

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 Larsen 2-29-3-2WH								
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') Aaron B & Danyel Abbott						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-646-3146								
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') HC 64 Box 146, Duchesne, UT 84021						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')								
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input checked="" type="checkbox"/>								
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN		
LOCATION AT SURFACE		880 FNL 2381 FEL		NWNE		29		3.0 S		2.0 W		U		
Top of Uppermost Producing Zone		880 FNL 2381 FEL		NWNE		29		3.0 S		2.0 W		U		
At Total Depth		665 FSL 1980 FEL		SRE		29		3.0 S		2.0 W		U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 80			23. NUMBER OF ACRES IN DRILLING UNIT 40								
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Approved For Drilling or Completed) 0			26. PROPOSED DEPTH MD: 11751 TVD: 8090								
27. ELEVATION - GROUND LEVEL 5172			28. BOND NUMBER B001834			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	0.0	Premium Lite High Strength	204	3.53	11.0				
							Class G	154	1.17	15.8				
I1	8.75	7	0 - 8580	26.0	P-110 Other	10.5	Premium Lite High Strength	245	3.53	11.0				
							50/50 Poz	359	1.24	14.3				
PROD	6.125	4.5	7684 - 11751	13.5	P-110 Other	10.5	No Used	0	0.0	0.0				
<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 Don Hamilton				TITLE Permitting Agent				PHONE 435 719-2018						
SIGNATURE				DATE 02/13/2012				EMAIL starpoint@etv.net						
API NUMBER ASSIGNED 43013512240000				APPROVAL   Permit Manager										

**Newfield Production Company****Larsen 2-29-3-2WH****Surface Hole Location: 880' FNL, 2381' FEL, Section 29, T3S, R2W****Bottom Hole Location: 665' FSL, 1980' FEL, Section 29, T3S, R2W****Duchesne County, UT****Drilling Program****1. Formation Tops**

Uinta	surface
Green River	3,143'
Garden Gulch member	6,003'
Wasatch	8,423'
Pilot Hole TD	8,650'
Lateral TD	8,090' TVD / 11,751' MD

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

Base of moderately saline	1,050'	(water)
Green River	6,003' - 8,090'	(oil)

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

**3. Pressure Control**

<u>Section</u>	<u>BOP Description</u>
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Surface	12-1/4" diverter
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Interm/Prod The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system.

A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 psi will be used.

**4. Casing**

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Conductor 14	0'	60'	37	H-40	Weld	--	--	--	--	--	--
Surface 9 5/8	0'	2,500'	36	J-55	LTC	8.33	8.33	12	3,520	2,020	453,000
Intermediate 7	0'	8,254'	26	P-110	BTC	10	10.5	15	9,960	6,210	853,000
		8,580'							2.87	1.69	3.82
Production 4 1/2	7,684'	8,090'	13.5	P-110	BTC	10	10.5	--	12,410	10,670	422,000
		11,751'							3.65	2.96	7.69

**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	20	15%	11.0	3.53
				204			
Surface Tail	12 1/4	500'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	180	15%	15.8	1.17
				154			
Pilot Hole Plug Back	8 3/4	1,016'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	488	15%	14.3	1.24
				394			
Intermediate Lead	8 3/4	5,002'	Premium Lite II w/ 3% KCl + 10% bentonite	865	15%	11.0	3.53
				245			
Intermediate Tail	8 3/4	2,577'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	446	15%	14.3	1.24
				359			
Production	6 1/8	--	Liner will not be cemented. It will be isolated with a liner top packer.	--	--	--	--
				--			

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

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

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

**6. Type and Characteristics of Proposed Circulating Medium**

**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.

$$8,090' \times 0.52 \text{ psi/ft} = 4207 \text{ psi}$$

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

## 9. Other Aspects

An 8-3/4" pilot hole will be drilled in order to determine the depth to the lateral target zone. The pilot hole will be logged, and then plugged back in preparation for horizontal operations. Directional tools will then be used to build to 92.95 degrees inclination. The 7" intermediate casing string will be set once the well is landed horizontally in the target zone.

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

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

Newfield requests the following variances from Onshore Order #2:

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

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

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

NEWFIELD EXPLORATION COMPANY

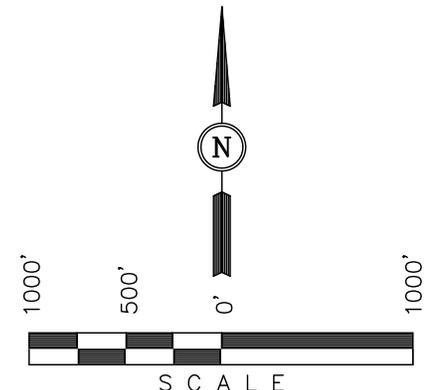
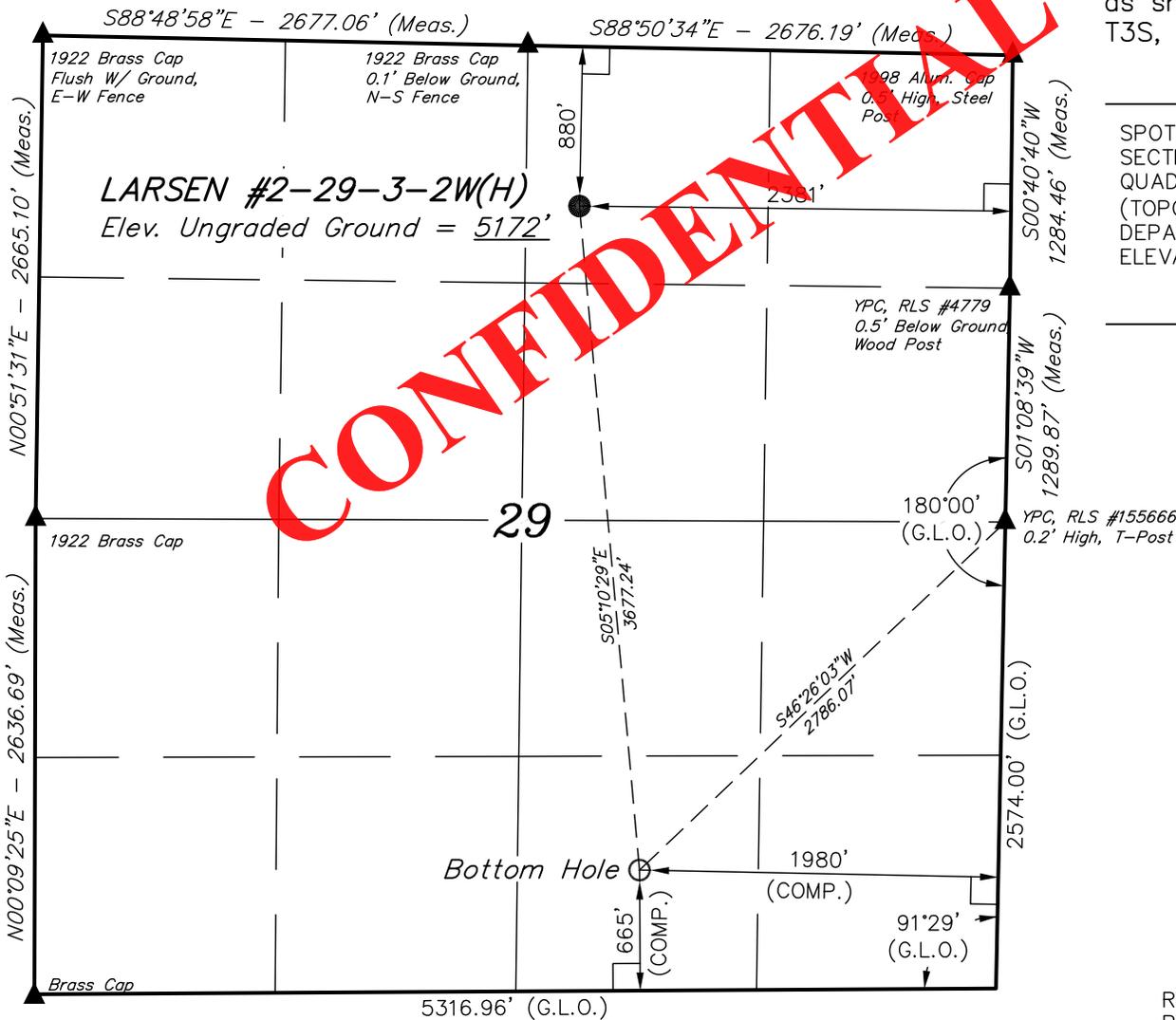
Well location, LARSEN #2-29-3-2W(H), located as shown in the NW 1/4 NE 1/4 of Section 29, T3S, R2W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE SOUTHEAST CORNER OF SECTION 20, T3S, R2W, U.S.B.&M. TAKEN FROM THE MYTON, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5148 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

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

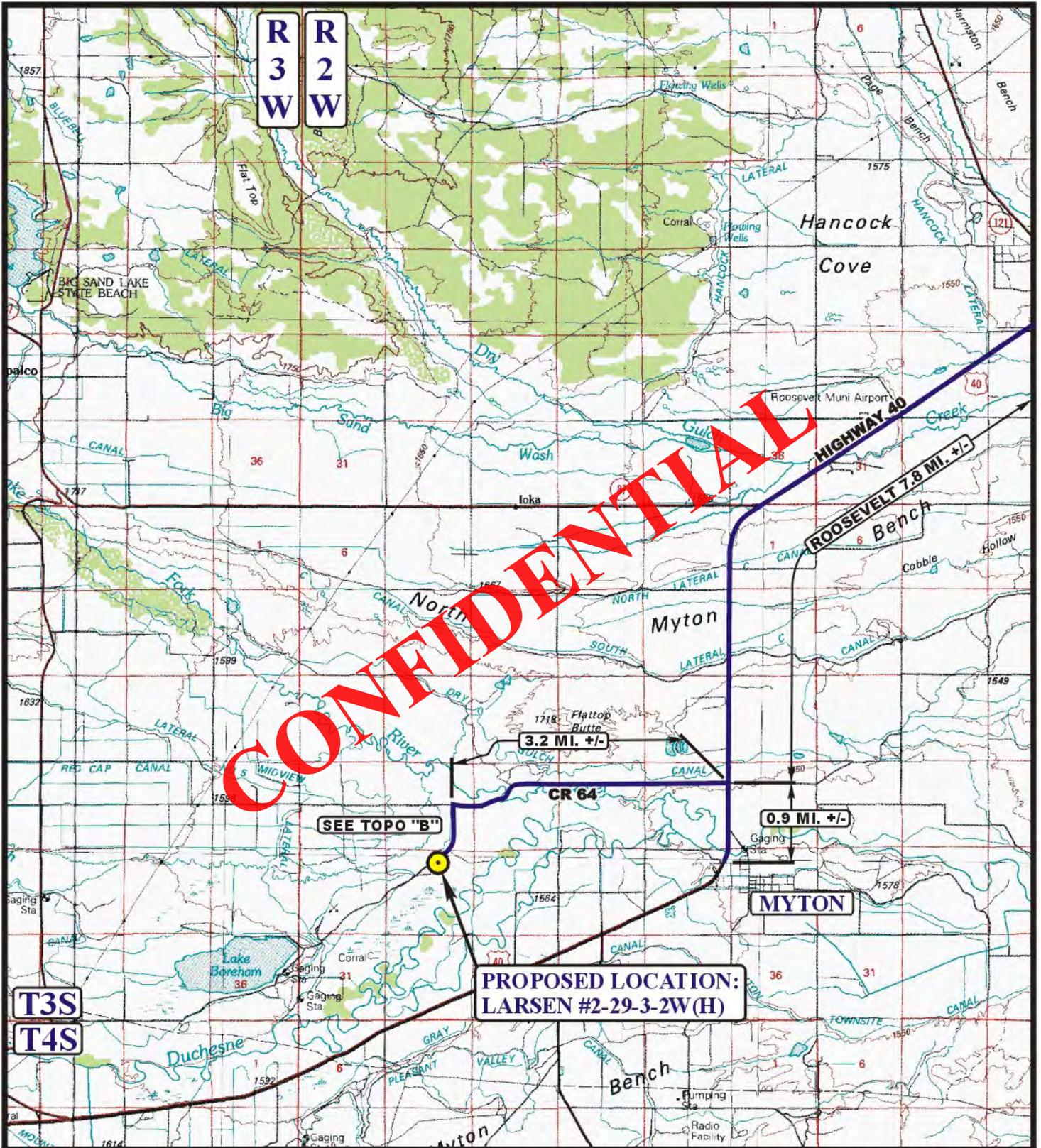
ROBERT L. KAY  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

REV.: 02-01-12  
 REV.: 09-07-11

<p><b>UINTAH ENGINEERING &amp; LAND SURVEYING</b>                  85 SOUTH 200 EAST - VERNAL, UTAH 84078                  (435) 789-1017</p>		
SCALE 1" = 1000'	DATE SURVEYED: 07-28-11	DATE DRAWN: 08-31-11
PARTY G.O. C.A. J.I.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE NEWFIELD EXPLORATION COMPANY	

- LEGEND:**
- └─┘ = 90° SYMBOL
  - = PROPOSED WELL HEAD.
  - ▲ = SECTION CORNERS LOCATED

<b>NAD 83 (TARGET BOTTOM HOLE)</b> LATITUDE = 40°11'15.25" (40.187569) LONGITUDE = 110°07'50.95" (110.130819)	<b>NAD 83 (SURFACE LOCATION)</b> LATITUDE = 40°11'51.43" (40.197619) LONGITUDE = 110°07'55.23" (110.132008)
<b>NAD 27 (TARGET BOTTOM HOLE)</b> LATITUDE = 40°11'15.40" (40.187611) LONGITUDE = 110°07'48.40" (110.130111)	<b>NAD 27 (SURFACE LOCATION)</b> LATITUDE = 40°11'51.58" (40.197661) LONGITUDE = 110°07'52.68" (110.131300)



**LEGEND:**

● PROPOSED LOCATION

**NEWFIELD EXPLORATION COMPANY**

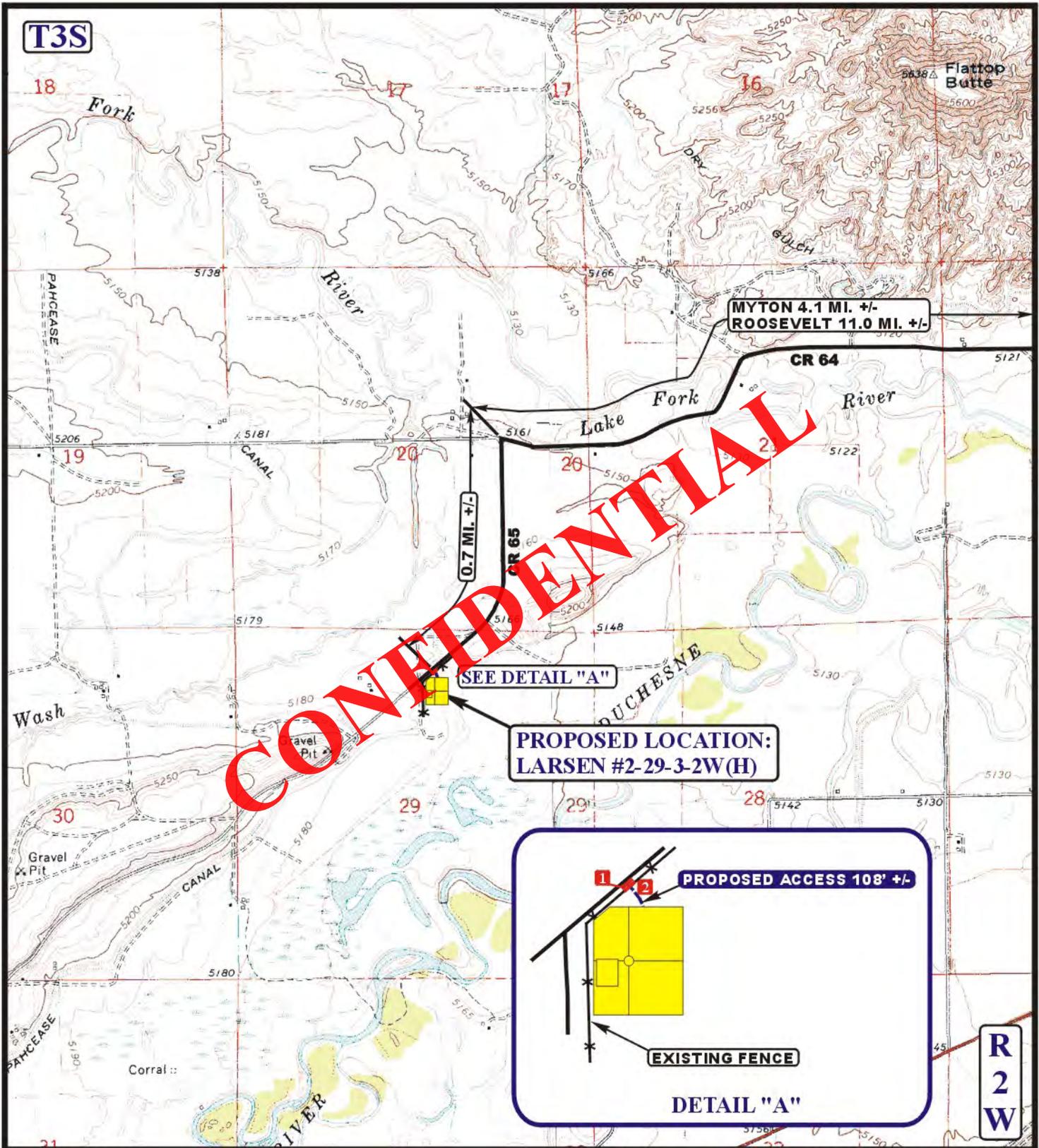
**LARSEN #2-29-3-2W(H)**  
**SECTION 29, T3S, R2W, U.S.B.&M.**  
**880' FNL 2381' FEL**



Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

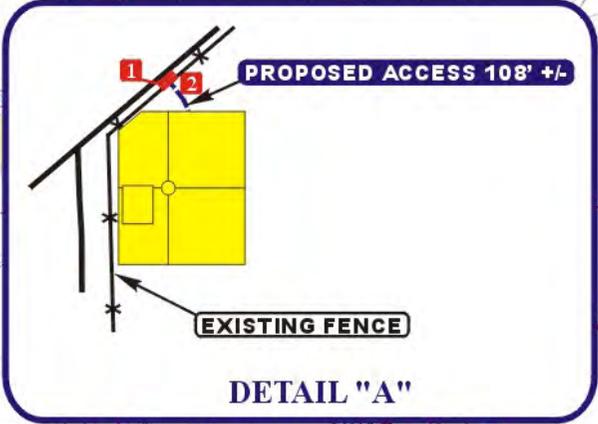


ACCESS ROAD MAP	08	30	11	A TOPO
	MONTH	DAY	YEAR	
SCALE: 1:100,000	DRAWN BY: C.A.G.		REVISED: 00-00-00	



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**PROPOSED LOCATION:  
LARSEN #2-29-3-2W(H)**



**R  
2  
W**

**LEGEND:**

- EXISTING ROAD
- - - - - PROPOSED ACCESS ROAD
- \* \* \* \* \* EXISTING FENCE
- 1** 18" CMP REQUIRED    **2** INSTALL CATTLE GUARD

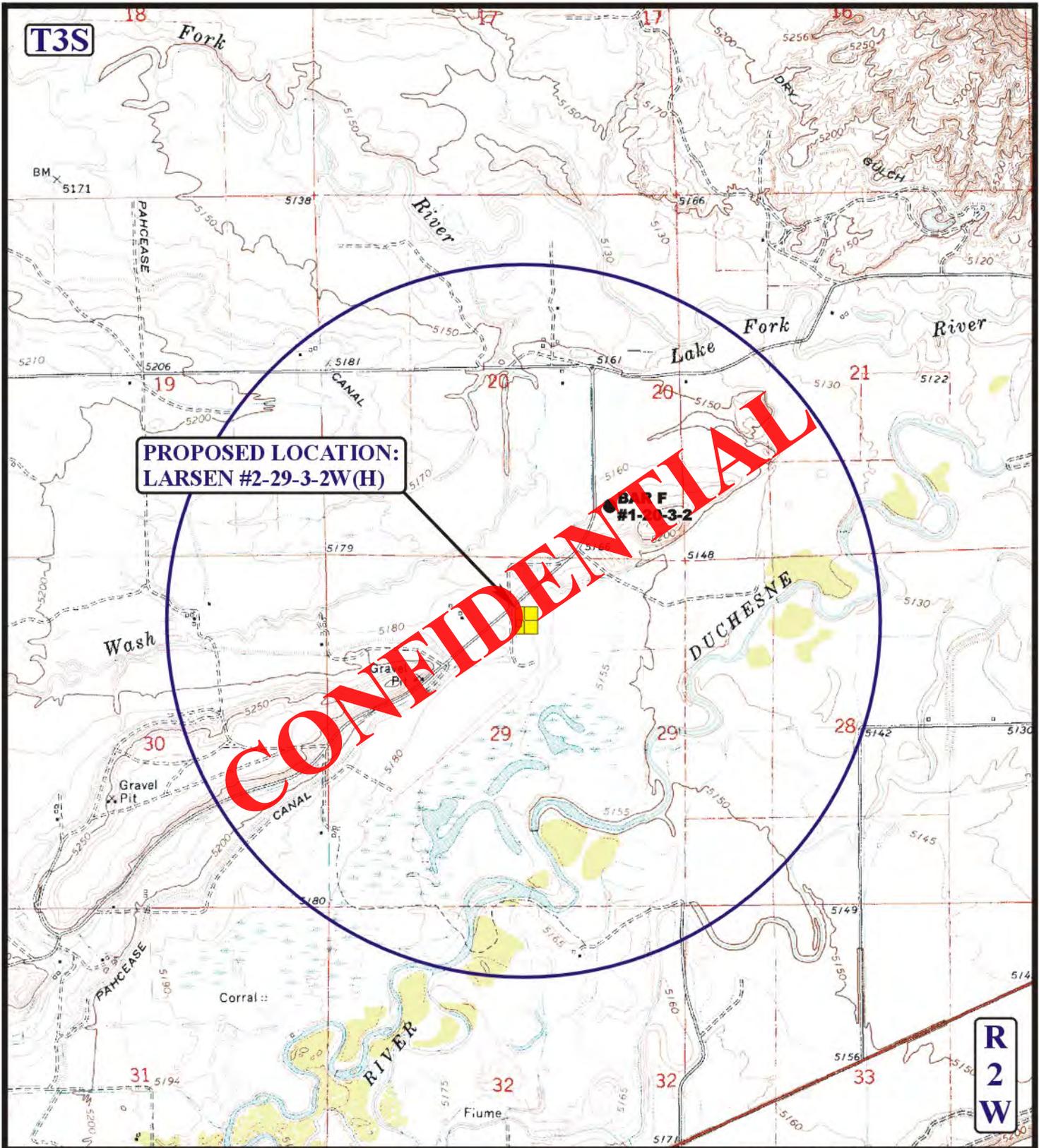
**NEWFIELD EXPLORATION COMPANY**

**LARSEN #2-29-3-2W(H)  
SECTION 29, T3S, R2W, U.S.B.&M.  
880' FNL 2381' FEL**

**UES** Utah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



<b>ACCESS ROAD MAP</b>	<b>08 30 11</b> MONTH DAY YEAR	<b>B</b> TOPO
SCALE: 1" = 2000'	DRAWN BY: C.A.G.	REVISED: 10-27-11



**PROPOSED LOCATION:  
LARSEN #2-29-3-2W(H)**

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**LEGEND:**

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

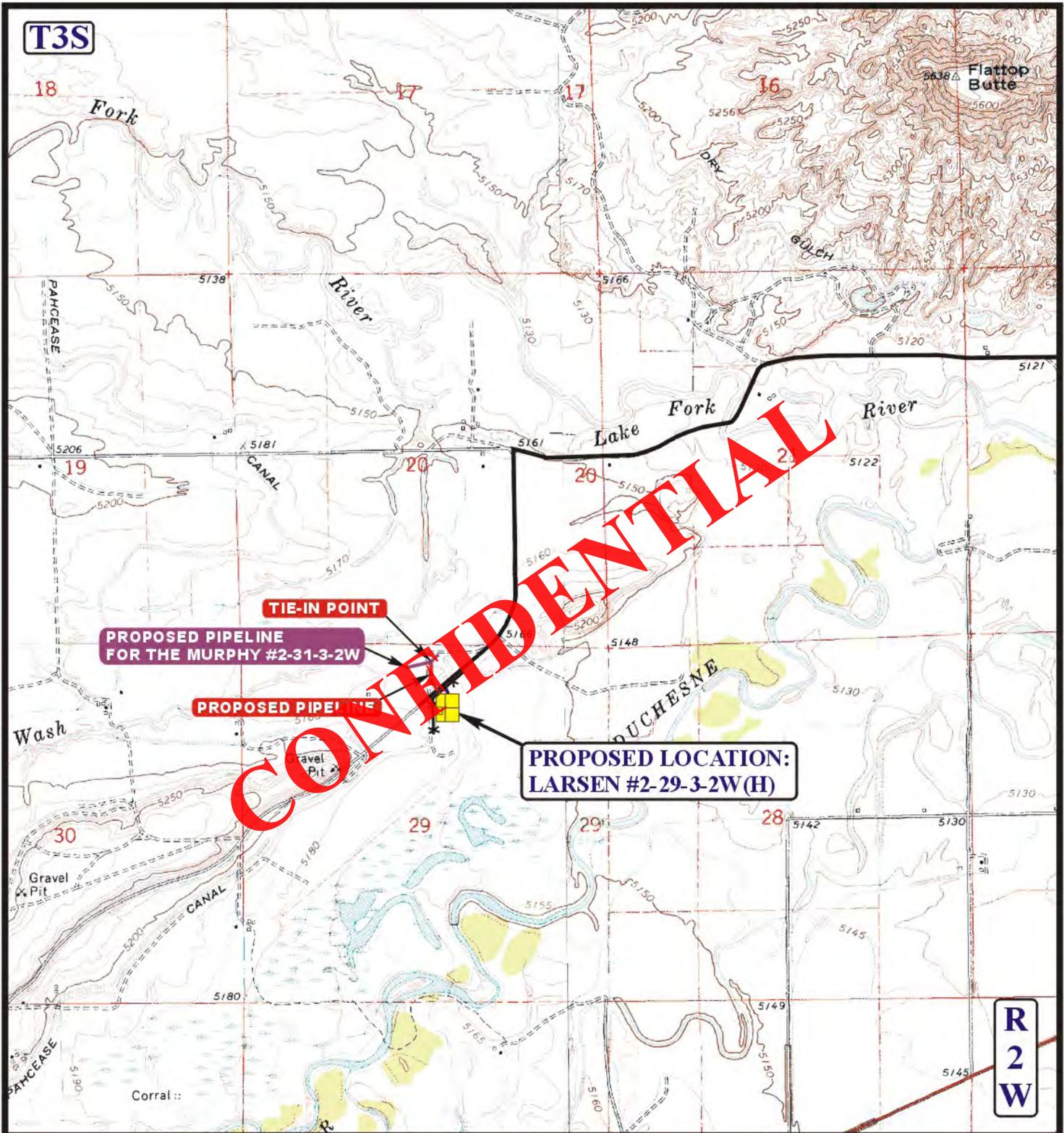
**NEWFIELD EXPLORATION COMPANY**

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**TOPOGRAPHIC MAP** 08 30 11  
MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: C.A.G. REVISED: 10-27-11 **C TOPO**



**APPROXIMATE TOTAL PIPELINE DISTANCE = 505' +/-**

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE

**NEWFIELD EXPLORATION COMPANY**

**LARSEN #2-29-3-2W(H)**  
**SECTION 29, T3S, R2W, U.S.B.&M.**  
**880' FNL 2381' FEL**



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**85 South 200 East Vernal, Utah 84078**  
**(435) 789-1017 \* FAX (435) 789-1813**



**TOPOGRAPHIC**  
**MAP**

**10 27 11**  
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: C.A.G. REVISED: 00-00-00

**D**  
**TOPO**

**NEWFIELD**



**NEWFIELD EXPLORATION CO.**  
**DUCHESNE COUNTY, UT**

**LARSEN 2-29-3-2WH**

**Plan: Design #1**

**Standard Survey Report**

**8 FEBRUARY, 2012**

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# NEWFIELD



Project: DUCHESNE COUNTY, UT  
 Site: LARSEN 2-29-3-2WH  
 Well: LARSEN 2-29-3-2WH  
 Wellbore: LARSEN 2-29-3-2WH  
 Design: Design #1  
 Latitude: 40° 11' 51.428 N  
 Longitude: 110° 7' 55.229 W  
 GL: 5172.00  
 KB: WELL @ 190.00ft (PIONEER 68)



### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape Point
PBHL LARSEN 2-29-3-2WH	8090.00	-3660.90	332.17	40° 11' 15.248 N	110° 7' 50.948 W	

