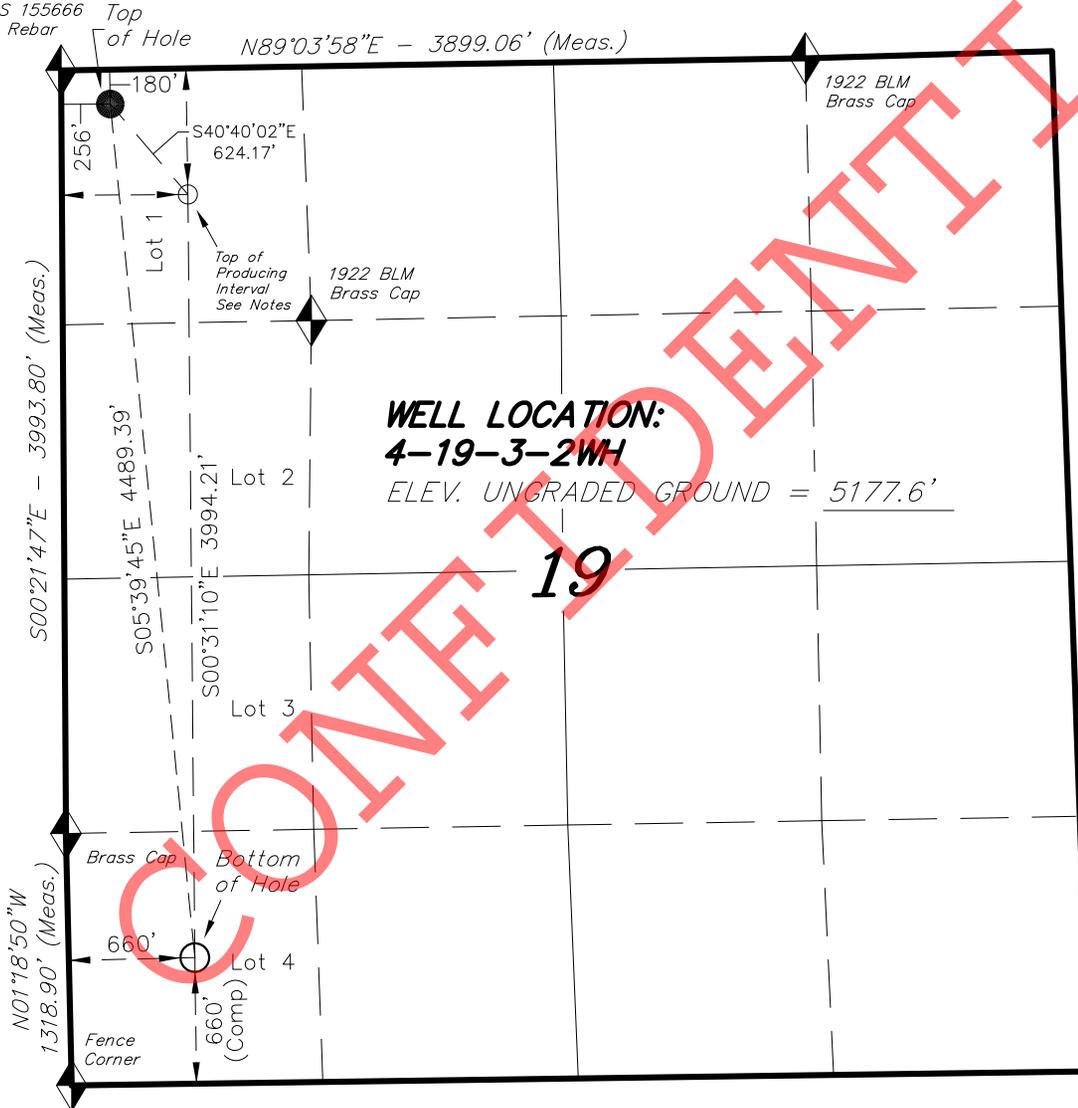
The lateral will be drilled to the bottomhole location shown on the plat.

A liner will be run and cemented in place. The top of the liner will be placed 50' above KOP and will be isolated with a liner top packer.

**T3S, R2W, U.S.B.&M.**

**NEWFIELD EXPLORATION COMPANY**

Yellow Plastic  
Cap Marked  
RLS 155666  
on Rebar

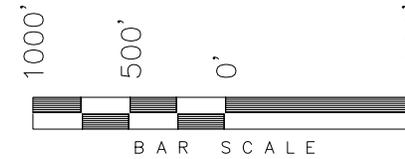


**WELL LOCATION:  
4-19-3-2WH**  
ELEV. UNGRADED GROUND = 5177.6'

**19**

WELL LOCATION, 4-19-3-2WH, LOCATED AS SHOWN IN THE NW 1/4 NW 1/4 (LOT 1) OF SECTION 19, T3S, R2W, U.S.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, 4-19-3-2WH, LOCATED AS SHOWN IN THE SW 1/4 SW 1/4 (LOT 4) OF SECTION 19, T3S, R2W, 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. Top of Producing Interval footages are 660' FNL & 660' FWL.
4. The Proposed Bottom hole bears S46°06'07"E 936.85' from the Northwest Corner of the SW 1/4 SW 1/4 of Section 19.

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

REGISTERED LAND SURVEYOR  
No. 189377  
12-02-11  
STACY W. STEWART  
REGISTERED LAND SURVEYOR  
REGISTRATION No. 189377  
STATE OF UTAH

◆ = SECTION CORNERS LOCATED

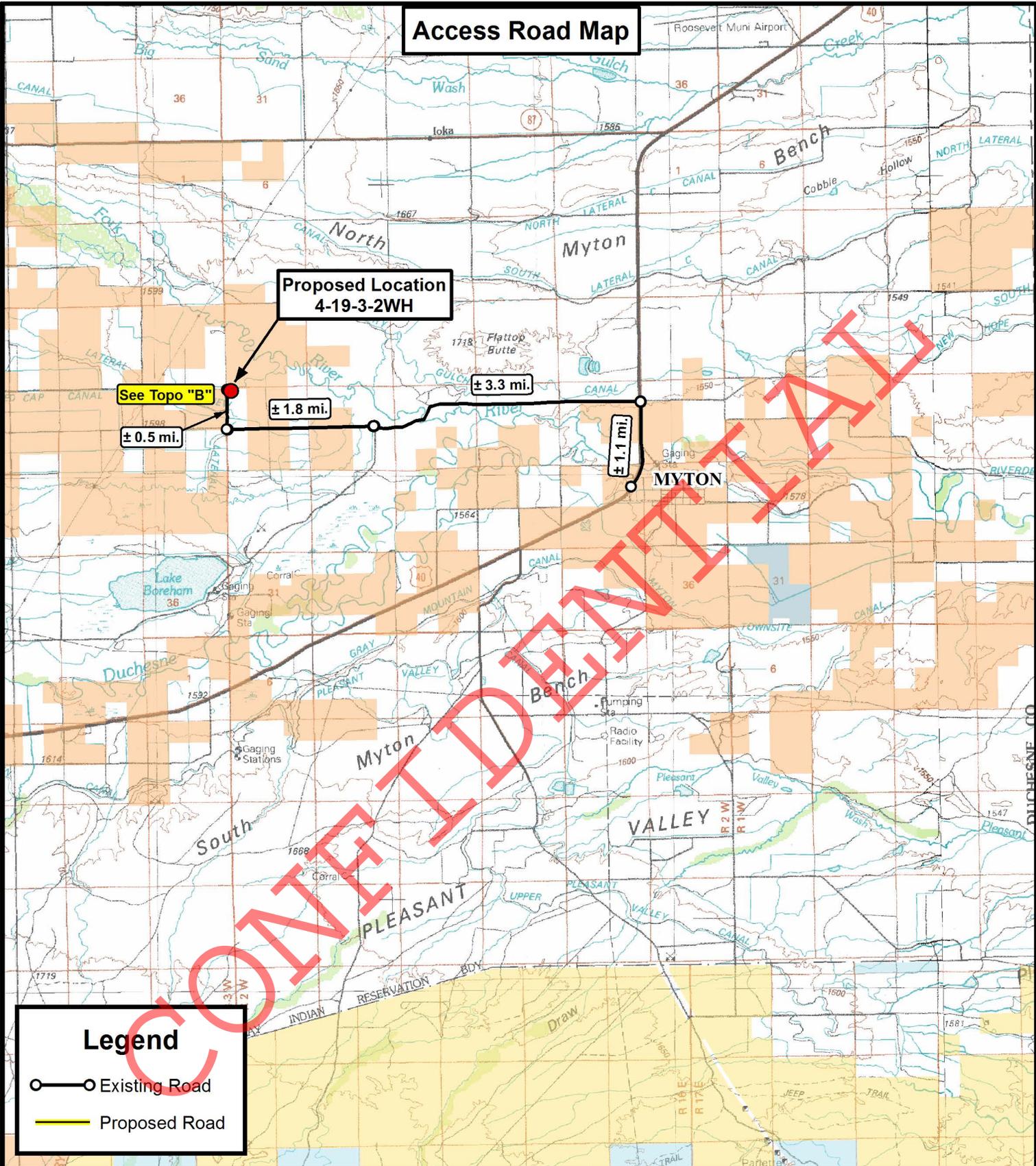
BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

**4-19-3-2WH**  
(Surface Location) NAD 83  
LATITUDE = 40° 12' 51.45"  
LONGITUDE = 110° 09' 38.63"

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

DATE SURVEYED: 11-18-11	SURVEYED BY: S.V.	VERSION:
DATE DRAWN: 11-21-11	DRAWN BY: F.T.M.	V2
REVISED: 11-28-11 F.T.M.	SCALE: 1" = 1000'	

### Access Road Map



**Legend**

- Existing Road
- Proposed Road

**Tri State Land Surveying, Inc.**  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
 P: (435) 781-2501  
 F: (435) 781-2518



### NEWFIELD EXPLORATION COMPANY

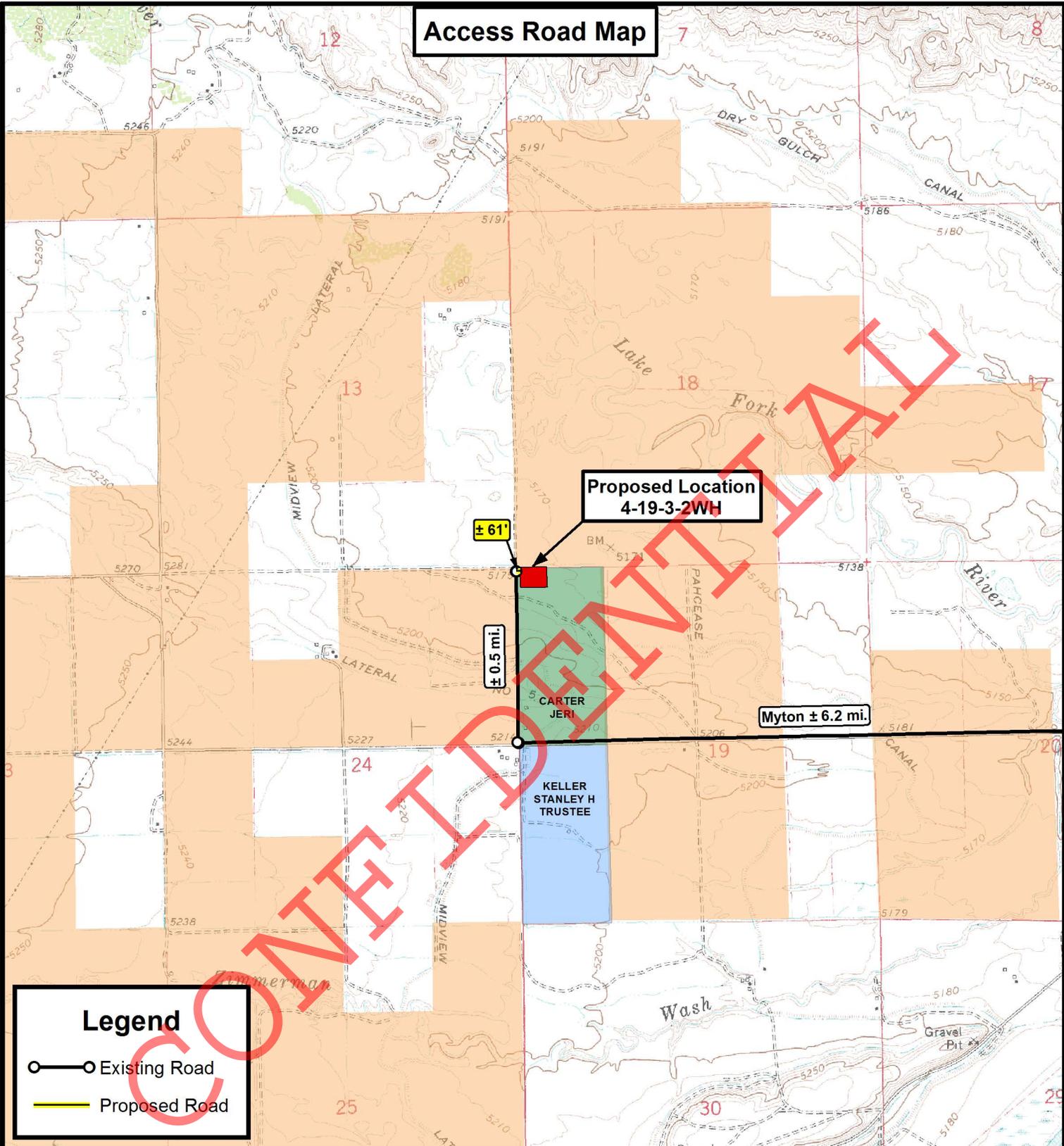
4-19-3-2WH  
 SEC. 19, T3S, R2W, U.S.B.&M.  
 Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	11-28-11 D.C.R.	VERSION:
DATE:	11-21-2011			<b>V2</b>
SCALE:	1:100,000			

### TOPOGRAPHIC MAP

SHEET  
**A**

**Access Road Map**



**Proposed Location  
4-19-3-2WH**

**± 61'**

**± 0.5 mi.**

**Myton ± 6.2 mi.**

**Legend**

- Existing Road
- Proposed Road

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

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**NEWFIELD EXPLORATION COMPANY**

