API Well Number: 43013514160000

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

FORM 3
AMENDED REPORT ☑

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER Peterson 3-20-3-2W	
2. TYPE OF WORK DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○	**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 ○ INDIAN ○ STATE ○ FEE ◉	**12. SURFACE OWNERSHIP** FEDERAL ○ INDIAN ○ STATE ○ FEE ◉
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Dale Womack, et al.	**14. SURFACE OWNER PHONE (if box 12 = 'fee')** 435-789-4830
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 485 W. 250 S., Vernal, UT 84078	**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 ○ (Submit Commingling Application) NO ◉	**19. SLANT** VERTICAL ○ DIRECTIONAL ◉ HORIZONTAL ○

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	338 FSL 2042 FWL	SESW	17	3.0 S	2.0 W	U
Top of Uppermost Producing Zone	338 FSL 2042 FWL	SESW	17	3.0 S	2.0 W	U
At Total Depth	660 FNL 1321 FWL	NWNW	20	3.0 S	2.0 W	U

21. COUNTY DUCHESNE	**22. DISTANCE TO NEAREST LEASE LINE (Feet)** 338	**23. NUMBER OF ACRES IN DRILLING UNIT** 40
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1707	**26. PROPOSED DEPTH** MD: 10578 TVD: 10400
27. ELEVATION - GROUND LEVEL 5150	**28. BOND NUMBER** B001834	**29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE** 437478

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
COND	17.5	14	0 - 60	37.0	H-40 ST&C	0.0	Class G	35	1.17	15.8
SURF	12.25	9.625	0 - 1000	36.0	J-55 LT&C	8.3	Premium Lite High Strength	51	3.53	11.0
							Class G	154	1.17	15.8
I1	8.75	7	0 - 8005	26.0	P-110 LT&C	9.5	Premium Lite High Strength	253	3.53	11.0
							50/50 Poz	257	1.24	14.3
PROD	6.125	4.5	7805 - 10578	11.6	P-110 LT&C	11.5	50/50 Poz	242	1.24	14.3

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	☑ COMPLETE DRILLING PLAN
☑ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	☑ TOPOGRAPHICAL MAP

NAME Don Hamilton	**TITLE** Permitting Agent	**PHONE** 435 719-2018
SIGNATURE	**DATE** 05/16/2012	**EMAIL** starpoint@etv.net

API NUMBER ASSIGNED
43013514160000

APPROVAL

Permit Manager

RECEIVED: July 02, 2012

Newfield Production Company
Peterson 3-20-3-2W
NW/NW Section 20, T3S, R2W
Duchesne County, UT

Drilling Program

1. Formation Tops

	TVD	MD
Uinta	surface	surface
Green River	3,285'	3,347'
Garden Gulch member	6,165'	6,320'
Wasatch	8,600'	8,779'
TD	10,400'	10,578'

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

	TVD	
Base of moderately saline	588'	(water)
Green River	6,165' - 8,600'	(oil)
Wasatch	8,600' - TD	(oil)

3. Pressure Control

Section	BOP Description
Surface	12-1/4" diverter
Interm/Prod	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system. A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 psi will be used.

4. Casing

Description	Interval (MD)		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom							Burst	Collapse	Tension
Conductor 14	0'	60'	37	H-40	Weld	--	--	--	--	--	--
									--	--	--
Surface 9 5/8	0'	1,000'	36	J-55	LTC	8.33	8.33	12	3,520	2,020	453,000
									6.27	6.35	12.58
Intermediate 7	0'	8,005'	26	P-110	LTC	9	9.5	15	9,960	6,210	693,000
									2.64	1.97	3.33
Production 4 1/2	7,805'	10,578'	11.6	P-110	LTC	11	11.5	--	10,690	7,560	279,000
									2.14	1.44	2.27

Assumptions:

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Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)
Intermediate casing MASP = (reservoir pressure) - (gas gradient)
Production casing MASP = (reservoir pressure) - (gas gradient)
All collapse calculations assume fully evacuated casing with a gas gradient
All tension calculations assume air weight of casing
Gas gradient = 0.1 psi/ft

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

5. Cement

Job	Hole Size	Fill	Slurry Description	ft^3 / sacks	OH excess	Weight (ppg)	Yield (ft^3/sk)
Conductor	17 1/2	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	41 / 35	15%	15.8	1.17
Surface Lead	12 1/4	500'	Premium Lite II w/ 3% KCl + 10% bentonite	180 / 51	15%	11.0	3.53
Surface Tail	12 1/4	500'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	190 / 154	15%	15.8	1.17
Intermediate Lead	8 3/4	5,165'	Premium Lite II w/ 3% KCl + 10% bentonite	893 / 253	15%	11.0	3.53
Intermediate Tail	8 3/4	1,840'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	318 / 257	15%	14.3	1.24
Production Tail	6 1/8	2,773'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	300 / 242	15%	14.3	1.24

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

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

6. Type and Characteristics of Proposed Circulating Medium

Interval	Description
Surface - 1,000'	An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.
1,000' - 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.

RECEIVED: May 16, 2012

Anticipated maximum mud weight is 11.5 ppg.

7. Logging, Coring, and Testing

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

Cores: As deemed necessary.

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

8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.57 psi/ft gradient.

10,400' x 0.57 psi/ft = 5949 psi

No abnormal temperature is expected. No H_2S is expected.