### WELL DETAILS: LARSEN 2-29-3-2WH

+N/-S	+E/-W	Northing	Ground Level: Easting	5172.00 Latitude	Longitude	Slot
0.00	0.00	7243630.38	2022524.37	40° 11' 51.428 N	110° 7' 55.229 W	

### SECTION DETAILS

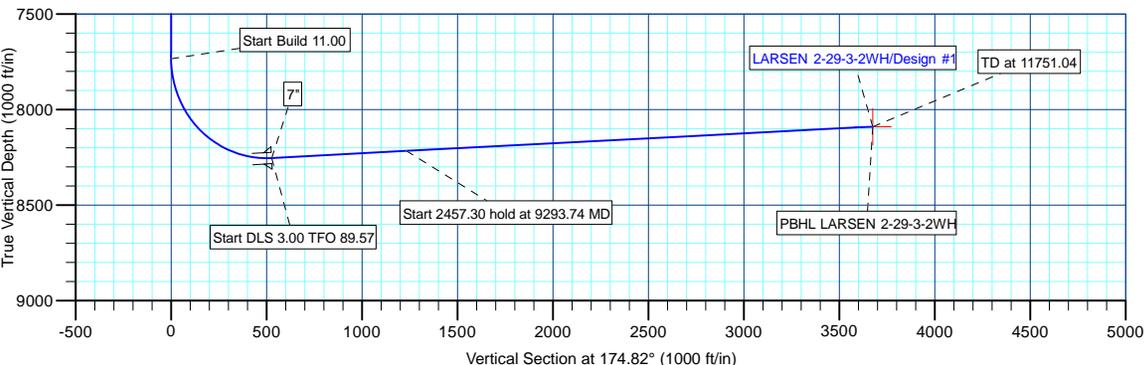
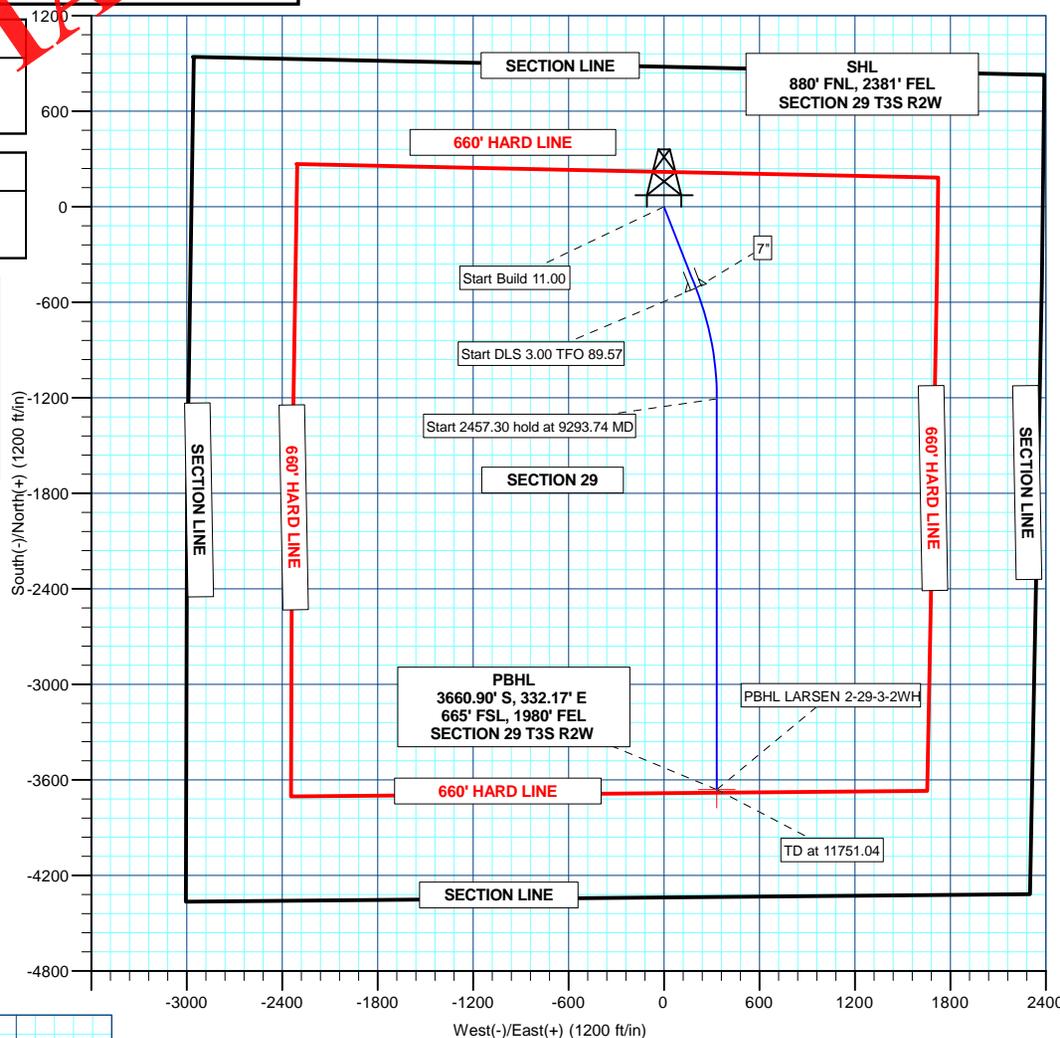
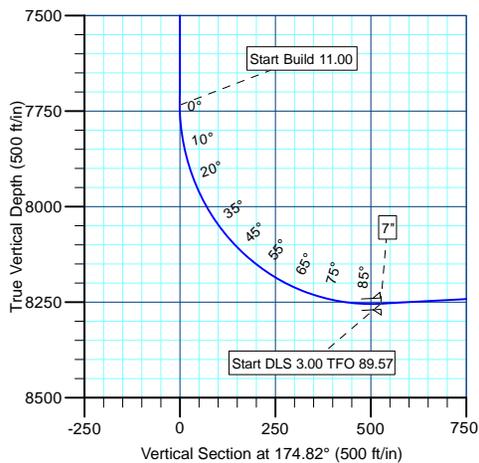
MD	Inc	Azi	TVD	+N/-S	+E/-W	Depth	Face	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7734.05	0.00	0.00	7734.05	0.00	0.00	0.00	0.00	0.00	Start Build 11.00
8579.56	93.01	158.55	8254.21	-510.21	200.46	11.00	158.55	526.24	Start DLS 3.00 TFO 89.57
9293.74	92.95	180.00	8216.64	1206.87	332.38	3.00	89.57	1231.97	Start 2457.30 hold at 9293.74 MD
11751.04	92.95	180.00	8090.00	-3660.90	332.17	0.00	0.00	3675.94	TD at 11751.04

Azimuths to True North  
Magnetic North: 11.32°

Magnetic Field  
Strength: 52232.3snT  
Dip Angle: 65.88°  
Date: 2/8/2012  
Model: BGGM2011

### CASING DETAILS

TVD	MD	Name	Size
8254.21	8579.56		7" 7



**NEWFIELD**



**NEWFIELD EXPLORATION CO.**

**DUCHESNE COUNTY, UT**

**LARSEN 2-29-3-2WH**

**LARSEN 2-29-3-2WH**

**LARSEN 2-29-3-2WH**

**Plan: Design #1**

**Standard Planning Report**

**08 February, 2012**

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<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Site LARSEN 2-29-3-2WH
<b>Company:</b>	NEWFIELD EXPLORATION CO.	<b>TVD Reference:</b>	WELL @ 5190.00ft (PIONEER 68)
<b>Project:</b>	DUCHESNE COUNTY, UT	<b>MD Reference:</b>	WELL @ 5190.00ft (PIONEER 68)
<b>Site:</b>	LARSEN 2-29-3-2WH	<b>North Reference:</b>	True
<b>Well:</b>	LARSEN 2-29-3-2WH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	LARSEN 2-29-3-2WH		
<b>Design:</b>	Design #1		

<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>	LARSEN 2-29-3-2WH				
<b>Site Position:</b>		<b>Northing:</b>	7,243,630.38 ft	<b>Latitude:</b>	40° 11' 51.428 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,022,524.37 ft	<b>Longitude:</b>	110° 7' 55.229 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.88 °

<b>Well</b>	LARSEN 2-29-3-2WH					
<b>Well Position</b>	<b>+N-S</b>	0.00 ft	<b>Northing:</b>	7,243,630.38 ft	<b>Latitude:</b>	40° 11' 51.428 N
	<b>+E-W</b>	0.00 ft	<b>Easting:</b>	2,022,524.37 ft	<b>Longitude:</b>	110° 7' 55.229 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,172.00 ft

<b>Wellbore</b>	LARSEN 2-29-3-2WH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	BGGM2011	2/8/2012	11.32	65.88	52,232

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<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	174.82

<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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,734.05	0.00	0.00	7,734.05	0.00	0.00	0.00	0.00	0.00	0.00	
8,579.56	93.01	158.55	8,254.21	-510.21	200.46	11.00	11.00	0.00	158.55	
9,293.74	92.95	180.00	8,216.64	-1,206.87	332.38	3.00	-0.01	3.00	89.57	
11,751.04	92.95	180.00	8,090.00	-3,660.90	332.17	0.00	0.00	0.00	0.00	PBHL LARSEN 2-2



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Site LARSEN 2-29-3-2WH
<b>Company:</b>	NEWFIELD EXPLORATION CO.	<b>TVD Reference:</b>	WELL @ 5190.00ft (PIONEER 68)
<b>Project:</b>	DUCHESNE COUNTY, UT	<b>MD Reference:</b>	WELL @ 5190.00ft (PIONEER 68)
<b>Site:</b>	LARSEN 2-29-3-2WH	<b>North Reference:</b>	True
<b>Well:</b>	LARSEN 2-29-3-2WH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	LARSEN 2-29-3-2WH		
<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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

CONFIDENTIAL



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Site LARSEN 2-29-3-2WH
<b>Company:</b>	NEWFIELD EXPLORATION CO.	<b>TVD Reference:</b>	WELL @ 5190.00ft (PIONEER 68)
<b>Project:</b>	DUCHESNE COUNTY, UT	<b>MD Reference:</b>	WELL @ 5190.00ft (PIONEER 68)
<b>Site:</b>	LARSEN 2-29-3-2WH	<b>North Reference:</b>	True
<b>Well:</b>	LARSEN 2-29-3-2WH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	LARSEN 2-29-3-2WH		
<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)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 11.00</b>									
7,734.05	0.00	0.00	7,734.05	0.00	0.00	0.00	0.00	0.00	0.00
7,750.00	1.75	158.55	7,750.00	-0.23	0.09	0.23	11.00	11.00	0.00
7,800.00	7.25	158.55	7,799.82	-3.88	1.52	4.00	11.00	11.00	0.00
7,850.00	12.75	158.55	7,849.04	-11.96	4.70	12.34	11.00	11.00	0.00
7,900.00	18.25	158.55	7,897.21	-24.40	9.59	25.16	11.00	11.00	0.00
7,950.00	23.75	158.55	7,943.87	-41.07	16.14	42.36	11.00	11.00	0.00
8,000.00	29.25	158.55	7,988.59	-61.83	24.29	63.77	11.00	11.00	0.00
8,050.00	34.75	158.55	8,030.98	-86.48	33.98	89.20	11.00	11.00	0.00
8,100.00	40.25	158.55	8,070.63	-114.81	45.11	118.41	11.00	11.00	0.00
8,150.00	45.75	158.55	8,107.18	-146.53	57.57	151.14	11.00	11.00	0.00
8,200.00	51.25	158.55	8,140.30	-181.38	71.26	187.07	11.00	11.00	0.00
8,250.00	56.75	158.55	8,169.67	-219.01	86.05	225.89	11.00	11.00	0.00
8,300.00	62.25	158.55	8,195.04	-259.10	101.80	267.24	11.00	11.00	0.00
8,350.00	67.75	158.55	8,216.16	-301.26	118.37	310.72	11.00	11.00	0.00
8,400.00	73.25	158.55	8,232.84	-345.11	135.59	355.95	11.00	11.00	0.00
8,450.00	78.75	158.55	8,244.92	-390.25	153.33	402.51	11.00	11.00	0.00
8,500.00	84.25	158.55	8,252.31	-436.26	171.41	449.96	11.00	11.00	0.00
8,550.00	89.75	158.55	8,254.92	-482.71	189.66	497.88	11.00	11.00	0.00
<b>Start DLS 3.00 TFO 89.57 - 7"</b>									
8,579.56	93.01	158.55	8,254.21	-510.21	200.46	526.24	11.00	11.00	0.00
8,600.00	93.01	159.16	8,253.14	-529.25	207.83	545.87	3.00	0.02	3.00
8,700.00	93.03	162.17	8,247.87	-623.47	240.88	642.69	3.00	0.02	3.00
8,800.00	93.03	165.17	8,242.58	-719.29	268.96	740.65	3.00	0.01	3.00
8,900.00	93.03	168.18	8,237.29	-816.45	291.97	839.49	3.00	0.00	3.00
9,000.00	93.03	171.18	8,232.00	-914.68	309.86	938.94	3.00	-0.01	3.00
9,100.00	93.01	174.18	8,226.73	-1,013.72	322.58	1,038.72	3.00	-0.02	3.00
9,200.00	92.98	177.19	8,221.50	-1,113.29	330.09	1,138.56	3.00	-0.02	3.00
<b>Start 2457.30 hold at 9293.74 MD</b>									



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Site LARSEN 2-29-3-2WH
<b>Company:</b>	NEWFIELD EXPLORATION CO.	<b>TVD Reference:</b>	WELL @ 5190.00ft (PIONEER 68)
<b>Project:</b>	DUCHESNE COUNTY, UT	<b>MD Reference:</b>	WELL @ 5190.00ft (PIONEER 68)
<b>Site:</b>	LARSEN 2-29-3-2WH	<b>North Reference:</b>	True
<b>Well:</b>	LARSEN 2-29-3-2WH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	LARSEN 2-29-3-2WH		
<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)
9,293.74	92.95	180.00	8,216.64	-1,206.87	332.38	1,231.97	3.00	-0.03	3.00
9,300.00	92.95	180.00	8,216.32	-1,213.12	332.38	1,238.19	0.00	0.00	0.00
9,400.00	92.95	180.00	8,211.17	-1,312.98	332.37	1,337.65	0.00	0.00	0.00
9,500.00	92.95	180.00	8,206.01	-1,412.85	332.36	1,437.10	0.00	0.00	0.00
9,600.00	92.95	180.00	8,200.86	-1,512.72	332.35	1,536.56	0.00	0.00	0.00
9,700.00	92.95	180.00	8,195.71	-1,612.59	332.35	1,636.02	0.00	0.00	0.00
9,800.00	92.95	180.00	8,190.55	-1,712.45	332.34	1,735.48	0.00	0.00	0.00
9,900.00	92.95	180.00	8,185.40	-1,812.32	332.33	1,834.94	0.00	0.00	0.00
10,000.00	92.95	180.00	8,180.25	-1,912.19	332.32	1,934.39	0.00	0.00	0.00
10,100.00	92.95	180.00	8,175.09	-2,012.05	332.31	2,033.85	0.00	0.00	0.00
10,200.00	92.95	180.00	8,169.94	-2,111.92	332.30	2,133.31	0.00	0.00	0.00
10,300.00	92.95	180.00	8,164.78	-2,211.79	332.30	2,232.77	0.00	0.00	0.00
10,400.00	92.95	180.00	8,159.63	-2,311.66	332.29	2,332.22	0.00	0.00	0.00
10,500.00	92.95	180.00	8,154.48	-2,411.52	332.28	2,431.68	0.00	0.00	0.00
10,600.00	92.95	180.00	8,149.32	-2,511.39	332.27	2,531.14	0.00	0.00	0.00
10,700.00	92.95	180.00	8,144.17	-2,611.26	332.26	2,630.60	0.00	0.00	0.00
10,800.00	92.95	180.00	8,139.02	-2,711.12	332.25	2,730.06	0.00	0.00	0.00
10,900.00	92.95	180.00	8,133.86	-2,810.99	332.25	2,829.51	0.00	0.00	0.00
11,000.00	92.95	180.00	8,128.71	-2,910.86	332.24	2,928.97	0.00	0.00	0.00
11,100.00	92.95	180.00	8,123.55	-3,010.73	332.23	3,028.43	0.00	0.00	0.00
11,200.00	92.95	180.00	8,118.40	-3,110.59	332.22	3,127.89	0.00	0.00	0.00
11,300.00	92.95	180.00	8,113.25	-3,210.46	332.21	3,227.34	0.00	0.00	0.00
11,400.00	92.95	180.00	8,108.09	-3,310.33	332.20	3,326.80	0.00	0.00	0.00
11,500.00	92.95	180.00	8,102.94	-3,410.19	332.19	3,426.26	0.00	0.00	0.00
11,600.00	92.95	180.00	8,097.78	-3,510.06	332.19	3,525.72	0.00	0.00	0.00
11,700.00	92.95	180.00	8,092.63	-3,609.93	332.18	3,625.18	0.00	0.00	0.00
<b>TD at 11751.04 - PBHL LARSEN 2-29-3-2WH</b>									
11,751.04	92.95	180.00	8,090.00	-3,660.90	332.17	3,675.94	0.00	0.00	0.00

**Design Targets**

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL LARSEN 2-29-3-2WH - hit/miss target - Shape - Point	0.00	0.00	8,090.00	-3,660.90	332.17	7,239,975.00	2,022,912.50	40° 11' 15.248 N	110° 7' 50.948 W

**Casing Points**

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
8,579.56	8,254.21	7"	7	8-3/4



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Site LARSEN 2-29-3-2WH
<b>Company:</b>	NEWFIELD EXPLORATION CO.	<b>TVD Reference:</b>	WELL @ 5190.00ft (PIONEER 68)
<b>Project:</b>	DUCHESNE COUNTY, UT	<b>MD Reference:</b>	WELL @ 5190.00ft (PIONEER 68)
<b>Site:</b>	LARSEN 2-29-3-2WH	<b>North Reference:</b>	True
<b>Well:</b>	LARSEN 2-29-3-2WH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	LARSEN 2-29-3-2WH		
<b>Design:</b>	Design #1		

## Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
7,734.05	7,734.05	0.00	0.00	Start Build 11.00
8,579.56	8,254.21	-510.21	200.46	Start DLS 3.00 TFO 89.57
9,293.74	8,216.64	-1,206.87	332.38	Start 2457.30 hold at 9293.74 MD
11,751.04	8,090.00	-3,660.90	332.17	TD at 11751.04

**CONFIDENTIAL**

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

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

1. My name is Shane Gillespie. 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 Larsen 2-29-3-2WH well to be located in the NWNE of Section 29, Township 3 South, Range 2 West Duchesne County, Utah (the “Drillsite Location”). The surface owners of the Drillsite Location are Aaron B. Abbott & Danyel Abbott, whose joint address is HC 64 Box 146, Duchesne, UT 84021 (“Surface Owner”).
3. Newfield and the Surface Owner have agreed upon an Easement, Right-of-Way and Surface Use Agreement dated August 18, 2011 covering the Drillsite Location and access to the Drillsite Location.

FURTHER AFFIANT SAYETH NOT.

**CONFIDENTIAL**

Shane Gillespie

ACKNOWLEDGEMENT

STATE OF COLORADO           §  
  §  
COUNTY OF DENVER           §

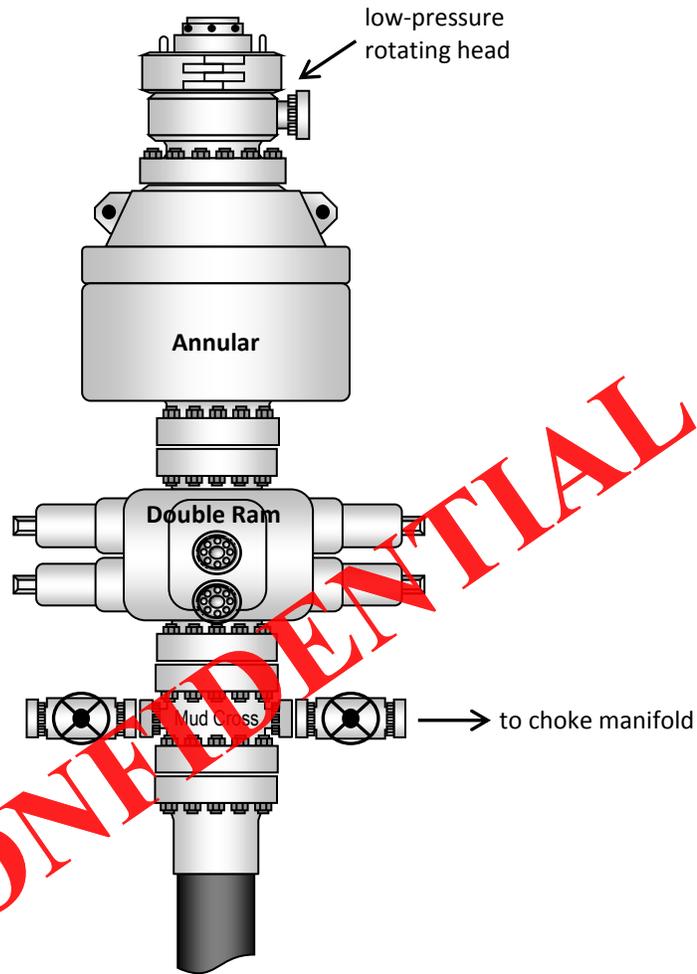
Before me, a Notary Public, in and for the State, on this 17<sup>th</sup> day of October, 2011, personally appeared Shane Gillespie, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

Peter Burns  
NOTARY PUBLIC

My Commission Expires

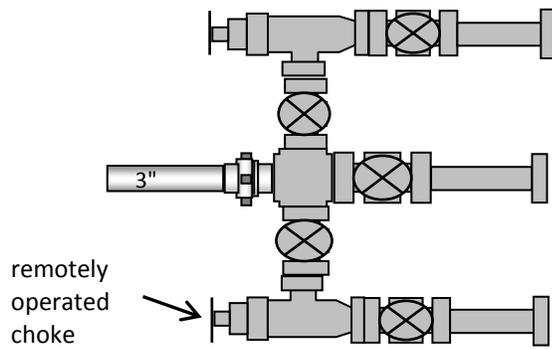
**PETER BURNS**  
NOTARY PUBLIC  
STATE OF COLORADO  
My Commission Expires 8/09/2015

Typical 5M BOP stack configuration



**CONFIDENTIAL**

Typical 5M choke manifold configuration



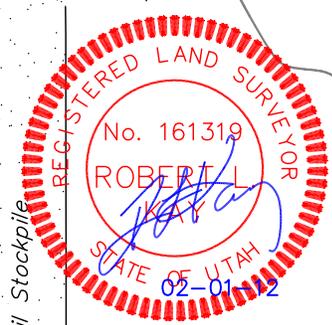
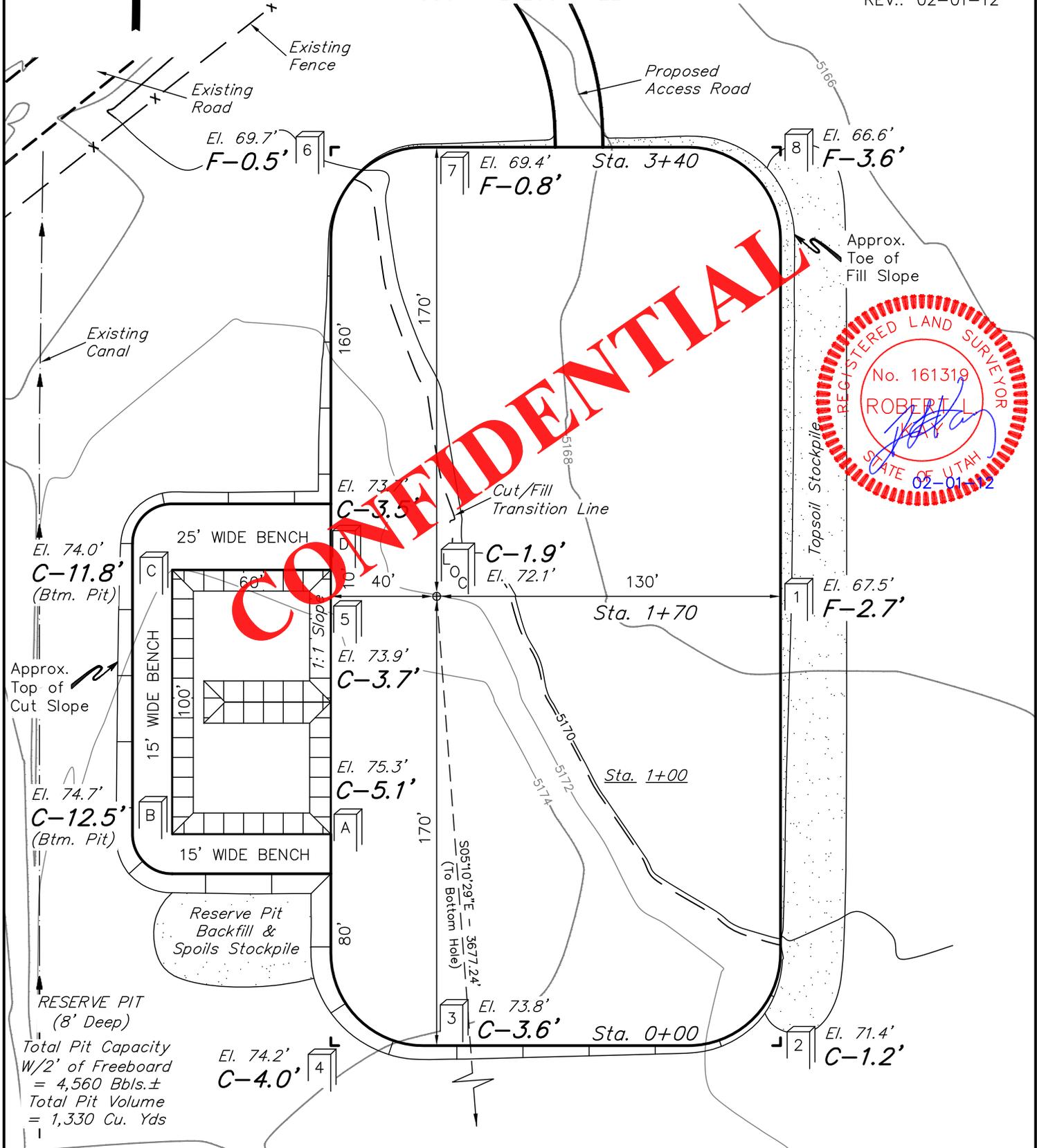
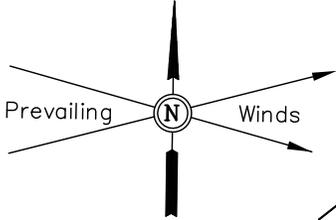
NEWFIELD EXPLORATION COMPANY

LOCATION LAYOUT FOR

LARSEN #2-29-3-2W(H)  
SECTION 29, T3S, R2W, U.S.B.&M.  
880' FNL 2381' FEL

FIGURE #1

SCALE: 1" = 50'  
DATE: 08-31-11  
DRAWN BY: J.I.  
REV.: 09-07-11  
REV.: 02-01-12



RESERVE PIT  
(8' Deep)  
Total Pit Capacity  
W/2' of Freeboard  
= 4,560 Bbls.±  
Total Pit Volume  
= 1,330 Cu. Yds

Elev. Ungraded Ground At Loc. Stake = 5172.1'  
FINISHED GRADE ELEV. AT LOC. STAKE = 5170.2'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