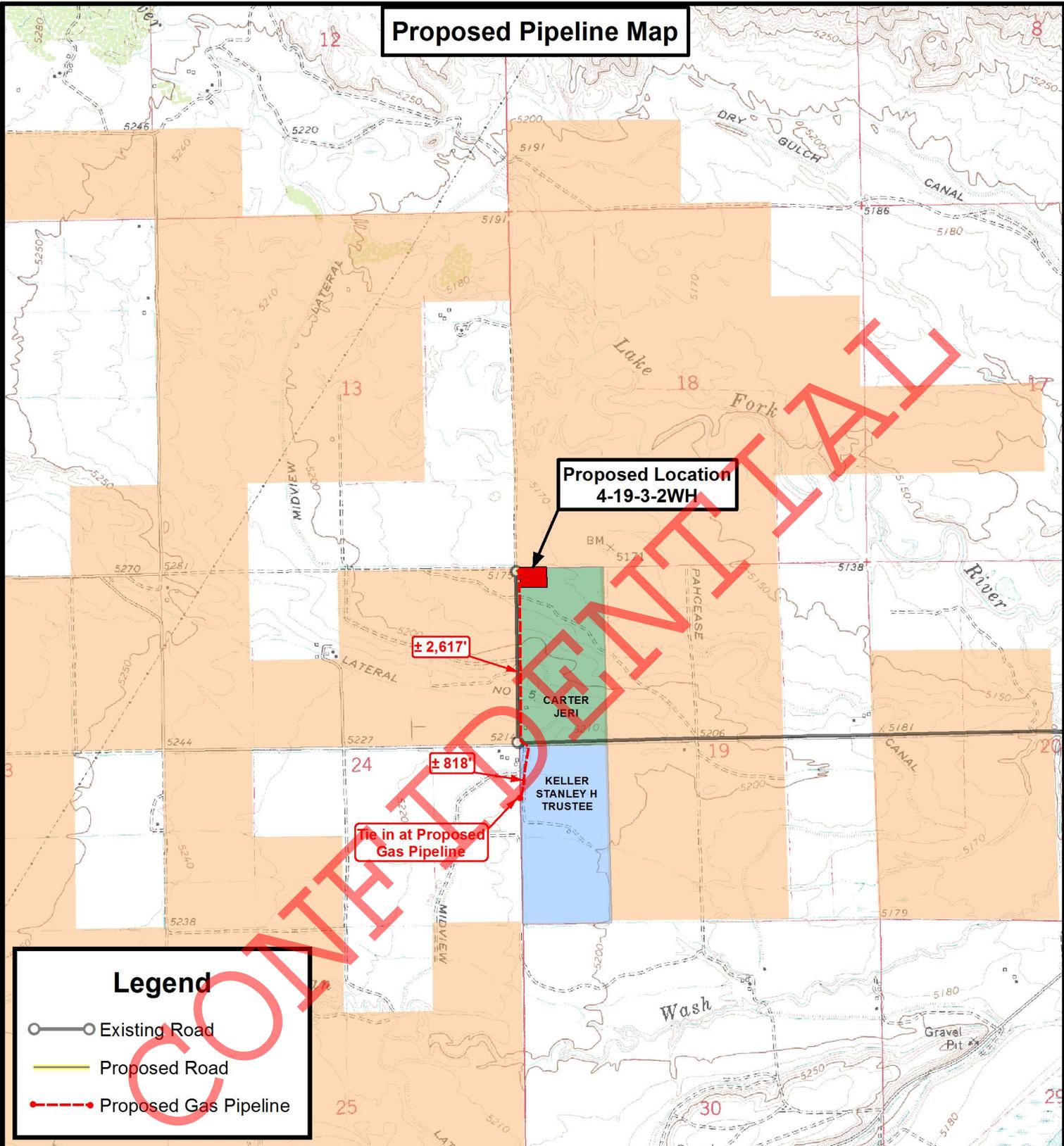
**4-19-3-2WH**  
**SEC. 19, T3S, R2W, U.S.B.&M.**  
**Duchesne County, UT.**

DRAWN BY:	D.C.R.	REVISED:	11-28-11 D.C.R.	VERSION:
DATE:	11-21-2011			<b>V2</b>
SCALE:	1" = 2,000'			

**TOPOGRAPHIC MAP**

SHEET **B**

**Proposed Pipeline Map**



**Legend**

- Existing Road
- Proposed Road
- Proposed Gas Pipeline

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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 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

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 F: (435) 781-2518



**NEWFIELD EXPLORATION COMPANY**

4-19-3-2WH  
 SEC. 19, T3S, R2W, U.S.B.&M.  
 Duchesne County, UT.

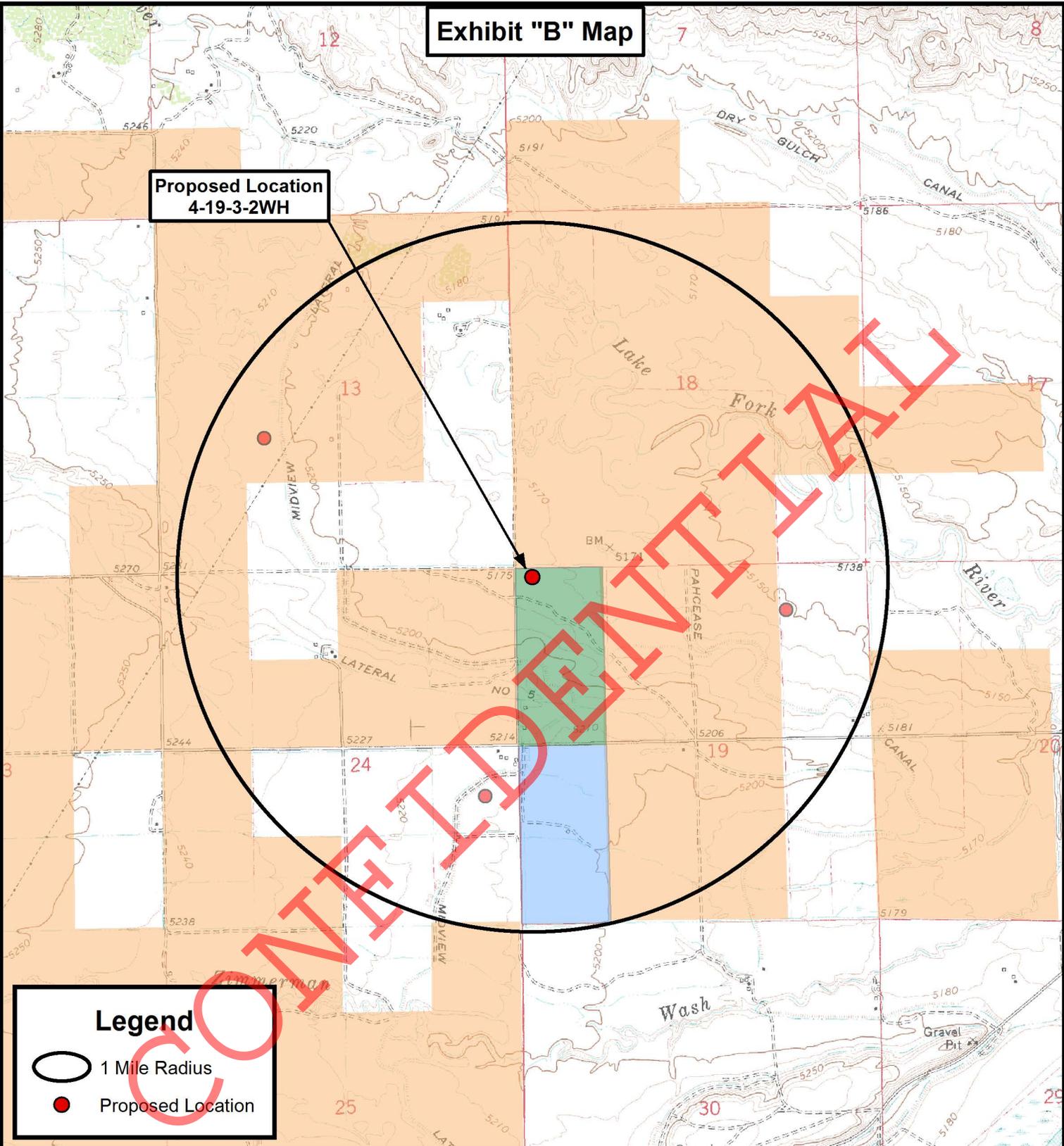
DRAWN BY:	D.C.R.	REVISED:	11-28-11 D.C.R.	VERSION:
DATE:	11-21-2011			<b>V2</b>
SCALE:	1" = 2,000'			

**TOPOGRAPHIC MAP**

SHEET **C**

**Exhibit "B" Map**

**Proposed Location  
4-19-3-2WH**



**Legend**

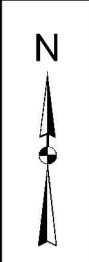
-  1 Mile Radius
-  Proposed Location

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**NEWFIELD EXPLORATION COMPANY**

**4-19-3-2WH**  
**SEC. 19, T3S, R2W, U.S.B.&M.**  
**Duchesne County, UT.**

DRAWN BY:	D.C.R.	REVISED:	11-28-11 D.C.R.	VERSION:
DATE:	11-21-2011			<b>V2</b>
SCALE:	1" = 2,000'			

**TOPOGRAPHIC MAP**

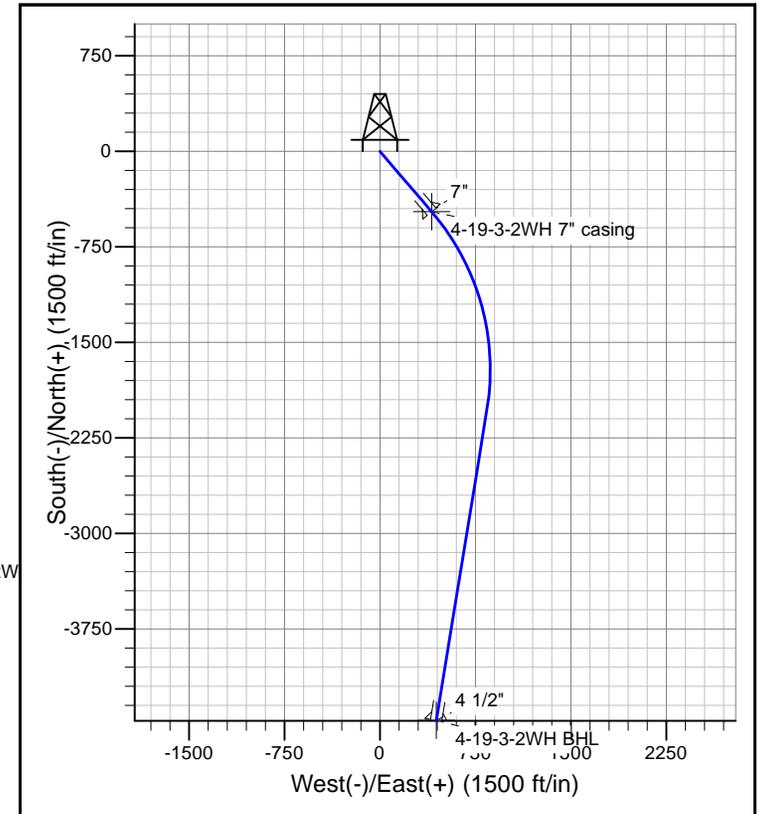
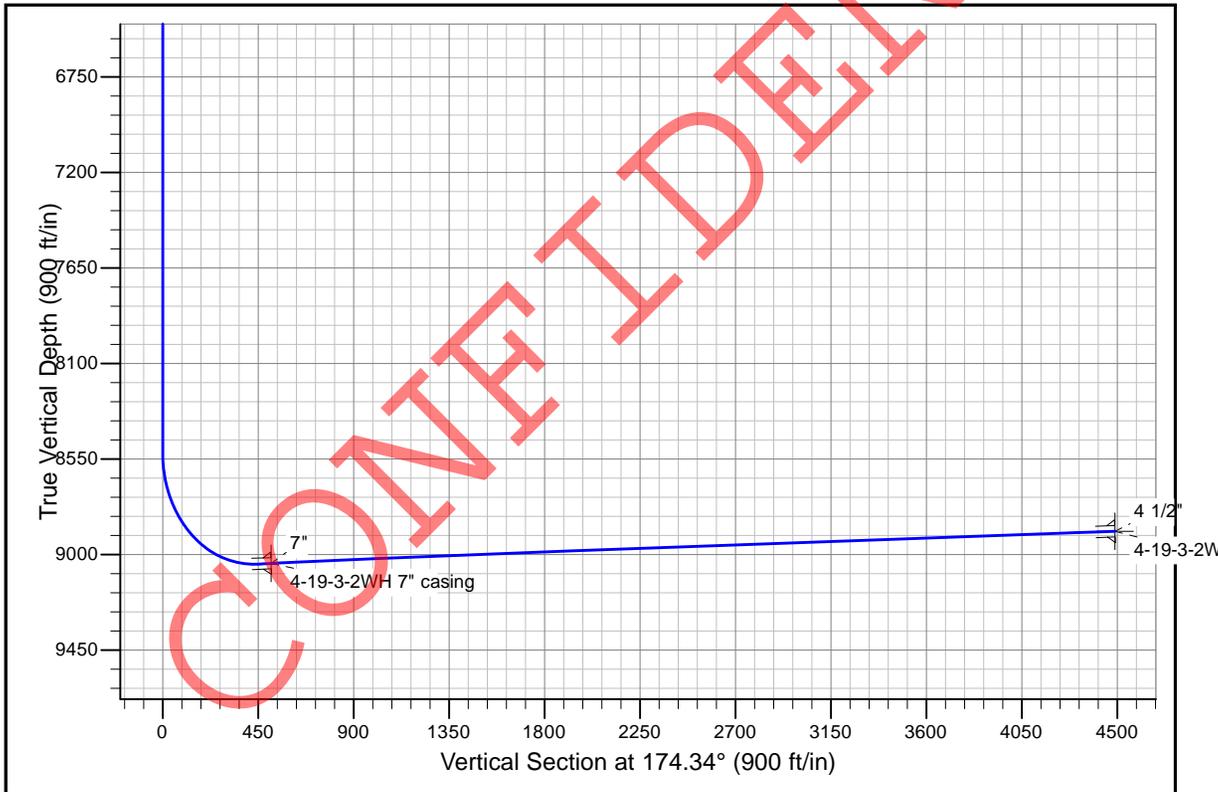
SHEET **D**



# Newfield Production Company

**Project: Uinta Basin**  
**Site: State 4-19-3-2WH**  
**Well: State 4-19-3-2WH**  
**Wellbore: Wellbore #1**  
**Design: Design #1**

Azimuths to True North  
 Magnetic North: 11.30°  
 Magnetic Field  
 Strength: 52344.3snT  
 Dip Angle: 65.91°  
 Date: 12/5/2011  
 Model: IGRF200510



### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	8523.8	0.00	0.00	8523.8	0.0	0.0	0.00	0.00	0.0	
3	9362.2	92.23	139.33	9044.2	-410.4	352.7	11.00	139.33	443.2	
4	9445.3	92.23	139.33	9041.0	-473.4	406.8	0.00	0.00	511.2	4-19-3-2WH 7" casing
5	1109.2	91.98	189.28	8975.7	-2023.8	842.3	3.00	89.29	2097.1	
6	3586.7	91.98	189.28	8890.0	-4467.5	443.0	0.00	0.00	4489.4	4-19-3-2WH BHL

### PROJECT DETAILS: Uinta Basin

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

# Newfield Production Company

Uinta Basin

State 4-19-3-2WH

State 4-19-3-2WH

Wellbore #1

Plan: Design #1

## Standard Planning Report

05 December, 2011

CONFIDENTIAL

## Newfield Exploration Planning Report

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Site State 4-19-3-2WH
<b>Company:</b>	Newfield Production Company	<b>TVD Reference:</b>	RKB @ 5196.0ft
<b>Project:</b>	Uinta Basin	<b>MD Reference:</b>	RKB @ 5196.0ft
<b>Site:</b>	State 4-19-3-2WH	<b>North Reference:</b>	True
<b>Well:</b>	State 4-19-3-2WH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

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

<b>Site</b>	State 4-19-3-2WH				
<b>Site Position:</b>		<b>Northing:</b>	2,209,676.90 m	<b>Latitude:</b>	40° 12' 51.450 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	613,993.78 m	<b>Longitude:</b>	110° 9' 38.630 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	0.000 in	<b>Grid Convergence:</b>	0.86 °

<b>Well</b>	State 4-19-3-2WH					
<b>Well Position</b>	<b>+N-S</b>	0.0 ft	<b>Northing:</b>	2,209,676.90 m	<b>Latitude:</b>	40° 12' 51.450 N
	<b>+E-W</b>	0.0 ft	<b>Easting:</b>	613,993.78 m	<b>Longitude:</b>	110° 9' 38.630 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	5,178.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	12/5/2011	11.30	65.91	52,344

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N-S (ft)</b>	<b>+E-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	174.34