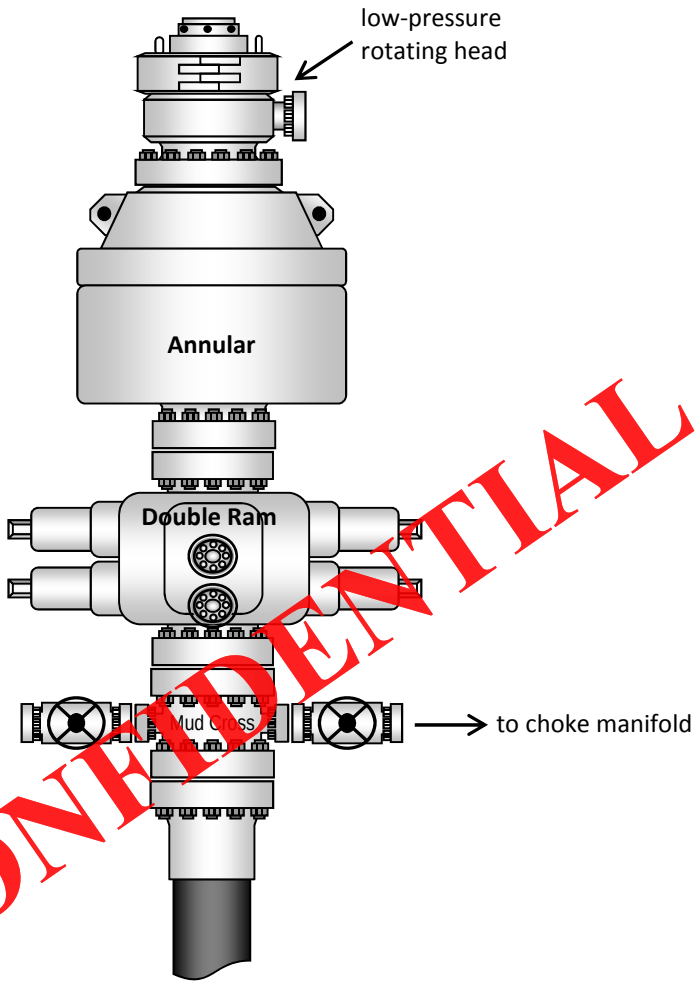
9. Other Aspects

This is planned as a "S" shaped directional well. See attached directional plan.

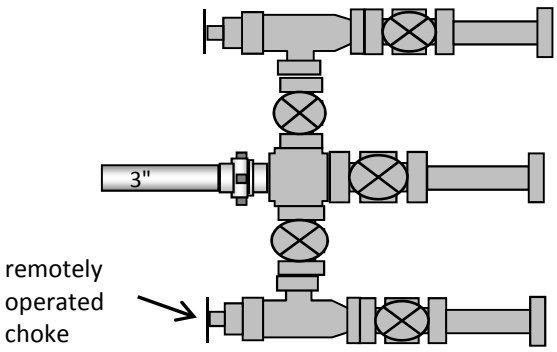
Newfield requests the following variances from Onshore Order #2:
- Variance from Onshoer Order #2, III.E.1
  Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

RECEIVED: May 16, 2012

Typical 5M BOP stack configuration



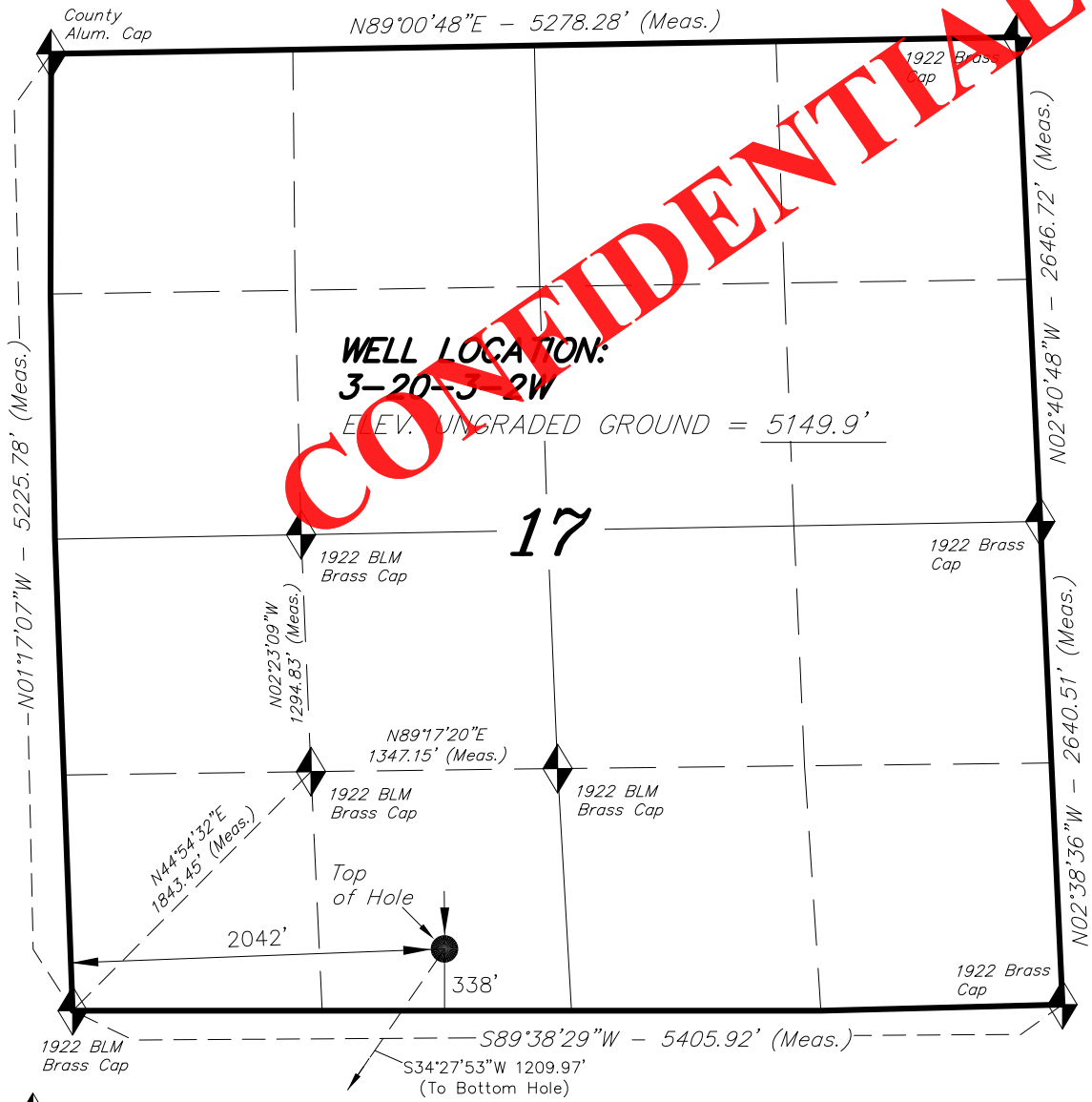
Typical 5M choke manifold configuration



RECEIVED: May 16, 2012

API Well Number: 43013514160000

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



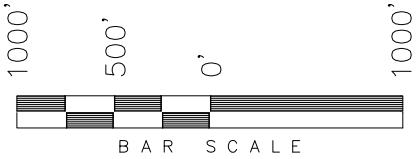
CONFIDENTIAL

◆ = SECTION CORNERS LOCATED

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

NEWFIELD EXPLORATION COMPANY

WELL LOCATION, 3-20-3-2W, LOCATED AS SHOWN IN THE SE 1/4 SW 1/4 OF SECTION 17, T3S, R2W, U.S.B.&M. DUCHESNE COUNTY, UTAH.