RECEIVED: February 13, 2012

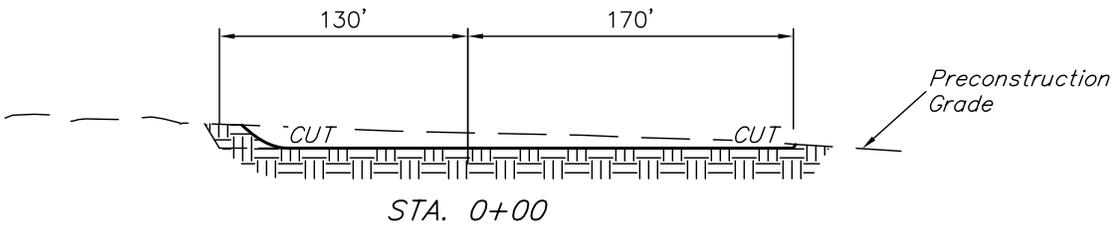
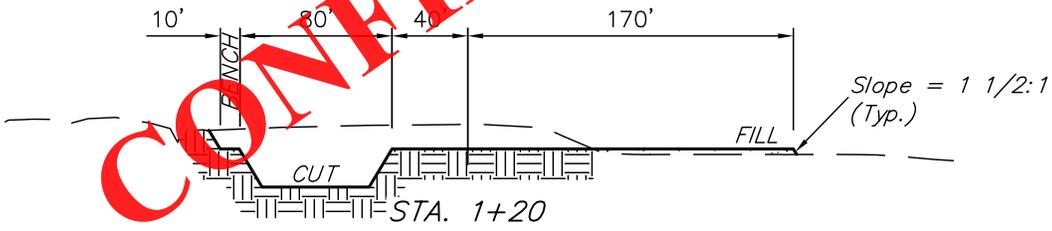
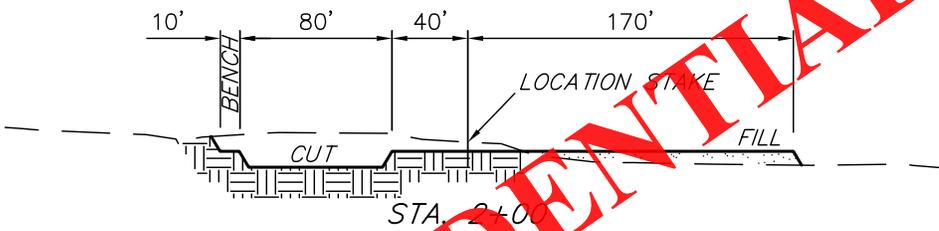
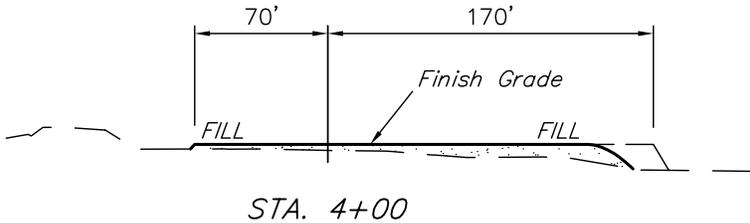
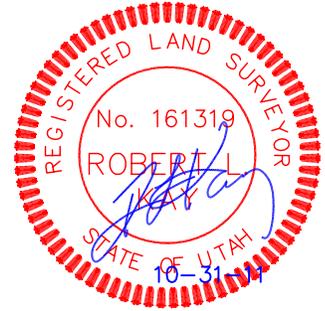
**NEWFIELD EXPLORATION COMPANY**

**FIGURE #2**

X-Section Scale  
1" = 40'  
1" = 100'

TYPICAL CROSS SECTIONS FOR  
LARSEN #2-29-3-2W(H)  
SECTION 29, T3S, R2W, U.S.B.&M.  
880' FNL 2381' FEL

DATE: 08-31-11  
DRAWN BY: J.I.  
REV.: 10-25-11



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**NOTE:**

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE	= ± 3.560 ACRES
ACCESS ROAD DISTURBANCE	= ± 0.119 ACRES
PIPELINE DISTURBANCE	= ± 0.328 ACRES
<b>TOTAL</b>	<b>= ± 4.007 ACRES</b>

\* NOTE:  
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(12") Topsoil Stripping	= 4,630 Cu. Yds.
Remaining Location	= 7,370 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 12,000 CU.YDS.</b>
<b>FILL</b>	<b>= 6,470 CU.YDS.</b>

EXCESS MATERIAL	= 5,530 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 5,530 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

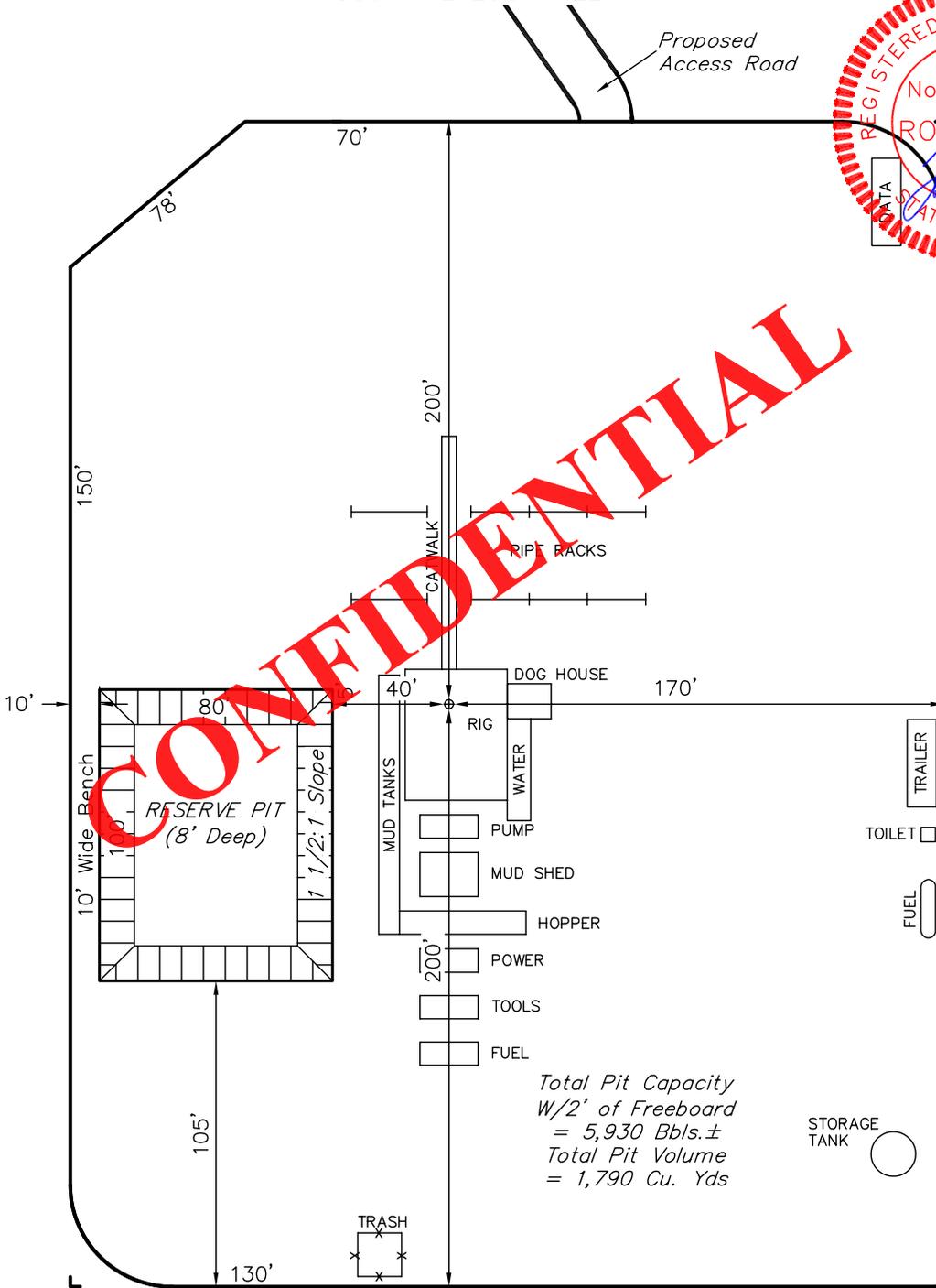
# NEWFIELD EXPLORATION COMPANY

## TYPICAL RIG LAYOUT FOR

LARSEN #2-29-3-2W(H)  
SECTION 29, T3S, R2W, U.S.B.&M.  
880' FNL 2381' FEL

FIGURE #3

SCALE: 1" = 50'  
DATE: 08-31-11  
DRAWN BY: J.I.  
REV.: 10-25-11



**CONFIDENTIAL**

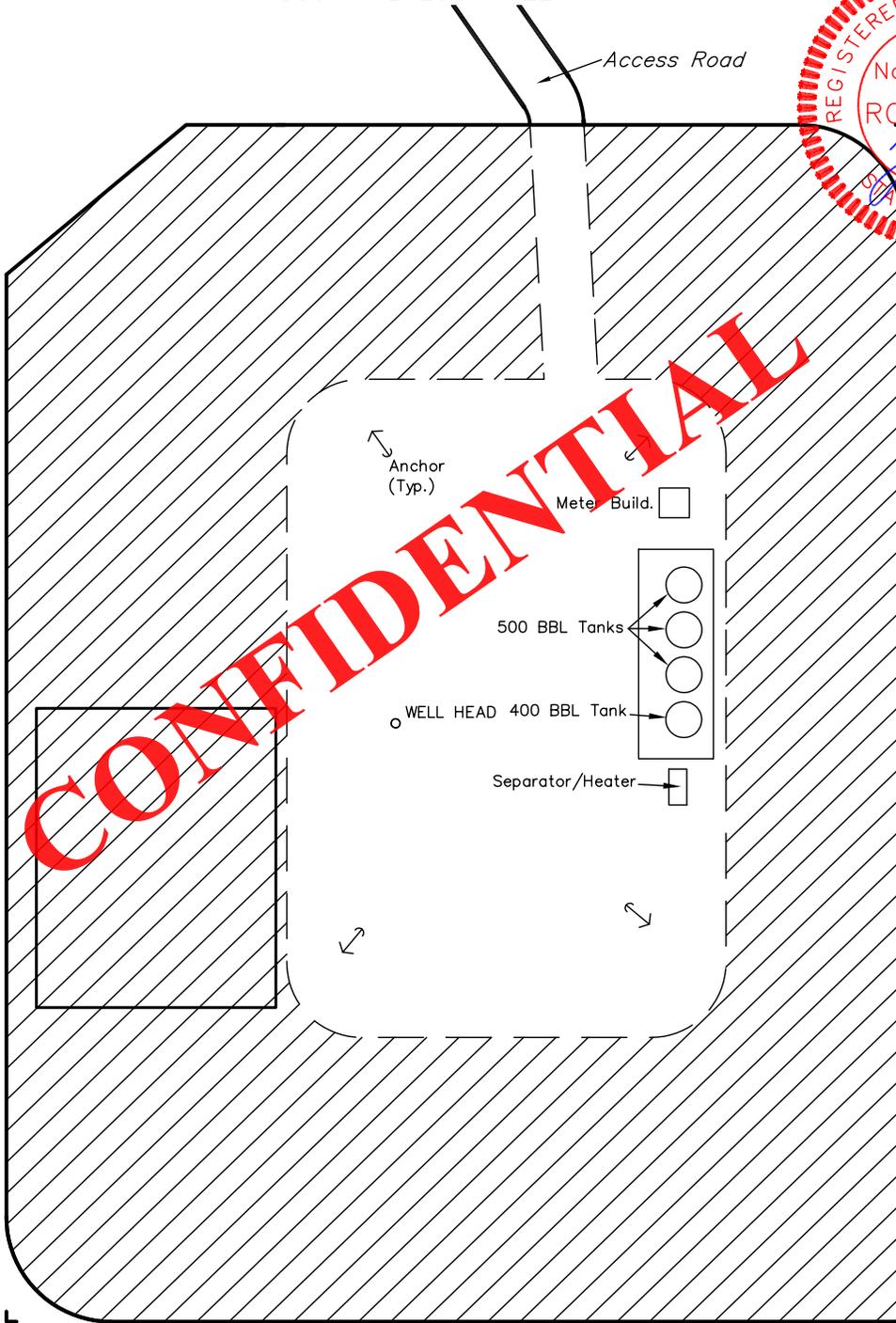
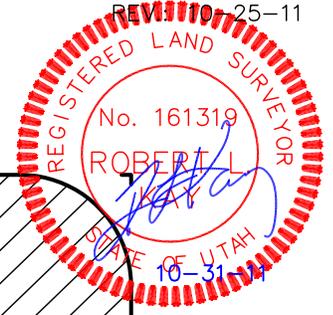
NEWFIELD EXPLORATION COMPANY

PRODUCTION FACILITY LAYOUT FOR

LARSEN #2-29-3-2W(H)  
SECTION 29, T3S, R2W, U.S.B.&M.  
880' FNL 2381' FEL

FIGURE #4

SCALE: 1" = 50'  
DATE: 08-31-11  
DRAWN BY: J.I.  
REVISED: 10-25-11



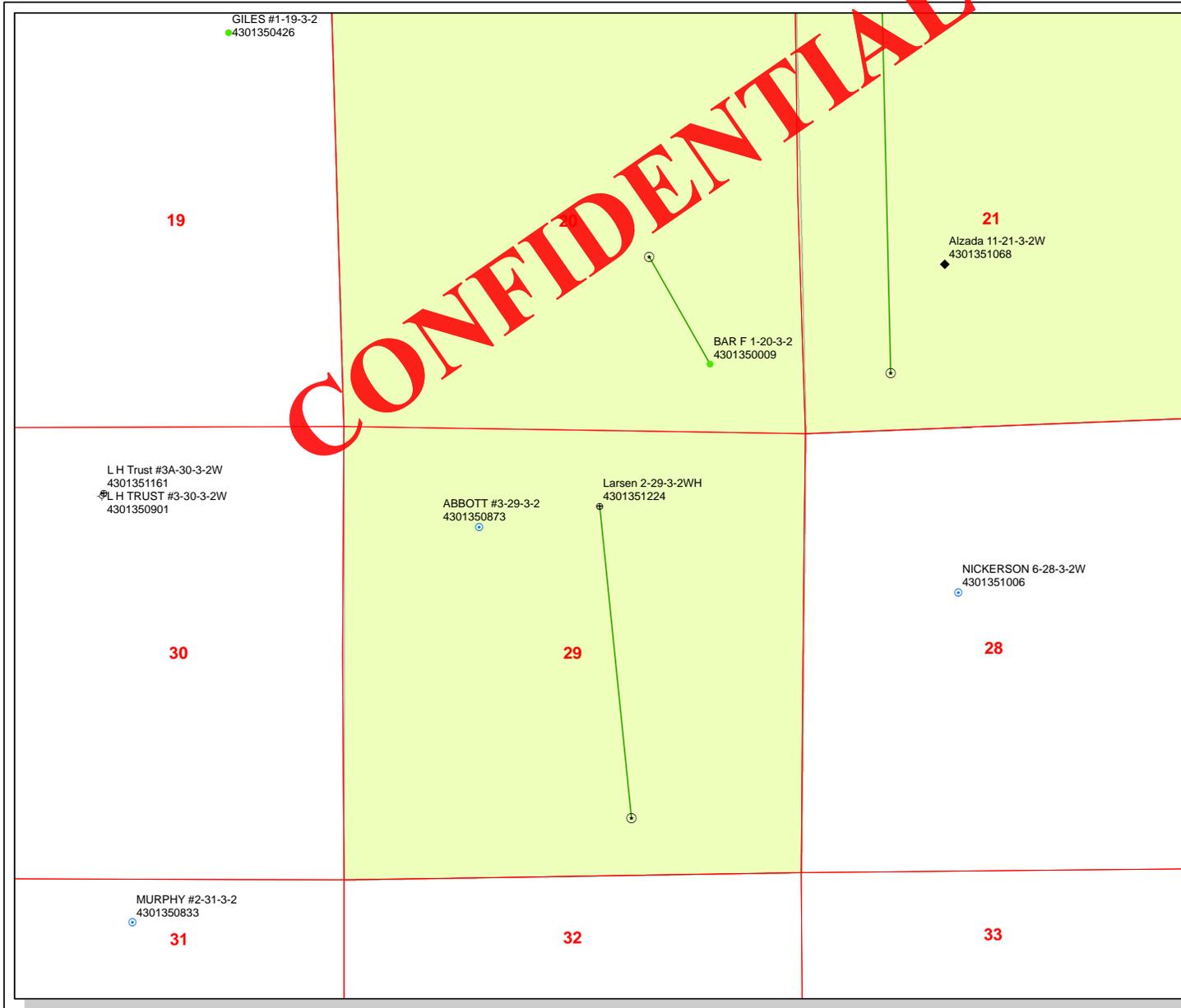
APPROXIMATE ACREAGES  
UN-RECLAIMED = ± 0.764 ACRES

 RECLAIMED AREA

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

RECEIVED: February 13, 2012

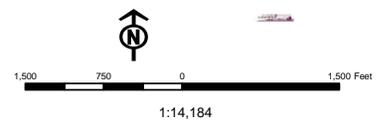
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**API Number: 4301351224**  
**Well Name: Larsen 2-29-3-2WH**  
 Township T0.3 . Range R0.2 . Section 29  
 Meridian: UBM  
 Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:  
 Map Produced by Diana Mason

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



Well Name	NEWFIELD PRODUCTION COMPANY Larsen 2-29-3-2WH 430135122			
String	COND	SURF	I1	PROD
Casing Size(")	14.000	9.625	7.000	4.500
Setting Depth (TVD)	60	2500	8254	8090
Previous Shoe Setting Depth (TVD)	0	60	2500	8254
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)	4207			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

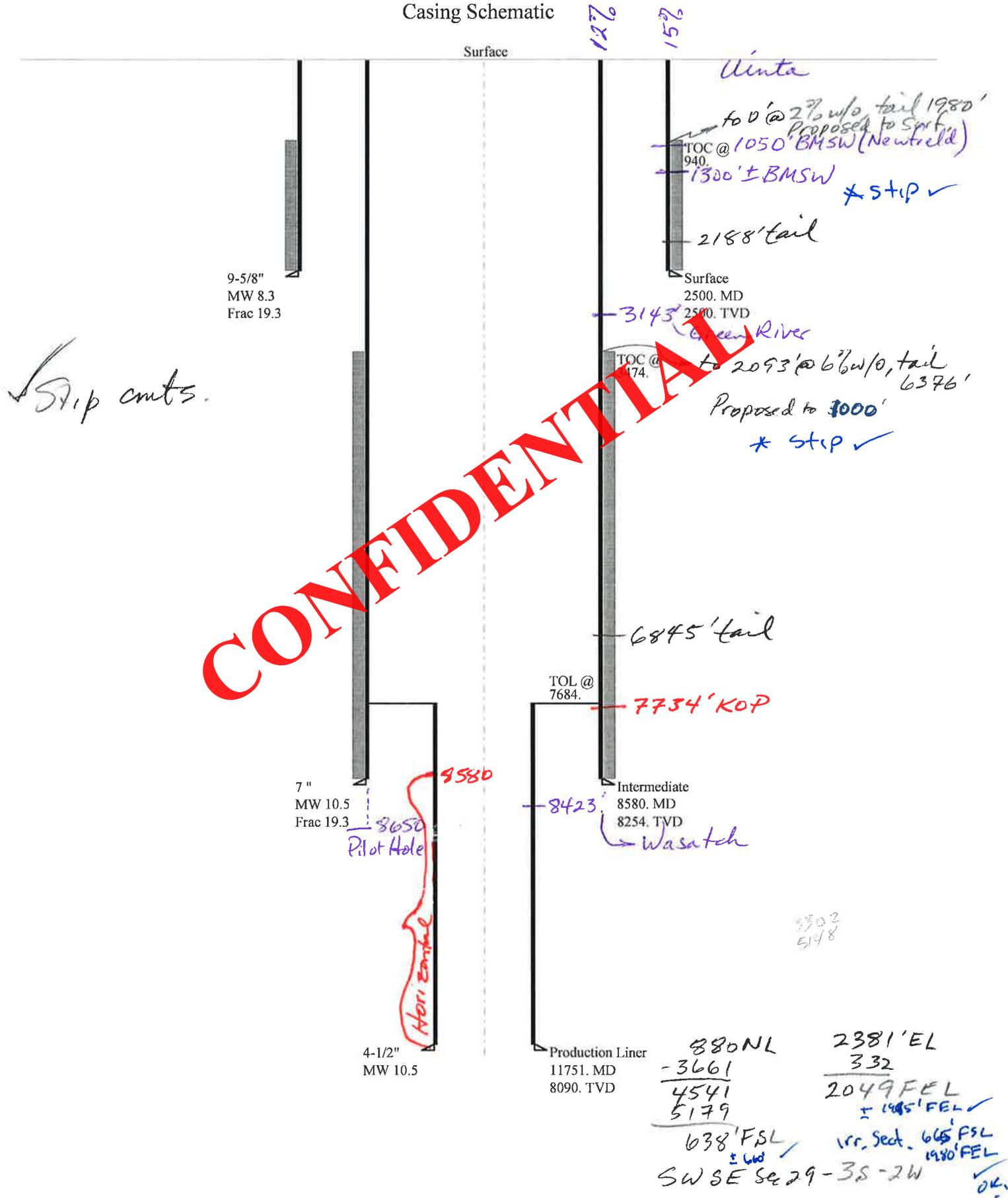
Calculations	SURF String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	109	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	779	NO diverter
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	529	NO No expected pressure
			*Can Full Expected Pressure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

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4507	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3517	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2691	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3241	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=	4417	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3446	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2637	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4453	YES
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		8254	psi *Assumes 1psi/ft frac gradient

# 43013512240000 Larsen 2-29-3-2WH

## Casing Schematic



**CONFIDENTIAL**

✓ Stop cmts.

Well name:	<b>43013512240000 Larsen 2-29-3-2WH</b>	
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>	
String type:	Surface	Project ID: 43-013-51224
Location:	DUCHESNE COUNTY	

**Design parameters:**

**Collapse**

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

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

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

**Burst**

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

No backup mud specified.

**Tension:**

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

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

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 8,254 ft  
Next mud weight: 10.500 ppg  
Next setting BHP: 4,502 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	LT&C	2500	2500	8.796	20443
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	453	5.03 J

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

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

Date: April 5, 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>43013512240000 Larsen 2-29-3-2WH</b>		
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>		
String type:	Intermediate	Project ID:	43-013-51224
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

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

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 190 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,000 ft

Cement top: 3,474 ft

**Burst**

Max anticipated surface pressure: 2,686 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 4,502 psi

No backup mud specified.

**Tension:**

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

Tension is based on air weight.  
 Neutral point: 6,947 ft

**Directional Info - Build & Hold**

Kick-off point: 7734 ft  
 Departure at shoe: 549 ft  
 Maximum dogleg: 11 °/100ft  
 Inclination at shoe: 93.01 °

**Re subsequent strings:**

Next setting depth: 8,090 ft  
 Next mud weight: 10.500 ppg  
 Next setting BHP: 4,413 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 8,254 ft  
 Injection pressure: 8,254 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	8580	7	26.00	P-110	Buttress	8254	8580	6.151	95418
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	4502	6158	1.368	4502	9950	2.21	214.6	830.4	3.87 B

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

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

Date: April 5, 2012  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 8254 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>43013512240000 Larsen 2-29-3-2WH</b>	
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>	
String type:	Production Liner	Project ID: 43-013-51224
Location:	DUCHESNE COUNTY	

**Design parameters:**

**Collapse**

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

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 187 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

**Burst**

Max anticipated surface pressure: 2,633 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 4,413 psi

No backup mud specified.

**Tension:**

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

Tension is based on air weight.  
Neutral point: 8,050 ft

Liner top: 7,684 ft  
**Directional Info - Build & Hold**  
Kick-off point: 7734 ft  
Departure at shoe: 3676 ft  
Maximum dogleg: 11 °/100ft  
Inclination at shoe: 92.95 °

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	4051	4.5	13.50	P-110	Buttress	8090	11751	3.795	24304
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	4413	10680	2.420	4449	12410	2.79	5.3	421.9	80.10 B

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

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

Date: April 5, 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 8090 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

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

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

1. My name is Greg Boggs. I am a Landman for Newfield Production Company, whose address is 1001 17<sup>th</sup> Street, Suite 2000, Denver, CO 80202 ("Newfield").
2. Newfield is the Operator of the proposed Larson 2-29-3-2WH well with a surface location to be positioned in the NWNE of Section 29, Township 3 South, Range 2 West, Duchesne County, Utah (the "Drillsite Location") with a bottom hole location in the SWSE of Section 29, Township 3 South, Range 2 West, Duchesne County, Utah. The surface owner of the Drillsite Location is Aaron B. Abbott and Danyel Abbott, whose address is HC 64 Box 378, Duchesne, Utah 84021 ("Surface Owner").
3. Newfield and the Surface Owner have agreed upon an Easement, Right-of-Way and Surface Use Agreement dated August 18, 2011 covering the Drillsite Location.
4. Newfield and Surface Owner amended the Easement, Right-of-Way and Surface Use Agreement dated August 18, 2011. The Amendment of Easement, Right-of-Way and Surface Use Agreement was executed by Surface Owner on March 19, 2012, but effective for all purposes as of August 18, 2011.

FURTHER AFFIANT SAYETH NOT.



ACKNOWLEDGEMENT

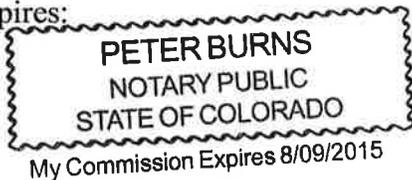
STATE OF COLORADO           §  
  §  
COUNTY OF DENVER         §

Before me, a Notary Public, in and for the State, on this 12 day of April 2012, personally appeared Greg Boggs, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.



NOTARY PUBLIC

My Commission Expires:



# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** NEWFIELD PRODUCTION COMPANY  
**Well Name** Larsen 2-29-3-2WH  
**API Number** 43013512240000      **APD No** 5321    **Field/Unit** WILDCAT  
**Location: 1/4,1/4** NWNE    **Sec** 29    **Tw** 3.0S    **Rng** 2.0W    880 FNL 2381 FEL  
**GPS Coord (UTM)** 573875 4450052      **Surface Owner** Aaron B & Danyel Abbott

### Participants

T. Eaton, F. Bird, Z. Mc Intyre– Newfield; C. Jensen,– DOGM ; Aaron Abbot- landowner

### Regional/Local Setting & Topography

This location is within the Central Basin Unit approximately 1 1/2 mile WEST of the Flattop Butte in Duchesne County and East of Lake Boreham. The city of Myton is 4 road miles East. The surrounding topography is fairly flat with slopes

### Surface Use Plan

#### **Current Surface Use**

Agricultural

#### **New Road**

**Miles**

0

#### **Well Pad**

**Width** 300    **Length** 400

#### **Src Const Material**

Onsite

#### **Surface Formation**

UNTA

**Ancillary Facilities** N

**Waste Management Plan Adequate?** Y

### Environmental Parameters

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

Dominant vegetation;

Grease wood, rabbit brush and russian thistle surround the proposed site.

Wildlife;

Habitat contains forbs that may be suitable browse for deer, antelope and rabbits, though none were observed. Disturbed soils do not support habitat for wildlife.

#### **Soil Type and Characteristics**

Silty sand. Soils have been previously disturbed but have naturally reclaimed

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required?** N

**Berm Required?** N

Erosion Sedimentation Control Required? N

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

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	25 to 75	15
Distance to Surface Water (feet)	100 to 200	15
Dist. Nearest Municipal Well (ft)	1320 to 5280	5
Distance to Other Wells (feet)	>1320	0
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	10 to 20	5
<b>Affected Populations</b>		
Presence Nearby Utility Conduits	Present	15
<b>Final Score</b>		70 1 Sensitivity Level

**Characteristics / Requirements**

Pit to be dug to a depth of 8'. Pit should be fenced to prevent entry by deer, other wildlife and domestic animals. Pit to be closed within one year after drilling activities are complete.

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

Other Observations / Comments

6" PVC pressurized irrigation pipe and 3 phase power line ran underground beneath proposed pad location. Operators representatives agreed to move these utilities and the preferred placement was pointed out by the landowner.

Surface use agreement is in place but is no longer valid. The pad size is being increased and utilities need to be moved. Landowner wants a new SU agreement before construction proceeds.

Chris Jensen  
Evaluator

3/14/2012  
Date / Time

# Application for Permit to Drill Statement of Basis

## Utah Division of Oil, Gas and Mining

4/12/2012

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
5321	43013512240000	LOCKED	OW	P	No
<b>Operator</b>	NEWFIELD PRODUCTION COMPANY		<b>Surface Owner-APD</b>	Aaron B & Danyel Abbott	
<b>Well Name</b>	Larsen 2-29-3-2WH		<b>Unit</b>		
<b>Field</b>	WILDCAT		<b>Type of Work</b>	DRILL	
<b>Location</b>	NWNE 29 3S 2W U 880 FNL 2381 FEL GPS Coord (UTM) 573878E 4450044N				

### 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 air and fresh water mud. The base of the moderately saline water at this location is estimated to be at a depth of 1,300'. A search of Division of Water Rights records shows 16 water wells within a 10,000 foot radius of the center of Section 29. Depth is listed as ranging from 23 to 400 feet. Depth is not listed for 2 wells. Average depth for wells listed is approximately 100 feet. 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 large volume source of useable ground water. The proposed surface casing should adequately protect useable ground water in this area.

Brad Hill  
APD Evaluator

4/2/2012  
Date / Time

### Surface Statement of Basis

Surface use agreement is in place but is no longer valid. The pad size is being increased and utilities need to be moved. Landowner wants a new SU agreement before construction proceeds. Location is proposed in the best possible position within the spacing window. This location has been chosen on the north side of the parcel so as to keep disturbance away from productive land and canal to the West. This location places the pad adjacent the road.