<b>Plan Sections</b>										
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	
8,523.8	0.00	0.00	8,523.8	0.0	0.0	0.00	0.00	0.00	0.00	
9,362.2	92.23	139.33	9,044.2	-410.4	352.7	11.00	11.00	0.00	139.33	
9,445.3	92.23	139.33	9,041.0	-473.4	406.8	0.00	0.00	0.00	0.00	4-19-3-2WH 7" casing
11,109.2	91.98	189.28	8,975.7	-2,023.8	842.3	3.00	-0.01	3.00	89.29	
13,586.7	91.98	189.28	8,890.0	-4,467.5	443.0	0.00	0.00	0.00	0.00	4-19-3-2WH BHL

## Newfield Exploration

### Planning Report

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Site State 4-19-3-2WH
<b>Company:</b>	Newfield Production Company	<b>TVD Reference:</b>	RKB @ 5196.0ft
<b>Project:</b>	Uinta Basin	<b>MD Reference:</b>	RKB @ 5196.0ft
<b>Site:</b>	State 4-19-3-2WH	<b>North Reference:</b>	True
<b>Well:</b>	State 4-19-3-2WH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

## Newfield Exploration

### Planning Report

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Site State 4-19-3-2WH
<b>Company:</b>	Newfield Production Company	<b>TVD Reference:</b>	RKB @ 5196.0ft
<b>Project:</b>	Uinta Basin	<b>MD Reference:</b>	RKB @ 5196.0ft
<b>Site:</b>	State 4-19-3-2WH	<b>North Reference:</b>	True
<b>Well:</b>	State 4-19-3-2WH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,523.8	0.00	0.00	8,523.8	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	8.39	139.33	8,599.7	-4.2	3.6	4.6	11.00	11.00	0.00
8,700.0	19.39	139.33	8,696.7	-22.4	19.2	24.2	11.00	11.00	0.00
8,800.0	30.39	139.33	8,787.2	-54.3	46.6	58.6	11.00	11.00	0.00
8,900.0	41.39	139.33	8,868.1	-98.7	84.8	106.5	11.00	11.00	0.00
9,000.0	52.39	139.33	8,936.4	-153.9	132.3	166.2	11.00	11.00	0.00
9,100.0	63.39	139.33	8,989.4	-218.1	187.4	235.5	11.00	11.00	0.00
9,200.0	74.39	139.33	9,025.4	-288.7	248.1	311.8	11.00	11.00	0.00
9,300.0	85.39	139.33	9,042.9	-363.3	312.2	392.3	11.00	11.00	0.00
9,362.2	92.23	139.33	9,044.2	-410.4	352.7	443.2	11.00	11.00	0.00
9,400.0	92.23	139.33	9,042.8	-439.1	377.3	474.2	0.00	0.00	0.00
9,445.3	92.23	139.33	9,041.0	-473.4	406.8	511.2	0.00	0.00	0.00
<b>7"</b>									
9,500.0	92.25	140.97	9,038.9	-515.4	441.8	556.5	3.00	0.04	3.00
9,600.0	92.28	143.97	9,034.9	-594.6	502.6	641.3	3.00	0.03	3.00
9,700.0	92.31	146.98	9,030.9	-676.9	559.3	728.8	3.00	0.02	3.00
9,800.0	92.32	149.98	9,026.9	-762.1	611.5	818.7	3.00	0.02	3.00
9,900.0	92.34	152.98	9,022.8	-849.9	659.2	910.8	3.00	0.01	3.00
10,000.0	92.34	155.98	9,018.7	-940.0	702.2	1,004.7	3.00	0.01	3.00
10,100.0	92.34	158.99	9,014.6	-1,032.3	740.5	1,100.3	3.00	0.00	3.00
10,200.0	92.33	161.99	9,010.6	-1,126.5	773.9	1,197.3	3.00	-0.01	3.00

## Newfield Exploration

### Planning Report

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Site State 4-19-3-2WH
<b>Company:</b>	Newfield Production Company	<b>TVD Reference:</b>	RKB @ 5196.0ft
<b>Project:</b>	Uinta Basin	<b>MD Reference:</b>	RKB @ 5196.0ft
<b>Site:</b>	State 4-19-3-2WH	<b>North Reference:</b>	True
<b>Well:</b>	State 4-19-3-2WH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)
10,300.0	92.32	164.99	9,006.5	-1,222.3	802.3	1,295.5	3.00	-0.01	3.00
10,400.0	92.30	167.99	9,002.5	-1,319.4	825.6	1,394.4	3.00	-0.02	3.00
10,500.0	92.27	171.00	8,998.5	-1,417.7	843.8	1,494.0	3.00	-0.03	3.00
10,600.0	92.24	174.00	8,994.5	-1,516.7	856.9	1,593.9	3.00	-0.03	3.00
10,700.0	92.20	177.00	8,990.7	-1,616.3	864.7	1,693.7	3.00	-0.04	3.00
10,800.0	92.16	180.00	8,986.9	-1,716.2	867.3	1,793.4	3.00	-0.04	3.00
10,900.0	92.11	183.00	8,983.1	-1,816.1	864.7	1,892.5	3.00	-0.05	3.00
11,000.0	92.05	186.00	8,979.5	-1,915.7	856.8	1,990.9	3.00	-0.06	3.00
11,100.0	91.99	189.01	8,976.0	-2,014.8	843.8	2,088.2	3.00	-0.06	3.00
11,109.2	91.98	189.28	8,975.7	-2,023.8	842.3	2,097.1	3.00	-0.07	3.00
11,200.0	91.98	189.28	8,972.5	-2,113.4	827.7	2,184.8	0.00	0.00	0.00
11,300.0	91.98	189.28	8,969.1	-2,212.0	811.6	2,281.3	0.00	0.00	0.00
11,400.0	91.98	189.28	8,965.6	-2,310.7	795.5	2,377.9	0.00	0.00	0.00
11,500.0	91.98	189.28	8,962.2	-2,409.3	779.3	2,474.4	0.00	0.00	0.00
11,600.0	91.98	189.28	8,958.7	-2,507.9	763.2	2,571.0	0.00	0.00	0.00
11,700.0	91.98	189.28	8,955.2	-2,606.6	747.1	2,667.6	0.00	0.00	0.00
11,800.0	91.98	189.28	8,951.8	-2,705.2	731.0	2,764.1	0.00	0.00	0.00
11,900.0	91.98	189.28	8,948.3	-2,803.8	714.9	2,860.7	0.00	0.00	0.00
12,000.0	91.98	189.28	8,944.9	-2,902.5	698.7	2,957.2	0.00	0.00	0.00
12,100.0	91.98	189.28	8,941.4	-3,001.1	682.6	3,053.8	0.00	0.00	0.00
12,200.0	91.98	189.28	8,938.0	-3,099.7	666.5	3,150.4	0.00	0.00	0.00
12,300.0	91.98	189.28	8,934.5	-3,198.3	650.4	3,246.9	0.00	0.00	0.00
12,400.0	91.98	189.28	8,931.0	-3,297.0	634.3	3,343.5	0.00	0.00	0.00
12,500.0	91.98	189.28	8,927.6	-3,395.6	618.1	3,440.0	0.00	0.00	0.00
12,600.0	91.98	189.28	8,924.1	-3,494.2	602.0	3,536.6	0.00	0.00	0.00
12,700.0	91.98	189.28	8,920.7	-3,592.9	585.9	3,633.2	0.00	0.00	0.00
12,800.0	91.98	189.28	8,917.2	-3,691.5	569.8	3,729.7	0.00	0.00	0.00
12,900.0	91.98	189.28	8,913.7	-3,790.1	553.7	3,826.3	0.00	0.00	0.00
13,000.0	91.98	189.28	8,910.3	-3,888.8	537.5	3,922.8	0.00	0.00	0.00
13,100.0	91.98	189.28	8,906.8	-3,987.4	521.4	4,019.4	0.00	0.00	0.00
13,200.0	91.98	189.28	8,903.4	-4,086.0	505.3	4,116.0	0.00	0.00	0.00
13,300.0	91.98	189.28	8,899.9	-4,184.7	489.2	4,212.5	0.00	0.00	0.00
13,400.0	91.98	189.28	8,896.5	-4,283.3	473.1	4,309.1	0.00	0.00	0.00
13,500.0	91.98	189.28	8,893.0	-4,381.9	456.9	4,405.6	0.00	0.00	0.00
13,586.7	91.98	189.28	8,890.0	-4,467.4	443.0	4,489.3	0.00	0.00	0.00
<b>4 1/2"</b>									

#### Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude
4-19-3-2WH BHL - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	8,890.0	-4,467.5	443.0	2,208,317.39	614,149.17	40° 12' 7.299 N	110° 9' 32.921 W
4-19-3-2WH 7" casing - plan hits target center - Point	0.00	0.00	9,041.0	-473.4	406.8	2,209,534.48	614,119.91	40° 12' 46.771 N	110° 9' 33.386 W

**Newfield Exploration**  
 Planning Report

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Site State 4-19-3-2WH
<b>Company:</b>	Newfield Production Company	<b>TVD Reference:</b>	RKB @ 5196.0ft
<b>Project:</b>	Uinta Basin	<b>MD Reference:</b>	RKB @ 5196.0ft
<b>Site:</b>	State 4-19-3-2WH	<b>North Reference:</b>	True
<b>Well:</b>	State 4-19-3-2WH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

**Casing Points**

Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (in)	Hole Diameter (in)
9,445.3	9,041.0	7"		7.000	8.750
13,586.7	8,890.0	4 1/2"		4.500	6.125

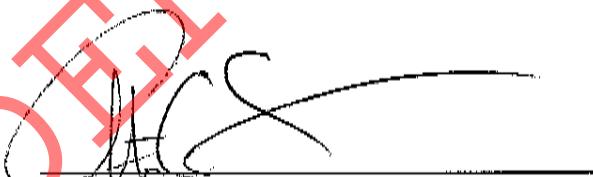
CONFIDENTIAL

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

Christian C. Sizemore personally appeared before me, being duly sworn, deposes and with respect to State of Utah R649-3-34.7 says:

1. My name is Christian C. Sizemore. I am a Landman for Newfield Production Company, whose address is 1001 17<sup>th</sup> Street, Suite 2000, Denver, CO 80202 ("Newfield").
2. Newfield is the Operator of the proposed State 4-19-3-2WH well to be located in the NWNW of Section 19, Township 3 South, Range 2 West, Duchesne, County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is Jeri Carter, whose address is 392 North 400 East, Roosevelt, UT 84066 ("Surface Owner").
3. Newfield and the Surface Owner have agreed upon an Easement, Right-of-Way and Surface Use Agreement dated December 16, 2011 covering the Drillsite Location and access to the Drillsite Location.

FURTHER AFFIANT SAYETH NOT.

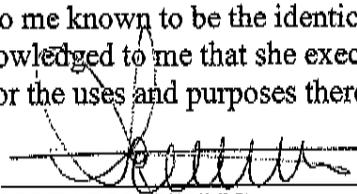


Christian C. Sizemore, Landman

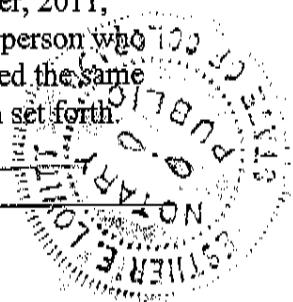
ACKNOWLEDGEMENT

STATE OF COLORADO           §  
   §  
 COUNTY OF DENVER           §

Before me, a Notary Public, in and for the State, on this 20<sup>th</sup> day of December, 2011, personally appeared Christian C. Sizemore, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that she executed the same as her own free and voluntary act and deed for the uses and purposes therein set forth.



NOTARY PUBLIC



My Commission Expires:  
3.30.2013

NEWFIELD PRODUCTION COMPANY

State 4-19-3-2WH

Surface Hole Location: 180' FNL, 256' FWL, NW/NW SECTION 19, T3S, R2W

Bottom Hole Location: 660' FSL, 660' FWL, SW/SW SECTION 19, T3S, R2W

Duchesne County, UT

THIRTEEN POINT SURFACE PROGRAM

1. **EXISTING ROADS**

See attached **Topographic Map "A"**

To reach Newfield Production Company well location site State 4-19-3-2WH located in the NW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> Section 19, T3S, R21W, S.L.B. & M., Duchesne County, Utah:

Proceed northerly out of Myton, Utah along Highway 40 – 1.1 miles ± to the junction of this highway and an existing road to the west; proceed in a westerly direction – 5.1 miles ± to it's junction with an existing road to the north; proceed northerly - 0.5 miles ± to it's junction with the beginning of the proposed access road to the east; proceed – 61 ± along the proposed access road to the proposed well location.

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

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

2. **PLANNED ACCESS ROAD**

Approximately 61' of access road is proposed. See attached **Topographic Map "B"**.

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

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

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

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

3. **LOCATION OF EXISTING WELLS**

Refer to **EXHIBIT B**.

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

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

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

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

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

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

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

Johnson Water District  
Water Right : 43-10136

Maurice Harvey Pond  
Water Right: 47-1358

Neil Moon Pond  
Water Right: 43-11787

Newfield Collector Well  
Water Right: 47-1817 (A30414DVA, contracted with the Uintah County Conservancy District).

There will be no water well drilled at this site

6. **SOURCE OF CONSTRUCTION MATERIALS**

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

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. A 16 mil liner with felt will be required. Newfield requests approval that a flare pit be constructed and utilized on this location.

A portable toilet will be provided for human waste.

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

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

8. **ANCILLARY FACILITIES:**

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

9. **WELL SITE LAYOUT:**

See attached Location Layout Sheet.

**Fencing Requirements**

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

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

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

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

a) **Producing Location**

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

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

b) **Dry Hole Abandoned Location**

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

11. **SURFACE OWNERSHIP: Jeri Carter.**

See attached Affidavit of Easement, Right of Way, and Surface Use Agreement.

12. **OTHER ADDITIONAL INFORMATION:**

Newfield Production Company requests 61' of planned access road to be granted. **Refer to Topographic Map "B"**. Newfield Production Company requests 2,617' of surface gas line to be granted.

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

The proposed surface gas line will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** If possible, all proposed surface gas pipelines will be installed on the same side of the road as existing gas lines. The construction phase of the planned access road, proposed gas lines and proposed water lines will last approximately (5) days.