NOTES:

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

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.

REGISTERED LAND SURVEYOR No.189377 05-09-12 STACY W. STEWART REGISTERED LAND SURVEYOR REGISTRATION No. STATE OF UTAH

3-20-3-2W
(Surface Location) NAD 83
LATITUDE = 40° 12' 56.38"
LONGITUDE = 110° 08' 08.43"

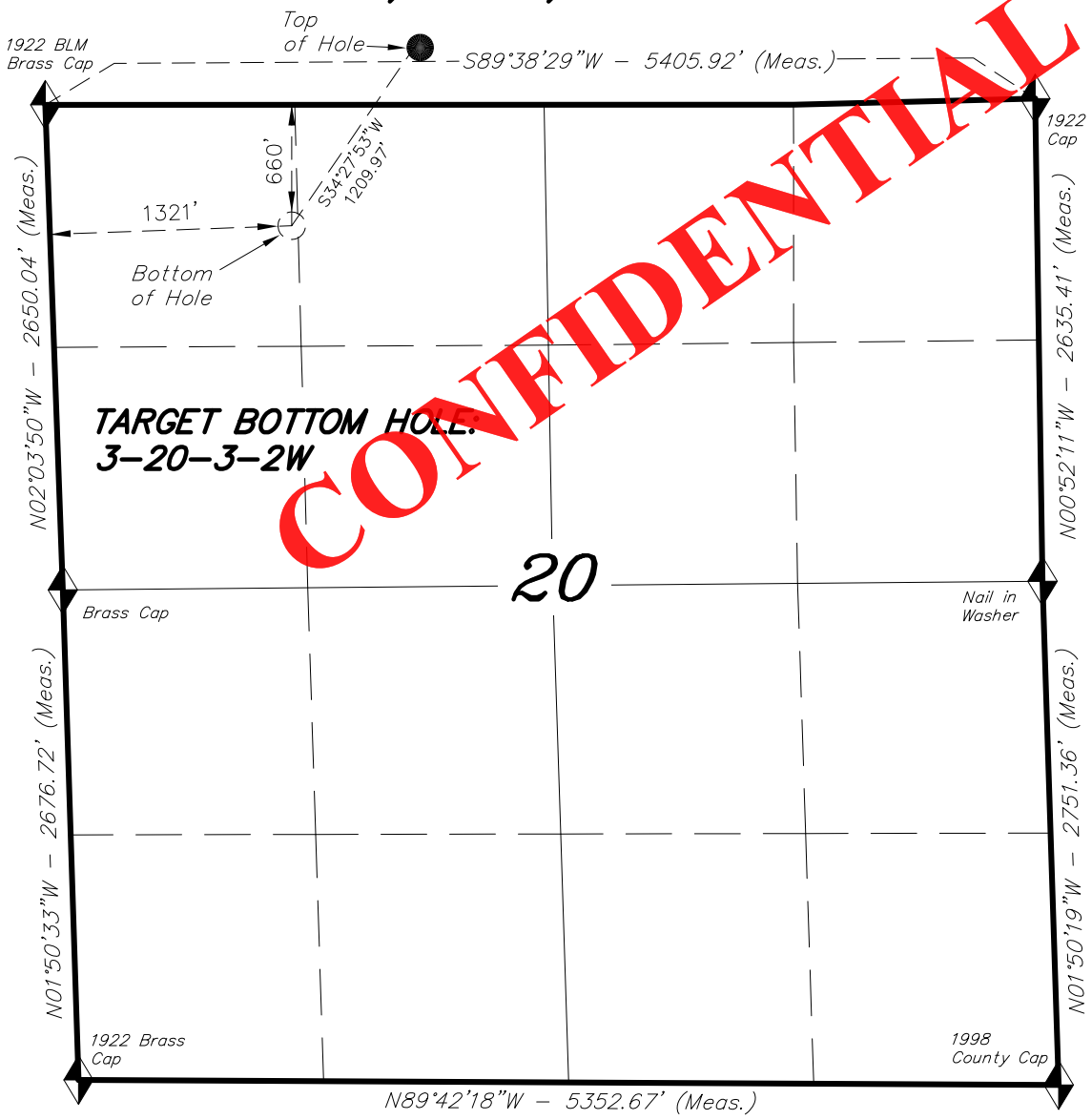
TRI STATE LAND SURVEYING & CONSULTING
180 NORTH VERNAL AVE. – VERNAL, UTAH 84078
(435) 781-2501

DATE SURVEYED: 05-08-12	SURVEYED BY: S.V.	VERSION:
DATE DRAWN: 05-08-12	DRAWN BY: R.B.T.	V1
REVISED:	SCALE: 1" = 1000'	

RECEIVED: May 16, 2012

API Well Number: 43013514160000

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

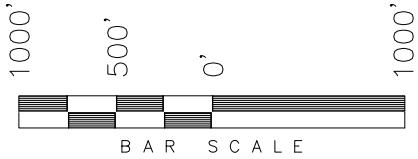


= SECTION CORNERS LOCATED

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

NEWFIELD EXPLORATION COMPANY

TARGET BOTTOM HOLE, 3-20-3-2W, LOCATED AS SHOWN IN THE NW 1/4 NW 1/4 OF SECTION 20, T3S, R2W, U.S.B.&M. DUCHESNE COUNTY, UTAH.



NOTES:

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

N

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.