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. although the presence of 3 oxbow lakes and some wetlands exist very near to the South, 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 above. 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

3/14/2012  
Date / Time

RECEIVED: April 12, 2012

**Conditions of Approval / Application for Permit to Drill**

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

**CONFIDENTIAL**

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/13/2012

API NO. ASSIGNED: 43013512240000

WELL NAME: Larsen 2-29-3-2WH

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 719-2018

CONTACT: Don Hamilton

PROPOSED LOCATION: NWNE 29 030S 020W

Permit Tech Review: 

SURFACE: 0880 FNL 2381 FEL

Engineering Review: 

BOTTOM: 0665 FSL 1980 FEL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 40.19754

LONGITUDE: -110.13200

UTM SURF EASTINGS: 573878.00

NORTHINGS: 4450044.00

FIELD NAME: WILDCAT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Patented

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

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

Commingling Approved

## LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: R649-3-2.6
- Effective Date:
- Siting:
- R649-3-11. Directional Drill

Comments: Presite Completed  
TEMP 640 ACRE SPACING:

Stipulations: 5 - Statement of Basis - bhill  
12 - Cement Volume (3) - ddoucet  
23 - Spacing - dmason  
25 - Surface Casing - hmacdonald  
26 - Temporary Spacing - dmason



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:** Larsen 2-29-3-2WH  
**API Well Number:** 43013512240000  
**Lease Number:** Patented  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 4/12/2012

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

### Duration:

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

### General:

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

### Conditions of Approval:

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 29, Township 3 S, Range 2W, 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).

Surface casing shall be cemented to the surface.

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 1000' MD as indicated in the submitted drilling plan.

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 in a cursive style.

For John Rogers  
Associate Director, Oil & Gas

## BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 26 Submitted By  
Branden Arnold Phone Number 435-401-0223  
Well Name/Number Larsen 2-29-3-2WH  
Qtr/Qtr NW/NE Section 29 Township 3S Range 2W  
Lease Serial Number Patented  
API Number 43-013-51224

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

Date/Time 5/1/12      9:00 AM  PM

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

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

Date/Time 5/1/12      3:00 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 \_\_\_\_\_

---

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

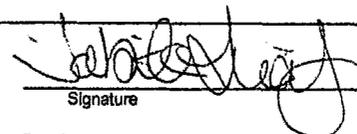
OPERATOR: **NEWFIELD PRODUCTION COMPANY**  
 ADDRESS: **RT. 3 BOX 3630**  
**MYTON, UT 84052**

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		
A	99999	10535	4301351177	EVANS 14-25-3-3W	SESW	25	3S	3W	DUCHESNE	5/3/2012	5/16/12
WELL 1 COMMENTS: WSTC <b>CONFIDENTIAL</b>											
A	99999	10536	4301351224	LARSEN 2-29-3-2W	NWNE	29	3S	2W	DUCHESNE	5/1/2012	5/16/12
GRRV BHL: Suse <b>CONFIDENTIAL</b>											
B	99999	17400	4301350772	GMBU L-33-8-17	SWNE	33	8S	17E	DUCHESNE	4/28/2012	5/16/12
GRRV BHL: Rese											

ACTION CODES (See instructions on back of form)  
 A - 1 new entity for new well (single well only)  
 B - 1 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 - ther (explain in comments section)

RECEIVED  
 MAY 11 2012

  
 Signature  
 Tabitha Timothy  
 Production Clerk  
 05/10/12

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

Div. of Oil, Gas & Mining

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	5. LEASE DESIGNATION AND SERIAL NUMBER: Patented
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Larsen 2-29-3-2WH
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013512240000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0880 FNL 2381 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 29 Township: 03.0S Range: 02.0W Meridian: U	9. FIELD and POOL or WILDCAT: WILDCAT
	COUNTY: DUCHESNE
	STATE: UTAH

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

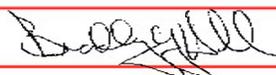
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>6/15/2012</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Newfield Production Company respectfully submits the attached revised location layouts, cross-sections, map and revised affidavit of surface use reflecting a larger pad size and subsequent changes to the larger pad layout as a result of the onsite inspection. An updates surface use in place with the surface owner as evidenced with the attached Affidavit of Easement, Right-of-way and Surface Use Agreement.

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

Date: June 07, 2012

By: 

NAME (PLEASE PRINT) Don Hamilton	PHONE NUMBER 435 719-2018	TITLE Permitting Agent
SIGNATURE N/A	DATE 4/25/2012	

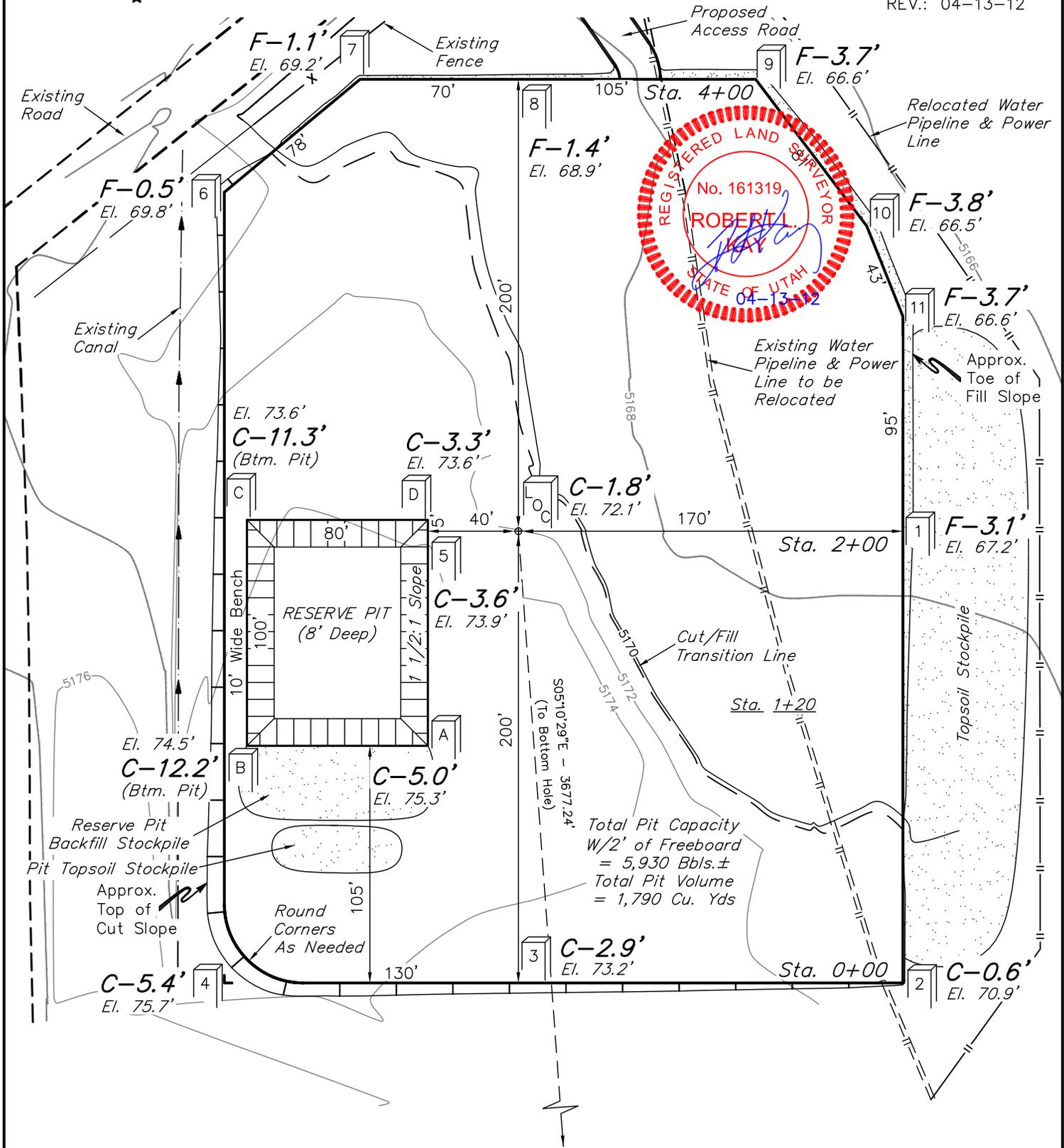
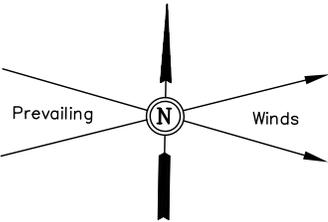
**NEWFIELD EXPLORATION COMPANY**

LOCATION LAYOUT FOR

LARSEN #2-29-3-2W(H)  
SECTION 29, T3S, R2W, U.S.B.&M.  
880' FNL 2381' FEL

**FIGURE #1**

SCALE: 1" = 60'  
DATE: 08-31-11  
DRAWN BY: J.I.  
REV.: 09-07-11  
REV.: 10-25-11  
REV.: 04-13-12



Total Pit Capacity  
W/2' of Freeboard  
= 5,930 Bbls.±  
Total Pit Volume  
= 1,790 Cu. Yds

Elev. Ungraded Ground At Loc. Stake = **5172.1'**  
FINISHED GRADE ELEV. AT LOC. STAKE = **5170.3'**

**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

RECEIVED: Apr. 25, 2012

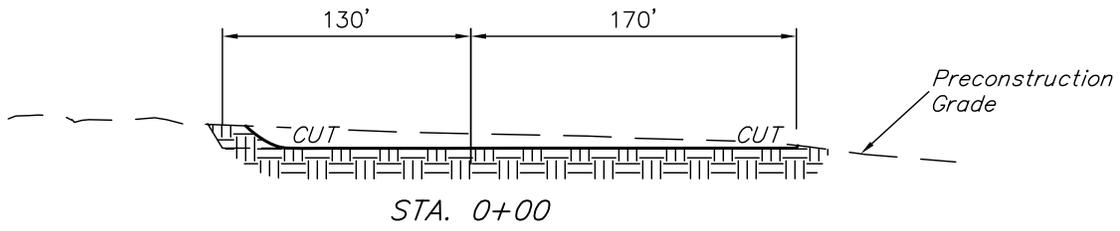
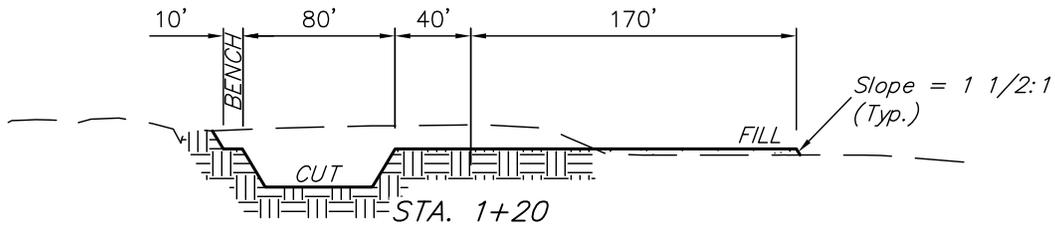
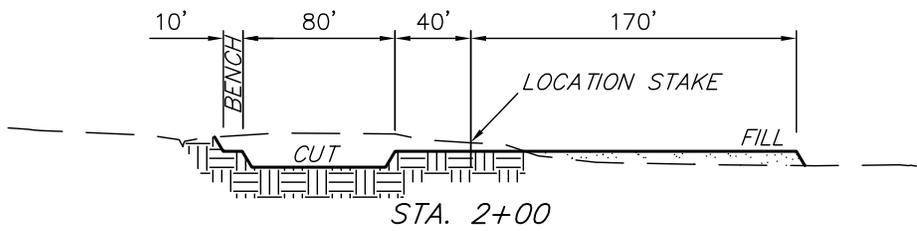
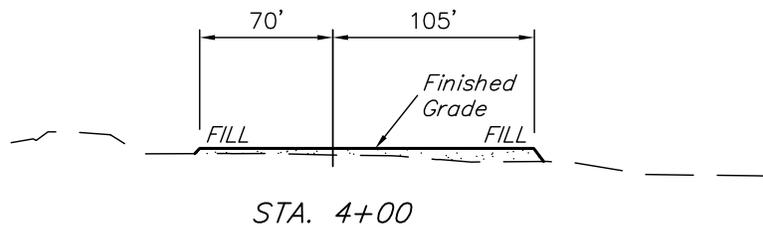
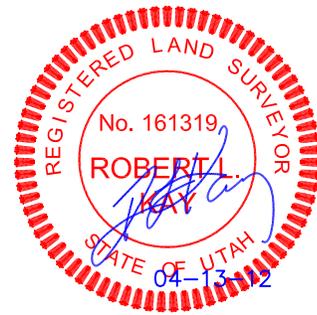
**NEWFIELD EXPLORATION COMPANY**

**FIGURE #2**

X-Section Scale  
1" = 40'  
1" = 100'

TYPICAL CROSS SECTIONS FOR  
LARSEN #2-29-3-2W(H)  
SECTION 29, T3S, R2W, U.S.B.&M.  
880' FNL 2381' FEL

DATE: 08-31-11  
DRAWN BY: J.I.  
REV.: 10-25-11  
REV.: 04-13-12



**NOTE:**

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE ACREAGES  
WELL SITE DISTURBANCE = ± 3.464 ACRES  
ACCESS ROAD DISTURBANCE = ± 0.119 ACRES  
PIPELINE DISTURBANCE = ± 0.328 ACRES  
TOTAL = ± 3.911 ACRES

\* NOTE:  
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(12") Topsoil Stripping = 4,510 Cu. Yds.  
Remaining Location = 7,110 Cu. Yds.  
TOTAL CUT = 11,620 CU.YDS.  
FILL = 6,210 CU.YDS.

EXCESS MATERIAL = 5,410 Cu. Yds.  
Topsoil & Pit Backfill (1/2 Pit Vol.) = 5,410 Cu. Yds.  
EXCESS UNBALANCE (After Interim Rehabilitation) = 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



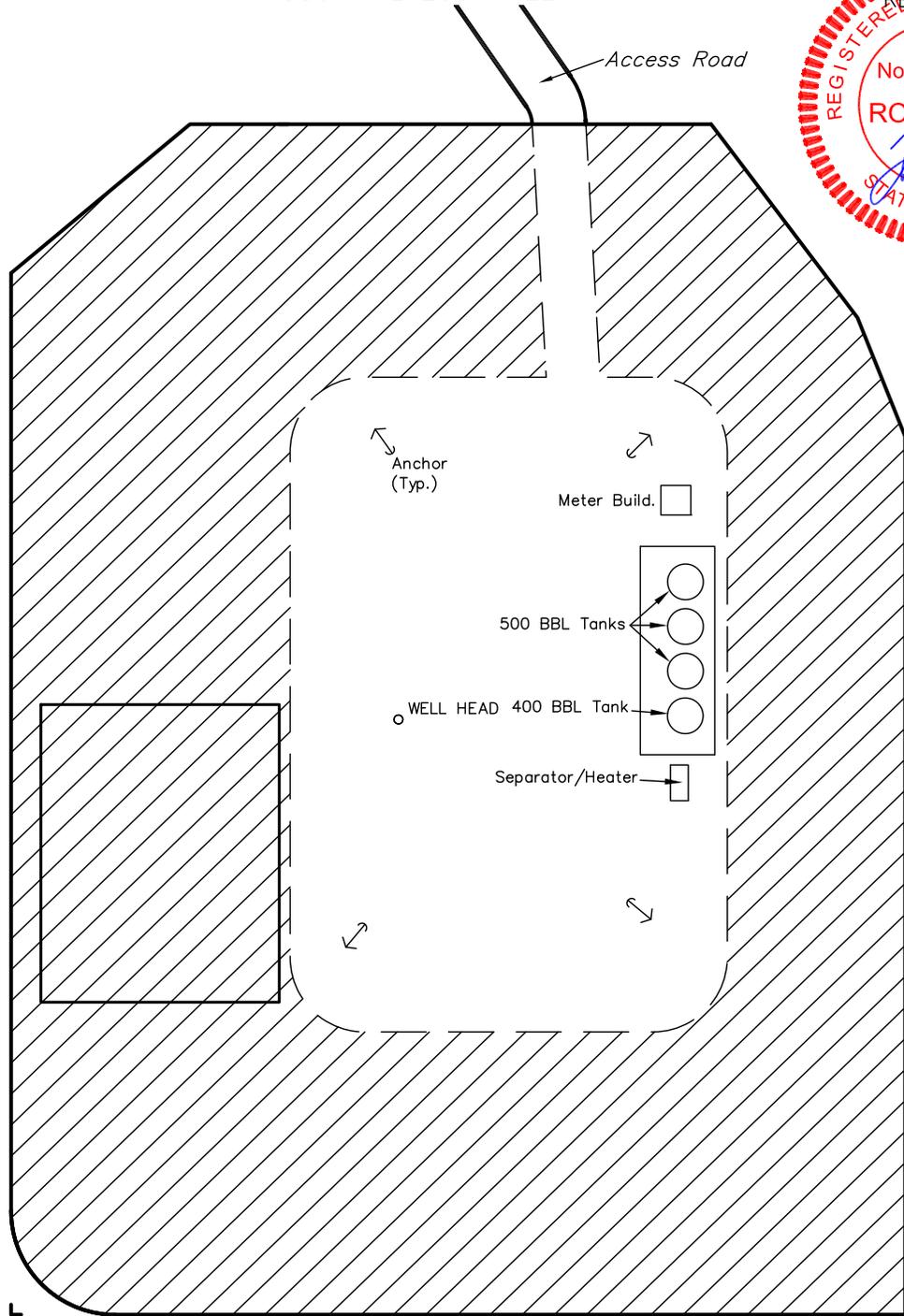
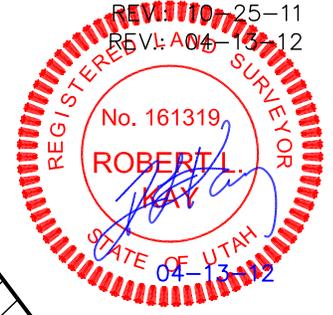
# NEWFIELD EXPLORATION COMPANY

## PRODUCTION FACILITY LAYOUT FOR

LARSEN #2-29-3-2W(H)  
SECTION 29, T3S, R2W, U.S.B.&M.  
880' FNL 2381' FEL

FIGURE #4

SCALE: 1" = 50'  
DATE: 08-31-11  
DRAWN BY: J.I.  
REV: 01-25-11  
REV: A04-15-12

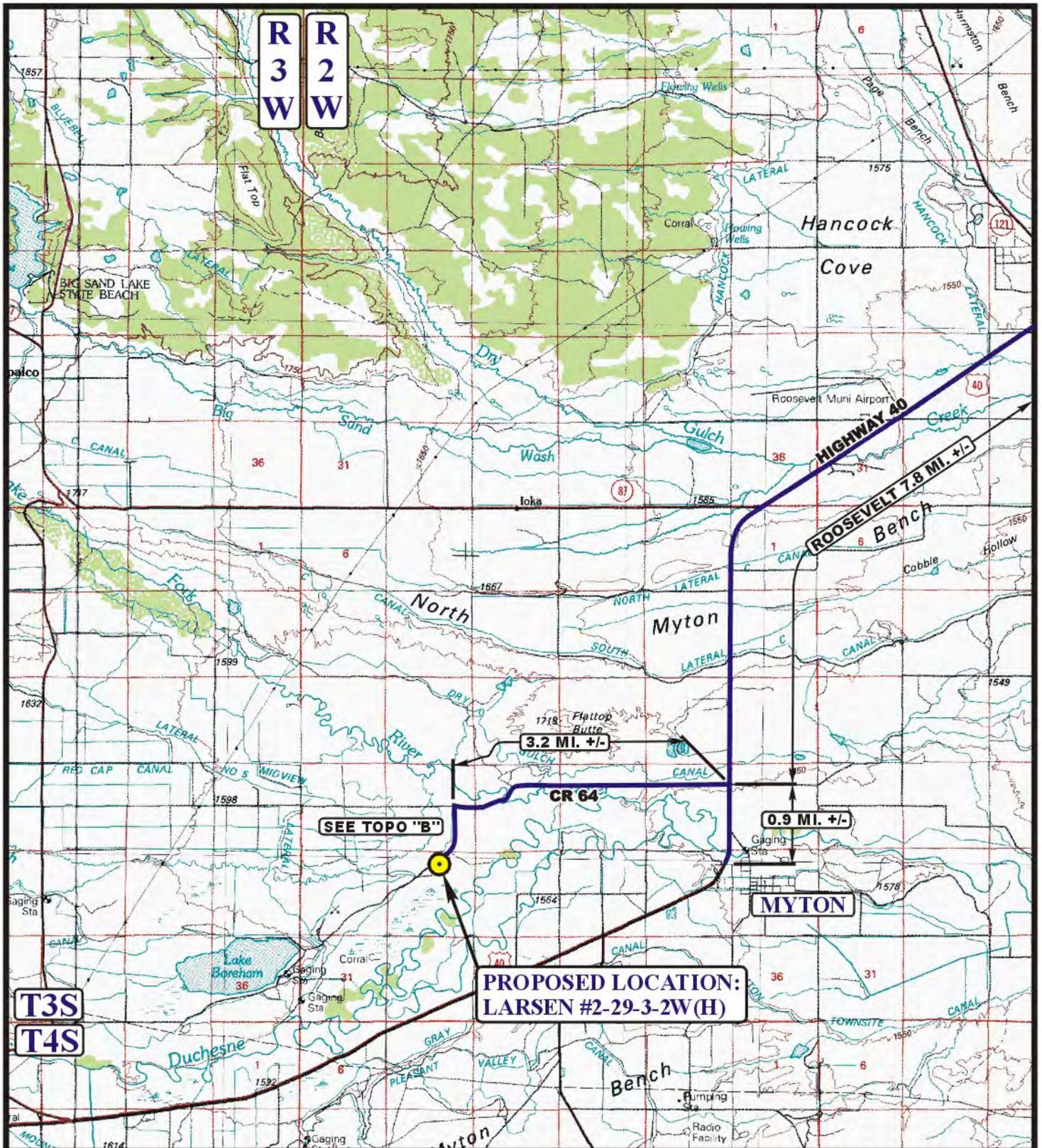


APPROXIMATE ACREAGES  
UN-RECLAIMED = ± 0.764 ACRES

 RECLAIMED AREA

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

RECEIVED: Apr. 25, 2012



**LEGEND:**

● PROPOSED LOCATION

**NEWFIELD EXPLORATION COMPANY**

**LARSEN #2-29-3-2W(H)**  
**SECTION 29, T3S, R2W, U.S.B.&M.**  
**880' FNL 2381' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