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

**Additional Surface Stipulations**

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

**Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the State 4-19-3-2WH, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the State 4-19-3-2WH Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

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

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

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

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

Representative

Name: Tim Eaton  
Address: Newfield Production Company  
Route 3, Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

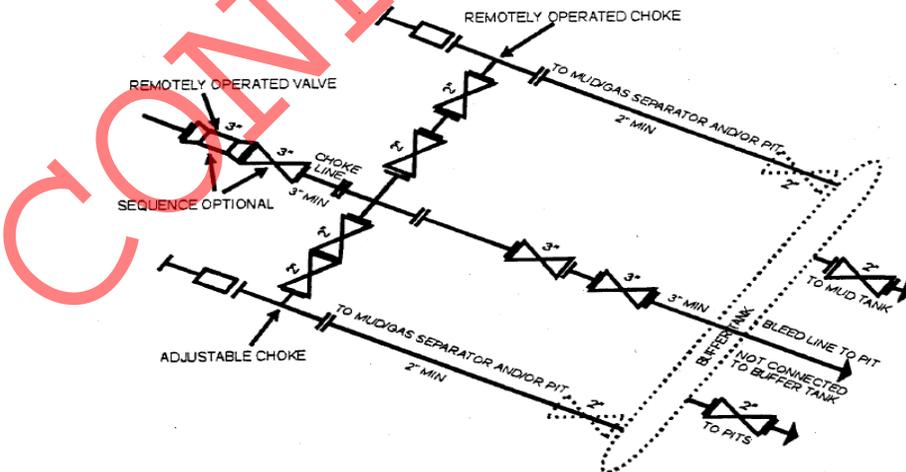
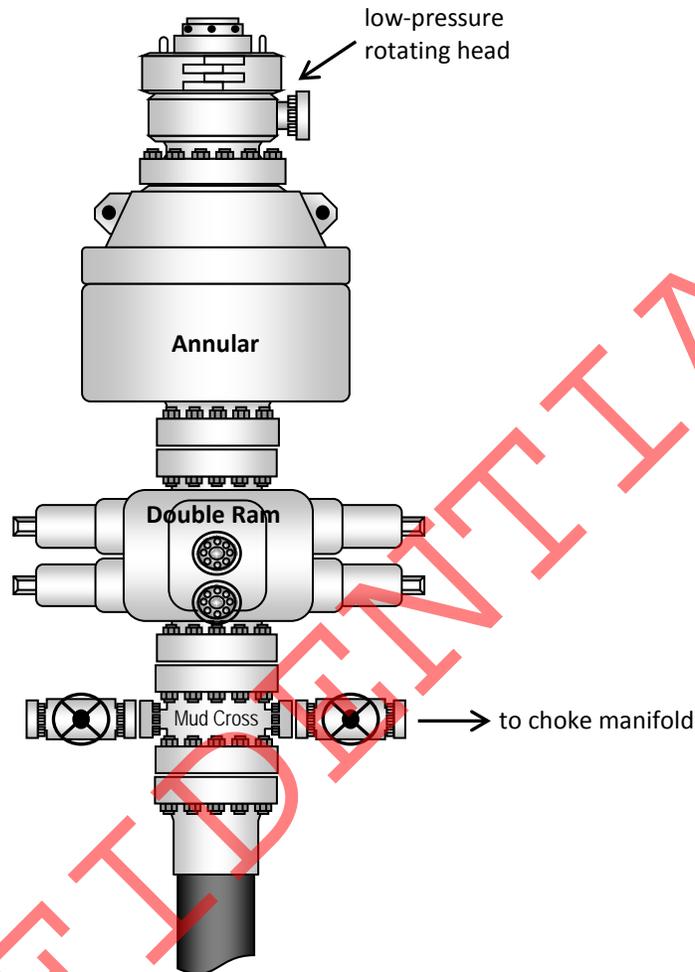
Please be advised that Newfield Production Company is considered to be the operator of well #4-19-3-2WH, NW/NW Section 19, T3S, R2W, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Bond #B001834.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

12/20/11  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Mandie Crozier  
Regulatory Analyst  
Newfield Production Company

### Typical 5M BOP stack configuration



5M CHOKES MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

# NEWFIELD EXPLORATION COMPANY

## WELL PAD INTERFERENCE PLAT 4-19-3-2WH

Pad Location: NWNW (LOT 1) Section 19, T3S, R2W, U.S.B.&M.

Section Corner  
Yellow Plastic Cap  
Marked RLS  
155666 on Rebar

Section Line



Existing Road

Section Line

Proposed Access

Fenceline

LATITUDE & LONGITUDE  
Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
4-19-3-2WH	40° 12' 51.45"	110° 09' 38.63"

**TOP HOLE FOOTAGES**

4-19-3-2WH (PROPOSED)  
180' FNL & 256' FWL

**TOP PRODUCING INTERVAL FOOTAGES**

4-19-3-2WH (PROPOSED)  
660' FNL & 660' FWL

4-19-3-2WH (PROPOSED)

S88°37'02"W

(To Bottom Hole)  
S05°39'45"E 4489.39'

(To Top of Producing Interval)  
S40°40'02"E 624.17'

Future Pit

Edge of Proposed Pad

**BOTTOM HOLE FOOTAGES**

4-19-3-2WH (PROPOSED)  
660' FSL & 660' FWL

**Note:**  
Bearings are based  
on GPS Observations.

RELATIVE COORDINATES  
From Top Hole to Bottom Hole

WELL	NORTH	EAST
4-19-3-2WH	-4,467'	443'

SURVEYED BY: S.V.	DATE SURVEYED: 11-18-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 11-21-11	V2
SCALE: 1" = 60'	REVISED: F.T.M. 11-28-11	

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

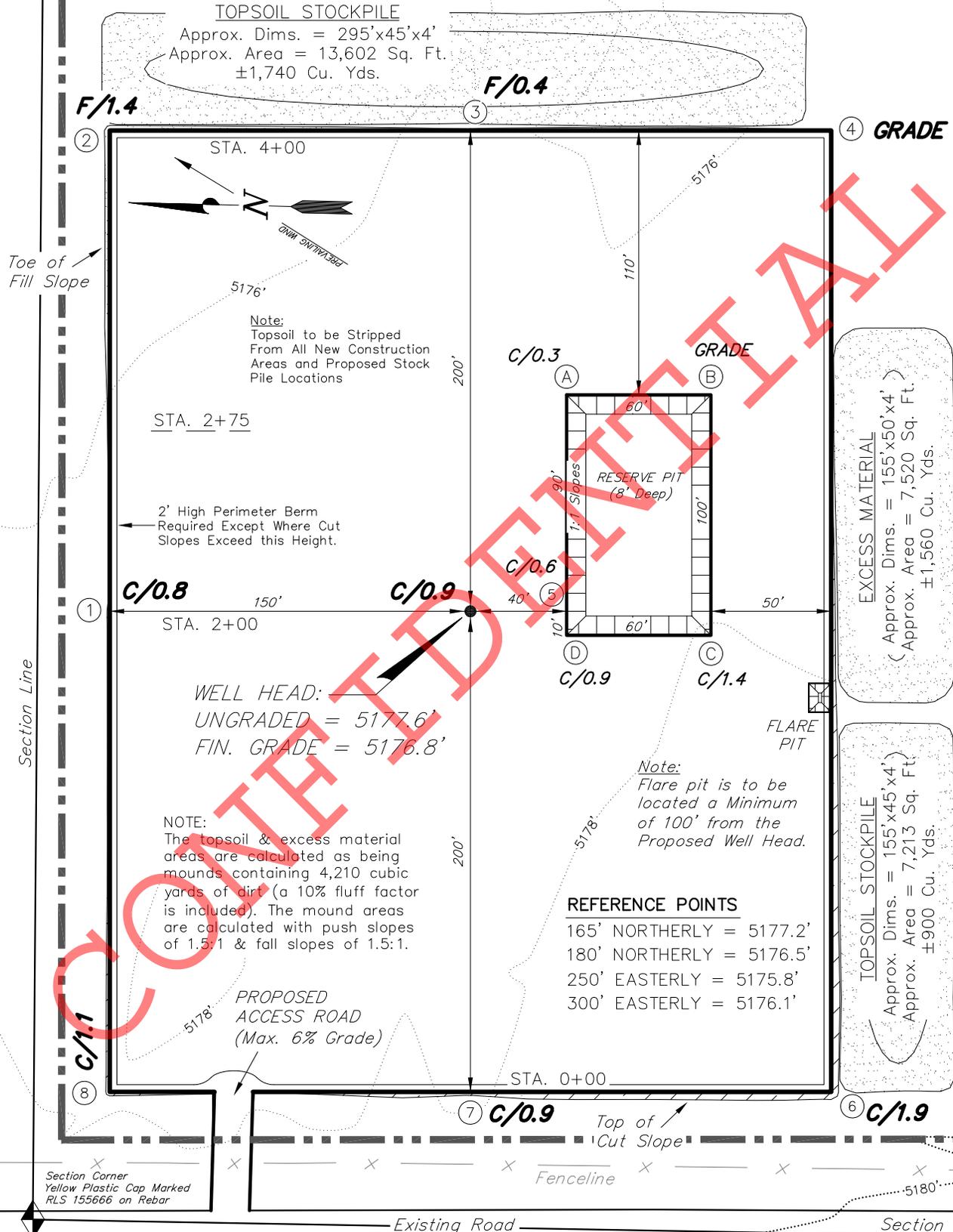
# NEWFIELD EXPLORATION COMPANY

## PROPOSED LOCATION LAYOUT

4-19-3-2WH

DISTURBANCE  
BOUNDARY

Pad Location: NWNW (LOT 1) Section 19, T3S, R2W, U.S.B.&M.



SURVEYED BY: S.V.	DATE SURVEYED: 11-18-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 11-21-11	V2
SCALE: 1" = 60'	REVISED: F.T.M. 11-28-11	

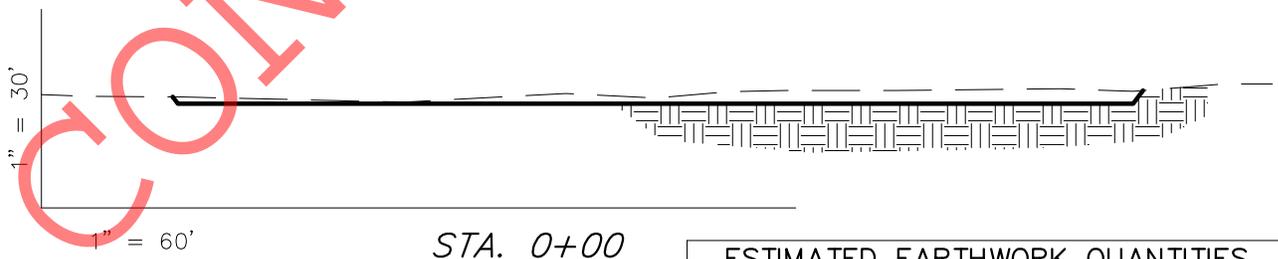
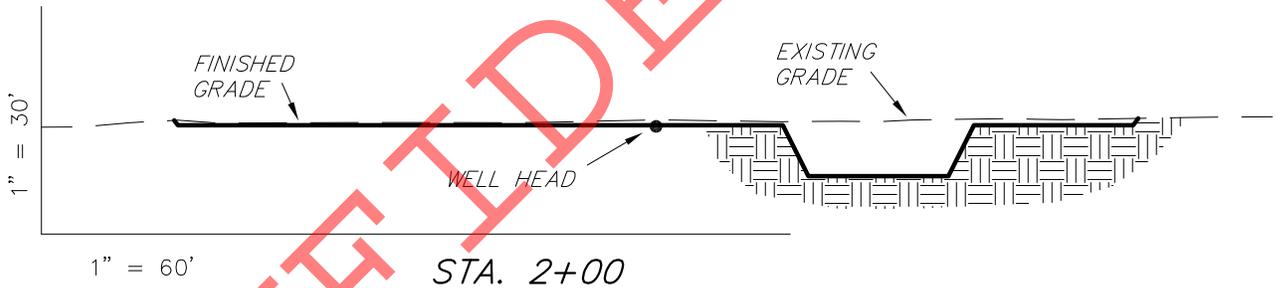
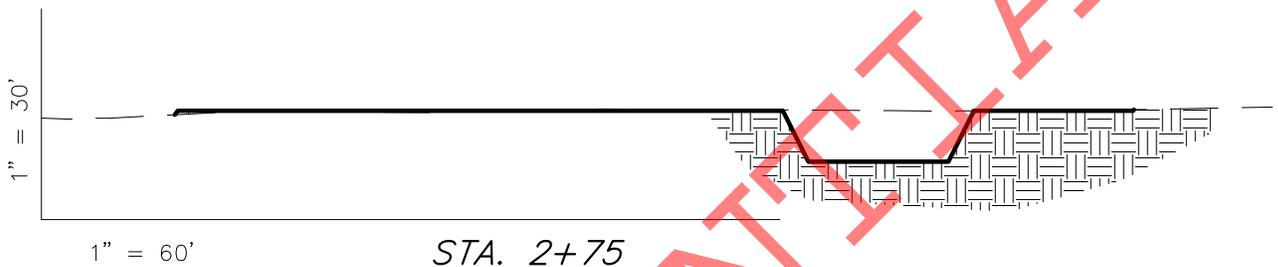
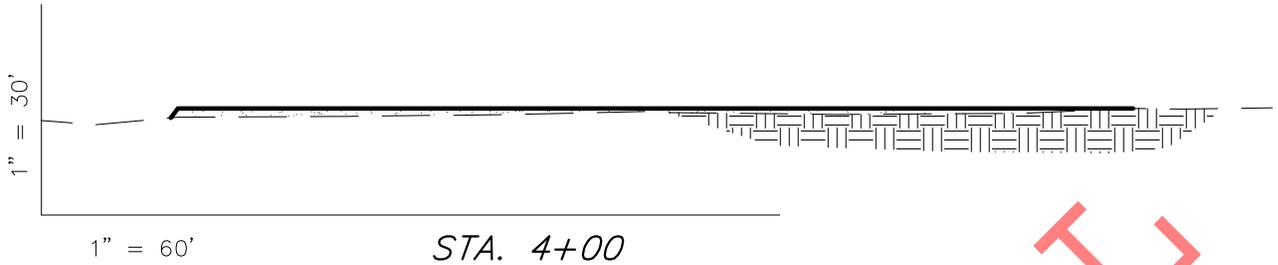
**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD EXPLORATION COMPANY

## CROSS SECTIONS

4-19-3-2WH

Pad Location: NWNW (LOT 1) Section 19, T3S, R2W, U.S.B.&M.



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

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	1,560	1,560	Topsoil is not included in Pad Cut Volume	0
PIT	1,420	0		1,420
TOTALS	2,980	1,560	2,400	1,420

SURVEYED BY: S.V.	DATE SURVEYED: 11-18-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 11-21-11	V2
SCALE: 1" = 60'	REVISED: F.T.M. 11-28-11	

(435) 781-2501

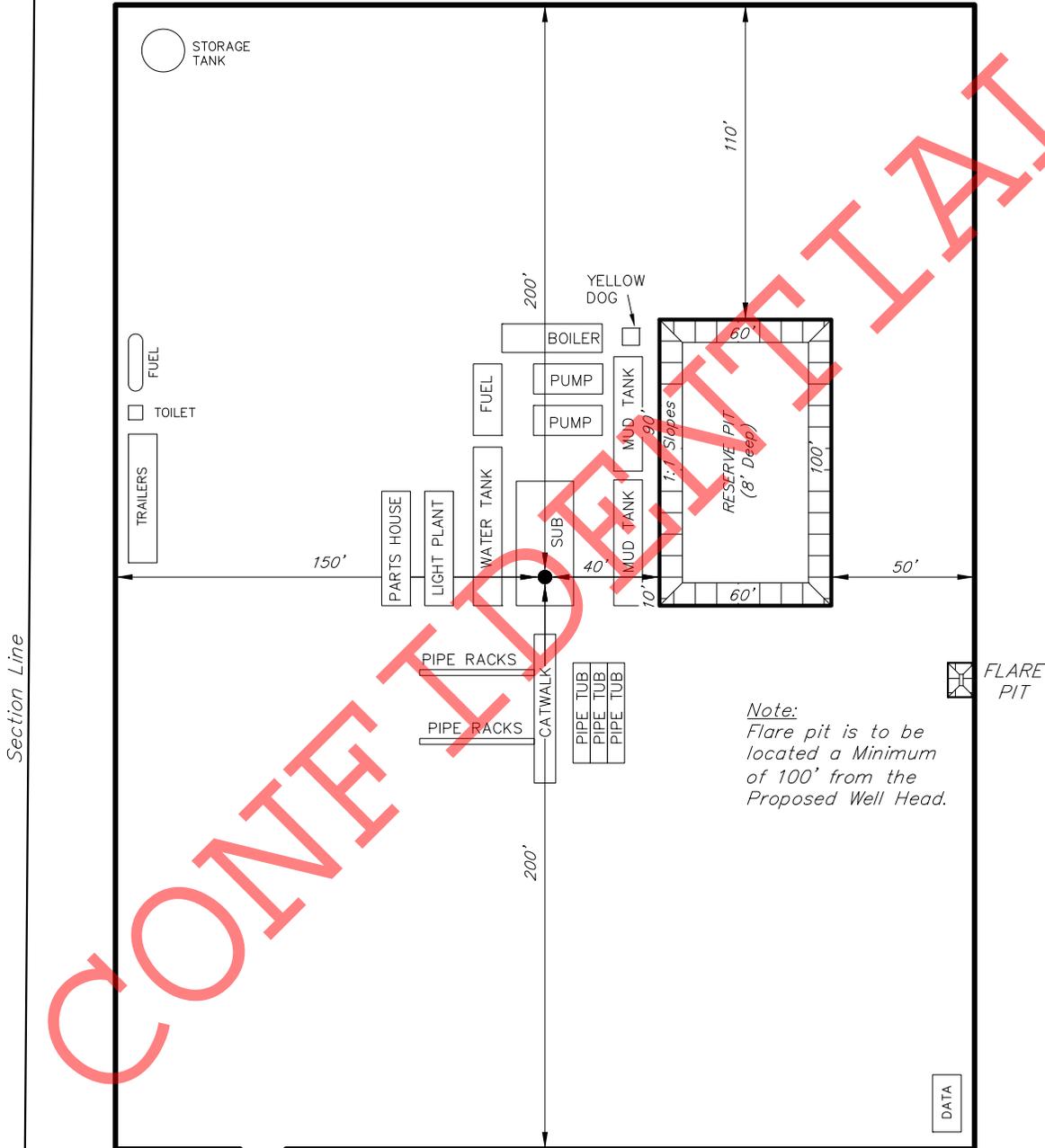
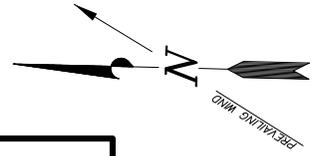
**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD EXPLORATION COMPANY

## TYPICAL RIG LAYOUT

### 4-19-3-2WH

Pad Location: NWNW (LOT 1) Section 19, T3S, R2W, U.S.B.&M.