REGISTERED LAND SURVEYOR No.189377 05-09-12 STACY W. STEWART

REGISTERED LAND SURVEYOR
REGISTRATION No.
STATE OF UTAH

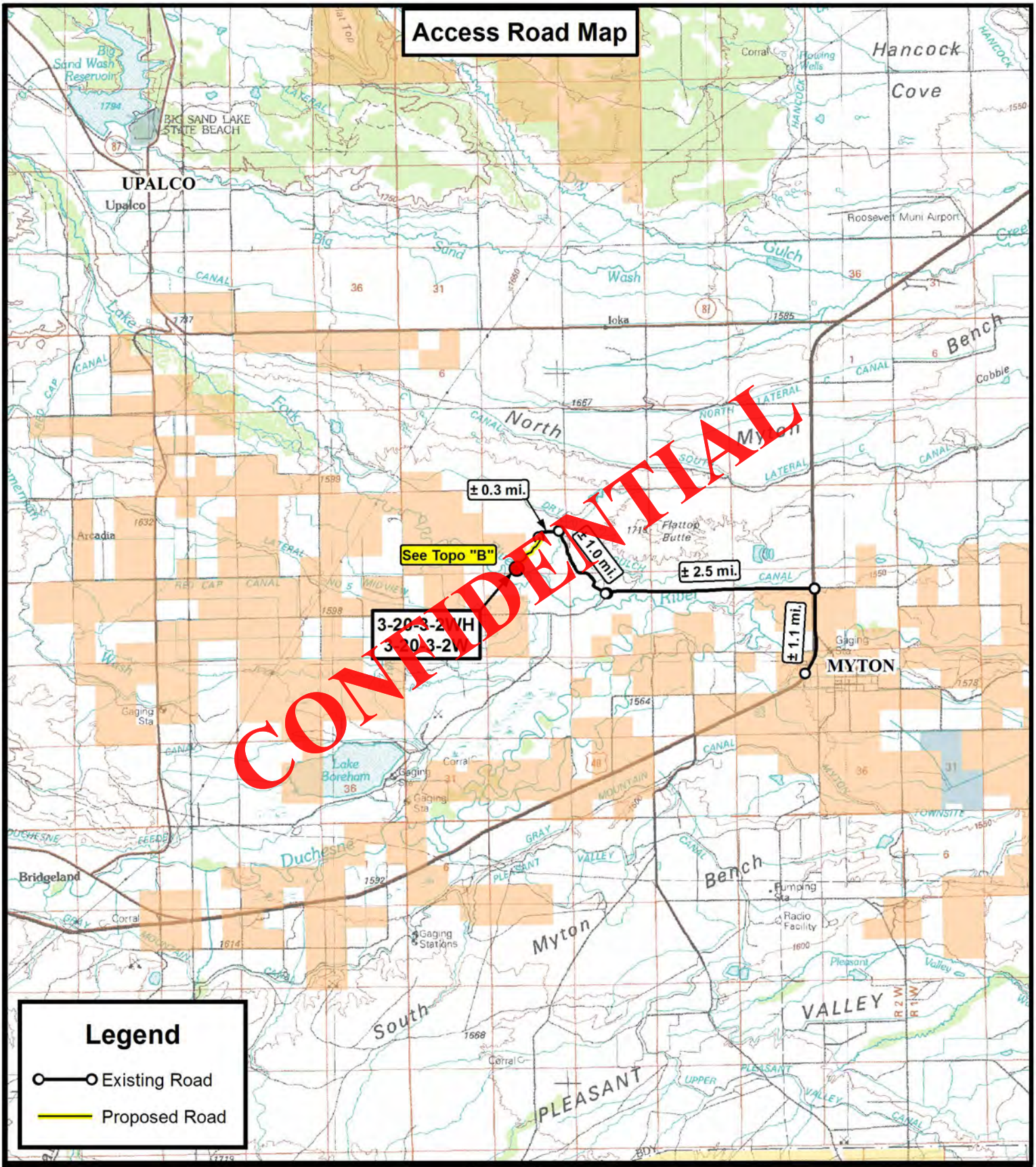
REGISTERED LAND SURVEYOR STATE OF UTAH

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

DATE SURVEYED: 05-08-12	SURVEYED BY: S.V.	VERSION:
DATE DRAWN: 05-08-12	DRAWN BY: R.B.T.	V1
REVISED:	SCALE: 1" = 1000'	

RECEIVED: May 16, 2012

API Well Number: 43013514160000



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

N

NEWFIELD EXPLORATION COMPANY

3-20-3-2WH
3-20-3-2W
SEC. 20, T3S, R2W, U.S.B.&M.
Duchesne County, UT.

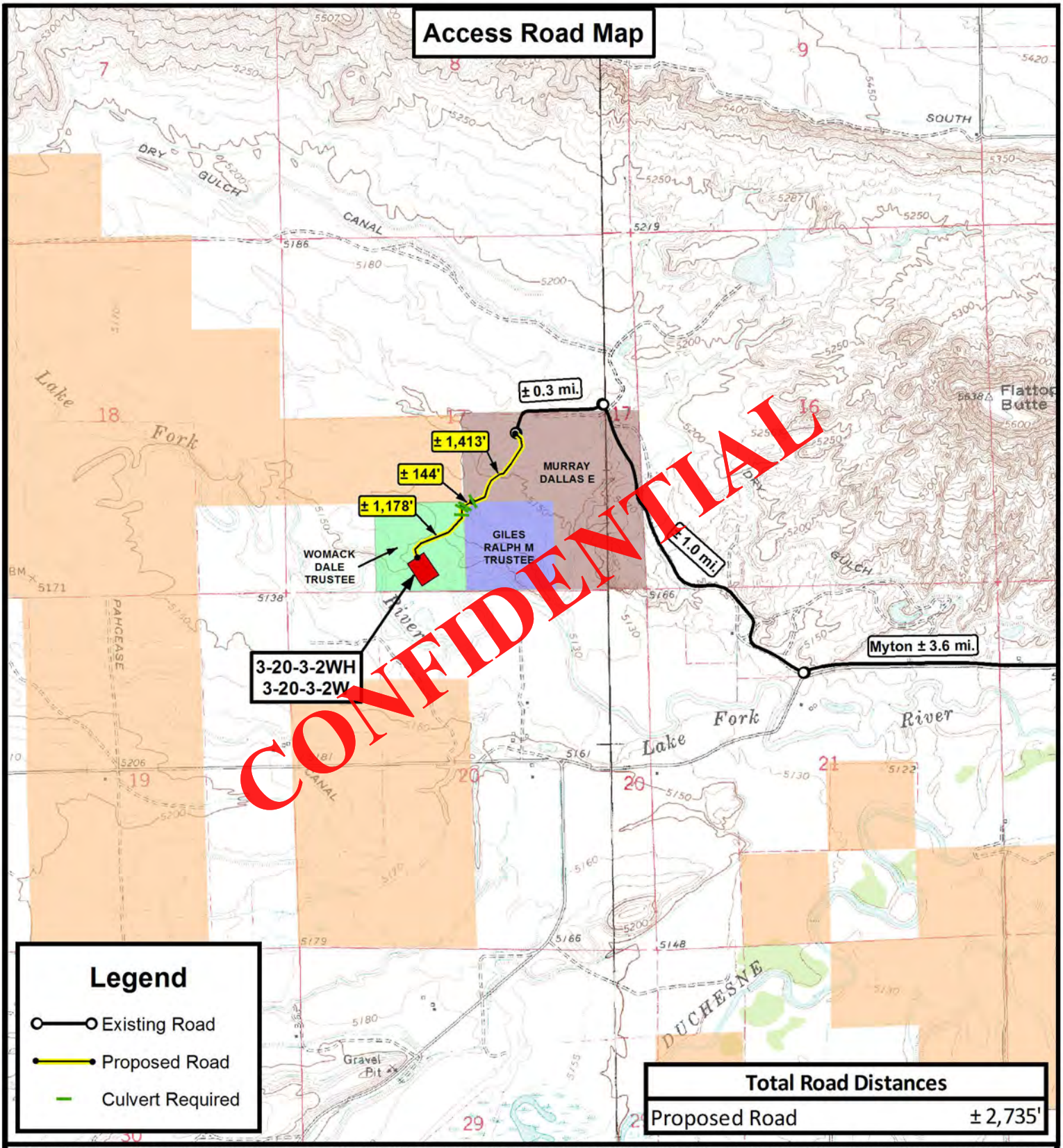
DRAWN BY:	D.C.R.	REVISED:	VERSION:
DATE:	05-11-2012		V1
SCALE:	1:100,000		