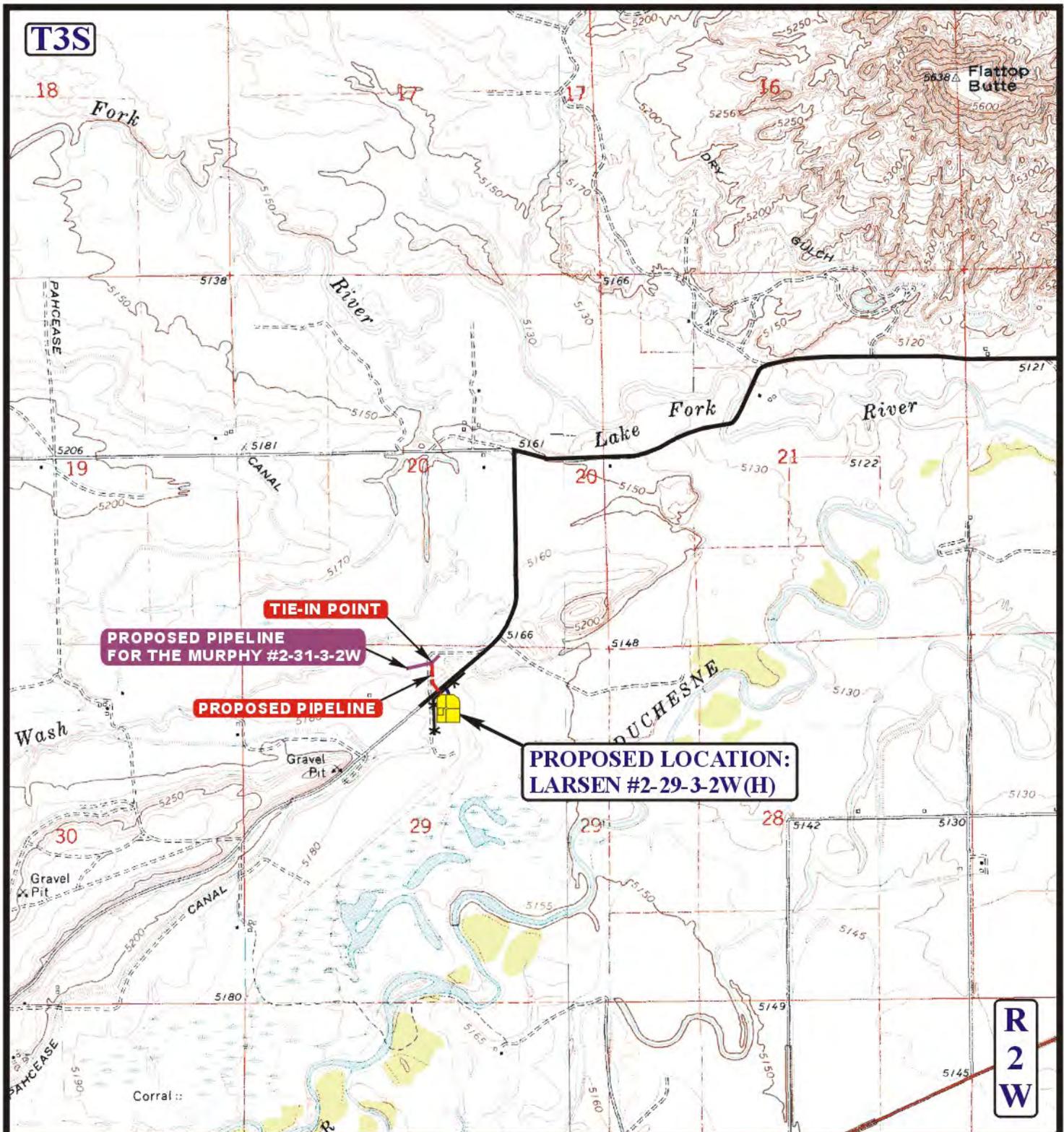


**ACCESS ROAD**  
**MAP**

**08 30 11**  
 MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.A.G. REVISED: 00-00-00





**APPROXIMATE TOTAL PIPELINE DISTANCE = 505' +/-**

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE

**NEWFIELD EXPLORATION COMPANY**

**LARSEN #2-29-3-2W(H)  
SECTION 29, T3S, R2W, U.S.B.&M.  
880' FNL 2381' FEL**



**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

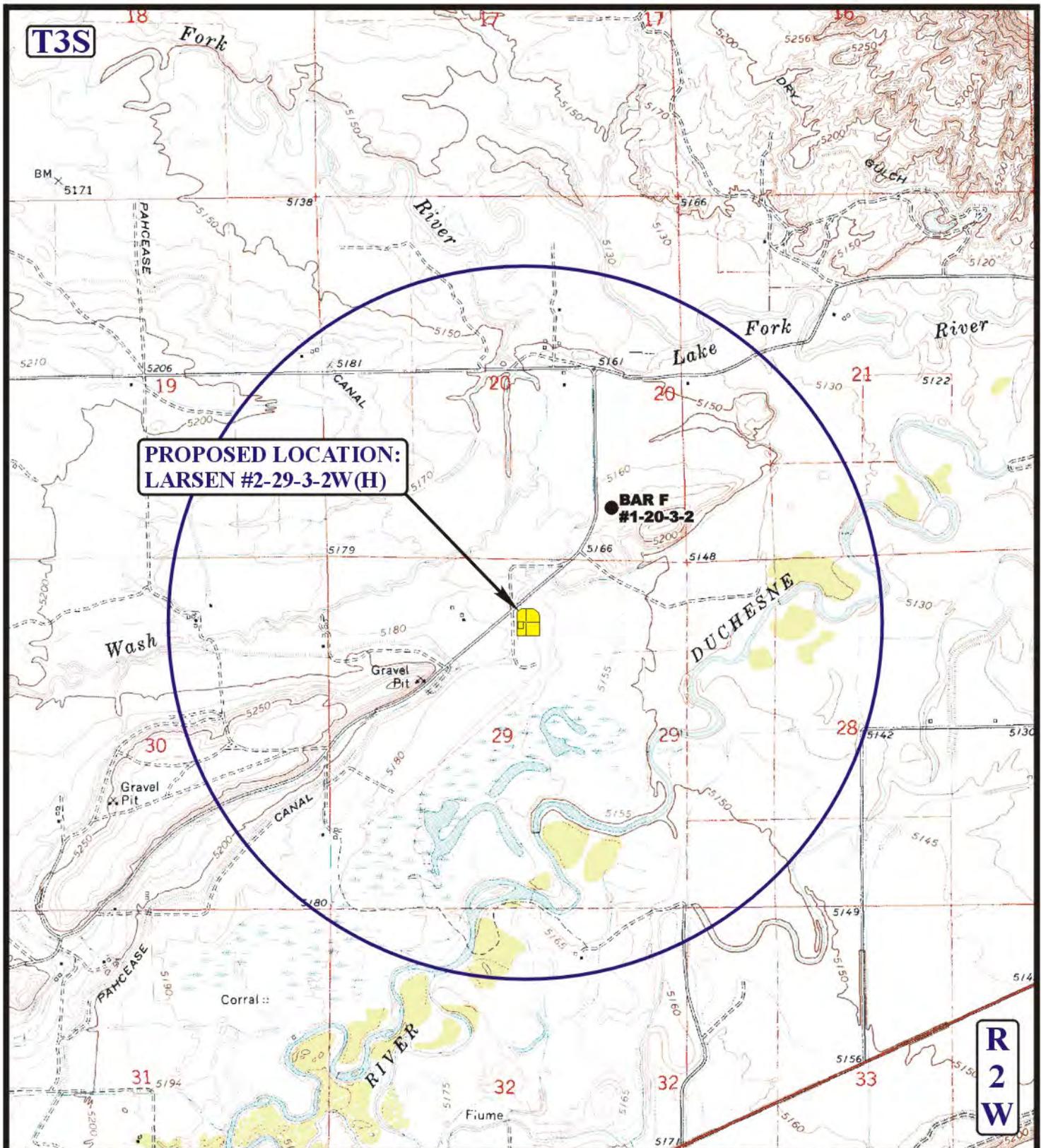


**TOPOGRAPHIC  
MAP**

**10 27 11**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.A.G REV: 04-13-12 J.L.H.

**D  
TOPO**



**PROPOSED LOCATION:  
LARSEN #2-29-3-2W(H)**

**BAR F  
#1-20-3-2**

**R  
2  
W**

**LEGEND:**

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

**NEWFIELD EXPLORATION COMPANY**

**LARSEN #2-29-3-2W(H)  
SECTION 29, T3S, R2W, U.S.B.&M.  
880' FNL 2381' FEL**



**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

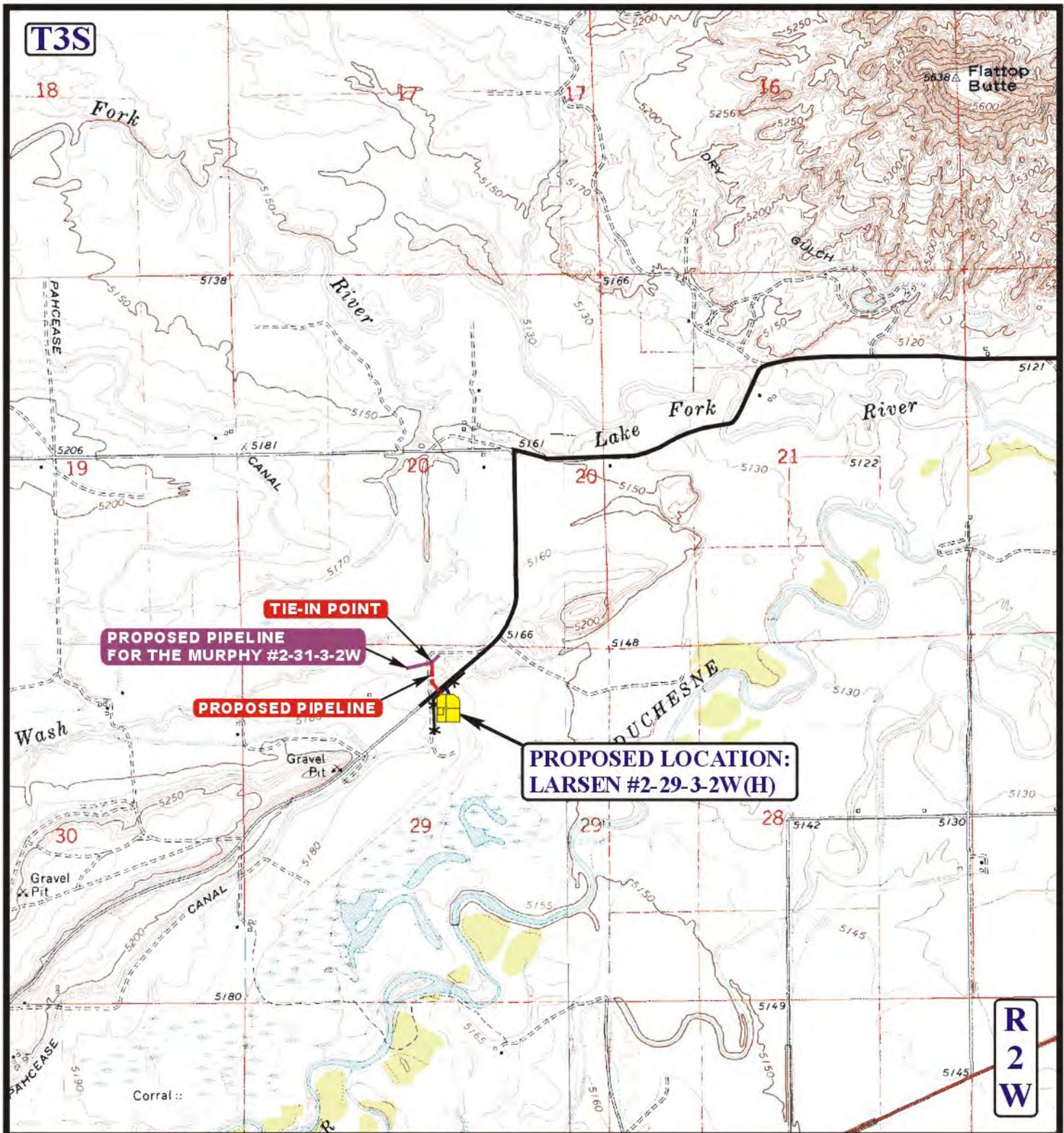


**TOPOGRAPHIC  
MAP**

**08 30 11**  
MONTH DAY YEAR



SCALE: 1" = 2000' DRAWN BY: C.A.G. REV: 04-13-12 J.L.H.



**APPROXIMATE TOTAL PIPELINE DISTANCE = 505' +/-**

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE

**NEWFIELD EXPLORATION COMPANY**

**LARSEN #2-29-3-2W(H)  
SECTION 29, T3S, R2W, U.S.B.&M.  
880' FNL 2381' FEL**



**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC  
MAP**

**10 27 11**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.A.G. REV: 04-13-12 J.L.H.

**D  
TOPO**

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

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

1. My name is Greg Boggs. I am a Landman for Newfield Production Company, whose address is 1001 17<sup>th</sup> Street, Suite 2000, Denver, CO 80202 (“Newfield”).
2. Newfield is the Operator of the proposed Larson 2-29-3-2WH well with a surface location to be positioned in the NWNE of Section 29, Township 3 South, Range 2 West, Duchesne County, Utah (the “Drillsite Location”) with a bottom hole location in the SWSE of Section 29, Township 3 South, Range 2 West, Duchesne County, Utah. The surface owner of the Drillsite Location is Aaron B. Abbott and Danyel Abbott, whose address is HC 64 Box 378, Duchesne, Utah 84021 (“Surface Owner”).
3. Newfield and the Surface Owner have agreed upon an Easement, Right-of-Way and Surface Use Agreement dated August 18, 2011 covering the Drillsite Location.
4. Newfield and Surface Owner amended the Easement, Right-of-Way and Surface Use Agreement dated August 18, 2011. The Amendment of Easement, Right-of-Way and Surface Use Agreement was executed by Surface Owner on March 19, 2012, but effective for all purposes as of August 18, 2011.

FURTHER AFFIANT SAYETH NOT.



ACKNOWLEDGEMENT

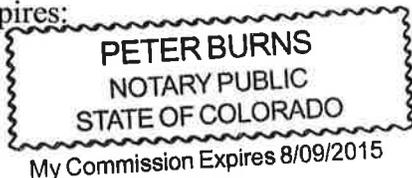
STATE OF COLORADO           §  
  §  
COUNTY OF DENVER         §

Before me, a Notary Public, in and for the State, on this 12 day of April 2012, personally appeared Greg Boggs, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.



NOTARY PUBLIC

My Commission Expires:



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

5. LEASE DESIGNATION AND SERIAL NUMBER: Larsen 2-29-3-2WH
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: UINTA CB - WASATCH DEEP
8. WELL NAME and NUMBER: LARSEN 2-29-3-2WH
9. API NUMBER: 4301351224
10. FIELD AND POOL, OR WILDCAT: UINTA CENTRAL BASIN

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

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

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 0880 FNL  
OTR/OTR. SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE, 29, T3S, R2W 2381 FEL

COUNTY: DUCHESNE  
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: 05/04/2012	<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 5/1/12 MIRU Ross #26. Spud well @9:00 AM. Drill 64' of 17 1/2" hole with air mist. TIH W/ 2 Jt's 14" H-40 36.75# csgn. Set @ 84. On 5/4/12 cement with 120 sks of class "G" w/ 2% CaCL2 + 0.25#/sk Cello- Flake Mixed @ 15.8ppg w/ 1.17ft3/sk yield. Returned 8 barrels cement to pit. WOC.

NAME (PLEASE PRINT) Branden Arnold TITLE \_\_\_\_\_

SIGNATURE [Signature] DATE 05/15/2012

(This space for State use only)

RECEIVED

MAY 24 2012

DIV. OF OIL, GAS & MINING

## Casing / Liner Detail

**Well** Larsen 2-29-3-2WH  
**Prospect** Central Basin  
**Foreman**  
**Run Date:** 5/1/2012  
**String Type** Conductor, 14", #, , STC (Generic)

**- Detail From Top To Bottom -**

Depth	Length	JTS	Description	OD	ID
84.00			KB for Pioneer 68		
18.00	66.00	2	14" conductor	14.000	13.500
84.00			-		
84.00					
84.00					

**Cement Detail**

<b>Cement Company:</b>					
Slurry	# of Sacks	Weight (ppg)	Yield	Volume (ft³)	Description - Slurry Class and Additives
Slurry 1	120	15.8	1.17	140.4	Class G w/ 2% CaCl
<b>Stab-In-Job?</b>					
BHT:			0	Cement To Surface?	
Initial Circulation Pressure:			120	Est. Top of Cement: 18	
Initial Circulation Rate:			3	Plugs Bumped?	
Final Circulation Pressure:			86	Pressure Plugs Bumped:	
Final Circulation Rate:			3	Floats Holding?	
Displacement Fluid:			Water	Casing Stuck On / Off Bottom?	
Displacement Rate:			4	Casing Reciprocated?	
Displacement Volume:			3	Casing Rotated?	
Mud Returns:			Full	CIP:	
Centralizer Type And Placement:				Casing Wt Prior To Cement:	
				Casing Weight Set On Slips:	

**Alexis Huefner - FW: Newfield Larsen 2-29-3-2WH Spud Notice**

**From:** "Pioneer 68" <den\_pio68@nfxrig.com>  
**To:** "Alexis Huefner" <alexishuefner@utah.gov>, "Dan Jarvis" <danjarvis@utah.gov>  
**Date:** 6/5/2012 9:01 AM  
**Subject:** FW: Newfield Larsen 2-29-3-2WH Spud Notice

Alexis & Dan,

Sorry, I miss spelled both of your names originally. If there is anyone I missed for the distribution, please let me know.

Thanks

Richard McNeill  
Newfield Drilling Supervisor  
Pioneer 68  
Office 970 361-3263  
Cell 720 339-7239  
den\_pio68@nfxrig.com

**From:** Pioneer 68 [mailto:den\_pio68@nfxrig.com]  
**Sent:** Tuesday, June 05, 2012 6:04 AM  
**To:** Alexis Heufner; Carol Daniels (caroldaniels@utah.gov); Chris Jensen; Dan Jarvix; Dennis Ingram  
**Cc:** Hans Wychgram (hwychgram@newfield.com); Mitch Benson (mbenson@newfield.com); Pioneer 68 (den\_pio68@nfxrig.com); Ray Herrera (rherrera@newfield.com); Ryan Johnson (rjohnson@newfield.com); Sean Stevens (sstevens@newfield.com)  
**Subject:** Newfield Larsen 2-29-3-2WH Spud Notice

**Operator:** Newfield Production Company  
**Well Name:** Larsen 2-29-3-2WH  
**Rig:** Pioneer #68  
**Legals:** 880' FNL, 2381' FEL, Sec. 29-T3S-R2W  
Duchesne County, Utah  
**API #:** 43-013-51224-0000  
**Contact:** See Below

**Est. Spud:** 18:00 6/5/2012  
**Est. Run 9 5/8" Csg:** 10:00 6/7/2012  
**Est. Cement:** 18:00 6/7/2012  
**Est. BOP Test:** 07:00 6/8/2012

Richard McNeill  
Newfield Drilling Supervisor  
Pioneer 68  
Office 970 361-3263  
Cell 720 339-7239  
[den\\_pio68@nfxrig.com](mailto:den_pio68@nfxrig.com)

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	5. LEASE DESIGNATION AND SERIAL NUMBER: Patented
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 17th Street, Suite 2000 , Denver, CO, 80202	8. WELL NAME and NUMBER: LARSEN 2-29-3-2WH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0880 FNL 2381 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 29 Township: 03.0S Range: 02.0W Meridian: U	9. API NUMBER: 43013512240000
5. PHONE NUMBER: 303 382-4443 Ext	9. FIELD and POOL or WILDCAT: WILDCAT
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/1/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input checked="" type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text" value="Vent/Flare"/>

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

During an anticipated 10 day period in the month of October 2012, Kinder Morgan will be unable to receive gas produced from 43 of Newfield Production Company's oil wells. In compliance with UDOGM requirements, Newfield is providing notification of short term venting/flaring for wells that may exceed 1,800 MCF/calendar month. Please see attached.---R649-3-20-4.2-----

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

**Date:** September 25, 2012

**By:** *D. K. Quist*

NAME (PLEASE PRINT) Jill L Loyle	PHONE NUMBER 303 383-4135	TITLE Regulatory Technician
SIGNATURE N/A	DATE 9/24/2012	



September 21, 2012

Dustin Doucet  
Petroleum Engineer  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84116

RE: Gas Venting or Flaring Notification per R649-3-20

Dear Mr. Doucet,

Newfield Production Company (Newfield) is submitting this notification to the Utah Division of Oil, Gas and Mining (UDOGM) regarding the necessary venting or flaring of oil wells in Newfield's Central Basin field.

Kinder Morgan Pipeline has notified Newfield of their intent to test portions of a pipeline system that services 43 of Newfield's oil wells. During an anticipated 10 day period in the month of October 2012, Kinder Morgan will be unable to receive gas produced from certain Newfield wells. Newfield has evaluated options for marketing this gas, however due to the short duration of this event it is not feasible to install the new pipelines necessary to sell the gas. Thus Newfield will be compelled to conduct unavoidable oil well gas venting or flaring during this pipeline service period.

In compliance with UDOGM requirements Newfield is hereby providing notification of short term venting/flaring for wells that may exceed 1,800 MCF/calendar month. Newfield has identified 7 wells that will potentially exceed the 1,800 MCF/calendar month threshold assuming a 10 day event. While 7 wells are expected to exceed the 1,800 MCF limitations, there are an additional 36 affected wells that have lower production rates not anticipated to exceed the 1,800 MCF notification threshold.

Newfield intends to flare (rather than vent) the produced gas where feasible in order to minimize impacts to the environment and provide for safe operational conditions. Newfield plans to reroute the gas through lateral pipelines to 4 separate central flaring sites. These flare locations are listed below.

At this time Newfield is proposing the following flare locations based on lateral pipeline connections and surrounding landscape safety:

1. Evans 14-25-3-3
2. State 11-5-3-1
3. Ute 7-19-3-3
4. Mullins 11-14-3-2

The final location and application of flares may change as KM provides additional information concerning the event.

Enclosed please find sundry notices for the seven wells anticipated to exceed the 1,800 MCF threshold and supporting documentation including a list of wells impacted by the Kinder Morgan pipeline shutdown and total anticipated produced gas that will be flared or vented. If you have any questions or require additional information, please contact me at (303) 893-0102 or at [reales@newfield.com](mailto:reales@newfield.com).

Sincerely,



Robert Eales  
HSE Analyst

cc: Tim Mullen, Eric Bengtson, Rick Opat, Don Bromley and Douglas Henderer

Newfield Affected Wells by Kinder Morgan Pipeline Shutdown				
Well	API Number	Average Daily Gas Production (mcf/day)	Anticipated 10 Day Total (MCF)	Flare Group/Site
DART 1-12-3-2	43-013-50418	13.28	132.80	State 11-5-3-1W
EMERALD PHNX 15-31-2-1W	43-013-51290	141.51	1415.10	State 11-5-3-1W
LAMB 1-19-3-1W	43-013-50425	150.88	1508.80	State 11-5-3-1W
LAMB 14-13-3-2	43-013-50849	13.98	139.80	State 11-5-3-1W
LAMB 9-24-3-2	43-013-50923	30.46	304.60	State 11-5-3-1W
STATE 11-5-3-1W	43-013-51043	55.62	556.20	State 11-5-3-1W
TOMLIN 7-1-3-2W	43-013-51081	47.62	476.20	State 11-5-3-1W
WHITE 7-6-3-1W	43-013-50813	28.64	286.40	State 11-5-3-1W
YERGENSEN 1-18-3-1W	43-013-50428	79.81	798.10	State 11-5-3-1W
YERGENSEN 7-7-3-1W	43-013-50985	30.40	304.00	State 11-5-3-1W
ABBOTT 3-29-3-2W	43-013-50873	24.35	243.50	Evans 14-25-3-3
BAR F 1-20-3-2	43-013-50009	52.98	529.80	Evans 14-25-3-3
CONNOLLY 10-24-3-3W	43-013-51145	134.92	1349.20	Evans 14-25-3-3
EVANS 14-25-3-3W	43-013-51177	34.31	343.10	Evans 14-25-3-3
GILES 1-19-3-2	43-013-50426	93.45	934.50	Evans 14-25-3-3
LAKE BOREHAM 4-36-3-3WH	43-013-51194	718.03	7180.30	Evans 14-25-3-3
LARSEN 2-29-3-2WH	43-013-51224	541.03	5410.30	Evans 14-25-3-3
LH TRUST 3A-30-3-2W	43-013-50901	93.38	933.80	Evans 14-25-3-3
MURPHY 2-31-3-2W	43-013-50833	26.68	266.80	Evans 14-25-3-3
SULSER 10-30-3-2W	43-013-51387	135.96	1359.60	Evans 14-25-3-3
State 4-19-3-2	43-013-51130	160.00	1600.00	Evans 14-25-3-3
ODEKIRK 11-12-3-3W	43-013-51054	271.69	2716.90	Mullins 11-14-3-2
THORNE 4-21-3-2WH	43-013-51067	454.96	4549.60	Mullins 11-14-3-2
LUSTY 14-2-3-3W	43-013-51370	171.30	1713.00	Mullins 11-14-3-2
PADILLA 1-18-3-2W	43-013-50786	87.82	878.20	Mullins 11-14-3-2
DILLMAN 10-17-3-2W	43-013-50995	134.48	1344.80	Mullins 11-14-3-2
MILES 15-8-3-2W	43-013-50814	268.20	2682.00	Mullins 11-14-3-2
MULLINS 11-14-3-2W	43-013-51044	117.70	1177.00	Mullins 11-14-3-2
GDR Brothers 7-2-3-2W	43-013-50954	100.00	1000.00	Mullins 11-14-3-2
NICKERSON 6-28-3-2W	43-013-51006	69.10	691.00	Mullins 11-14-3-2
DILLMAN 5-2-3-1W	43-047-52244	57.80	578.00	Mullins 11-14-3-2
ALZADA 11-21-3-2W	43-013-51068	94.03	940.30	Mullins 11-14-3-2
CONRAD 6-17-3-1	43-013-50857	45.20	452.00	Mullins 11-14-3-2
LAMB 12-20-3-1W	43-013-50858	41.20	412.00	Mullins 11-14-3-2
SMALLEY 7-8-3-1W	43-013-50822	45.11	451.10	Mullins 11-14-3-2
YERGENSEN 1-9-3-1	43-013-50427	33.50	335.00	Mullins 11-14-3-2
KILLIAN 14-3-3-1W	43-013-50945	52.70	527.00	Mullins 11-14-3-2
STATE 6-4-3-1W	43-013-50691	36.93	369.30	Mullins 11-14-3-2
KETTLE 1-10-3-1	43-013-50396	109.78	1097.80	Mullins 11-14-3-2
EVANS 1-4-3-3	43-013-50561	28.71	287.10	Ute 7-19-3-3
GILBERT 9-9-3-3W	43-013-50955	246.98	2469.80	Ute 7-19-3-3
GRACE 3-16-3-3WH	43-013-51185	149.26	1492.60	Ute 7-19-3-3
McKenna 1-17-3-3WH	43-013-51122	600.00	6000.00	Ute 7-19-3-3
		Total	58,237	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Patented
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> LARSEN 2-29-3-2WH
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013512240000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0880 FNL 2381 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 29 Township: 03.0S Range: 02.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 9/11/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The above well was placed on production on 07/30/2012 at 13:15 hours, in "flowing" status. The well was placed on a gas lift system on 09/11/2012 at 15:00 hours. Production Start sundry re-sent 11/28/2012.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
November 28, 2012**

<b>NAME (PLEASE PRINT)</b> Jennifer Peatross	<b>PHONE NUMBER</b> 435 646-4885	<b>TITLE</b> Production Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/28/2012	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

FORM APPROVED  
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. Reserv.,  
 Other: \_\_\_\_\_

5. Lease Serial No.  
PATENTED

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator  
NEWFIELD EXPLORATION COMPANY

8. Lease Name and Well No.  
LARSEN 2-29-3-2WH

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

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

9. AFI Well No.  
43-013-51224

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

At surface 880' FNL & 2381' **FEL** NW/NE) SEC. 29, T3S, R2W

At top prod. interval reported below 1370' FNL & 2188' FEL (SW/NE) SEC. 29, T3S, R2W

At total depth 743' FSL & **665'** FEL (SW/SE) SEC. 29, T3S, R2W **BHL by DOGM HSM**

10. Field and Pool or Exploratory  
WILDCAT

11. Sec., T., R., M., on Block and  
Survey or Area SEC. 29, T3S, R2W

12. County or Parish  
DUCHESNE

13. State  
UT

14. Date Spudded  
05/01/2012

15. Date T.D. Reached  
06/26/2012

16. Date Completed **9/11/2012**  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5172' GL 5190' KB

18. Total Depth: MD 11800'  
TVD **8169**

19. Plug Back T.D.: MD 11744'  
TVD **8170**

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
12-1/4"	9-5/8" K-55	36#	0	2501'		521 PREMLT II			
8-3/4"	7" P-110	26#	0	8544'		195 PREMLT II		1370'	
6-1/8"	4-1/2" P-110	13.5#	7608'	11798'		595 VERSACM			
						390 BONDCEM			

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 @ 7554'	Packer @ 7526'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) <b>Green River wash</b>	8595' MD	11742' MD	8595-11742' MD	0.38"	477	
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
8595-11742' MD	Frac w/ 519176#s 30/50 white sand and 123981#s 100 mesh; 57246 bbls Slickwater fluid; 18 stages.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
8/1/12	9/21/12	24	→	132	373	27			GAS LIFT SYSTEM
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		→						

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FEB 15 2013

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

28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

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

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
				GARDEN GULCH DOUGLAS CREEK	5905' 7022'
				BI-CARBONATE B LIMESTONE	7307' 7562'
				CASTLE PEAK BASAL CARBONATE	7932' 8311'
				<i>wasatch</i>	<i>8375</i>

32. Additional remarks (include plugging procedure):

The above well began flowing on 8/1/2012 during the completion process, and continued until the well was shut in for installation of the gas lift system on 9/8/2012. The well was returned to production on 9/11/2012, and test data was taken ten (10) days following, on 9/21/2012.

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

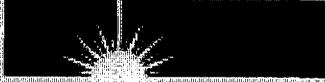
- Electrical/Mechanical Logs (1 full set req'd.)     
  Geologic Report     
  DST Report     
  Directional Survey  
 Sundry Notice for plugging and cement verification     
  Core Analysis     
  Other: Daily Completion Report

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 *J Peatross* Date 10/25/2012

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**

**LARSEN 2-29-3-2WH**

**LARSEN 2-29-3-2WH**

**LARSEN 2-29-3-2WH**

**Survey: Survey #1**

## **Standard Survey Report**

**22 June, 2012**



**Weatherford®**



**Weatherford International Ltd.**  
Survey Report



<b>Company:</b>	NEWFIELD EXPLORATION CO.	<b>Local Co-ordinate Reference:</b>	Well LARSEN 2-29-3-2WH
<b>Project:</b>	DUCHESNE COUNTY, UT	<b>TVD Reference:</b>	WELL @ 5190.00ft (PIONEER 68)
<b>Site:</b>	LARSEN 2-29-3-2WH	<b>MD Reference:</b>	WELL @ 5190.00ft (PIONEER 68)
<b>Well:</b>	LARSEN 2-29-3-2WH	<b>North Reference:</b>	True
<b>Wellbore:</b>	LARSEN 2-29-3-2WH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	LARSEN 2-29-3-2WH	<b>Database:</b>	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>	LARSEN 2-29-3-2WH				
<b>Site Position:</b>		<b>Northing:</b>	7,243,630.38 ft	<b>Latitude:</b>	40° 11' 51.428 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,022,524.37 ft	<b>Longitude:</b>	110° 7' 55.229 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.88 °

<b>Well</b>	LARSEN 2-29-3-2WH					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	7,243,630.38 ft	<b>Latitude:</b>	40° 11' 51.428 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,022,524.37 ft	<b>Longitude:</b>	110° 7' 55.229 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,172.00 ft

<b>Wellbore</b>	LARSEN 2-29-3-2WH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	BGGM2011	6/5/2012	11.28	65.86	52,192

<b>Design</b>	LARSEN 2-29-3-2WH				
<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	174.82	

<b>Survey Program</b>	<b>Date</b>	6/22/2012			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
323.00	11,800.00	Survey #1 (LARSEN 2-29-3-2WH)	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
323.00	0.91	217.49	322.99	-2.04	-1.56	1.89	0.28	0.28	0.00
450.00	1.07	244.35	449.97	-3.35	-3.24	3.04	0.38	0.13	21.15
576.00	0.95	132.19	575.96	-4.56	-3.53	4.22	1.33	-0.10	-89.02
685.00	0.82	83.30	684.95	-5.08	-2.09	4.87	0.68	-0.12	-44.85
811.00	1.03	62.78	810.93	-4.45	-0.18	4.42	0.31	0.17	-16.29
938.00	1.41	66.42	937.90	-3.31	2.26	3.50	0.31	0.30	2.87
1,065.00	1.48	67.47	1,064.86	-2.05	5.21	2.51	0.06	0.06	0.83
1,192.00	0.74	37.55	1,191.84	-0.77	7.23	1.42	0.72	-0.58	-23.56
1,317.00	0.50	27.23	1,316.83	0.35	7.97	0.37	0.21	-0.19	-8.26
1,443.00	0.70	25.67	1,442.82	1.53	8.55	-0.76	0.16	0.16	-1.24
1,569.00	0.25	261.28	1,568.82	2.19	8.61	-1.40	0.69	-0.36	-98.72
1,696.00	0.31	247.99	1,695.82	2.02	8.02	-1.28	0.07	0.05	-10.46