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

Section Line

Fenceline

Section Corner  
Yellow Plastic Cap Marked  
RLS 155666 on Rebar

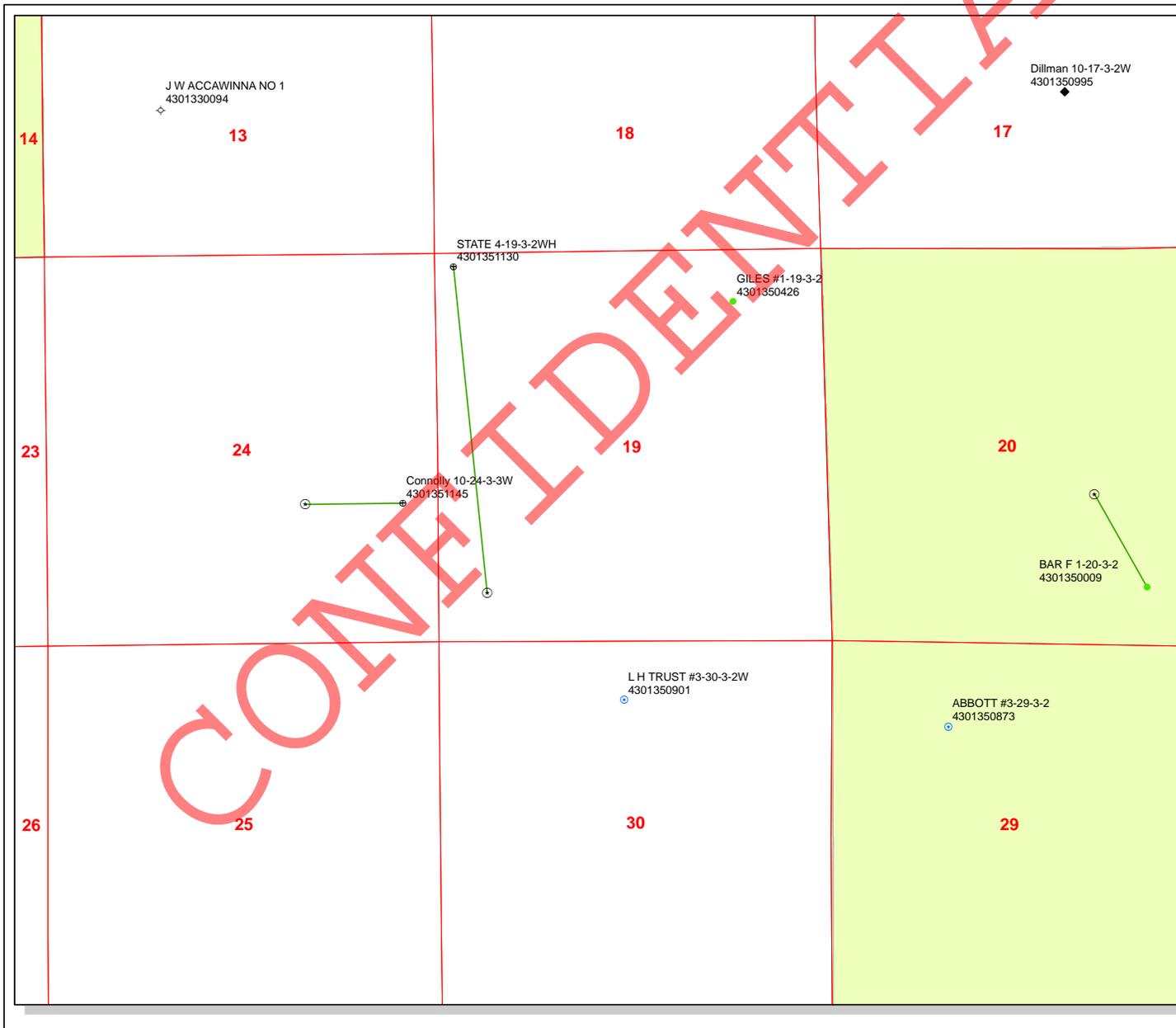
PROPOSED ACCESS  
ROAD (Max. 6% Grade)

Existing Road

Section Line

SURVEYED BY: S.V.	DATE SURVEYED: 11-18-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 11-21-11	V2
SCALE: 1" = 60'	REVISED: F.T.M. 11-28-11	

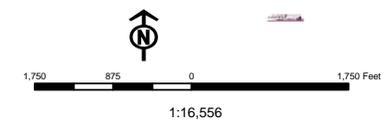
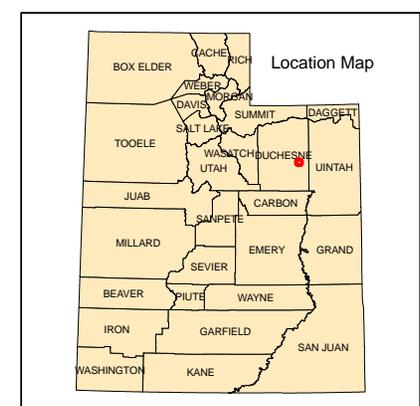
**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078



**API Number: 4301351130**  
**Well Name: STATE 4-19-3-2WH**  
**Township T0.3 . Range R0.2 . Section 19**  
**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          | GW - Gas Injection                 |
| NF PP OIL            | GS - Gas Storage                   |
| NF SECONDARY         | LA - Location Abandoned            |
| PI OIL               | LOC - New Location                 |
| PP GAS               | OPS - Operation Suspended          |
| PP GEOTHERML         | PA - Plugged Abandoned             |
| PP OIL               | PGW - Producing Gas Well           |
| SECONDARY            | POW - Producing Oil Well           |
| TERMINATED           | RET - Returned APD                 |
| <b>Fields STATUS</b> | SGW - Shut-in Gas Well             |
| Unknown              | SOW - Shut-in Oil Well             |
| ABANDONED            | TA - Temp. Abandoned               |
| ACTIVE               | TW - Test Well                     |
| COMBINED             | WDW - Water Disposal               |
| INACTIVE             | WW - Water Injection Well          |
| STORAGE              | WSW - Water Supply Well            |
| TERMINATED           |                                    |





State of Utah

GARY R. HERBERT  
*Governor*

GREG BELL  
*Lieutenant  
Governor*

Office of the Governor  
PUBLIC LANDS POLICY COORDINATION

KATHLEEN CLARKE  
*Director*

January 9, 2011

Diana Mason  
Petroleum Specialist  
Department of Natural Resources, Division of Oil Gas and Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

Subject: Application for Permit to Drill; Duchesne County  
Newfield Production Company to drill the STATE 4-19-3-2W Well  
RDCC Project Number 30401

Dear Ms. Mason:

The State of Utah, through the Public Lands Policy Coordination Office (PLPCO), has reviewed this project. Utah Code (Section 63J-4-601, *et. seq.*) designates PLPCO as the entity responsible to coordinate the review of technical and policy actions that may affect the physical resources of the state, and to facilitate the exchange of information on those actions among federal, state, and local government agencies. As part of this process, PLPCO makes use of the Resource Development Coordinating Committee (RDCC). The RDCC includes representatives from the state agencies that are generally involved or impacted by public lands management.

#### Division of Air Quality

The proposed project is subject to R307-205-5: Fugitive Dust, of the Utah Air Quality Rules, because of the fugitive dust that will be generated during the excavation of the roadway for the project and possibly the pad (based on pad size). These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules can be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm).

RECEIVED: January 10, 2012

Diana Mason  
January 9, 2012  
Page -2-

The state encourages the use of Best Management Processes (BMP s) in protecting air quality in Utah. The state recommends the following BMP s as standard operating procedures:

- 1) Emission Standards for Stationary Internal Combustion Engines of 2 g/bhp-hr of NOx for engines less than 300 HP (Tier 3) and 1 g/bhp-hr of NOx for engines over 300 HP (Tier 3).
- 2) No or low bleed controllers for Pneumatic Pumps, Actuators and other Pneumatic devices.
- 3) Green completion or controlled VOC emissions methods with 90% efficiency for Oil or Gas Atmospheric Storage Tanks, VOC Venting controls or flaring. Glycol Dehydration and Amine Units Units, VOC Venting controls or flaring, Well Completion, Re-Completion, Venting, and Planned Blowdown Emissions.

If compressors or pump stations are constructed at the site a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to R307-401: Permit: Notice of Intent and Approval Order, of the Utah Air Quality Rules. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm).

The State of Utah appreciates the opportunity to review this proposal and we look forward to working with you on future projects. Please direct any other written questions regarding this correspondence to the Public Lands Policy Coordination Office at the address below, or call Judy Edwards at (801) 537-9023.

Sincerely,



John Harja, for  
Kathleen Clarke, Director

Well Name	NEWFIELD PRODUCTION COMPANY STATE 4-19-3-2WH 430135113			
String	Cond	Surf	I1	Prod
Casing Size(")	14.000	9.625	7.000	4.500
Setting Depth (TVD)	60	2500	9041	8894
Previous Shoe Setting Depth (TVD)	0	60	2500	9041
Max Mud Weight (ppg)	8.3	8.3	10.5	10.5
BOPE Proposed (psi)	0	500	5000	5000
Casing Internal Yield (psi)	1000	3520	9950	12410
Operators Max Anticipated Pressure (psi)	4623			10.0

Calculations	Cond String	14.000	"
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=	1079	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	779	NO air drill/diverter
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	529	NO OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	542	NO Reasonable depth in area
Required Casing/BOPE Test Pressure=		2464	psi
*Max Pressure Allowed @ Previous Casing Shoe=		60	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4936	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3851	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2947	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3497	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2500	psi *Assumes 1psi/ft frac gradient

Calculations	Prod String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	4856	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3789	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2899	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4888	YES OK
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		9041	psi *Assumes 1psi/ft frac gradient

# 43013511300000 State 4-19-3-2WH

## Casing Schematic

Surface

✓ Stop conts.

9-5/8"  
MW 8.3  
Frac 19.3

7"  
MW 10.5  
Frac 19.3

4-1/2"  
MW 10.5

12%  
15%

Uinta  
-580' ± BMSW  
→ to surf @ 2% w/o  
TOC @ 940.  
tail 1480'  
\*ST.P ✓

-3325' Green River  
→ to surf @ 2% w/o, tail 5642'  
TOC @ 3750.  
Propose to 1000'  
\*ST.P ✓

-6140' Garden Gulch mbr.  
7217' tail

12%  
TOL @ 8474.  
8524'  
8625' Wasatch

Intermediate  
9445. MD  
9041. TVD  
TOC @ 9796.  
→ to TOL @ 3% w/o

✓ OR

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KOP 8524'  
9362'

Horizontal

180NL	256WL	
-4467	443	
4647NL	699FWL ✓	
5313		
666FSL ✓		

SW SW Sec 19-35-2W

Well name:	<b>43013511300000 State 4-19-3-2WH</b>		
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>		
String type:	Surface	Project ID:	43-013-51130
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

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

**Burst**

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

No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor: 1.125

**Burst:**

Design factor: 1.00

**Tension:**

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

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

**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

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 9,041 ft  
 Next mud weight: 10.500 ppg  
 Next setting BHP: 4,931 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: February 1, 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:	<b>43013511300000 State 4-19-3-2WH</b>		
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>		
String type:	Intermediate	Project ID:	43-013-51130
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 10.500 ppg  
 Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 2,942 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP: 4,931 psi  
  
 No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor: 1.125

**Burst:**

Design factor: 1.00

**Tension:**

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

Tension is based on air weight.  
 Neutral point: 7,609 ft

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 201 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 100 ft

Cement top: 3,750 ft

**Directional well information:**

Kick-off point: 8524 ft  
 Departure at shoe: 624 ft  
 Maximum dogleg: 11 °/100ft  
 Inclination at shoe: 92.23 °

**Re subsequent strings:**

Next setting depth: 0 ft  
 Next mud weight: 10.500 ppg  
 Next setting BHP: 0 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 9,041 ft  
 Injection pressure: 9,041 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	9445	7	26.00	P-110	Buttress	9041	9445	6.151	105038
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	4931	6230	1.263	4932	9950	2.02	235.1	830.4	3.53 B

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

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

Date: February 1, 2012  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 9041 ft, a mud weight of 10.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

Well name:	<b>43013511300000 State 4-19-3-2WH</b>	
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>	
String type:	Production Liner	Project ID: 43-013-51130
Location:	DUCHESNE COUNTY	

**Design parameters:**

**Collapse**

Mud weight: 10.500 ppg  
Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 0 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP: 0 psi  
  
No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor: 1.125

**Burst:**

Design factor: 1.00

**Tension:**

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

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

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 199 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

Cement top: 9,796 ft

Liner top: 8,474 ft

**Directional Info - Build & Hold**

Kick-off point: 8524 ft  
Departure at shoe: 4676 ft  
Maximum dogleg: 11 °/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	5087	4.5	13.50	P-110	Buttress	8897	13587	3.795	30519
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	4853	10680	2.201	1990	12410	6.24	5.4	421.9	78.67 B

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

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

Date: February 1, 2012  
Salt Lake City, Utah

**Remarks:**

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 0 ft, a mud weight of 10.5 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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



**Site Stability Issues Y**

high water table will necessitate some stability measures. These were planned and presented at the presite

**Drainage Diversion Required? Y**

a ditch to be constructed on the north side to protect site from flooding during irrigation

**Berm Required? Y****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**

<b>Distance to Groundwater (feet)</b>		20
<b>Distance to Surface Water (feet)</b>	200 to 300	10
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	>1320	0
<b>Native Soil Type</b>	High permeability	20
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	10 to 20	5
<b>Affected Populations</b>		
<b>Presence Nearby Utility Conduits</b>	Unknown	10
<b>Final Score</b>		70    1 Sensitivity Level

**Characteristics / Requirements**

pit is prosed to be 60'X 100 ' dug 8' deep. Pit is to be lined as it is within a vadose zone of ground water.