TOPOGRAPHIC MAP

SHEET A

API Well Number: 43013514160000

Access Road Map



Legend

- Existing Road
- Proposed Road
- Culvert Required

Total Road Distances	
Proposed Road	± 2,735'

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

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

N

NEWFIELD EXPLORATION COMPANY
3-20-3-2WH
3-20-3-2W
SEC. 20, T3S, R2W, U.S.B.&M.
Duchesne County, UT.

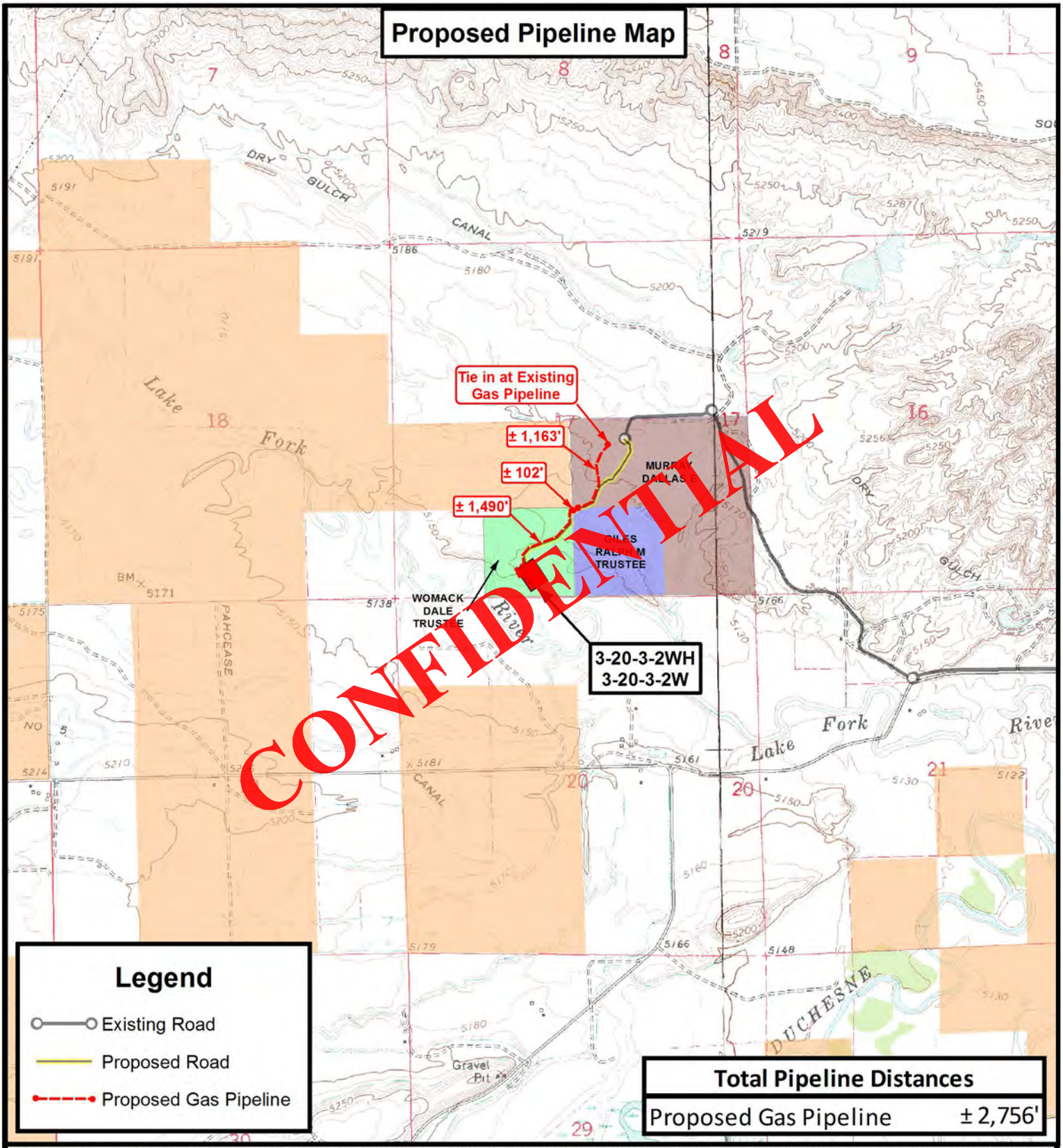
DRAWN BY:	D.C.R.	REVISED:	VERSION:
DATE:	05-11-2012		V1
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET B

API Well Number: 43013514160000

Proposed Pipeline Map



Legend

- Existing Road
- Proposed Road
- Proposed Gas Pipeline

Total Pipeline Distances	
Proposed Gas Pipeline	± 2,756'

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

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180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

NEWFIELD EXPLORATION COMPANY
3-20-3-2WH
3-20-3-2W
SEC. 20, T3S, R2W, U.S.B.&M.
Duchesne County, UT.