**Weatherford International Ltd.**  
Survey Report



<b>Company:</b>	NEWFIELD EXPLORATION CO.	<b>Local Co-ordinate Reference:</b>	Well LARSEN 2-29-3-2WH
<b>Project:</b>	DUCHESNE COUNTY, UT	<b>TVD Reference:</b>	WELL @ 5190.00ft (PIONEER 68)
<b>Site:</b>	LARSEN 2-29-3-2WH	<b>MD Reference:</b>	WELL @ 5190.00ft (PIONEER 68)
<b>Well:</b>	LARSEN 2-29-3-2WH	<b>North Reference:</b>	True
<b>Wellbore:</b>	LARSEN 2-29-3-2WH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	LARSEN 2-29-3-2WH	<b>Database:</b>	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)	
1,822.00	0.56	218.59	1,821.81	1.41	7.32	-0.74	0.26	0.20	-23.33	
1,949.00	0.91	225.33	1,948.80	0.21	6.22	0.35	0.28	0.28	5.31	
2,075.00	0.90	218.45	2,074.79	-1.27	4.89	1.70	0.09	-0.01	-5.46	
2,203.00	1.19	211.75	2,202.77	-3.18	3.56	3.49	0.25	0.23	-5.23	
2,329.00	0.94	208.55	2,328.74	-5.20	2.38	5.40	0.20	-0.20	-2.54	
2,445.00	0.85	217.19	2,444.73	-6.72	1.41	6.82	0.14	-0.08	7.45	
2,542.00	0.74	219.20	2,541.72	-7.78	0.58	7.80	0.12	-0.11	2.07	
2,668.00	0.35	41.44	2,667.72	-8.13	0.32	8.12	0.86	-0.31	-141.08	
2,795.00	1.47	26.35	2,794.70	-6.37	1.30	6.47	0.89	0.88	-11.88	
2,922.00	1.33	16.26	2,921.66	-3.50	2.43	3.71	0.22	-0.11	-7.94	
3,049.00	1.26	18.83	3,048.63	-0.76	3.30	1.06	0.07	-0.06	2.02	
3,175.00	1.41	22.95	3,174.60	1.98	4.35	-1.57	0.14	0.12	3.27	
3,302.00	1.58	21.12	3,301.55	5.05	5.59	-4.52	0.14	0.13	-1.44	
3,429.00	1.25	35.76	3,428.51	7.80	7.03	-7.14	0.38	-0.26	11.53	
3,555.00	0.77	51.98	3,554.49	9.44	8.50	-8.63	0.44	-0.38	12.87	
3,682.00	0.31	108.87	3,681.49	9.86	9.50	-8.96	0.52	-0.36	44.80	
3,809.00	0.25	113.53	3,808.49	9.63	10.08	-8.68	0.05	-0.05	3.67	
3,936.00	0.38	71.88	3,935.49	9.65	10.73	-8.65	0.20	0.10	-32.80	
4,062.00	0.49	108.74	4,061.48	9.61	11.64	-8.52	0.23	0.09	29.25	
4,189.00	0.51	97.20	4,188.48	9.37	12.71	-8.18	0.08	0.02	-9.09	
4,316.00	0.66	119.36	4,315.47	8.94	13.91	-7.64	0.21	0.12	17.45	
4,443.00	0.45	90.69	4,442.47	8.57	15.05	-7.18	0.27	-0.17	-22.57	
4,570.00	0.10	310.75	4,569.46	8.64	15.46	-7.21	0.42	-0.28	-110.19	
4,697.00	0.55	270.25	4,696.46	8.71	14.77	-7.34	0.38	0.35	-31.89	
4,823.00	0.55	298.99	4,822.46	9.01	13.63	-7.74	0.22	0.00	22.81	
4,949.00	1.01	262.86	4,948.45	9.16	12.00	-8.04	0.52	0.37	-28.67	
5,076.00	1.39	234.82	5,075.42	8.14	9.63	-7.23	0.54	0.30	-22.08	
5,203.00	0.38	266.70	5,202.40	7.23	7.95	-6.48	0.86	-0.80	25.10	
5,329.00	0.35	250.13	5,328.40	7.07	7.17	-6.39	0.09	-0.02	-13.15	
5,456.00	0.76	231.22	5,455.39	6.41	6.15	-5.83	0.35	0.32	-14.89	
5,583.00	1.14	195.53	5,582.38	4.67	5.16	-4.18	0.54	0.30	-28.10	
5,710.00	0.77	172.59	5,709.36	2.60	4.93	-2.15	0.41	-0.29	-18.06	
5,836.00	0.74	192.76	5,835.35	0.97	4.86	-0.53	0.21	-0.02	16.01	
5,963.00	1.34	191.94	5,962.33	-1.28	4.37	1.67	0.47	0.47	-0.65	
6,089.00	0.70	157.45	6,088.31	-3.44	4.36	3.82	0.68	-0.51	-27.37	
6,214.00	0.70	65.98	6,213.30	-3.83	5.35	4.30	0.80	0.00	-73.18	
6,341.00	0.72	102.18	6,340.29	-3.68	6.84	4.28	0.35	0.02	28.50	
6,467.00	0.82	160.63	6,466.28	-4.70	7.91	5.40	0.60	0.08	46.39	
6,594.00	0.95	144.04	6,593.27	-6.41	8.83	7.18	0.23	0.10	-13.06	
6,721.00	1.06	177.30	6,720.25	-8.43	9.51	9.26	0.46	0.09	26.19	
6,847.00	1.71	9.42	6,846.23	-7.74	9.87	8.60	2.19	0.52	-133.24	
6,974.00	1.44	358.81	6,973.19	-4.28	10.15	5.18	0.31	-0.21	-8.35	
7,101.00	1.14	338.69	7,100.16	-1.51	9.65	2.37	0.42	-0.24	-15.84	
7,228.00	0.56	307.00	7,227.14	0.04	8.70	0.74	0.57	-0.46	-24.95	
7,354.00	0.63	277.22	7,353.13	0.50	7.52	0.18	0.25	0.06	-23.63	
7,481.00	0.41	256.25	7,480.13	0.48	6.39	0.10	0.23	-0.17	-16.51	
7,607.00	1.19	189.58	7,606.12	-0.92	5.73	1.43	0.87	0.62	-52.91	
7,660.00	1.49	185.54	7,659.10	-2.14	5.57	2.64	0.59	0.57	-7.62	
7,689.00	1.35	195.06	7,688.09	-2.85	5.45	3.33	0.94	-0.48	32.83	
7,720.00	2.40	180.36	7,719.08	-3.85	5.35	4.32	3.70	3.39	-47.42	
7,752.00	4.88	168.61	7,751.01	-5.86	5.61	6.34	8.05	7.75	-36.72	
7,784.00	7.10	162.84	7,782.83	-9.08	6.47	9.63	7.18	6.94	-18.03	
7,816.00	9.69	157.42	7,814.49	-13.46	8.08	14.13	8.45	8.09	-16.94	
7,847.00	12.20	155.76	7,844.92	-18.85	10.43	19.72	8.16	8.10	-5.35	



**Weatherford International Ltd.**  
Survey Report



**Company:** NEWFIELD EXPLORATION CO.  
**Project:** DUCHESNE COUNTY, UT  
**Site:** LARSEN 2-29-3-2WH  
**Well:** LARSEN 2-29-3-2WH  
**Wellbore:** LARSEN 2-29-3-2WH  
**Design:** LARSEN 2-29-3-2WH

**Local Co-ordinate Reference:** Well LARSEN 2-29-3-2WH  
**TVD Reference:** WELL @ 5190.00ft (PIONEER 68)  
**MD Reference:** WELL @ 5190.00ft (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)
7,879.00	14.91	154.75	7,876.03	-25.66	13.57	26.78	8.50	8.47	-3.16
7,911.00	17.58	155.43	7,906.75	-33.78	17.34	35.21	8.36	8.34	2.13
7,942.00	19.36	155.17	7,936.15	-42.70	21.45	44.47	5.75	5.74	-0.84
7,974.00	22.15	155.07	7,966.07	-52.99	26.22	55.14	8.72	8.72	-0.31
8,005.00	24.81	156.69	7,994.50	-64.26	31.25	66.83	8.83	8.58	5.23
8,037.00	27.46	157.85	8,023.23	-77.27	36.69	80.27	8.43	8.28	3.63
8,101.00	32.81	157.90	8,078.56	-107.02	48.79	110.99	8.36	8.36	0.08
8,132.00	36.00	157.90	8,104.13	-123.25	55.38	127.75	10.29	10.29	0.00
8,164.00	39.06	158.12	8,129.51	-141.32	62.68	146.41	9.57	9.56	0.69
8,196.00	42.34	158.42	8,153.76	-160.70	70.40	166.41	10.27	10.25	0.94
8,227.00	45.66	158.23	8,176.06	-180.71	78.35	187.05	10.72	10.71	-0.61
8,259.00	49.50	156.58	8,197.64	-202.51	87.44	209.58	12.59	12.00	-5.16
8,290.00	53.26	156.35	8,216.99	-224.71	97.11	232.57	12.14	12.13	-0.74
8,322.00	58.00	156.48	8,235.05	-248.91	107.67	257.62	14.82	14.81	0.41
8,353.00	62.61	156.75	8,250.40	-273.62	118.36	283.20	14.89	14.87	0.87
8,385.00	68.08	156.69	8,263.74	-300.33	129.85	310.83	17.09	17.09	-0.19
8,416.00	73.11	157.22	8,274.04	-327.23	141.29	338.65	16.31	16.23	1.71
8,448.00	78.24	158.72	8,281.96	-355.96	152.91	368.32	16.66	16.03	4.69
8,481.00	82.93	161.12	8,287.35	-386.53	164.08	399.77	15.92	14.21	7.27
8,498.00	85.80	161.59	8,289.02	-402.56	169.48	416.22	17.11	16.88	2.76
8,589.00	93.64	168.21	8,289.47	-490.30	193.16	505.74	11.27	8.62	7.27
8,621.00	93.89	167.78	8,287.37	-521.53	199.80	537.44	1.55	0.78	-1.34
8,653.00	94.51	167.71	8,285.02	-552.71	206.57	569.12	1.95	1.94	-0.22
8,684.00	95.56	168.87	8,282.30	-582.95	212.84	599.79	5.04	3.39	3.74
8,716.00	94.88	168.44	8,279.39	-614.20	219.11	631.48	2.51	-2.13	-1.34
8,748.00	93.96	168.24	8,276.92	-645.44	225.56	663.18	2.94	-2.88	-0.63
8,780.00	94.14	168.18	8,274.66	-676.69	232.08	694.89	0.59	0.56	-0.19
8,812.00	94.45	168.98	8,272.27	-707.97	238.40	726.61	2.67	0.97	2.50
8,843.00	94.95	169.60	8,269.73	-738.32	244.14	757.36	2.56	1.61	2.00
8,875.00	91.91	171.38	8,267.81	-769.82	249.41	789.21	11.00	-9.50	5.56
8,907.00	90.74	171.55	8,267.07	-801.46	254.16	821.14	3.69	-3.66	0.53
8,938.00	91.60	172.85	8,266.44	-832.17	258.37	852.10	5.03	2.77	4.19
8,969.00	91.79	173.99	8,265.52	-862.95	261.92	883.08	3.73	0.61	3.68
9,001.00	90.06	174.58	8,265.01	-894.78	265.10	915.07	5.71	-5.41	1.84
9,033.00	88.52	175.07	8,265.40	-926.65	267.99	947.07	5.05	-4.81	1.53
9,064.00	87.88	174.71	8,266.38	-957.51	270.75	978.05	2.37	-2.06	-1.16
9,096.00	88.89	174.31	8,267.28	-989.35	273.81	1,010.04	3.39	3.16	-1.25
9,128.00	89.82	172.41	8,267.64	-1,021.13	277.51	1,042.03	6.61	2.91	-5.94
9,160.00	88.52	171.79	8,268.10	-1,052.82	281.91	1,073.99	4.50	-4.06	-1.94
9,191.00	89.82	171.45	8,268.55	-1,083.49	286.43	1,104.93	4.33	4.19	-1.10
9,223.00	93.40	172.57	8,267.65	-1,115.16	290.87	1,136.88	11.72	11.19	3.50
9,255.00	92.84	172.25	8,265.91	-1,146.83	295.09	1,168.80	2.01	-1.75	-1.00
9,318.00	91.97	172.33	8,263.27	-1,209.21	303.54	1,231.68	1.39	-1.38	0.13
9,381.00	91.98	172.23	8,261.10	-1,271.60	311.99	1,294.58	0.16	0.02	-0.16
9,445.00	91.17	172.98	8,259.34	-1,335.04	320.23	1,358.51	1.72	-1.27	1.17
9,508.00	90.62	172.95	8,258.35	-1,397.56	327.94	1,421.47	0.87	-0.87	-0.05
9,571.00	91.54	174.02	8,257.17	-1,460.14	335.09	1,484.44	2.24	1.46	1.70
9,635.00	92.22	172.77	8,255.07	-1,523.68	342.45	1,548.38	2.22	1.06	-1.95
9,698.00	92.72	172.20	8,252.35	-1,586.08	350.68	1,611.27	1.20	0.79	-0.90
9,762.00	93.03	171.26	8,249.14	-1,649.33	359.87	1,675.10	1.54	0.48	-1.47
9,825.00	93.08	171.50	8,245.78	-1,711.53	369.30	1,737.90	0.39	0.08	0.38
9,888.00	92.53	169.89	8,242.70	-1,773.63	379.48	1,800.66	2.70	-0.87	-2.56
9,951.00	93.44	170.48	8,239.42	-1,835.62	390.20	1,863.36	1.72	1.44	0.94
10,015.00	92.96	169.16	8,235.85	-1,898.51	401.49	1,927.02	2.19	-0.75	-2.06



**Weatherford International Ltd.**  
Survey Report



**Company:** NEWFIELD EXPLORATION CO.  
**Project:** DUCHESNE COUNTY, UT  
**Site:** LARSEN 2-29-3-2WH  
**Well:** LARSEN 2-29-3-2WH  
**Wellbore:** LARSEN 2-29-3-2WH  
**Design:** LARSEN 2-29-3-2WH

**Local Co-ordinate Reference:** Well LARSEN 2-29-3-2WH  
**TVD Reference:** WELL @ 5190.00ft (PIONEER 68)  
**MD Reference:** WELL @ 5190.00ft (PIONEER 68)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

**Survey**

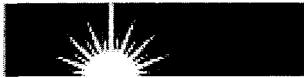
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,078.00	93.83	169.53	8,232.12	-1,960.32	413.12	1,989.62	1.50	1.38	0.59
10,141.00	93.33	170.83	8,228.18	-2,022.27	423.85	2,052.29	2.21	-0.79	2.06
10,204.00	93.09	171.90	8,224.65	-2,084.46	433.29	2,115.08	1.74	-0.38	1.70
10,268.00	93.03	172.11	8,221.24	-2,147.75	442.18	2,178.91	0.34	-0.09	0.33
10,331.00	92.71	171.13	8,218.08	-2,209.99	451.35	2,241.73	1.63	-0.51	-1.56
10,394.00	92.96	171.98	8,214.97	-2,272.23	460.59	2,304.55	1.40	0.40	1.35
10,458.00	92.53	169.66	8,211.90	-2,335.34	470.79	2,368.32	3.68	-0.67	-3.63
10,521.00	93.26	168.54	8,208.72	-2,397.12	482.68	2,430.92	2.12	1.16	-1.78
10,584.00	91.54	167.66	8,206.08	-2,458.71	495.66	2,493.43	3.07	-2.73	-1.40
10,664.00	91.67	170.30	8,203.84	-2,537.20	510.95	2,572.98	3.30	0.16	3.30
10,728.00	91.30	175.53	8,202.18	-2,600.67	518.84	2,636.90	8.19	-0.58	8.17
10,791.00	91.97	179.88	8,200.38	-2,663.57	521.36	2,699.78	6.98	1.06	6.90
10,854.00	91.42	182.18	8,198.52	-2,726.53	520.23	2,762.38	3.75	-0.87	3.65
10,918.00	91.67	185.33	8,196.79	-2,790.36	516.04	2,825.57	4.94	0.39	4.92
10,981.00	90.86	187.17	8,195.40	-2,852.97	509.18	2,887.30	3.19	-1.29	2.92
11,045.00	91.15	187.23	8,194.28	-2,916.46	501.16	2,949.80	0.46	0.45	0.09
11,108.00	91.05	188.40	8,193.07	-2,978.86	492.60	3,011.18	1.86	-0.16	1.86
11,172.00	92.04	189.43	8,191.34	-3,042.06	482.68	3,073.22	2.23	1.55	1.61
11,235.00	91.60	188.77	8,189.34	-3,104.23	472.72	3,134.25	1.26	-0.70	-1.05
11,298.00	92.53	189.23	8,187.07	-3,166.42	462.87	3,195.29	1.65	1.48	0.73
11,362.00	91.91	189.39	8,184.59	-3,229.53	452.53	3,257.20	1.00	-0.97	0.25
11,425.00	92.53	190.91	8,182.15	-3,291.49	441.43	3,317.91	2.60	0.98	2.41
11,488.00	92.90	191.41	8,179.17	-3,353.23	429.25	3,378.30	0.99	0.59	0.79
11,552.00	91.91	192.11	8,176.48	-3,415.83	416.22	3,439.47	1.89	-1.55	1.09
11,614.00	92.20	193.40	8,174.26	-3,476.26	402.54	3,498.41	2.13	0.47	2.08
11,678.00	91.67	193.30	8,172.10	-3,538.50	387.77	3,559.06	0.84	-0.83	-0.16
<b>LAST SVY</b>									
11,740.00	91.30	193.61	8,170.49	-3,598.77	373.35	3,617.79	0.78	-0.60	0.50
<b>PROJ SVY - PBHL LARSEN 2-29-3-2WH - PBHL2 - LARSON #2-29-3-2W</b>									
11,800.00	91.30	193.61	8,169.13	-3,657.07	359.24	3,674.57	0.00	0.00	0.00

**Survey Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
11,740.00	8,170.49	-3,598.77	373.35	LAST SVY
11,800.00	8,169.13	-3,657.07	359.24	PROJ SVY

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

# NEWFIELD



Project: DUCHESNE COUNTY, UT  
 Site: LARSEN 2-29-3-2WH  
 Well: LARSEN 2-29-3-2WH  
 Wellbore: LARSEN 2-29-3-2WH  
 Design: LARSEN 2-29-3-2WH  
 Latitude: 40° 11' 51.428 N  
 Longitude: 110° 7' 55.229 W  
 GL: 5172.00  
 KB: WELL @ 5190.00ft (PIONEER 68)



# Weatherford

### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL2 - LARSON #2-29-3-2W	8148.00	-3660.74	332.05	40° 11' 15.250 N	110° 7' 50.950 W	Point

### WELL DETAILS: LARSEN 2-29-3-2WH

+N/-S	+E/-W	Northring	Ground Level: Easting	5172.00 Latitude	Longitude	Slot
0.00	0.00	7243630.38	2022524.37	40° 11' 51.428 N	110° 7' 55.229 W	

### SECTION DETAILS

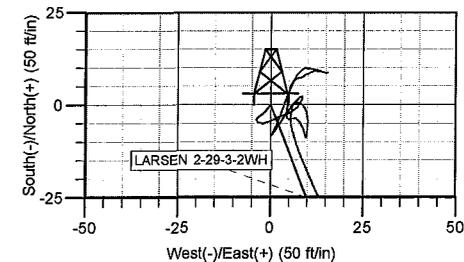
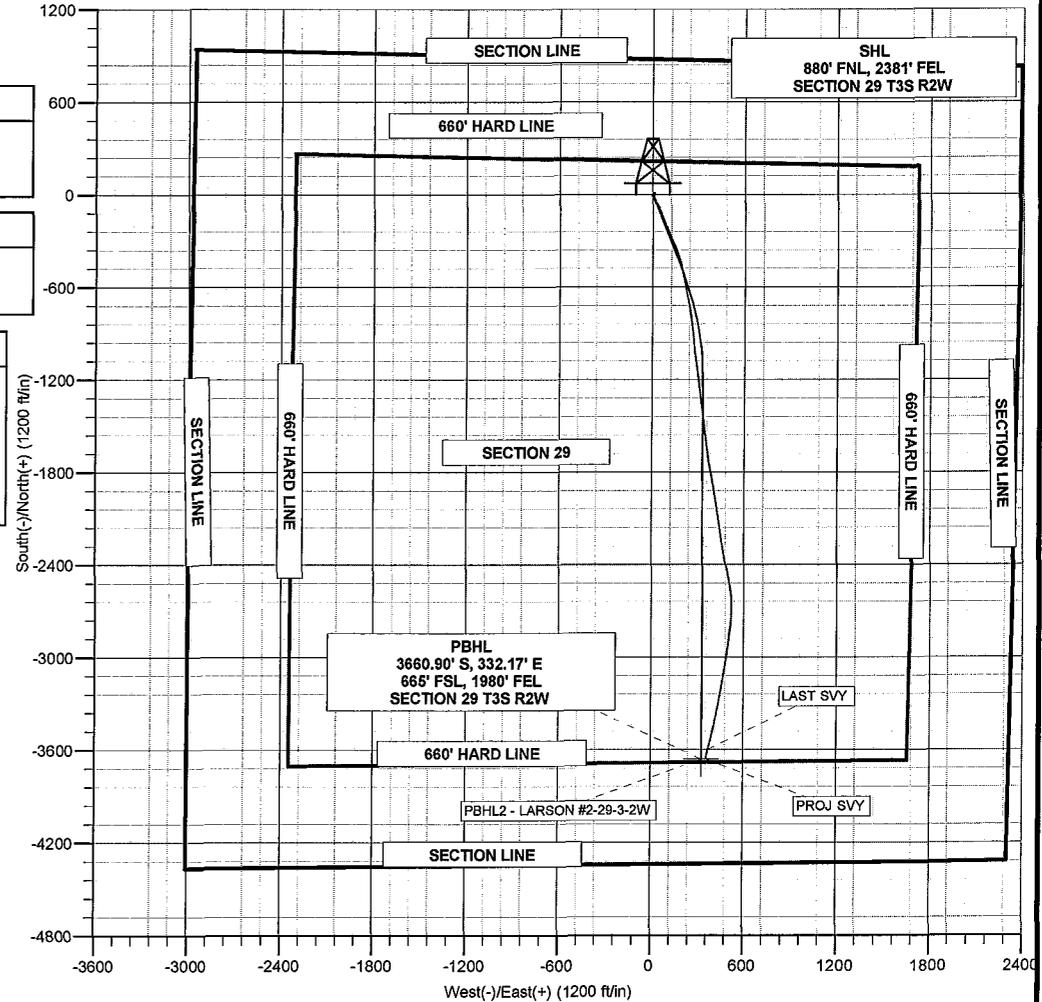
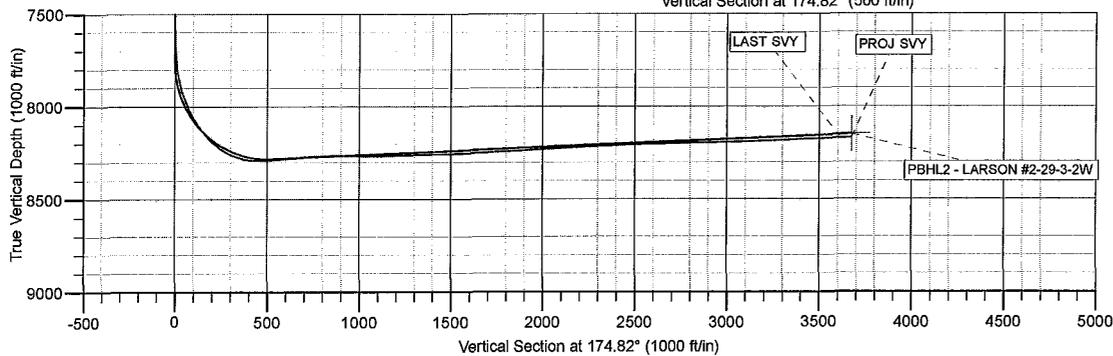
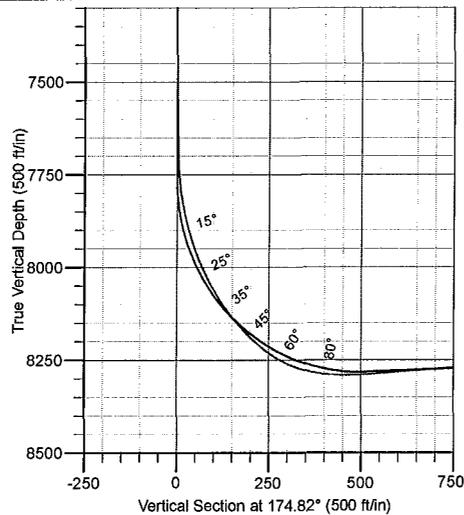
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7762.05	0.00	0.00	7762.05	0.00	0.00	0.00	0.00	0.00	Start Build 11.00
8602.20	92.42	158.55	8282.46	-505.23	198.51	11.00	158.55	521.10	Start DLS 3.00 TFO 89.53
9315.39	92.42	179.97	8252.00	-1201.22	330.55	3.00	89.53	1226.17	Start 2461.72 hold at 9315.39 MD
11777.11	92.42	179.97	8148.00	-3660.74	332.05	0.00	0.00	3675.77	TD at 11777.11



Azimuths to True North  
 Magnetic North: 11.28°  
 Magnetic Field  
 Strength: 52192.2snT  
 Dip Angle: 65.86°  
 Date: 6/5/2012  
 Model: BGGM2011

### CASING DETAILS

TVD	MD	Name	Size
8282.46	8602.20	7"	7"



Survey: Survey #1 (LARSEN 2-29-3-2WH/LARSEN 2-29-3-2WH)

Created By: TRACY WILLIAMS Date: 9:39, June 22 2012

**Daily A****Form****LARSEL****7/1/2012****7/1/2012 Day: 3**

Nabors #1423 on 7/1/2012 - RIH with 4.5" dummy CBP and 3-3' x 3 1/8" perf guns. Check en annulars and 7 1/16" BOP's. Begin NU and prepare to test well control as soon as we get 4.5" due to equipment has been on other wells and had to be serviced. - The Perforators on location x 3 1/8" perf guns. Open well with 0 psi and RIH. Went thru QN profile at 7,643' with no conce WOR.

**Daily Cost:** \$0**Cumulative Cost:** \$39,589

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**7/2/2012 Day: 4**

Nabors #1423 on 7/2/2012 - Install 4.5" rams in 7 1/16" BOP's. Install 4.5" tbg hanger with 2 csg crew equipment and get prepared for service. - Weatherford test unit RDMO. Well is secure and 10,000 psi high. 4.5" csg on location, unload on pipe racks for a.m. RIH. - Conduct PJSM, joints and 4.5" tbg hanger. RI well control stack and land in tbg head. - Conduct PJSM, begin t MIRU flow control equipment. Csg crew MIRU and prepare equipment for service.

**Daily Cost:** \$0**Cumulative Cost:** \$48,612

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**7/3/2012 Day: 5**

Nabors #1423 on 7/3/2012 - Run Baker seal assy and 4.5" 13.5# csg in hole. - RD test unit, c 20 psi leak off in 30 min. Good test. - Conduct PJSM, prepare equipment for service. Clean, tal RIH. - 175 joints of 4.5" csg picked up @ 7,434'. Up weight is 96,000. Down weight is 94,000. side to 1,000 psi for 5 min. to ensure the seals are in. Lay down two joints for space out. No si RD circulating equipment. PU joint 179 and break collar off and make up hanger. PU two 8' sut

**Daily Cost:** \$0**Cumulative Cost:** \$102,997

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**7/4/2012 Day: 6**

Nabors #1423 on 7/4/2012 - RIH with 3.775" flapper style junk basket, RIH w/ QX Running Tool Prong & set into QX Lock Mandrel. Pressure up annulus to 3K and test 4.5" to 9,900 psi. - Con 7,657'. (SLM) POOH and lay down. PU and RIH w/QX Running Tool & QX Lock Mandrel & set Q S/L to set plug assembly prong. 8:00 pm - plug assembly prong in place. POOH with S/L. 8:25 9,900 psi and monitor pressure X's 30 min. 9:17 pm - 4.5" csg tested to 9,900 psi. X's 30 min 9:20 pm - open well & gih with S/L and Weatherford 4" GS pulling tool to retrieve plug assem with S/L & plug assembly prong. 10:22 pm - GBIH wih S/L and 3 5/8" GS retrieving tool to rer released dogs. POOH with S/L. 11:35 pm - OOH with Weatherford plug. Secured well & R/D S/ equipment for service. - Stand by for Superior slick line to arrive on location. - Conduct PJSM, S

**Daily Cost:** \$0**Cumulative Cost:** \$134,145

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**7/5/2012 Day: 7**

Rigless on 7/5/2012 - RDMO Nabors WOR. ND 7 1/16" annulars and BOP's. Cameron install 2 way stack and test. MIRU HES Hydraulic Frac equipment. - Halliburton Hydraulic Fracture Equipment have been treated with Biocide and Bleach. HES will be RTP at 07:00. MI Pure Energy WL at tire check out of hanger and test seal. - Conduct PJSM, Prepare equipment for service. WOR comes install 2 way check in hanger and continue to ND remaining 7 1/16" flow cross and and valve. location and repairs made. Down for 2 hrs. - Weatherford and Cameron personnel NU 4 1/16" F hydraulic frac valve. 10K 4 1/16" Manual Frac valve. 10K 4-1/16" flowcross with dual, double 2 PJSM, MIRU HES Hydraulic Frac equipment.