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

**Other Observations / Comments**

Chris Jensen  
Evaluator

1/10/2012  
Date / Time

# Application for Permit to Drill Statement of Basis

2/2/2012

## Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
5095	43013511300000	LOCKED	OW	P	No
<b>Operator</b>	NEWFIELD PRODUCTION COMPANY		<b>Surface Owner-APD</b>	JERI CARTER	
<b>Well Name</b>	STATE 4-19-3-2WH		<b>Unit</b>		
<b>Field</b>	WILDCAT		<b>Type of Work</b>	DRILL	
<b>Location</b>	NWNW 19 3S 2W U 180 FNL	256 FWL	GPS Coord		
	(UTM) 571411E	4451868N			

### Geologic Statement of Basis

Newfield proposes to set 60' of conductor and 2,500' of surface casing at this location. The surface hole will be drilled with an air and/or fresh water mud system. The base of the moderately saline water at this location is estimated to be at a depth of 580'. A search of Division of Water Rights records shows 10 water wells within a 10,000 foot radius of the center of Section 19. All wells are privately owned. Depth is listed as ranging from 31 to 400 feet. Depth is not listed for 1 well. Water use is listed as irrigation, stock watering, and domestic use. 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 casing and cement program should adequately protect usable ground water in the area.

Brad Hill  
APD Evaluator

1/17/2012  
Date / Time

### Surface Statement of Basis

Operator has surface agreement in place with the landowner. I was made aware that some concessions were made to the landowner including ditches to be dug on the north side of location to protect flooding during irrigation and flow from bordering tribal lands/ farms. Gathering lines will be bored under canal to the south so as not to disturb irrigation activities. Land owner asked if a culvert could be placed underneath canal for irrigation drainage from higher elevation fields to the south to which T. Eaton replied was probably not going to be constructed by Newfield. Operators plans are to place a geo-grid, 3 feet of pit run and 6" of 3" minus gravel onsite for stability. Location is sited next to a road for access. No new disturbance required.

Location is proposed in the best possible position within the spacing window. 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 with comments noted. 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.

Chris Jensen  
Onsite Evaluator

1/10/2012  
Date / Time

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# Application for Permit to Drill Statement of Basis

2/2/2012

Utah Division of Oil, Gas and Mining

Page 2

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## Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
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: 12/20/2011

API NO. ASSIGNED: 43013511300000

WELL NAME: STATE 4-19-3-2WH

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: NWNW 19 030S 020W

Permit Tech Review: 

SURFACE: 0180 FNL 0256 FWL

Engineering Review: 

BOTTOM: 0660 FSL 0660 FWL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 40.21419

LONGITUDE: -110.16079

UTM SURF EASTINGS: 571411.00

NORTHINGS: 4451868.00

FIELD NAME: WILDCAT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Patented

PROPOSED PRODUCING FORMATION(S): WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: STATE/FEE - BOO1834
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 437478
- RDCC Review: 2012-02-02 00:00:00.0
- 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: R649-3-2.6
- Effective Date:
- Siting:
- R649-3-11. Directional Drill

Comments: Presite Completed  
TEMP 640 ACRE SPACING:

Stipulations: 5 - Statement of Basis - bhll  
12 - Cement Volume (3) - hmacdonald  
21 - RDCC - dmason  
23 - Spacing - dmason  
25 - Surface Casing - hmacdonald  
26 - Temporary Spacing - bhll  
27 - Other - bhll

RECEIVED: February 02, 2012



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 4-19-3-2WH  
**API Well Number:** 43013511300000  
**Lease Number:** Patented  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 2/2/2012

**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 R649-3-2.6. The expected producing formation or pool is the 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:**

The Application for Permit to Drill has been forwarded to the Resource Development Coordinating Committee for review of this action. The operator will be required to comply with any applicable recommendations resulting from this review. (See attached)

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

A temporary 640 acre spacing unit is hereby established in Section 19, Township 3 S, Range 2 W, USM for the drilling of this well (R649-3-2.6). No other horizontal wells may be drilled in this section unless approved by the Board of Oil, Gas and Mining.

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

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 2300' MD as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

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

**Additional Approvals:**

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

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

**Notification Requirements:**

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

- Within 24 hours following the spudding of the well contact Carol Daniels

OR

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

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

- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

**Contact Information:**

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

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

**Reporting Requirements:**

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

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

**Approved By:**

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

For John Rogers  
Associate Director, Oil & Gas

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BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 31 Submitted By  
Branden Arnold Phone Number 435-401-0223  
Well Name/Number State 4-19-3-2WH  
Qtr/Qtr NW/NW Section 19 Township 3S Range 2W  
Lease Serial Number Patented  
API Number 43-013-51130

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

Date/Time 3/5/12 12:00 AM  PM

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

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

Date/Time 3/6/12 12:00 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 \_\_\_\_\_

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STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM -FORM 6

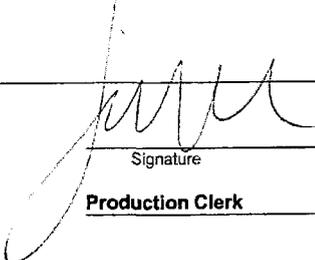
OPERATOR: **NEWFIELD PRODUCTION COMPANY**  
ADDRESS: **RT. 3 BOX 3630**  
**MYTON, UT 84052**

OPERATOR ACCT. NO. **N2695**

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
<b>B</b>	<b>99999</b>	<b>17400</b>	<b>4304751634</b>	<b>GMBU P-25-8-17</b>	<b>SWSW</b>	<b>25</b>	<b>8S</b>	<b>17E</b>	<b>DUCHESNE</b>	<b>3/6/2012</b>	
WELL 1 COMMENTS:											
<b>B</b>	<b>99999</b>	<b>17400</b>	<b>4301350744</b>	<b>GMBU D-2-9-16</b>	<b>SESW</b>	<b>2</b>	<b>9S</b>	<b>16E</b>	<b>DUCHESNE</b>	<b>3/8/2012</b>	
<b>B</b>	<b>99999</b>	<b>17400</b>	<b>4304751882</b>	<b>GMBU G-32-8-18</b>	<b>SWNW</b>	<b>32</b>	<b>8S</b>	<b>18E</b>	<b>UINTAH</b>	<b>3/7/2012</b>	
<b>B</b>	<b>99999</b>	<b>17400</b>	<b>4304751883</b>	<b>GMBU N-32-8-18</b>	<b>SWNW</b>	<b>32</b>	<b>8S</b>	<b>18E</b>	<b>UINTAH</b>	<b>3/7/2012</b>	
<b>A</b>	<b>99999</b>		<b>4301351130</b>	<b>STATE 4-19-3-2WH</b>	<b>NWNW</b>	<b>19</b>	<b>3S</b>	<b>2W</b>	<b>DUCHESNE</b>	<b>3/5/2012</b>	
<b>A</b>	<b>99999</b>		<b>4301351194</b>	<b>LAKE BOREHAM 4-36-3-3WH</b>	<b>NWNW</b>	<b>36</b>	<b>3S</b>	<b>3W</b>	<b>DUCHESNE</b>	<b>3/8/2012</b>	

ACTION CODES (See instructions on back of form)

- A - new entity for new well (single well only)
- B - well to existing entity (group or unit well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - other (explain in comments section)

  
Signature

Jentri Park

Production Clerk

03/16/12

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

STATE OF UTAH  
 DIVISION OF OIL, GAS AND MINING  
 ENTITY ACTION FORM -FORM 6

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

OPERATOR ACCT. NO. **N2695**

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	17400	4304751634	GMBU P-25-8-17	SWSW	25	8S	17E	Uintah	3/6/2012	3/21/12
WELL 1 COMMENTS: GRRV BHL: nwsu											
B	99999	17400	4301350744	GMBU D-2-9-16	SESW	35	8S	16E	DUCHESNE	3/8/2012	3/21/12
GRRV BHL: 32 T9s nwnw											
B	99999	17400	4304751882	GMBU G-32-8-18	SWNW	32	8S	18E	UINTAH	3/7/2012	3/21/12
GRRV BHL: nenw											
B	99999	17400	4304751883	GMBU N-32-8-18	SWNW	32	8S	18E	UINTAH	3/7/2012	3/21/12
GRRV BHL: nesw											
A	99999	18465	4301351130	STATE 4-19-3-2WH	NWNW	19	3S	2W	DUCHESNE	3/5/2012	3/21/12
GRRV BHL: SWSW											
A	99999	18466	4301351194	LAKE BOREHAM 4-36-3-3WH	NWNW	36	3S	3W	DUCHESNE	3/8/2012	3/21/12
GRRV BHL: SWSW											

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**CONFIDENTIAL**

ACTION CODES (See instructions on back of form)  
 A - new entity for new well (single well only)  
 B - well to existing entity (group or unit well)  
 C - from one existing entity to another existing entity  
 D - well from one existing entity to a new entity  
 E - other (explain in comments section)

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MAR 21 2012

Div. of Oil, Gas & Mining

Signature

Production Clerk

Jentri Park

03/16/12

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

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
FEE

**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:  
UINTA CB -BASAL CARB

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:  
STATE 4-19-3-2WH

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301351130

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

PHONE NUMBER  
435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
UINTA CENTRAL BASIN

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE:

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWNW, 19, T3S, R2W

STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: <u>03/07/2012</u>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Spud Notice
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

On 3/5/12 MIRU Ross #26. Spud well @9:00 AM. Drill 104' of 17 1/2" hole with air mist. TIH W/ 3 Jt's 14" H-40 36# csgn. Set @ 122.00'KB. On 3/7/12 cement with 112 sks of class "G" w/ 2% CaCL2 + 0.25#/sk Cello- Flake Mixed @ 15.8ppg w/ 1.17ft3/sk yield. Returned 4 barrels cement to pit. WOC.

NAME (PLEASE PRINT) Branden Arnold

TITLE \_\_\_\_\_

SIGNATURE *Branden Arnold*

DATE 03/16/2012

(This space for State use only)

**RECEIVED**

**APR 03 2012**

**DIV. OF OIL, GAS & MINING**

## Drive Pipe / Caisson Detail

**Well** State 4-19-3-2WH  


---

**Prospect** Central Basin  


---

**Foreman** \_\_\_\_\_  


---

**Run Date:** \_\_\_\_\_  


---

**String Type** Drive Pipe, 20", 78#, H-40, W (Welded)  


---

**- Detail From Top To Bottom -**

Depth	Length	JTS	Description
0.00	40.00		20" Conductor

**Drive Pipe / Caisson Detail**

<b>Wall Thickness (WT)</b> _____	<b>Hammer Company</b> _____
<b>Connection</b> W (Welded) _____	<b>Hammer Size</b> _____
<b>Weld Time Per Joint</b> _____	<b>Penetration BML</b> _____
<b>Free Fall Amount</b> _____	<b>Final BPF</b> _____

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**  
OR REAPPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

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

2. Name of Operator  
NEWFIELD EXPLORATION COMPANY

3. Address  
1401 17TH ST. SUITE 1000 DENVER, CO 80202

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

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

At surface 180' FNL & 256' FWL (NW/NW) SEC. 19, T3S, R2W (FEE)

At top prod. interval reported below 831' FNL & 767' FWL (NW/NW) SEC. 19, T3S, R2W (FEE)

At total depth **703'** FSL & 877' FWL (SW/SW) SEC. 19, T3S R2W (FEE) **BHL by DOGM HSM**

14. Date Spudded  
03/05/2012

15. Date T.D. Reached  
05/08/2012

16. Date Completed 07/10/2012  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5178' GL 5196' KB

18. Total Depth: MD 13345'  
TVD 8907'

19. Plug Back T.D.: MD 13300'  
TVD **8907'**

20. Depth Bridge Plug Set: MD  
TVD

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	14" H-40	36#	0	122'		122 CLASS "G"			
12-1/4"	9-5/8" J-55	36#	0	2527'		194 PREMLITE			
						524 PREMLT 2			
8-3/4"	7" P-110	26#	0	9444'		525 50/50 POZ		3400'	
						440 PREMLITE			
6-1/8"	4-1/2" P-110	13.5#	8385'	13319'		584 50/50 POZ			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT @ 8294'	Hornet @ 8260'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) <del>Green River</del> <b>Wasatch</b>	9570' MD	13223' MD	9570-13223' MD	0.34"	402	
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
9570-13223' MD	Frac w/ 2517738# 30/50 white sand & 274661# 30/50 SLC; 84389 bbls Lightning 17 fluid; 15 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
7/10/12	7/20/12	24	→	876	574	947			FLOWING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI		→					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	
	SI		→						

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

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**FEB 15 2013**

28b. Production - Interval C

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

28c. Production - Interval D

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

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

SOLD AND USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

GEOLOGICAL MARKERS

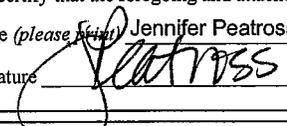
Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
WASATCH	9021' TVD	8907' TVD		GARDEN GULCH MARKER	6159'
				DOUGLAS CREEK	7268'
				BI-CARBONATE	7543'
				B LIMESTONE	7827'
				CASTLE PEAK	8186'
				BASAL CARBONATE	8512'
				WASATCH	8655'

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:

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) Jennifer Peatross Title Production Technician  
 Signature  Date 08/14/2012

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

**NEWFIELD**



**NEWFIELD EXPLORATION CO.**

DUCHESNE COUNTY, UT

STATE 4-19-3-2WH

STATE 4-19-3-2WH

STATE 4-19-3-2WH

Survey: Survey #1

**Standard Survey Report**

02 May, 2012



**Weatherford®**



Company: NEWFIELD EXPLORATION CO.  
 Project: DUCHESNE COUNTY, UT  
 Site: STATE 4-19-3-2WH  
 Well: STATE 4-19-3-2WH  
 Wellbore: STATE 4-19-3-2WH  
 Design: STATE 4-19-3-2WH

Local Co-ordinate Reference: Well STATE 4-19-3-2WH  
 TVD Reference: WELL @ 5196.00ft (PIONEER 68)  
 MD Reference: WELL @ 5196.00ft (PIONEER 68)  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 2003.21 Single User Db

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

<b>Site</b>	STATE 4-19-3-2WH				
<b>Site Position:</b>		<b>Northing:</b>	7,249,581.64 ft	<b>Latitude:</b>	40° 12' 51.450 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,014,411.25 ft	<b>Longitude:</b>	110° 9' 38.630 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.86 °

<b>Well</b>	STATE 4-19-3-2WH					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	7,249,581.64 ft	<b>Latitude:</b>	40° 12' 51.450 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,014,411.25 ft	<b>Longitude:</b>	110° 9' 38.630 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,178.00 ft

<b>Wellbore</b>	STATE 4-19-3-2WH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	BGGM2011	3/22/2012	11.32	65.88	52,222

<b>Design</b>	STATE 4-19-3-2WH				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	174.34	

<b>Survey Program</b>	Date 5/2/2012			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
221.00	13,345.00	Survey #1 (STATE 4-19-3-2WH)	MWD	MWD - Standard