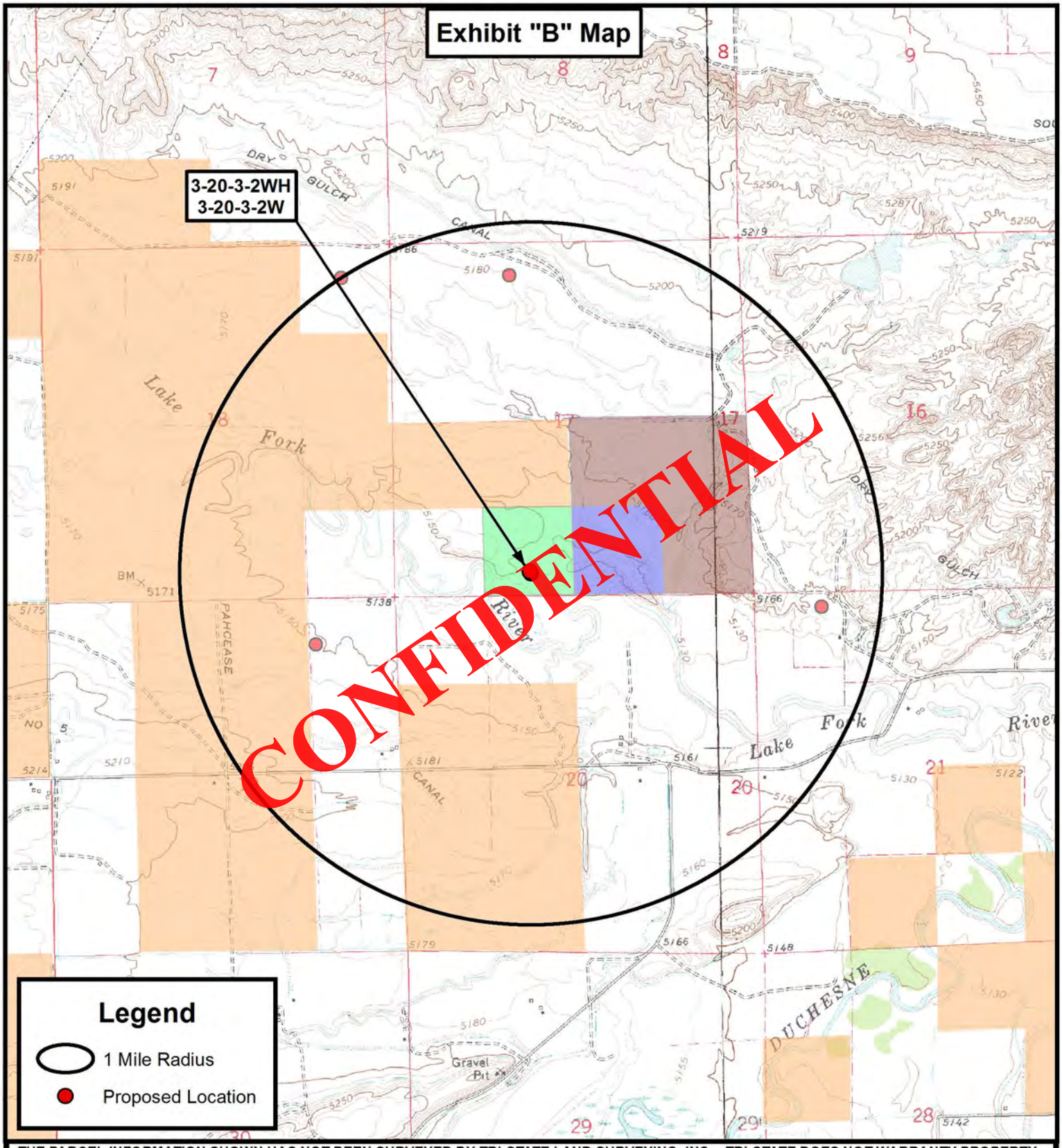
DRAWN BY:	D.C.R.	REVISED:	VERSION:
DATE:	05-11-2012		V1
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET C

API Well Number: 43013514160000

Exhibit "B" Map



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N

NEWFIELD EXPLORATION COMPANY
3-20-3-2WH
3-20-3-2W
SEC. 20, T3S, R2W, U.S.B.&M.
Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	VERSION:
DATE:	05-11-2012		V1
SCALE:	1 " = 2,000 '		