**Daily Cost:** \$0

**Cumulative Cost:** \$147,177

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### 7/6/2012 Day: 8

Rigless on 7/6/2012 - Start treatment on the Uteland Butte. Wasatch - 7:00 p.m. - CUDD 2" CT report. R/U TTS sand hopper. - Conduct PJSM, HES continue to prepare equipment for service. work all issues out. - Conduct PJSM, Start stage #1 Hydraulic Frac on the Uteland Butte. SICP: injection @ 4095 psi @ 5.1 bpm. Shortly after starting in to pad, could not keep suction on bleed to drop rate and let catch back up. Extended sweep until blender lined out Lost pump during sweep throughout stage trying to keep them in gear. Second 1.25 30/50 stage hit formation and pressure the 30/50 sand, dropping rate throughout flush, but pressured out with 1300 lbs of 100 mesh pressuring out after 50 bbls. - Made decision to MI CTU for clean out and abrasive perforate stage

**Daily Cost:** \$0

**Cumulative Cost:** \$161,730

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### 7/7/2012 Day: 9

Rigless on 7/7/2012 - Complete CT RU and test. RIH for clean out and abrasive perforate stage down 50' to 11,335'. Decision made to cripple pump to help with friction. One side of the pump decreased from 3,000 psi to 1,800 psi & circulating pressure increased from 3,500 psi to 4,600 psi for bottoms up. - 8:50 p.m. - Completed pumping full bottoms up. Returns are clean. 8:55 p.m. - abrasive perforator on depth of bottom perforation @ 11,602'. 9:15 p.m. - Ball on seat the BOP 6,000 psi to 8,000 @ 3 bpm when tool shifted. Brought rate down to 2 bpm @ 7,000 psi & started (11,511'-09'). - N/U BOP stack onto well. R/U pump iron & injector. 2:30 a.m. - Continue test connector to 25,000# & pressure test connector to 2,500 psi. 3:30 a.m. - P/U injector & M tested as per procedure 250 psi low test X's 5 min & 8,000 psi high test X's 10 min. Remove iron Type CT connector 2.88" OD, 1.38" ID, 1.64" Long; Dual BPV 2.88" OD, 1.00" ID, 1.41" Long @ 125 deg. Phasing 3.50" OD, 0.53" ID, 3.55" Long; High Velocity Wash Nozzle 2.88" OD, 0.7" upper, lower strippers & break in stack. - All testing completed. Conduct PJSM, Open well SICP and then increasing circulating rate to 2.5 bpm at 6,500 psi. Started washing sand at 9,625' depth to the TOL at 7,642'.

**Daily Cost:** \$0

**Cumulative Cost:** \$259,583

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### 7/8/2012 Day: 10

Rigless on 7/8/2012 - Complete C/O from CT abrasive perforating Stage #2 run. R/D CTU & Return up & all testing completed. Held PJSM. 10:20 p.m. - Start Stage 2 Frac 11:00 p.m. - With 1.4 when 1.25 30/50 hit formation pressure increased instantly 7,700 psi to 9,498 psi. Rate was decreased to 9,480 psi. S/D pumps. Spoke with Marc Barella and decision made to open well to a 24/64 choke, return rate 5 bpm. 12:00 a.m. - At time of report well flowing back to flow tank Frac. 8:00 p.m. - CUDD CTU R/D completed. HES continue to R/U pump iron to H.F tree. - 12: continue pumping. Start POOH to TOL @ 7,642' @ 45 bpm while working on fluid pump. W/H to POOH to TOL (7,642') monitoring wt & pressures. 2:15 a.m. - CT depth @ 7,525', which is

rate 2.2 bpm. Pumping 130 bbl bottoms up @ this depth. While POOH thru lateral CT string wt W/H @ 800 psi. This continued until 8,290' (53 deg. Incl) at which point W/H increased back to sand hopper boosting it fluid. CUDD CT fluid pump is unable to use mixing tanks for sweeps continue pumping bottoms up from 7,525'. Pump rate 2 bpm, return rate 2 bpm. 4 1/2" csg pump. Placed 5/8" ball inside reel & pump thru coil to shift BHA from abrasive perforator back 9,000 psi., S/D pump. 6:03 a.m. Brought pump back on line @ 2 bpm circulating pressure @ to wash back thru Stage 2 perforations down to 11,700'. Pump sweep to TOL at 7,642'. PU and returns. Pump rate 2 bpm, return rate 2 bpm, 4 1/2" csg pressure 3,000 psi. Depth 7,525'. Returns are clean. S/D current CUDD fluid pump. SI well @ choke with 3,100 psi on 4 1/2" CSG repairs. 4:10 a.m. Pump which needs repair is off location & replacement pump is in place & pressure 250 psi low test & 8,000 psi high test. 4:49 a.m. Good test. Open well @ choke, maintaining bbls of fluid with FR mixed to bring circulating pressure down before pumping 5/8" ball in coil. with max pressure of 4,565 psi. Pumped 45 total bbls. ISIP: 4,565 psi. 5 min: 3,375 psi. 10 Mi

**Daily Cost:** \$0

**Cumulative Cost:** \$373,369

### 7/9/2012 Day: 11

Rigless on 7/9/2012 - Cudd CTU make C/O run after stage #2 screen out. PIT. - 6:30 p.m. - @ OOH. 4 1/2" csg 2,500 psi. 10:30 p.m. Brought OOH with coil tubing. SICP 2,000 psi, Held S/m to disc 3,929 psi (Pumped 10 bbls @ 4 bpm) 6 bpm @ 4,800 psi (Pumped 20 bbls @ 6 bpm) 8 bpm @ 5,400 psi during injection test. ISIP @ 5,400 psi, 5 min @ 3,953 psi, 10 min @ 3,718 psi, 15 min @ 3,579 psi. Conduct PJSM, Open well SICP: 3,500 psi. RIH with high Velocity wash nozzle circulating 3/4" B 20 bbl sweep to EOT. - Conduct PJSM, M/U TTS External Slip Type CT connector 2.88" OD, 1.3 M/U injector & lubricator onto BOP stack. M/U TTS BHA consisting of the following, External Slip Velocity Wash Nozzle 2.88" OD, 0.71" Long. 12:45 p.m. BHA made up. P/U injector & lubricator started seeing heavy sand back in returns for approx. 1 minute then sand cleared to light to medium S/I well @ choke. 12:38 a.m. Brought pumps on line & attempted to establish injection rate. to 9,470 psi. S/D pumps and allow pressure to bleed off into formation. 12:47 a.m. Brought pumps on line @ 3.1 bpm pressure increased to 3,900 psi brought pumps back on line @ 3.1 bpm pressure increased to 9,400 psi pumped a total of 70 bbls into well. 1:20 a.m. Brought pumps on line @ 3,600 psi on well @ choke open well to flow back in returns @ a return rate of 2 bpm with trace sand in returns. 4 1/2" csg 1,700 psi. 2:50 a.m. returns on an 18/64" choke. 3:15 a.m. - 4 1/2" csg 450 psi, return rate 1.5 bpm, no sand, 158 CT pump and coil stack. 07:45 Called out TTS for BHA. - 4:40 a.m. Brought pumps on line @ pressure decreased to 400 psi within 1 minute. The choke was pinched back to a 26/64 and pressure @ 400 psi @ 2 bpm. S.I. well at choke & closed wing valves on flow cross. 5:00 a.m. frac pumps on line @ 11.6 bpm Pressure increased to 9,000 psi and we dropped 1 pump bringing rate to 3.2 bpm @ pressure continued to increase to 9,400 psi and the remaining pump well. 4 1/2" csg pressure has increased to 1,900 psi. Brought pump on line @ 2 bpm & walked 4th attempt to establish injection rate. 3:29 p.m. Brought pump on line @ 4 1/2" csg pressure has decreased S/D pumps. @ 3.2 bpm pumps kicked out when pressure reached 9,500 psi. pumped 51 bbls @ csg pressure has decreased to 3,760 psi. Brought pump on line @ 3 bpm to attempt to establish injection rate. pumped 11 bbls before pumps kicked out on the 6th attempt to establish an injection rate

**Daily Cost:** \$0

**Cumulative Cost:** \$431,200

### 7/10/2012 Day: 12

Rigless on 7/10/2012 - Perforate and treat Wasatch stages 3 & 4 - Pumping Stage 4 frac @ tir rate of 8.0 bpm @ 3,686 Psi. Set plug @ 11,284'. Perforate Stage 4 at 11,250'-53', 11,210'-13' POOH. All shots fired and drop ball. - 12:00 a.m. Brought S/M Start partial R/D of CTU. We will use MIRU Pure Energy W/L. - Held PJSM. RU WL for pump down. Test to 9,500 Psi. OK. RIH. Pump 23', 11,374'-77', 11,329'-32'. Final pressure of 3,686 psi & falling. 3-2 3/4" guns at 120 degree just informed me that he will be able to R/U W/L unit with CT wet kit still in RU. HES RU on we

9,650 psi, OK. Frac Wasatch stage 3 as follows: Break down 18 bpm @ 6,937 psi. Avg rate: 47 MIN: 4,061 PSI, 10 MIN: 3,993 PSI, 15 MIN: 3,961 PSI. Total 30/50: 18,300 lbs, Total 100 Mesh down.

**Daily Cost:** \$0

**Cumulative Cost:** \$657,268

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### 7/11/2012 Day: 13

Rigless on 7/11/2012 - Perforate and Treat the Wasatch formation - Held PJSM. RU WL for pump @ 10,917'. Perforate Stage 6 at 10,872'-75', 10,827'-30', 10,782'-85'. Final pressure of 3,838 Location Safety Mtg. Prime pumps and test lines to 9,600 psi, OK. Frac Wasatch stage 5 as follows: press: 8,929 Psi. FG.0.789, ISIP: 3,918 PSI, 5 MIN: 3,698 PSI, 10 MIN: 3,673 PSI, 15 MIN: 3, to recover 6,253 bbls. Including 153 BBL pump down. - Held PJSM. RU WL for pump down. Test Perforate Stage 5 at 11,056'-59', 11,009'-12', 10,963'-66'. Final pressure of 4283 psi & falling. Mtg. Prime pumps and test lines to 9,600 psi, OK. Frac Wasatch stage 6 as follows: Break down Psi. FG.0.N/A, ISIP: N/A PSI, 5 MIN: n/a PSI, 10 MIN: n/a PSI, 15 MIN: n/a PSI, Total 30/50: Including 142 BBL pump down. Pressured out in stage #30. Flowed well 65 bbls with 47 pump plus 75 bbls. Total of 233 bbls flushed. - Standby on HES Blender to arrive location on. - Location frac all stages on the pump schedule but one have been completed with 16,400 lbs in the hole Halliburton's blender failed during the stage and are currently picking up another blender from with max pump rate of 8.0 bpm @ 5,324 Psi. Set plug @ 10,737'. Perforate Stage 7 at 10,656' spf, 27 holes. POOH. All shots fired and drop ball. - Location Safety Mtg. Prime pumps and test 52.8 bpm, Avg press: 7,854 psi, Max rate: 53.4 bpm, Max press: 9,283 Psi. FG.0.853, ISIP: 4, Total 30/50: 19,900 lbs, Total 100 Mesh: 4,400 lbs. Gal acid 924, Avg HHP: 10,013. Total load 30/50) of 30 stages on the pump schedule. Open well to flow tank & flow well to flow tank for to flow tank again & this time flowed back 450 bbls (2.7 csg volumes) @ 6 bpm maintaining 2, pumps back on line in 5 bpm increments until 20 bpm achieved and pumped 332 bbls (2 csg v

**Daily Cost:** \$0

**Cumulative Cost:** \$945,139

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### 7/12/2012 Day: 14

Rigless on 7/12/2012 - Hydraulic Fracture Stages 8,9 & 10 - - 10:00 p.m. - Location Safety Mtg pressure increased to 9,523 psi. Started decreasing rate until 3 bpm was reached with csg pressure tank which is 1.3 wellbore volumes. During flow back at after 100 bbls back in returns there were wing valves & brought pumps back on line. Pumped 41 bbls & pressured out @ 9,450 psi. 11:4 pumped down ball. Pumped acid. Found a hydraulic leak on the gel pro unit and spotted acid in hydraulic hose with hose on location two times. Both hoses blew. Waiting on hoses. 22:00 Was start the frac. - Held PJSM. RU WL for pump down. Test to 9,500 Psi. OK. RIH. Pump down with 10,112'-15', 10,107'-10'. Final pressure of 3,842 psi & falling. 3-2 3/4" guns at 120 degrees, 3 and test lines to 9,600 psi, OK. Hydraulic Frac the Wasatch stage #9 as follows: Break down N Psi. First S/D FG. 0.924, ISIP 4,000 psi, 5 min - 3,959 psi, 10 min - 3,918 psi, 15 min - 3,889 30/50: 33,000 lbs, Total 100 Mesh: 6,800 lbs. Gal acid 924, Avg HHP: 7,116. Total load to recc location. 2:10 a.m. - Blender arrived on location. R/U blender. 3:55 a.m. - Blender R/U completed 10 bpm with pressure leveled out at 6,430 psi. - Held PJSM. RU WL for pump down. Test to 9, down due to well pressure out. We got down to 9,298 psi and needed to get to 10,382 psi. Made set guns to flow well back and re-flush to lower well pressure. - Location Safety Mtg. Prime pumps @ N/A psi. Avg rate: 57.3 bpm, Avg press: 6,887 psi, Max rate: 65.5 bpm, Max press: 9,283 Psi S/D FG. 0.946, ISIP: 4,183 PSI, 5 MIN: 3,988 PSI, 10 MIN: 3,968 PSI, 15 MIN: 3,952 PSI, Total 3761 bbls. Including 151 BBL pump down. - Held PJSM. RU WL for pump down. Test to 9,500 Psi Stage 8 at 10,484'-87', 10,475'-78', 10,470'-73'. Final pressure of 3,850 psi & falling. 3-2 3/4" Safety Mtg. Prime pumps and test lines to 9,600 psi, OK. Continue with Stage #7 Frac Wasatch 56.6 bpm, Max press: 8,927 Psi. First S/D FG. 0.946, ISIP 4,180 psi, 5 min - 3,979 psi, 10 min PSI, 15 MIN: 3,971 PSI, Total 30/50: 12,300 lbs, Total 100 Mesh: 6,000 lbs. Gal acid 924, Avg

pump down. Test to 9,500 Psi. OK. RIH. Pump down with max pump rate of 8.8 bpm @ 6,765 3,960 psi & falling. 3-2 3/4" guns at 120 degrees, 3 spf, 27 holes. 151 bbls pump. POOH. All s

**Daily Cost:** \$0

**Cumulative Cost:** \$1,309,453

### 7/13/2012 Day: 15

Rigless on 7/13/2012 - Continue with Hydraulic Fracture Operations - Switching out blender ur Prime pumps and test lines to 9,600 psi, OK. After pumping first stage of 100 mesh the blende blender and bring in new blender unit. - Held PJSM. RU WL for pump down. Test to 9,500 Psi. 13 at 9,582'-85', 9,570'-73', 9,565'-68'. Final pressure of 3,985 psi & falling. 3-2 3/4" guns at Mtg. Prime pumps and test lines to 9,600 psi, OK. Frac the Wasatch stage #12 as follows: Break press: 8,863 Psi. First S/D FG. 0.943, ISIP 4,158 psi, 5 min - 4,008 psi, 10 min - 3,964 psi, 15 3,993 PSI, Total 30/50: 21,991 lbs, Total 100 Mesh: 5,833 lbs. Gal acid 1,877, Avg HHP: 10,53 and test. - 1:00 a.m. - Secured well at wing valves on flow cross & bring pumps back on line. 10 Frac Hydraulic Frac the Wasatch stage #10 as follows: Break down N/A bpm @ N/A psi. Avg ISIP 4,107 psi, 5 min - 3,992 psi, 10 min - 3,958 psi, 15 min - 3,910 psi, Final S/D FG..986, IS 100 Mesh: 4,300 lbs. Gal acid 924, Avg HHP: 9,401. Total load to recover 2,432 bbls. Including max pump rate of 8.3 bpm @ 4,543 Psi. Set plug @ 9,848'. Perforate Stage 12 at 9,761'-64', 3 holes. 57 bbls pump. POOH. All shots fired and drop ball. - Location Safety Mtg. Prime pumps : Avg rate: 47.6 bpm, Avg press: 6,513 psi, Max rate: 56.6 bpm, Max press: 9,310 Psi. First S/D FG.N/A, ISIP: N/A PSI, 5 MIN: N/A PSI, 10 MIN: N/A PSI, 15 MIN: N/A PSI, Total 30/50: 19,10 57 BBL pump down. With stage 20 of 28 of the pump schedule (1 ppg 30/50 sand) on perforat Brought pumps back on line @ 5 bpm but could not get back into frac. Open well to flow tank : Re-flush at 23.8 bpm for 175 bbls. 10.0 bpm at 4,960 psi final PIT. - Waiting on parts to repair down. Test to 9,500 Psi. OK. RIH. Pump down with max pump rate of 8.0 bpm @ 5500 Psi. Set falling. 3-2 3/4" guns at 120 degrees, 3 spf, 27 holes. 150 bbls pump. POOH. All shots fired ar

**Daily Cost:** \$0

**Cumulative Cost:** \$1,346,018

### 7/14/2012 Day: 16

Rigless on 7/14/2012 - Frac stage 17 with one left - Location Safety Mtg. Prime pumps and tes rate: 49.7 bpm, Avg press: 6,373 psi, Max rate: 52.7 bpm, Max press: 8,348 Psi. First S/D FG ISIP: 4,179 PSI, 5 MIN: 4,020 PSI, 10 MIN: 4,003 PSI, 15 MIN: 3,990 PSI, Total 30/50: 41,79 Including 25 BBL pump down. - Held PJSM. RU WL for pump down. Test to 9,000 Psi. OK. RIH. 8,850'-53, 8,840'-43', 8,832'-35'. Final pressure of 3,746 psi & falling. 3-2 3/4" guns at 60 de pumps and test lines to 9,600 psi, OK. Frac the Wasatch stage #16 as follows: Break down 9.7 First S/D FG. 0.934, ISIP 4,081 psi, 5 min - 3,955 psi, 10 min - 3,930 psi, 15 min - 3,915 psi, 30/50: 47,600 lbs, Total 100 Mesh: 9,900 lbs. Gal acid 930, Avg HHP: 10,002. Total load to rec Psi. OK. RIH. Pump down with max pump rate of 8.0 bpm @ 4,267 Psi. Set plug @ 9,124'. Per at 60 degrees, 3 spf, 27 holes. 25 bbls pump. POOH. All shots fired and drop ball. - Location S down N/A bpm @ N/A psi. Avg rate: 49.8 bpm, Avg press: 6,263 psi, Max rate: 50.0 bpm, Ma 3,853 psi, Final S/D FG..936, ISIP: 4,104 PSI, 5 MIN: 4,004 PSI, 10 MIN: 3,979 PSI, 15 MIN: load to recover 3,841 bbls. Including 42 BBL pump down. - New blending unit in and new pum OK. Frac the Wasatch stage #14 as follows: Break down 16.6 bpm @ 4,670 psi. Avg rate: 50.1 psi, 5 min - 4,001 psi, 10 min - 3,951 psi, 15 min - 3,916 psi, Final S/D FG.N/A, ISIP: N/A PSI lbs. Gal acid 924, Avg HHP: 12,533. Total load to recover 2,977 bbls. Including 57 BBL pump c WL for pump down. Test to 9,000 Psi. OK. RIH. Pump down with max pump rate of 8.0 bpm @ of 3,948 psi & falling. 3-2 3/4" guns at 180 degrees, 3 spf, 27 holes. 35 bbls pump. POOH. All bbls. Returns showed heavy sand and then cleaned up. Flush wellbore and proceed with operat as follows: Break down N/A bpm @ N/A psi. Avg rate: 56.7 bpm, Avg press: 7,585 psi, Max ra 3,984 psi, 15 min - 3,949 psi, Final S/D FG.N/A, ISIP: N/A PSI, 5 MIN: N/A PSI, 10 MIN: N/A P 12,533. Total load to recover 2,977 bbls. Including 57 BBL pump down. With stage 20 of 28 of

psi. with 1500#s of sand left in the csg pressure started climbing and the rate was dropped un PJSM. RU WL for pump down. Test to 9,000 Psi. OK. RIH. Pump down with max pump rate of 7 pressure of 3,896 psi & falling. 3-2 3/4" guns at 180 degrees, 3 spf, 27 holes. 42 bbls pump. F

**Daily Cost:** \$0

**Cumulative Cost:** \$1,410,724

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**7/15/2012 Day: 17**

Rigless on 7/15/2012 - Finished up fracs. Set kill plugs. Rig down WLU and frac. - Testing cont hanger. ND frac Stack and NU control stack. - RD HES frac equipment and Pure Energy WL Uni RIH. Pump down with max pump rate of 10 bpm @ 4,947 Psi. Set plug @ 8,752'. Perforate Sta degrees, 3 spf, 27 holes. 25 bbls pump. POOH. All shots fired and drop ball. - Held PJSM. RU W Prime pumps and test lines to 9,600 psi, OK. Frac the Wasatch stage #18 as follows: Break do 7,988 Psi. First S/D FG. 0.932, ISIP 4,066 psi, 5 min - 3,991 psi, 10 min - 3,952 psi, 15 min - Total 30/50: 59,000 lbs, Total 100 Mesh: 9,000 lbs. Gal acid 924, Avg HHP: 7,618. Total load to Psi. RIH will CBP and set @ 7710' WLM. POOH. 0715 am: released pressure on kill plug and m

**Daily Cost:** \$0

**Cumulative Cost:** \$1,530,684

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**7/16/2012 Day: 18**

Rigless on 7/16/2012 - RU rig. - RU an ready to pull 4 1/2" frac string. Move pipe two feet. Wa flowing. Returns showed heavy sand. Shut in. Closed both pipe rams and called office. Waiting stack. - Mountain States WOR arrived on location spot up to well head. - Work on WOR electric

**Daily Cost:** \$0

**Cumulative Cost:** \$1,556,157

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**7/17/2012 Day: 19**

Rigless on 7/17/2012 - Wating on orders - Well head pressure 3150 psi. Waiting on orders. - V equipment to pull TWCV. 1130: made attempt to land hanger back in wellhead. Picked up with with very slight show of sand suspended in returns. Set back down in compression with about casing down. Lost about 1 ft while working casing.

**Daily Cost:** \$0

**Cumulative Cost:** \$1,605,449

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**7/18/2012 Day: 20**

Rigless on 7/18/2012 - Was able to pull pipe up. ND down stack to pipe rams - - ND bag. Hook Monitor well and 4.5" casing string. 4.5" annulus 3,150 psi. - 4.5" annulus 3,150 psi. 4.5" fr to get back in wellhead with hanger. 1015 am: Work frac string up to 90k pulled up 5" and wo movement back down hole. Continued to move pipe at 100k until no movement was observed. Clearing pipe rams by 2 ft. Decision made to strip annular BOP and flow cross off to pull TWCV

**Daily Cost:** \$0

**Cumulative Cost:** \$1,755,250

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**7/19/2012 Day: 21**

Rigless on 7/19/2012 - Pulled duel back pressure valve. Set Cast iron BP installed flow cross at Cameron and lubricated duel back pressure valve releasing tool. Stung in and equilized. 700 ps RD Cameron. Getting ready to spot WLU. - New spool here. Finish RU WLU. Tested lubricator t

wrong spool was ordered. New spool on the way. - RIH with 3.75" gauge ring and junk basket POOH with tools both shots fired. PU 4.5" CIBP and pressure test lubricator to 4500 psi. RIH w performed negative test for 30 min with no indication of plug leaking. RD Perforators and 4 1/1 operations. Nu 7 1/16" 10k flow cross and torque down.

**Daily Cost:** \$0

**Cumulative Cost:** \$1,795,607

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**7/20/2012 Day: 22**

Rigless on 7/20/2012 - landed hanger and rigged up snubbing unit. - Waiting on ram and or su and stripped the hanger through the stack. Laid down the landing joint. Took off the hanger. In bottle to start pulling out of the hole. - Testing. Have small issues with valve leak, equalizing ho surge bottle to help make the bags last longer. - Negatived test good. Pulled landing joint and RU Mountain States snubbing unit. - Finished NU bag. Rigged up Flow back and tested flowbac above the bag. Set the slips and closed the bag back and started testing bag. - Stripped in with Stripped hanger back out. Inspected hanger for marks. No marks seen. Open well to the retu Run in pins. Attempted to bleed off the stack. Hanger is not holding pressure. Cameron checke 13.5# casing. Pulling wieght of 43K to 30K to pull through the bag. Bag set at 650 psi. 1550' t body of the flow cross. 250 psi low and 4000 psi high. Good test. RU rig floor. Setting up to rei the seal and doped it up and stripped the hanger back in. Landed the hanger and run in the pi

**Daily Cost:** \$0

**Cumulative Cost:** \$1,954,416

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**7/21/2012 Day: 23**

Rigless on 7/21/2012 - Pull pipe. Shut down at dark. - Pulled two more joints and the threads . more adjustments to the rig and recentered the snubbing unit. Going to attemp to pull again. - do with drill pipe. Also discussed using a winch line to pull the pipe over but will have to wait for pulling of the rope. Removed the TIW valve and began pulling pipe. The first joint was fine. Th options. - Discussed with all personnel on location about best possible way to handle frac string snubbing out of hole with 89 jts in hole EOT @ 3,911'. Continue to have damaged threads. 115 rig company and he located more ram sets. He is bringing them out. I also talked with him abc changed out rams on the snubbing unit. Tested - Pulling 4 1/2" casing. Surge bottle for the bag through the snubbing units bag. Going ram to ram. Had to rearrange some items in the basket collars are being galled. Pins look fine. The blocks are to high when breaking the connections. company boss to show up on location to discuss options.

**Daily Cost:** \$0

**Cumulative Cost:** \$2,005,021

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**7/22/2012 Day: 24**

Rigless on 7/22/2012 - Out of the hole with csg. Swap out rams and test. - Testing rig rams, ri snubbing 4.5" frac string out of hole 179 jts. 7" Sicp - 3100 psi. Inspected 4.5" at surface. Saw with csg protruding out from perforating. Shot with 16 gram, .34" EHD and 22.87" penetrator operations. Until snubbing unit could not get jacks to push frac string back down to release slip snubbing unit. Tracked down problems with snubbing jacks and found screw that adjust pressu pressure and resumed operations.

**Daily Cost:** \$0

**Cumulative Cost:** \$2,064,132

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**7/23/2012 Day: 25**

Rigless on 7/23/2012 - RIH with Baker polish tool and dress linertop and polish bore. - RD pow minutes. Circulated 2 plus bottoms up. Returns were clean. No sand in the returns. Trace sand POOH laying down. - Lay down the tag joint and PU Power swivel. Picked up joint and made co 3200 psi on the casing. Pumped a thick sweep and went down for the tag. Made it all the way joint 243 we tagged up. 7620' MD. Rotating and circulating clean. - Continue to snub 2.375" 5 4 bpm CP -4,100 psi, WHP - 3100 psi. Have not seen any sand in returns yet. Run tubing in hc Layed jt down and rigged up power swivel. Tubing tally as follows 242 jts 2.375" 5.95# PH-6 = bottom rams on the snubbing unit and waiting for testser. Tested rams and going back to run dual back pressure valve, x-over, joint and 1.71 R nipple. With 40 joints in the hole we lost the unit not working. Tried to make repairs to valve and decided to change out with manual valve.

**Daily Cost:** \$0

**Cumulative Cost:** \$2,103,048

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### 7/24/2012 Day: 26

Rigless on 7/24/2012 - Pipe fell into the hole. Planning on fishing - Continue to POOH with tubi (2,748') and BHA (22.95') in hole total length of fish is 2,771.58'. Tubing at this point was stil operator error at this point. Did not find any failure of equipment. Currently getting fishing ass joints out of the hole. Lights went out on the rig. - Basic Hydraulic Laydown machine broke ch Weatherford yard. Still have 96 jts and BHA in hole with SICP @ 2,900 psi. Replaced Basic hydr location and RU on well. SICP @ 3,050 psi. - Held safety meeting with all personnel on location. happening again by being more cautious in operating of equipment and moving at slower pace tubing. - RIH with Fishing BHA. Overshot loaded 2 7/8" grapple with 2" stop 5.75" OD(3.60"). Cross over 3.13" OD(.66"). Dual back pressure valve 2.88" OD (1.41") Cross over 3.13" OD (. BHA total 18.73'. - POOH with 2.375" 5.95# PH-6 tubing. Have 149 jts out of hole EOT @ 3,0.