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
221.00	0.42	291.25	221.00	0.29	-0.75	-0.37	0.19	0.19	0.00
312.00	0.70	293.38	311.99	0.64	-1.58	-0.79	0.31	0.31	2.34
403.00	0.06	293.34	402.99	0.87	-2.13	-1.08	0.70	-0.70	-0.04
494.00	0.13	229.34	493.99	0.83	-2.25	-1.04	0.13	0.08	-70.33
619.00	0.24	241.70	618.99	0.61	-2.59	-0.86	0.09	0.09	9.89
744.00	0.46	246.97	743.99	0.29	-3.28	-0.61	0.18	0.18	4.22
868.00	0.67	73.06	867.99	0.31	-3.05	-0.60	0.91	0.17	-140.25
993.00	1.05	79.12	992.97	0.73	-1.22	-0.85	0.31	0.30	4.85
1,118.00	1.49	81.53	1,117.94	1.19	1.51	-1.04	0.35	0.35	1.93
1,241.00	2.00	79.94	1,240.88	1.80	5.20	-1.28	0.42	0.41	-1.29
1,366.00	2.45	86.19	1,365.79	2.36	10.02	-1.36	0.41	0.36	5.00
1,490.00	2.67	117.51	1,489.67	1.20	15.22	0.31	1.13	0.18	25.26



Company: NEWFIELD EXPLORATION CO.  
 Project: DUCHESNE COUNTY, UT  
 Site: STATE 4-19-3-2WH  
 Well: STATE 4-19-3-2WH  
 Wellbore: STATE 4-19-3-2WH  
 Design: STATE 4-19-3-2WH

Local Co-ordinate Reference: Well STATE 4-19-3-2WH  
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 MD Reference: WELL @ 5196.00ft (PIONEER 68)  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,615.00	1.72	166.88	1,614.59	-1.97	18.23	3.76	1.62	-0.76	39.50
1,740.00	1.50	235.50	1,739.55	-4.72	17.31	6.41	1.46	-0.18	54.90
1,864.00	2.21	307.42	1,863.50	-4.19	14.07	5.56	1.82	0.57	58.00
1,988.00	2.37	303.33	1,987.40	-1.33	10.03	2.31	0.18	0.13	-3.30
2,112.00	3.43	328.46	2,111.24	3.24	5.95	-2.64	1.32	0.85	20.27
2,238.00	3.92	348.52	2,236.99	10.67	3.12	-10.31	1.09	0.39	15.92
2,300.00	4.36	0.89	2,298.83	15.11	2.74	-14.76	1.60	0.71	19.95
2,363.00	5.91	343.82	2,361.58	20.62	1.87	-20.33	3.43	2.46	-27.10
2,425.00	8.50	334.61	2,423.08	27.82	-0.99	-27.79	4.56	4.18	-14.85
2,472.00	10.60	328.22	2,469.43	34.64	-4.75	-34.94	5.00	4.47	-13.60
2,540.00	13.50	326.37	2,535.93	46.57	-12.44	-47.57	4.30	4.26	-2.72
2,634.00	10.92	327.40	2,627.79	63.21	-23.32	-65.20	2.75	-2.74	1.10
2,696.00	10.94	337.10	2,688.67	73.57	-28.77	-76.05	2.96	0.03	15.65
2,758.00	9.70	345.31	2,749.67	84.05	-32.39	-86.83	3.10	-2.00	13.24
2,819.00	7.53	0.63	2,809.99	93.02	-33.65	-95.88	5.15	-3.56	25.11
2,881.00	7.14	20.93	2,871.49	100.68	-32.23	-103.37	4.20	-0.63	32.74
2,943.00	6.27	32.46	2,933.07	107.13	-29.03	-109.48	2.58	-1.40	18.60
3,006.00	3.99	33.32	2,995.81	111.87	-25.98	-113.89	3.62	-3.62	1.37
3,068.00	3.64	56.97	3,057.68	114.74	-23.15	-116.47	2.58	-0.56	38.15
3,131.00	4.04	69.84	3,120.54	116.60	-19.39	-117.94	1.50	0.63	20.43
3,193.00	2.78	85.13	3,182.43	117.48	-15.84	-118.47	2.49	-2.03	24.66
3,255.00	2.20	121.46	3,244.37	116.99	-13.32	-117.73	2.66	-0.94	58.60
3,317.00	2.07	119.60	3,306.33	115.81	-11.34	-116.37	0.24	-0.21	-3.00
3,411.00	1.65	122.97	3,400.28	114.24	-8.72	-114.54	0.46	-0.45	3.59
3,505.00	2.52	110.47	3,494.22	112.78	-5.65	-112.79	1.04	0.93	-13.30
3,599.00	3.66	104.48	3,588.08	111.31	-0.81	-110.84	1.26	1.21	-6.37
3,693.00	3.49	112.05	3,681.90	109.48	4.75	-108.48	0.53	-0.18	8.05
3,756.00	3.08	114.30	3,744.79	108.06	8.07	-106.74	0.68	-0.65	3.57
3,820.00	2.73	115.19	3,808.71	106.71	11.01	-105.10	0.55	-0.55	1.39
3,882.00	2.59	116.32	3,870.64	105.46	13.60	-103.60	0.24	-0.23	1.82
3,944.00	2.44	120.77	3,932.58	104.16	15.99	-102.08	0.40	-0.24	7.18
4,005.00	2.27	124.45	3,993.53	102.81	18.10	-100.53	0.37	-0.28	6.03
4,068.00	2.88	124.63	4,056.47	101.21	20.44	-98.70	0.97	0.97	0.29
4,130.00	3.40	120.21	4,118.38	99.40	23.31	-96.61	0.92	0.84	-7.13
4,255.00	2.59	132.89	4,243.21	95.61	28.58	-92.33	0.83	-0.65	10.14
4,379.00	2.06	92.86	4,367.11	93.59	32.86	-89.89	1.34	-0.43	-32.28
4,504.00	1.98	100.86	4,492.03	93.07	37.22	-88.95	0.23	-0.06	6.40
4,628.00	2.29	77.85	4,615.95	93.19	41.75	-88.62	0.73	0.25	-18.56
4,752.00	1.32	80.48	4,739.89	93.95	45.58	-88.99	0.78	-0.78	2.12
4,876.00	3.22	80.80	4,863.78	94.74	50.43	-89.31	1.53	1.53	0.26
5,000.00	1.75	96.73	4,987.67	95.08	55.74	-89.11	1.30	-1.19	12.85
5,126.00	1.13	115.16	5,113.63	94.32	58.78	-88.06	0.61	-0.49	14.63
5,251.00	3.49	105.25	5,238.52	92.80	63.57	-86.07	1.91	1.89	-7.93
5,376.00	2.63	112.80	5,363.34	90.69	69.88	-83.35	0.76	-0.69	6.04
5,499.00	1.92	135.56	5,486.24	88.12	73.93	-80.40	0.92	-0.58	18.50
5,625.00	1.47	146.94	5,612.19	85.26	76.28	-77.32	0.44	-0.36	9.03
5,748.00	1.38	164.36	5,735.15	82.51	77.54	-74.46	0.36	-0.07	14.16
5,872.00	1.55	179.62	5,859.11	79.40	77.96	-71.32	0.34	0.14	12.31
5,996.00	2.94	142.40	5,983.02	75.20	79.91	-66.95	1.57	1.12	-30.02
6,122.00	2.41	156.11	6,108.88	70.22	82.95	-61.69	0.66	-0.42	10.88
6,247.00	2.25	153.26	6,233.78	65.62	85.12	-56.90	0.16	-0.13	-2.28
6,371.00	2.74	102.51	6,357.67	62.81	89.11	-53.71	1.76	0.40	-40.93
6,497.00	2.12	120.97	6,483.56	60.96	94.05	-51.38	0.79	-0.49	14.65
6,620.00	1.84	138.37	6,606.49	58.31	97.31	-48.42	0.54	-0.23	14.15



**Company:** NEWFIELD EXPLORATION CO.  
**Project:** DUCHESNE COUNTY, UT  
**Site:** STATE 4-19-3-2WH  
**Well:** STATE 4-19-3-2WH  
**Wellbore:** STATE 4-19-3-2WH  
**Design:** STATE 4-19-3-2WH

**Local Co-ordinate Reference:** Well STATE 4-19-3-2WH  
**TVD Reference:** WELL @ 5196.00ft (PIONEER 68)  
**MD Reference:** WELL @ 5196.00ft (PIONEER 68)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

**Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
6,744.00	1.96	158.78	6,730.42	54.84	99.40	-44.77	0.55	0.10	16.46	
6,868.00	2.07	165.17	6,854.34	50.70	100.74	-40.51	0.20	0.09	5.15	
6,992.00	2.66	175.78	6,978.24	45.67	101.53	-35.43	0.59	0.48	8.56	
<b>VERTICAL POINT</b>										
7,028.84	2.64	174.88	7,015.04	43.97	101.67	-33.72	0.12	-0.05	-2.43	
7,115.00	2.60	172.74	7,101.11	40.05	102.09	-29.79	0.12	-0.05	-2.49	
7,241.00	2.94	181.82	7,226.96	33.99	102.35	-23.72	0.44	0.27	7.21	
7,366.00	1.54	159.90	7,351.87	29.21	102.83	-18.92	1.29	-1.12	-17.54	
7,489.00	0.99	77.51	7,474.84	27.89	104.43	-17.45	1.40	-0.45	-66.98	
7,614.00	1.19	345.47	7,599.83	29.38	105.16	-18.86	1.26	0.16	-73.63	
7,739.00	2.45	54.90	7,724.78	32.17	107.02	-21.45	1.85	1.01	55.54	
7,863.00	3.01	60.76	7,848.63	35.28	112.03	-24.06	0.50	0.45	4.73	
7,987.00	2.68	37.24	7,972.49	39.18	116.62	-27.48	0.97	-0.27	-18.97	
8,112.00	1.66	79.97	8,097.40	41.82	120.18	-29.76	1.48	-0.82	34.18	
8,237.00	2.72	107.61	8,222.31	41.24	124.79	-28.73	1.17	0.85	22.11	
8,362.00	3.26	125.37	8,347.14	38.29	130.51	-25.22	0.85	0.43	14.21	
8,375.00	3.49	128.51	8,360.12	37.83	131.12	-24.70	2.27	1.77	24.15	
8,392.00	3.43	130.44	8,377.09	37.17	131.91	-23.98	0.77	-0.35	11.35	
8,423.00	3.92	128.46	8,408.03	35.91	133.45	-22.57	1.63	1.58	-6.39	
8,454.00	5.95	127.22	8,438.91	34.28	135.56	-20.74	6.56	6.55	-4.00	
8,485.00	8.30	128.32	8,469.67	31.92	138.59	-18.09	7.59	7.58	3.55	
8,516.00	11.26	128.01	8,500.22	28.67	142.74	-14.45	9.55	9.55	-1.00	
8,547.00	13.42	138.55	8,530.50	24.11	147.50	-9.44	10.04	6.97	34.00	
8,578.00	16.41	144.40	8,560.45	17.85	152.43	-2.72	10.79	9.65	18.87	
8,610.00	19.15	147.88	8,590.92	9.73	157.86	5.89	9.18	8.56	10.88	
8,641.00	22.53	146.78	8,619.89	0.45	163.82	15.72	10.98	10.90	-3.55	
8,672.00	25.91	144.63	8,648.16	-10.04	170.99	26.87	11.27	10.90	-6.94	
8,703.00	28.93	142.98	8,675.67	-21.55	179.43	39.16	10.04	9.74	-5.32	
8,734.00	31.92	142.30	8,702.40	-34.03	188.96	52.51	9.71	9.65	-2.19	
8,765.00	34.45	143.40	8,728.34	-47.55	199.20	66.98	8.39	8.16	3.55	
8,796.00	36.60	144.66	8,753.57	-62.13	209.77	82.53	7.33	6.94	4.06	
8,827.00	38.95	144.48	8,778.07	-77.61	220.78	99.01	7.59	7.58	-0.58	
8,859.00	41.63	142.84	8,802.48	-94.27	233.05	116.80	9.01	8.38	-5.13	
8,890.00	44.29	142.83	8,825.17	-111.10	245.81	134.81	8.58	8.58	-0.03	
8,921.00	47.08	144.03	8,846.82	-128.92	259.02	153.85	9.42	9.00	3.87	
8,952.00	49.60	143.98	8,867.43	-147.65	272.63	173.83	8.13	8.13	-0.16	
8,982.00	52.75	144.80	8,886.23	-166.65	286.23	194.08	10.71	10.50	2.73	
9,013.00	55.55	146.85	8,904.39	-187.44	300.34	216.16	10.50	9.03	6.61	
9,045.00	58.61	148.34	8,921.78	-210.12	314.73	240.15	10.33	9.56	4.66	
9,076.00	61.35	149.96	8,937.29	-233.16	328.49	264.44	9.93	8.84	5.23	
9,107.00	62.37	151.13	8,951.91	-256.97	341.93	289.45	4.68	3.29	3.77	
9,138.00	64.20	151.97	8,965.84	-281.31	355.12	314.98	6.38	5.90	2.71	
9,169.00	66.63	152.83	8,978.74	-306.29	368.17	341.13	8.23	7.84	2.77	
9,200.00	70.19	154.75	8,990.14	-332.15	380.90	368.11	12.85	11.48	6.19	
9,231.00	73.34	154.89	8,999.84	-358.79	393.42	395.86	10.17	10.16	0.45	
9,262.00	76.95	155.36	9,007.79	-385.97	406.02	424.15	11.74	11.65	1.52	
9,294.00	79.89	156.52	9,014.21	-414.59	418.80	453.90	9.85	9.19	3.63	
9,325.00	81.73	156.61	9,019.16	-442.67	430.97	483.04	5.94	5.94	0.29	
9,356.00	85.24	156.33	9,022.68	-470.91	443.26	512.35	11.36	11.32	-0.90	
9,395.00	89.51	157.20	9,024.47	-506.70	458.63	549.48	11.17	10.95	2.23	
<b>LANDING POINT STATE 4-19-3-2WH</b>										
9,419.24	90.15	158.25	9,024.54	-529.12	467.82	572.70	5.07	2.65	4.32	
9,485.00	91.89	161.09	9,023.37	-590.77	490.66	636.30	5.07	2.64	4.32	
9,549.00	91.75	161.18	9,021.33	-651.30	511.34	698.58	0.26	-0.22	0.14	



Company: NEWFIELD EXPLORATION CO.  
 Project: DUCHESNE COUNTY, UT  
 Site: STATE 4-19-3-2WH  
 Well: STATE 4-19-3-2WH  
 Wellbore: STATE 4-19-3-2WH  
 Design: STATE 4-19-3-2WH

Local Co-ordinate Reference: Well STATE 4-19-3-2WH  
 TVD Reference: WELL @ 5196.00ft (PIONEER 68)  
 MD Reference: WELL @ 5196.00ft (PIONEER 68)  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 2003.21 Single User Db

**Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,612.00	92.94	164.36	9,018.76	-711.42	529.99	760.24	5.39	1.89	5.05
9,676.00	91.12	164.56	9,016.49	-773.03	547.12	823.25	2.86	-2.84	0.31
9,739.00	91.68	166.94	9,014.95	-834.07	562.62	885.52	3.88	0.89	3.78
9,803.00	92.52	170.09	9,012.60	-896.74	575.36	949.14	5.09	1.31	4.92
9,866.00	92.94	174.73	9,009.60	-959.10	583.67	1,012.01	7.39	0.67	7.37
9,930.00	91.33	178.41	9,007.22	-1,022.93	587.49	1,075.91	6.27	-2.52	5.75
10,020.00	91.47	185.32	9,005.01	-1,112.80	584.56	1,165.05	7.68	0.16	7.68
10,083.00	89.16	186.48	9,004.67	-1,175.46	578.09	1,226.77	4.10	-3.67	1.84
10,147.00	88.18	186.66	9,006.15	-1,239.02	570.77	1,289.30	1.56	-1.53	0.28
10,210.00	90.14	185.09	9,007.08	-1,301.68	564.32	1,351.01	3.99	3.11	-2.49
10,273.00	90.07	183.89	9,006.96	-1,364.48	559.39	1,413.02	1.91	-0.11	-1.90
10,336.00	89.30	183.04	9,007.31	-1,427.37	555.58	1,475.22	1.82	-1.22	-1.35
10,400.00	90.77	180.65	9,007.27	-1,491.33	553.52	1,538.67	4.38	2.30	-3.73
10,463.00	91.26	180.16	9,006.15	-1,554.32	553.08	1,601.31	1.10	0.78	-0.78
10,526.00	92.66	181.05	9,004.00	-1,617.27	552.41	1,663.89	2.63	2.22	1.41
10,590.00	91.75	180.50	9,001.54	-1,681.22	551.55	1,727.44	1.66	-1.42	-0.86
10,653.00	91.89	179.44	8,999.54	-1,744.19	551.58	1,790.10	1.70	0.22	-1.68
10,716.00	92.10	179.18	8,997.34	-1,807.14	552.34	1,852.83	0.53	0.33	-0.41
10,780.00	92.17	179.28	8,994.96	-1,871.09	553.20	1,916.55	0.19	0.11	0.16
10,843.00	91.61	179.86	8,992.88	-1,934.06	553.67	1,979.25	1.28	-0.89	0.92
10,906.00	93.71	181.91	8,989.96	-1,996.97	552.70	2,041.77	4.66	3.33	3.25
10,969.00	91.96	179.71	8,986.84	-2,059.89	551.81	2,104.28	4.46	-2.78	-3.49
11,032.00	90.56	179.02	8,985.45	-2,122.86	552.51	2,167.02	2.48	-2.22	-1.10
11,095.00	91.47	180.35	8,984.34	-2,185.85	552.85	2,229.74	2.56	1.44	2.11
11,159.00	93.08	182.16	8,981.80	-2,249.78	551.45	2,293.22	3.78	2.52	2.83
11,222.00	92.24	181.91	8,978.87	-2,312.67	549.22	2,355.58	1.39	-1.33	-0.40
11,285.00	91.47	181.56	8,976.83	-2,375.61	547.31	2,418.02	1.34	-1.22	-0.56
11,348.00	92.66	183.02	8,974.56	-2,438.52	544.80	2,480.37	2.99	1.89	2.32
11,412.00	93.36	183.60	8,971.20	-2,502.32	541.11	2,543.50	1.42	1.09	0.91
11,475.00	91.47	180.93	8,968.55	-2,565.21	538.62	2,605.84	5.19	-3.00	-4.24
11,538.00	90.98	181.50	8,967.20	-2,628.18	537.29	2,668.37	1.19	-0.78	0.90
11,602.00	90.07	181.57	8,966.62	-2,692.15	535.57	2,731.86	1.43	-1.42	0.11
11,665.00	88.67	180.23	8,967.31	-2,755.14	534.58	2,794.44	3.08	-2.22	-2.13
11,728.00	90.28	179.30	8,967.89	-2,818.13	534.84	2,857.15	2.95	2.56	-1.48
11,792.00	90.91	178.23	8,967.22	-2,882.11	536.22	2,920.96	1.94	0.98	-1.67
11,855.00	91.75	177.23	8,965.76	-2,945.04	538.71	2,983.83	2.07	1.33	-1.59
11,918.00	91.47	176.55	8,963.99	-3,007.93	542.13	3,046.74	1.17	-0.44	-1.08
11,982.00	92.45	177.13	8,961.80	-3,071.79	545.66	3,110.64	1.78	1.53	0.91
12,045.00	93.01	177.68	8,958.80	-3,134.65	548.51	3,173.48	1.25	0.89	0.87
12,108.00	93.01	178.29	8,955.49	-3,197.53	550.72	3,236.26	0.97	0.00	0.97
12,172.00	92.52	177.69	8,952.40	-3,261.41	552.96	3,300.06	1.21	-0.77	-0.94
12,235.00	93.08	178.09	8,949.33	-3,324.29	555.28	3,362.86	1.09	0.89	0.63
12,298.00	92.52	177.70	8,946.25	-3,387.18	557.59	3,425.67	1.08	-0.89	-0.62
12,362.00	92.10	177.59	8,943.67	-3,451.07	560.22	3,489.51	0.68	-0.66	-0.17
12,425.00	92.87	177.39	8,940.94	-3,513.95	562.97	3,552.35	1.26	1.22	-0.32
12,488.00	94.35	175.21	8,936.97	-3,576.69	567.03	3,615.19	4.18	2.35	-3.46
12,552.00	94.20	177.90	8,932.20	-3,640.39	570.86	3,678.95	4.20	-0.23	4.20
12,615.00	93.99	177.26	8,927.70	-3,703.17	573.52	3,741.69	1.07	-0.33	-1.02
12,678.00	93.56	177.58	8,923.55	-3,765.97	576.35	3,804.46	0.85	-0.68	0.51
12,710.00	93.22	176.93	8,921.66	-3,797.88	577.88	3,836.37	2.29	-1.06	-2.03
12,773.00	92.73	175.91	8,918.39	-3,860.67	581.81	3,899.24	1.79	-0.78	-1.62
12,836.00	92.10	176.03	8,915.74	-3,923.46	586.23	3,962.16	1.02	-1.00	0.19
12,900.00	91.82	176.23	8,913.55	-3,987.27	590.55	4,026.09	0.54	-0.44	0.31
12,995.00	91.68	176.51	8,910.64	-4,082.04	596.56	4,120.98	0.33	-0.15	0.29



Company: NEWFIELD EXPLORATION CO.  
 Project: DUCHESNE COUNTY, UT  
 Site: STATE 4-19-3-2WH  
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 Design: STATE 4-19-3-2WH

Local Co-ordinate Reference: Well STATE 4-19-3-2WH  
 TVD Reference: WELL @ 5196.00ft (PIONEER 68)  
 MD Reference: WELL @ 5196.00ft (PIONEER 68)  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 2003.21 Single User Db

**Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
13,058.00	91.19	175.80	8,909.07	-4,144.88	600.78	4,183.93	1.37	-0.78	-1.13
13,122.00	90.91	176.16	8,907.89	-4,208.71	605.27	4,247.89	0.71	-0.44	0.56
13,185.00	90.28	175.80	8,907.24	-4,271.55	609.68	4,310.86	1.15	-1.00	-0.57
13,248.00	90.14	176.09	8,907.01	-4,334.39	614.14	4,373.84	0.51	-0.22	0.46
<b>LAST SVY</b>									
13,285.00	89.79	175.76	8,907.03	-4,371.30	616.77	4,410.83	1.30	-0.95	-0.89
<b>PROJ SVY - PBHL STATE 4-19-3-2WH</b>									
13,345.00	89.79	175.76	8,907.25	-4,431.13 ←	621.20 →	4,470.81	0.00	0.00	0.00

**Survey Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
13,285.00	8,907.03	-4,371.30	616.77	LAST SVY
13,345.00	8,907.25	-4,431.13	621.20	PROJ SVY

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

# NEWFIELD



Project: DUCHESNE COUNTY, UT  
 Site: STATE 4-19-3-2WH  
 Well: STATE 4-19-3-2WH  
 Wellbore: STATE 4-19-3-2WH  
 Design: STATE 4-19-3-2WH  
 Latitude: 40° 12' 51.450 N  
 Longitude: 110° 9' 38.630 W  
 GL: 5178.00  
 KB: WELL @ 5196.00ft (PIONEER 68)

### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL STATE 4-19-3-2WH	8890.00	-4467.50	443.00	40° 12' 7.299 N	110° 9' 32.920 W	Point
LANDING POINT STATE 4-19-3-2WH	9050.11	-530.65	464.70	40° 12' 46.206 N	110° 9' 32.640 W	Point

### WELL DETAILS: STATE 4-19-3-2WH

+N/-S	+E/-W	Northing	Ground Level: Easting	5178.00 Latitude	Longitude	Slot
0.00	0.00	7249581.64	2014411.25	40° 12' 51.450 N	110° 9' 38.630 W	

### SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
2472.00	10.60	328.22	2469.43	34.64	-4.75	0.00	0.00	-34.94	Start DLS 2.00 TFO 169.85
3111.68	3.00	100.00	3105.87	81.94	-19.31	2.00	169.85	-83.45	Start DLS 0.02 TFO 161.38
8525.00	2.00	110.00	8513.99	25.04	208.96	0.02	161.38	-4.29	Start DLS 10.98 TFO 41.34
8921.00	45.00	150.00	8869.08	-104.87	289.35	10.98	41.34	132.91	Start DLS 9.55 TFO 17.40
9431.00	92.32	163.00	9050.11	-530.65	464.70	9.55	17.40	573.92	Start DLS 3.00 TFO 89.62
10057.01	92.32	181.80	9024.54	-1147.86	547.07	3.00	89.62	1196.24	Start 3323.99 hold at 10057.01 MD
13381.00	92.32	181.80	8890.00	-4467.50	443.00	0.00	0.00	4489.41	TD at 13381.00

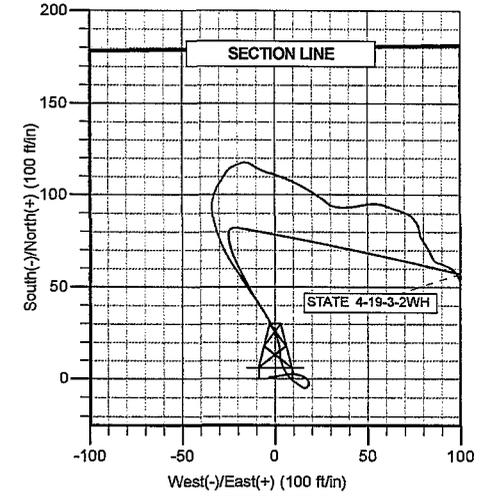
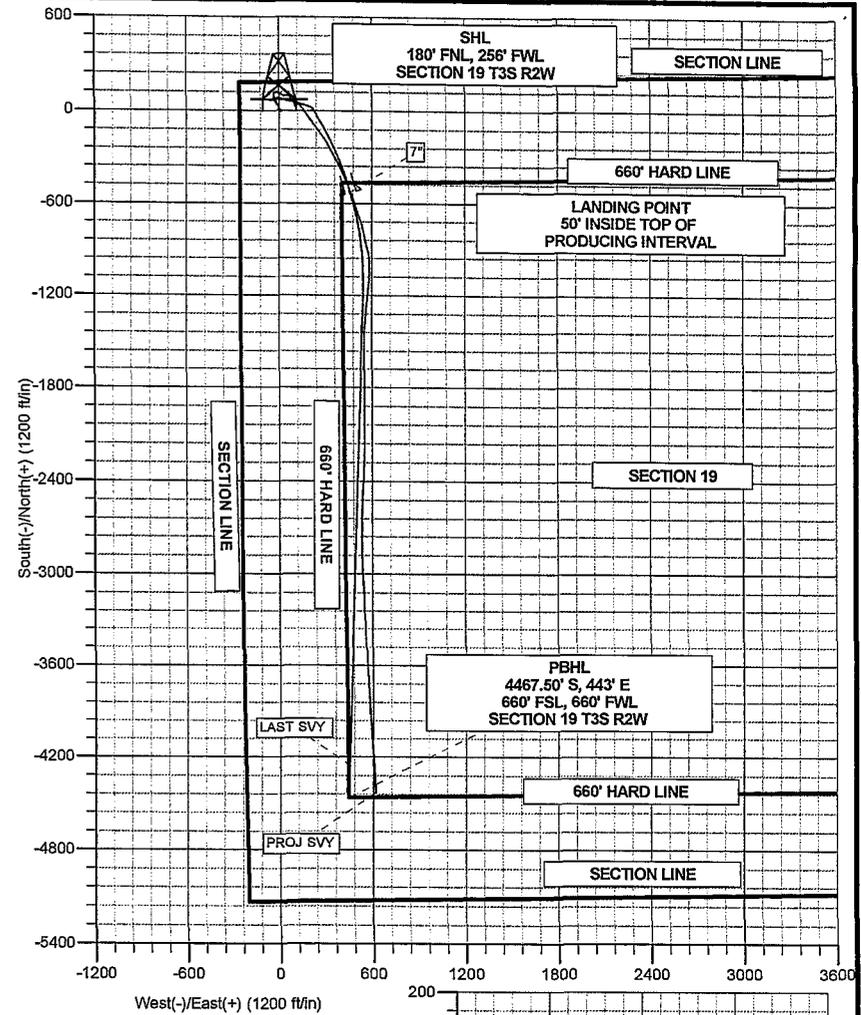
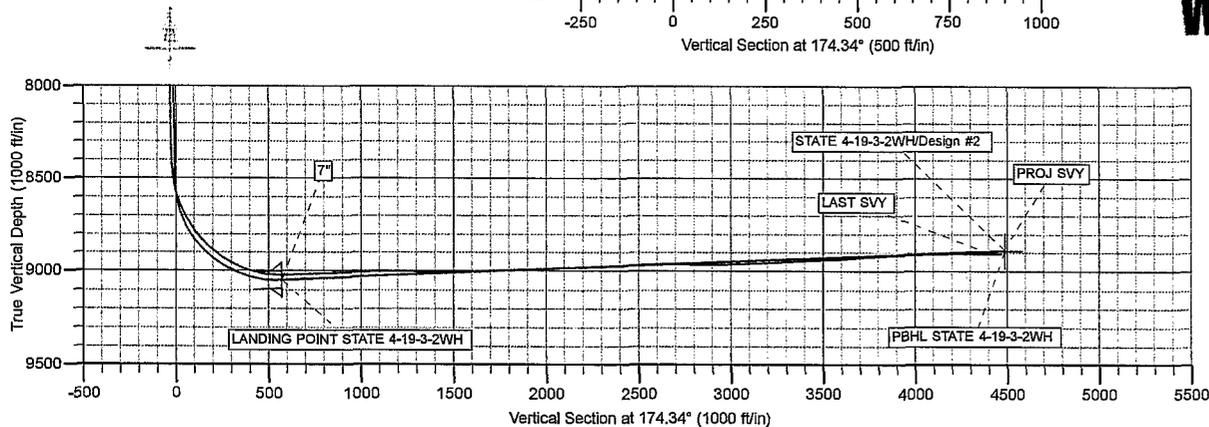
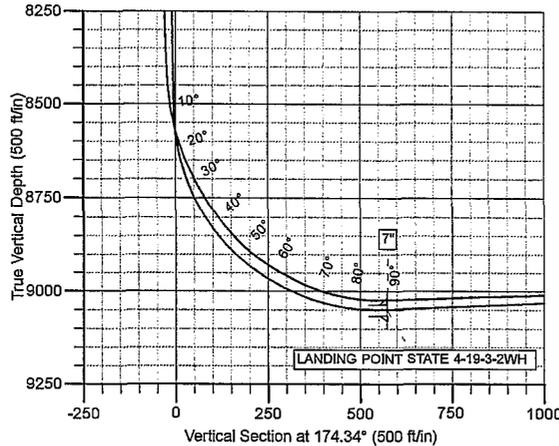


Azimuths to True North  
 Magnetic North: 11.32°

Magnetic Field  
 Strength: 52222.4snT  
 Dip Angle: 66.88°  
 Date: 3/22/2012  
 Model: BGGM2011

### CASING DETAILS

TVD	MD	Name	Size
9050.11	9431.00	7"	7



Survey: Survey #1 (STATE 4-19-3-2WH/STATE 4-19-3-2WH)  
 Created By: TRACY WILLIAMS Date: 10:29, May 02 2012