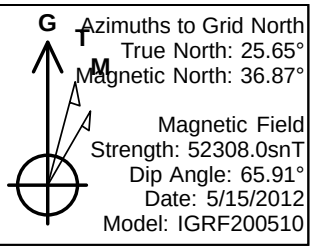
TOPOGRAPHIC MAP

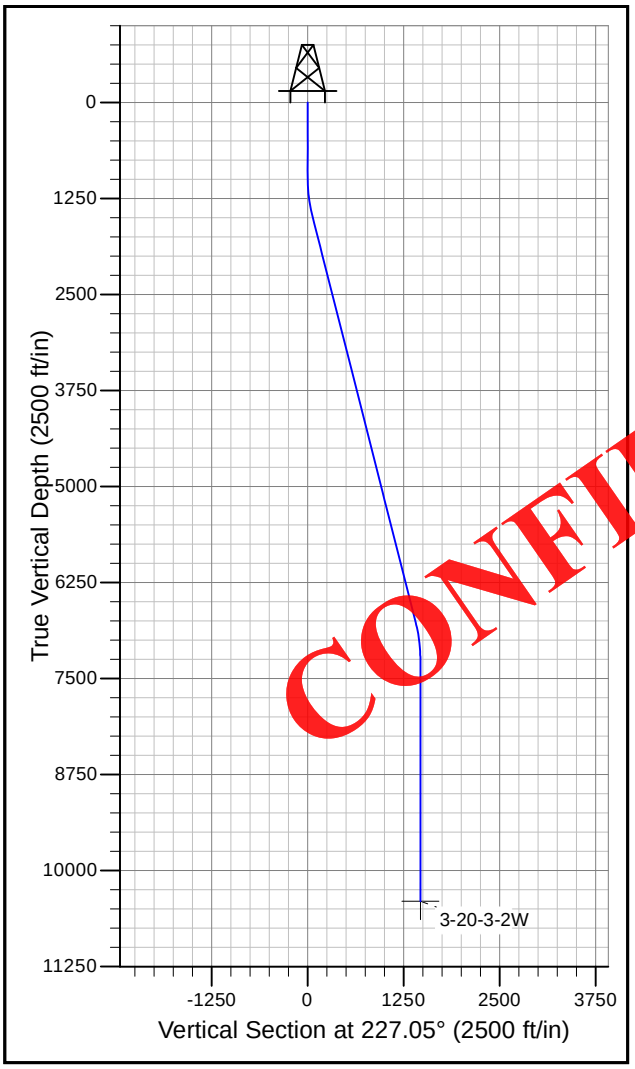
SHEET D

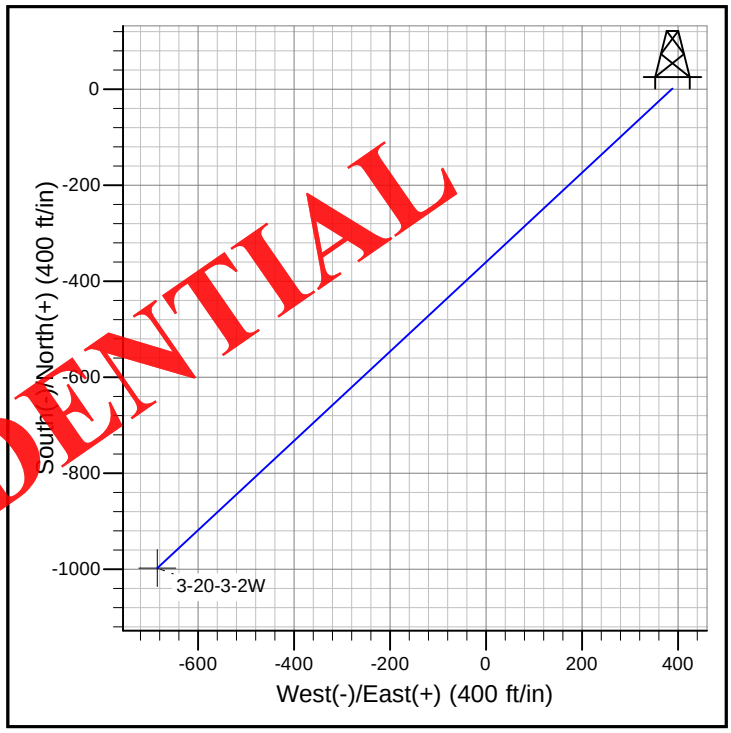
NEWFIELD
ROCKY MOUNTAINS

Newfield Production Company

Project: Utah
Site: Peterson 3-20-3-2W
Well: Peterson 3-20-3-2W
Wellbore: 3-20-3-2W
Design: Design #1







PROJECT DETAILS: Utah

Geodetic System:	**US State Plane 1983**
Datum:	**North American Datum 1983**
Ellipsoid:	**GRS 1980**
Zone:	**Alabama Eastern Zone**
System Datum:	**Mean Sea Level**

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	1.5	388.6	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	1.5	388.6	0.00	0.00	0.0	
3	1475.1	14.25	227.05	1470.2	-38.6	345.6	3.00	227.05	58.8	
4	6953.3	14.25	227.05	6779.8	-957.5	-641.7	0.00	0.00	1407.6	
5	7428.4	0.00	0.00	7250.0	-997.6	-684.7	3.00	180.00	1466.4	
6	10578.4	0.00	0.00	10400.0	-997.6	-684.7	0.00	0.00	1466.4	3-20-3-2W

Newfield

Utah
Peterson 3-20-3-2W
Peterson 3-20-3-2W

3-20-3-2W

Plan: Design #1

Standard Planning Report

15 May, 2012

RECEIVED: May 16, 2012

Newfield Exploration

Planning Report

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Site Peterson 3-20-3-2W
Company:	Newfield	**TVD Reference:**	RKB @ 5162.9ft
Project:	Utah	**MD Reference:**	RKB @ 5162.9ft
Site:	Peterson 3-20-3-2W	**North Reference:**	Grid
Well:	Peterson 3-20-3-2W	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	3-20-3-2W		
Design:	Design #1		

Project Utah

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Alabama Eastern Zone		

Site Peterson 3-20-3-2W

Site Position:		**Northing:**	1,372,018.04 m	**Latitude:**	40° 12' 56.380 N
From:	Lat/Long	**Easting:**	-1,877,590.88 m	**Longitude:**	110° 8' 8.430 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.00 °

Well Peterson 3-20-3-2W

Well Position	**+N/-S**	1.5 ft	**Northing:**	1,372,018.49 m	**Latitude:**	40° 12' 57.931 N
	+E/-W	388.6 ft	**Easting:**	-1,877,472.43 m	**Longitude:**	110° 7' 59.314 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**		**Ground Level:**	5,149.9 ft

Wellbore 3-20-3-2W

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	5/15/2012	11.23	65.91	52,308

Design Design #1

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	1.5	388.6	227.05

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	1.5	388.6	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	1.5	388.6	0.00	0.00	0.00	0.00	
1,475.1	14.25	227.05	1,470.2	-38.6	345.6	3.00	3.00	0.00	227.05	
6,953.3	14.25	227.05	6,779.8	-957.5	-641.7	0.00	0.00	0.00	0.00	
7,428.4	0.00	0.00	7,250.0	-997.6	-684.7	3.00	-3.00	0.00	180.00	
10,578.4	0.00	0.00	10,400.0	-997.6	-684.7	0.00	0.00	0.00	0.00	3-20-3-2W