**Daily Cost:** \$0

**Cumulative Cost:** \$2,181,080

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### 7/25/2012 Day: 27

Rigless on 7/25/2012 - POOH with fish. - Rig crew changing out bag rubber. Waiting on orders test. Included is the BHA we will run in the hole with. - Tagged the fish @ 4863. Pick up and sl off the jars. Pulled to 40K and set off the jars. Dropped 20K and pick up and the wieght is 20K Cross-over 4.75" OD(1.16"). Cross-over 3.75" OD(1.03"). Super jars 3.13" OD(9.29" stroked (.97") Cross over 3.13" OD (.61") Pup joint 6.0". Joint of 2 3/8" pipe 32.00". R profile nipple : leaking stoping to repair. - POOH with Fishing tool assembly at surface discuss plan for strippir WLU and Rih with 1.66" OD GR&JB total length of 22.50' tool assembly. Run requested and sig POOH with Tool assembly and LD tools. 1345: Resume POOH with fish. Got tools to surface an top of liner also had markings on it where it hit top of liner. All tools out of hole. SICP - 2,900 |

**Daily Cost:** \$0

**Cumulative Cost:** \$2,208,068

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### 7/26/2012 Day: 28

Rigless on 7/26/2012 - RIH with Bit to clean out - RIH with 3.72" Junk mill concave (1.42"), cr of 2 3/8" PH-6 5.95# (31.46'), 1.71" R profile nipple(.98') 119 jts 2 3/8" 5.95# PH-6 (3745.07 circ @ 4 bpm Rec @ 4 bpm, WHP @ 3,300 psi, CP @ 4,200 psi, PU Wt @ 26k, SO Wt @ 24k. Circul. milling. 5:31 p.m. Plug # 1 gone and circ bottoms up with 10 bbl sweep. - Tagged CBP #2 at 1 bbl sweep. Circulated bottoms up. Returns are clean. Racked back the power swivel. - Tagged down slowly. - Removed riser and swapped out weatherford bag. Tested body and had leaks. 1 Drill out BHA. BHA 3.72" Junk mill concave (1.42"), cross-over 2.88" OD (.75") Dual back pre:

**Daily Cost:** \$0

**Cumulative Cost:** \$2,248,874

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**7/27/2012 Day: 29**

Rigless on 7/27/2012 - Drilled to CFP #12 - Resumed milling plugs. 5:30 pm: Tagged plug #9  
 pm: Tagged plug # 10 at 10,386' Begin milling plug. 6:25 pm Plug is gone. 3100psi at the well  
 now. PU Wt - 36k, SO Wt - 30k. No drag while moving pipe - Washed sand to CFP @ 8752' (01  
 started started down. Made it 8835'. Power swivel not working right. When PS is put into nutur  
 to finish circulating and switch out to Mountains power swivel. - Laying down swivel and PU ne  
 8,940' Begin milling plug. 7:42 am Plug gone, continue pushing to plug #3. 8:28 am : Tag Fra  
 Tag Frac Plug #4 at 9,306' Begin Milling plug. 10:57 am Plug gone, Continue pushing to plug #  
 28k, Torque - 1500 12:17 pm : Tag Frac Plug # 5 at 9,486' Begin milling plug. 12:32 pm Plug  
 plug. 1:25 pm plug gone, continue pushing to plug #7 Took 10 min. - 2:15 pm: tag Frac Plug  
 pm; Tag Frac plug #8 at 10,030' Begin milling plug. 3:33 pm plug gone, continue pushing to p  
 cleanup cycle. Pumping 4 bpm 4,400 psi, Rec - 3.5 bpm, PU Wt - 36k, SO Wt - 30k, Torque 15  
 cycle 4 bpm. Rec - 3.5 bpm, CP - 4200 psi, WHP - 2900 psi, PU Wt - 36k, SO Wt - 30k. No dra  
 Milled CFP 19:32 CFP gone. 22 mins. Drill time. Pumping 4 bpm at 4100 psi. 4 bpm returns at  
 @10,737' Milled CFP 20:50 CFP gone. 27 mins. Drill time. Pumping 4 bpm at 4400 psi. 4 bpm  
 #13 @ 10,917' Milled CFP 22:14 CFP gone. 22 mins. Drill time. Pumping 4 bpm at 4400 psi. 4  
 leaking on the 2.5 swivel. Going to stop and change out packing. - Could not get packing to ho  
 bottoms up.

**Daily Cost:** \$0**Cumulative Cost:** \$2,289,666

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**7/28/2012 Day: 30**

Rigless on 7/28/2012 - Drilled out and clean hole. POOH laying down. - 03:05 tagged CFP #14  
 at 1750#s. PU 29K / SO 28K. Moving down to next CFP. Had to adjust the stiff arms. 04:30 ta  
 2500 psi. Torque at 1600#s. PU 29K / SO 28K. Moving down to next CFP. 05:45 tagged CFP #  
 returns at 2500 psi. Torque at 1650#s. PU 30K / SO 28K. Going down to 11,744' PBD - Wait  
 down the rig crew PM the rig. EOT still at 4404' MD. - RD power swivel and start out of hole. Pl  
 bottom at 11,742'. With 374 jts in hole. 4 bpm, Rec - 4 bpm, CP - 4,400 psi, WHP - 2500 psi.  
 stiff arm getting hung up on the stiff baord on the derrick. - Circ hole at 4 bpm, Rec - 4 bpm,  
 clean. Going to swap out swivels.

**Daily Cost:** \$0**Cumulative Cost:** \$2,331,958

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**7/29/2012 Day: 31**

Rigless on 7/29/2012 - POOH with work string, Set pkr, run in production - Proformed a negati  
 high. Good test. - - Pulled 49 joint of tubing. We are pipe lite. Secure the well. EOT 2864'MD. S  
 truck and sent back in to their yard. Rigged down Mountain States snubbing unit and rig floor.  
 All tested good. RIH with 6.01 GR/JB to top of liner. POOH with tools. PU Baker 7" Hornet pack  
 nipple (2.205" ID) 2-7/8" 6.5" L-80 4' pup joint Burst disc rated for 10K differential facing dow  
 with WLU - Held pre-job JSA and going to finish pulling out of the hole from 2864' MD. LD BHA  
 mill at surface had max OD 3.7222 down to Min of 3.71 OD. - Shut down due to no snubbing a

**Daily Cost:** \$0**Cumulative Cost:** \$2,413,963

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**7/30/2012 Day: 32**

Rigless on 7/30/2012 - circulate packer fluid, Set packer w/ Production String and test all WH  
 pkr and unlatched pkr. Going to circulate pkr fluid around. - Circulating 240 bbl of pkr fluid anc

it. Removed the collar and installed hanger. PU up landing joint and landed the hanger 233 Joints follows: BAKER OIL TOOLS #20 E-4 WL Setting Tool - 6.28'L x 3.834" OD, DV WL Adapter Kit (L80/N80 2.875" 8RDEUE 4' Pup Jt. 4.10'L x 3.693"OD x 2.441"ID, N80 2.875 8RD EUE "XN" Pr ID, N80 2.875 8RD EUE WLEG w/ Plug Shear Value 1500 PSIG (2 Screws).85'L x 3.682"OD x 2 MIRU Weatherford to test annulus to 250 psi low and 5,000 psi high. RU Weatherford on production PSIG high for 5 minutes. Pulled TWCV and opened well to pump. Pumped off Burst disc @ 6400 production.

**Daily Cost:** \$0

**Cumulative Cost:** \$2,617,169

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**8/5/2012 Day: 33**

Rigless on 8/5/2012 - Capture final costs in DCR - Cost adjustments in DCR for non-captured costs

**Daily Cost:** \$0

**Cumulative Cost:** \$2,656,096

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**8/11/2012 Day: 34**

Rigless on 8/11/2012 - Capture costs in DCR - Western Waste Solutions Ticket #'s 13807,13810,13813,13801,13802,13795,13767,13782,13784,13791,13786,13788,13792,13794,13795,13796,13797,13798,13799,13800,13801,13802,13803,13804,13805,13806,13807,13808,13809,13810,13811,13812,13813,13814,13815,13816,13817,13818,13819,13820,13821,13822,13823,13824,13825,13826,13827,13828,13829,13830,13831,13832,13833,13834,13835,13836,13837,13838,13839,13840,13841,13842,13843,13844,13845,13846,13847,13848,13849,13850,13851,13852,13853,13854,13855,13856,13857,13858,13859,13860,13861,13862,13863,13864,13865,13866,13867,13868,13869,13870,13871,13872,13873,13874,13875,13876,13877,13878,13879,13880,13881,13882,13883,13884,13885,13886,13887,13888,13889,13890,13891,13892,13893,13894,13895,13896,13897,13898,13899,13900,13901,13902,13903,13904,13905,13906,13907,13908,13909,13910,13911,13912,13913,13914,13915,13916,13917,13918,13919,13920,13921,13922,13923,13924,13925,13926,13927,13928,13929,13930,13931,13932,13933,13934,13935,13936,13937,13938,13939,13940,13941,13942,13943,13944,13945,13946,13947,13948,13949,13950,13951,13952,13953,13954,13955,13956,13957,13958,13959,13960,13961,13962,13963,13964,13965,13966,13967,13968,13969,13970,13971,13972,13973,13974,13975,13976,13977,13978,13979,13980,13981,13982,13983,13984,13985,13986,13987,13988,13989,13990,13991,13992,13993,13994,13995,13996,13997,13998,13999,14000,14001,14002,14003,14004,14005,14006,14007,14008,14009,14010,14011,14012,14013,14014,14015,14016,14017,14018,14019,14020,14021,14022,14023,14024,14025,14026,14027,14028,14029,14030,14031,14032,14033,14034,14035,14036,14037,14038,14039,14040,14041,14042,14043,14044,14045,14046,14047,14048,14049,14050,14051,14052,14053,14054,14055,14056,14057,14058,14059,14060,14061,14062,14063,14064,14065,14066,14067,14068,14069,14070,14071,14072,14073,14074,14075,14076,14077,14078,14079,14080,14081,14082,14083,14084,14085,14086,14087,14088,14089,14090,14091,14092,14093,14094,14095,14096,14097,14098,14099,14100,14101,14102,14103,14104,14105,14106,14107,14108,14109,14110,14111,14112,14113,14114,14115,14116,14117,14118,14119,14120,14121,14122,14123,14124,14125,14126,14127,14128,14129,14130,14131,14132,14133,14134,14135,14136,14137,14138,14139,14140,14141,14142,14143,14144,14145,14146,14147,14148,14149,14150,14151,14152,14153,14154,14155,14156,14157,14158,14159,14160,14161,14162,14163,14164,14165,14166,14167,14168,14169,14170,14171,14172,14173,14174,14175,14176,14177,14178,14179,14180,14181,14182,14183,14184,14185,14186,14187,14188,14189,14190,14191,14192,14193,14194,14195,14196,14197,14198,14199,14200,14201,14202,14203,14204,14205,14206,14207,14208,14209,14210,14211,14212,14213,14214,14215,14216,14217,14218,14219,14220,14221,14222,14223,14224,14225,14226,14227,14228,14229,14230,14231,14232,14233,14234,14235,14236,14237,14238,14239,14240,14241,14242,14243,14244,14245,14246,14247,14248,14249,14250,14251,14252,14253,14254,14255,14256,14257,14258,14259,14260,14261,14262,14263,14264,14265,14266,14267,14268,14269,14270,14271,14272,14273,14274,14275,14276,14277,14278,14279,14280,14281,14282,14283,14284,14285,14286,14287,14288,14289,14290,14291,14292,14293,14294,14295,14296,14297,14298,14299,14300,14301,14302,14303,14304,14305,14306,14307,14308,14309,14310,14311,14312,14313,14314,14315,14316,14317,14318,14319,14320,14321,14322,14323,14324,14325,14326,14327,14328,14329,14330,14331,14332,14333,14334,14335,14336,14337,14338,14339,14340,14341,14342,14343,14344,14345,14346,14347,14348,14349,14350,14351,14352,14353,14354,14355,14356,14357,14358,14359,14360,14361,14362,14363,14364,14365,14366,14367,14368,14369,14370,14371,14372,14373,14374,14375,14376,14377,14378,14379,14380,14381,14382,14383,14384,14385,14386,14387,14388,14389,14390,14391,14392,14393,14394,14395,14396,14397,14398,14399,14400,14401,14402,14403,14404,14405,14406,14407,14408,14409,14410,14411,14412,14413,14414,14415,14416,14417,14418,14419,14420,14421,14422,14423,14424,14425,14426,14427,14428,14429,14430,14431,14432,14433,14434,14435,14436,14437,14438,14439,14440,14441,14442,14443,14444,14445,14446,14447,14448,14449,14450,14451,14452,14453,14454,14455,14456,14457,14458,14459,14460,14461,14462,14463,14464,14465,14466,14467,14468,14469,14470,14471,14472,14473,14474,14475,14476,14477,14478,14479,14480,14481,14482,14483,14484,14485,14486,14487,14488,14489,14490,14491,14492,14493,14494,14495,14496,14497,14498,14499,14500,14501,14502,14503,14504,14505,14506,14507,14508,14509,14510,14511,14512,14513,14514,14515,14516,14517,14518,14519,14520,14521,14522,14523,14524,14525,14526,14527,14528,14529,14530,14531,14532,14533,14534,14535,14536,14537,14538,14539,14540,14541,14542,14543,14544,14545,14546,14547,14548,14549,14550,14551,14552,14553,14554,14555,14556,14557,14558,14559,14560,14561,14562,14563,14564,14565,14566,14567,14568,14569,14570,14571,14572,14573,14574,14575,14576,14577,14578,14579,14580,14581,14582,14583,14584,14585,14586,14587,14588,14589,14590,14591,14592,14593,14594,14595,14596,14597,14598,14599,14600,14601,14602,14603,14604,14605,14606,14607,14608,14609,14610,14611,14612,14613,14614,14615,14616,14617,14618,14619,14620,14621,14622,14623,14624,14625,14626,14627,14628,14629,14630,14631,14632,14633,14634,14635,14636,14637,14638,14639,14640,14641,14642,14643,14644,14645,14646,14647,14648,14649,14650,14651,14652,14653,14654,14655,14656,14657,14658,14659,14660,14661,14662,14663,14664,14665,14666,14667,14668,14669,14670,14671,14672,14673,14674,14675,14676,14677,14678,14679,14680,14681,14682,14683,14684,14685,14686,14687,14688,14689,14690,14691,14692,14693,14694,14695,14696,14697,14698,14699,14700,14701,14702,14703,14704,14705,14706,14707,14708,14709,14710,14711,14712,14713,14714,14715,14716,14717,14718,14719,14720,14721,14722,14723,14724,14725,14726,14727,14728,14729,14730,14731,14732,14733,14734,14735,14736,14737,14738,14739,14740,14741,14742,14743,14744,14745,14746,14747,14748,14749,14750,14751,14752,14753,14754,14755,14756,14757,14758,14759,14760,14761,14762,14763,14764,14765,14766,14767,14768,14769,14770,14771,14772,14773,14774,14775,14776,14777,14778,14779,14780,14781,14782,14783,14784,14785,14786,14787,14788,14789,14790,14791,14792,14793,14794,14795,14796,14797,14798,14799,14800,14801,14802,14803,14804,14805,14806,14807,14808,14809,14810,14811,14812,14813,14814,14815,14816,14817,14818,14819,14820,14821,14822,14823,14824,14825,14826,14827,14828,14829,14830,14831,14832,14833,14834,14835,14836,14837,14838,14839,14840,14841,14842,14843,14844,14845,14846,14847,14848,14849,14850,14851,14852,14853,14854,14855,14856,14857,14858,14859,14860,14861,14862,14863,14864,14865,14866,14867,14868,14869,14870,14871,14872,14873,14874,14875,14876,14877,14878,14879,14880,14881,14882,14883,14884,14885,14886,14887,14888,14889,14890,14891,14892,14893,14894,14895,14896,14897,14898,14899,14900,14901,14902,14903,14904,14905,14906,14907,14908,14909,14910,14911,14912,14913,14914,14915,14916,14917,14918,14919,14920,14921,14922,14923,14924,14925,14926,14927,14928,14929,14930,14931,14932,14933,14934,14935,14936,14937,14938,14939,14940,14941,14942,14943,14944,14945,14946,14947,14948,14949,14950,14951,14952,14953,14954,14955,14956,14957,14958,14959,14960,14961,14962,14963,14964,14965,14966,14967,14968,14969,14970,14971,14972,14973,14974,14975,14976,14977,14978,14979,14980,14981,14982,14983,14984,14985,14986,14987,14988,14989,14990,14991,14992,14993,14994,14995,14996,14997,14998,14999,15000,15001,15002,15003,15004,15005,15006,15007,15008,15009,15010,15011,15012,15013,15014,15015,15016,15017,15018,15019,15020,15021,15022,15023,15024,15025,15026,15027,15028,15029,15030,15031,15032,15033,15034,15035,15036,15037,15038,15039,15040,15041,15042,15043,15044,15045,15046,15047,15048,15049,15050,15051,15052,15053,15054,15055,15056,15057,15058,15059,15060,15061,15062,15063,15064,15065,15066,15067,15068,15069,15070,15071,15072,15073,15074,15075,15076,15077,15078,15079,15080,15081,15082,15083,15084,15085,15086,15087,15088,15089,15090,15091,15092,15093,15094,15095,15096,15097,15098,15099,15100,15101,15102,15103,15104,15105,15106,15107,15108,15109,15110,15111,15112,15113,15114,15115,15116,15117,15118,15119,15120,15121,15122,15123,15124,15125,15126,15127,15128,15129,15130,15131,15132,15133,15134,15135,15136,15137,15138,15139,15140,15141,15142,15143,15144,15145,15146,15147,15148,15149,15150,15151,15152,15153,15154,15155,15156,15157,15158,15159,15160,15161,15162,15163,15164,15165,15166,15167,15168,15169,15170,15171,15172,15173,15174,15175,15176,15177,15178,15179,15180,15181,15182,15183,15184,15185,15186,15187,15188,15189,15190,15191,15192,15193,15194,15195,15196,15197,15198,15199,15200,15201,15202,15203,15204,15205,15206,15207,15208,15209,15210,15211,15212,15213,15214,15215,15216,15217,15218,15219,15220,15221,15222,15223,15224,15225,15226,15227,15228,15229,15230,15231,15232,15233,15234,15235,15236,15237,15238,15239,15240,15241,15242,15243,15244,15245,15246,15247,15248,15249,15250,15251,15252,15253,15254,15255,15256,15257,15258,15259,15260,15261,15262,15263,15264,15265,15266,15267,15268,15269,15270,15271,15272,15273,15274,15275,15276,15277,15278,15279,15280,15281,15282,15283,15284,15285,15286,15287,15288,15289,15290,15291,15292,15293,15294,15295,15296,15297,15298,15299,15300,15301,15302,15303,15304,15305,15306,15307,15308,15309,15310,15311,15312,15313,15314,15315,15316,15317,15318,15319,15320,15321,15322,15323,15324,15325,15326,15327,15328,15329,15330,15331,15332,15333,15334,15335,15336,15337,15338,15339,15340,15341,15342,15343,15344,15345,15346,15347,15348,15349,15350,15351,15352,15353,15354,15355,15356,15357,15358,15359,15360,15361,15362,15363,15364,15365,15366,15367,15368,15369,15370,15371,15372,15373,15374,15375,15376,15377,15378,15379,15380,15381,15382,15383,15384,15385,15386,15387,15388,15389,15390,15391,15392,15393,15394,15395,15396,15397,15398,15399,15400,15401,15402,15403,15404,15405,15406,15407,15408,15409,15410,15411,15412,15413,15414,15415,15416,15417,15418,15419,15420,15421,15422,15423,15424,15425,15426,15427,15428,15429,15430,15431,15432,15433,15434,15435,15436,15437,15438,15439,15440,15441,15442,15443,15444,15445,15446,15447,15448,15449,15450,15451,15452,15453,15454,15455,15456,15457,15458,15459,15460,15461,15462,15463,15464,15465,15466,15467,15468,15469,15470,15471,15472,15473,15474,15475,15476,15477,15478,15479,15480,15481,15482,15483,15484,15485,15486,15487,15488,15489,15490,15491,15492,15493,15494,15495,15496,15497,15498,15499,15500,15501,15502,15503,15504,15505,15506,15507,15508,15509,15510,15511,15512,15513,15514,15515,15516,15517,15518,15519,15520,15521,15522,15523,15524,15525,15526,15527,15528,15529,15530,15531,15532,15533,15534,15535,15536,15537,15538,15539,15540,15541,15542,15543,15544,15545,15546,15547,15548,15549,15550,15551,15552,15553,15554,15555,15556,15557,15558,15559,15560,15561,15562,15563,15564,15565,15566,15567,15568,15569,15570,15571,15572,15573,15574,15575,15576,15577,15578,15579,15580,15581,15582,15583,15584,15585,15586,15587,15588,15589,15590,15591,15592,15593,15594,15595,15596,15597,15598,15599,15600,15601,15602,15603,15604,15605,15606,15607,15608,15609,15610,15611,15612,15613,15614,15615,15616,15617,15618,15619,15620,15621,15622,15623,15624,15625,15626,15627,15628,15629,15630,15631,15632,15633,15634,15635,15636,15637,15638,15639,15640,15641,15642,15643,15644,15645,15646,15647,15648,15649,15650,15651,15652,15653,15654,15655,15656,15657,15658,15659,15660,15661,15662,15663,15664,15665,15666,15667,15668,15669,15670,15671,15672,15673,15674,15675,15676,15677,15678,15679,15680,15681,15682,15683,15684,15685,15686,15687,15688,15689,15690,15691,15692,15693,15694,15695,15696,15697,15698,15699,15700,15701,15702,15703,15704,15705,15706,15707,15708,15709,15710,15711,1

Housekeeping, suspended loads. Tag Lines, communications Backing procedures and Spotters, Potential H2S - Location secured 0 psi on casing and Tubing & SWIFN - Weatherford Delivered on Delivery time of Gas lift - Rig crew work equipment - Place Donut in well lock in pins, Instal removed 234 JTS tubing

**Daily Cost:** \$0

**Cumulative Cost:** \$2,719,073

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**9/9/2012 Day: 39**

Nabors #1420 on 9/9/2012 - waiting on 7 lufkin Gas Lift mandrils - On location WH and Casin

**Daily Cost:** \$0

**Cumulative Cost:** \$2,720,573

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**9/10/2012 Day: 40**

Nabors #1420 on 9/10/2012 - RIH with 233 JTS 2 7/8 tubing and 7 Gas Mandrills - land in Pac safety Meeting with Nabors Rig Crew 1420,Delsco,Lufkin Discuss PPE ,FRC, Smoking area, Line loads. Tag Lines, communications Backing procedures and Spotters, Pressure Concerns, Enviro on off tool -1 JT tubing & X profile nipple with Delsco 2.31 Tubing Plug - RIH with Total 233 JTS 7491,7002,6515,5997,5219,3989,2302 per Lufkin design - Tag Packer 7526 Ft, Mark Joint to 5 Un set tubing Plug out of tubing & POOH with plug 350 Ft/Min LT 500-240-Delsco could not get Possible POOH and remove tubing Plug- Wax and Paraffin buildup - RIH got to bottom with sar with 7526 ft Tubing and remove Tubing Plug - RIHwith Gas mandrills and 2 7/8 tubing - EOT 2 produced water in well & On Vacuum

**Daily Cost:** \$0

**Cumulative Cost:** \$2,745,452

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**9/11/2012 Day: 41**

Nabors #1420 on 9/11/2012 - Finish RIH and Land Tubing 12k Compression -ND Bop - RU Pro - Resume operations RIH with 5158 FT 2 7/8 tubing & Gas Mandrills -X profile nipple with No P - Install Check Valve -ND BOPs and NU tree, Weatherford test unit Torque and Pressure test- 2 - RD Rig and release all vendors off location - Turn Well over to Production - On Location Hold point Contact . Pinch crush points, slips trips & falls Muster points, Housekeeping, suspended l concerns, Wind Direction, Incident Reporting, Stop Job authority, Potential H2S.

**Daily Cost:** \$0

**Cumulative Cost:** \$2,751,400

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**9/16/2012 Day: 42**

Rigless on 9/16/2012 - Capture costs in DCR 9/16/12 - Capture costs in DCR 9/16/12

**Daily Cost:** \$0

**Cumulative Cost:** \$2,757,405

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**9/30/2012 Day: 43**

Rigless on 9/30/2012 - Enter final costs in DCR - Enter final costs in DCR

**Daily Cost:** \$0

**Cumulative Cost:** \$2,762,925

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**Pertinent I**

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Patented
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> LARSEN 2-29-3-2WH
<b>3. ADDRESS OF OPERATOR:</b> 1001 17th Street, Suite 2000 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43013512240000
<b>PHONE NUMBER:</b> 303 382-4443 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NORTH MYTON BENCH
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0880 FNL 2381 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 29 Township: 03.0S Range: 02.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

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

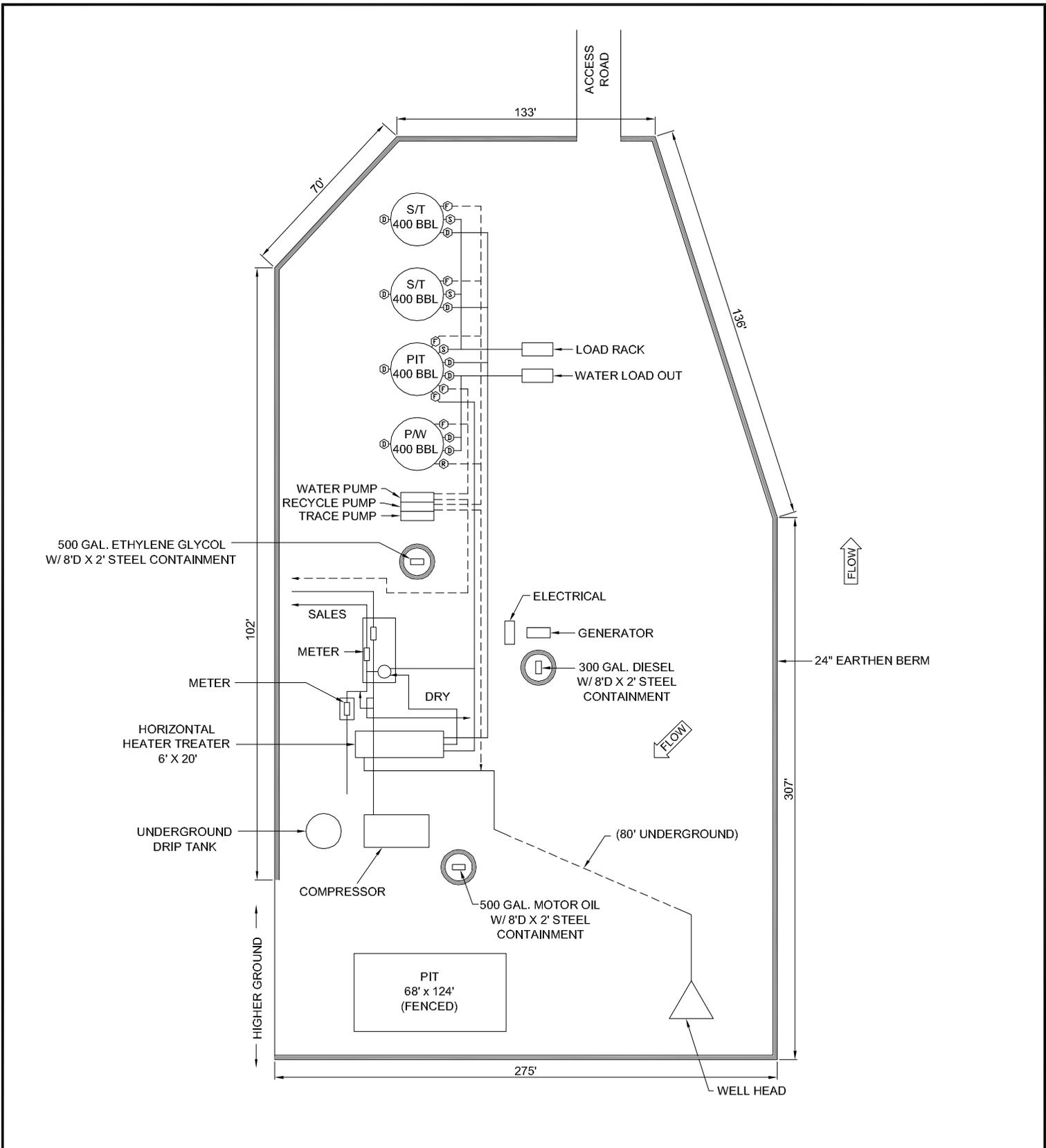
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/25/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Site Facility/Site Security"/>

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

SEE ATTACHED REVISED SITE FACILITY DIAGRAM

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
July 01, 2013**

<b>NAME (PLEASE PRINT)</b> Jill L Loyle	<b>PHONE NUMBER</b> 303 383-4135	<b>TITLE</b> Regulatory Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/25/2013	



POSITION OF VALVES AND USE OF SEALS DURING PRODUCTION			
Valve	Line Purpose	Position	Seal Installed
D	Drain	Closed	Yes
F	Oil, Gas, Water	Open	No
O	Overflow	Open/Closed	No
V	Vent	Open	No
R	Recycle	Closed	Yes
B	Blowdown	Open/Closed	No
S	Sales	Closed	Yes

POSITION OF VALVES AND USE OF SEALS DURING WATER DRAIN			
Valve	Line Purpose	Position	Seal Installed
D	Drain	Open	No
F	Oil, Gas, Water	Closed	No
O	Overflow	Closed	No
V	Vent	Open	No
R	Recycle	Closed	Yes
B	Blowdown	Closed	No
S	Sales	Closed	Yes

Federal Lease #:  
 This lease is subject to the Site Security Plan for:  
 Newfield Exploration Company  
 19 East Pine Street  
 Pinedale, WY 82941

M.G.

**LARSEN 2-29-3-2WH**

Newfield Exploration Company  
 NWNE Sec 29, T3S, R2W  
 Duchesne County, UT

SEPT 2012

**KLEINFELDER**  
 Bright People. Right Solutions.

Note: This drawing represents approximate sizes and distances. Underground pipeline locations are also approximated.