Newfield Exploration

Planning Report

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Site Peterson 3-20-3-2W
Company:	Newfield	**TVD Reference:**	RKB @ 5162.9ft
Project:	Utah	**MD Reference:**	RKB @ 5162.9ft
Site:	Peterson 3-20-3-2W	**North Reference:**	Grid
Well:	Peterson 3-20-3-2W	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	3-20-3-2W		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	1.5	388.6	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	1.5	388.6	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	1.5	388.6	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	1.5	388.6	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	1.5	388.6	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	1.5	388.6	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	1.5	388.6	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	1.5	388.6	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	1.5	388.6	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	1.5	388.6	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	1.5	388.6	0.0	0.00	0.00	0.00
1,100.0	3.00	227.05	1,100.0	-0.3	386.7	2.6	3.00	3.00	0.00
1,200.0	6.00	227.05	1,199.6	-5.6	380.9	10.5	3.00	3.00	0.00
1,300.0	9.00	227.05	1,298.8	-14.5	371.4	23.5	3.00	3.00	0.00
1,400.0	12.00	227.05	1,397.1	-26.9	358.1	41.7	3.00	3.00	0.00
1,475.1	14.25	227.05	1,470.2	-38.6	345.6	58.8	3.00	3.00	0.00
1,500.0	14.25	227.05	1,494.5	-42.7	341.1	64.9	0.00	0.00	0.00
1,600.0	14.25	227.05	1,591.3	-59.5	323.1	89.5	0.00	0.00	0.00
1,700.0	14.25	227.05	1,688.2	-76.3	305.0	114.2	0.00	0.00	0.00
1,800.0	14.25	227.05	1,785.1	-93.1	287.0	138.8	0.00	0.00	0.00
1,900.0	14.25	227.05	1,882.0	-109.8	269.0	163.4	0.00	0.00	0.00
2,000.0	14.25	227.05	1,979.0	-126.6	251.0	188.0	0.00	0.00	0.00
2,100.0	14.25	227.05	2,075.9	-143.4	233.0	212.6	0.00	0.00	0.00
2,200.0	14.25	227.05	2,172.8	-160.2	214.9	237.3	0.00	0.00	0.00
2,300.0	14.25	227.05	2,269.7	-176.9	196.9	261.9	0.00	0.00	0.00
2,400.0	14.25	227.05	2,366.6	-193.7	178.9	286.5	0.00	0.00	0.00
2,500.0	14.25	227.05	2,463.6	-210.5	160.9	311.1	0.00	0.00	0.00
2,600.0	14.25	227.05	2,560.5	-227.3	142.8	335.7	0.00	0.00	0.00
2,700.0	14.25	227.05	2,657.4	-244.0	124.8	360.4	0.00	0.00	0.00
2,800.0	14.25	227.05	2,754.3	-260.8	106.8	385.0	0.00	0.00	0.00
2,900.0	14.25	227.05	2,851.3	-277.6	88.8	409.6	0.00	0.00	0.00
3,000.0	14.25	227.05	2,948.2	-294.4	70.8	434.2	0.00	0.00	0.00
3,100.0	14.25	227.05	3,045.1	-311.1	52.7	458.9	0.00	0.00	0.00
3,200.0	14.25	227.05	3,142.0	-327.9	34.7	483.5	0.00	0.00	0.00
3,300.0	14.25	227.05	3,238.9	-344.7	16.7	508.1	0.00	0.00	0.00
3,400.0	14.25	227.05	3,335.9	-361.5	-1.3	532.7	0.00	0.00	0.00
3,500.0	14.25	227.05	3,432.8	-378.2	-19.4	557.3	0.00	0.00	0.00
3,600.0	14.25	227.05	3,529.7	-395.0	-37.4	582.0	0.00	0.00	0.00
3,700.0	14.25	227.05	3,626.6	-411.8	-55.4	606.6	0.00	0.00	0.00
3,800.0	14.25	227.05	3,723.5	-428.6	-73.4	631.2	0.00	0.00	0.00
3,900.0	14.25	227.05	3,820.5	-445.3	-91.4	655.8	0.00	0.00	0.00
4,000.0	14.25	227.05	3,917.4	-462.1	-109.5	680.4	0.00	0.00	0.00
4,100.0	14.25	227.05	4,014.3	-478.9	-127.5	705.1	0.00	0.00	0.00
4,200.0	14.25	227.05	4,111.2	-495.7	-145.5	729.7	0.00	0.00	0.00
4,300.0	14.25	227.05	4,208.2	-512.4	-163.5	754.3	0.00	0.00	0.00
4,400.0	14.25	227.05	4,305.1	-529.2	-181.5	778.9	0.00	0.00	0.00
4,500.0	14.25	227.05	4,402.0	-546.0	-199.6	803.5	0.00	0.00	0.00
4,600.0	14.25	227.05	4,498.9	-562.8	-217.6	828.2	0.00	0.00	0.00
4,700.0	14.25	227.05	4,595.8	-579.5	-235.6	852.8	0.00	0.00	0.00
4,800.0	14.25	227.05	4,692.8	-596.3	-253.6	877.4	0.00	0.00	0.00
4,900.0	14.25	227.05	4,789.7	-613.1	-271.7	902.0	0.00	0.00	0.00
5,000.0	14.25	227.05	4,886.6	-629.9	-289.7	926.6	0.00	0.00	0.00
5,100.0	14.25	227.05	4,983.5	-646.6	-307.7	951.3	0.00	0.00	0.00
5,200.0	14.25	227.05	5,080.5	-663.4	-325.7	975.9	0.00	0.00	0.00

Newfield Exploration

Planning Report

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Site Peterson 3-20-3-2W
Company:	Newfield	**TVD Reference:**	RKB @ 5162.9ft
Project:	Utah	**MD Reference:**	RKB @ 5162.9ft
Site:	Peterson 3-20-3-2W	**North Reference:**	Grid
Well:	Peterson 3-20-3-2W	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	3-20-3-2W		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	14.25	227.05	5,177.4	-680.2	-343.7	1,000.5	0.00	0.00	0.00
5,400.0	14.25	227.05	5,274.3	-697.0	-361.8	1,025.1	0.00	0.00	0.00
5,500.0	14.25	227.05	5,371.2	-713.7	-379.8	1,049.7	0.00	0.00	0.00
5,600.0	14.25	227.05	5,468.1	-730.5	-397.8	1,074.4	0.00	0.00	0.00
5,700.0	14.25	227.05	5,565.1	-747.3	-415.8	1,099.0	0.00	0.00	0.00
5,800.0	14.25	227.05	5,662.0	-764.1	-433.8	1,123.6	0.00	0.00	0.00
5,900.0	14.25	227.05	5,758.9	-780.8	-451.9	1,148.2	0.00	0.00	0.00
6,000.0	14.25	227.05	5,855.8	-797.6	-469.9	1,172.9	0.00	0.00	0.00
6,100.0	14.25	227.05	5,952.7	-814.4	-487.9	1,197.5	0.00	0.00	0.00
6,200.0	14.25	227.05	6,049.7	-831.2	-505.9	1,222.1	0.00	0.00	0.00
6,300.0	14.25	227.05	6,146.6	-847.9	-524.0	1,246.7	0.00	0.00	0.00
6,400.0	14.25	227.05	6,243.5	-864.7	-542.0	1,271.3	0.00	0.00	0.00
6,500.0	14.25	227.05	6,340.4	-881.5	-560.0	1,296.0	0.00	0.00	0.00
6,600.0	14.25	227.05	6,437.4	-898.3	-578.0	1,320.6	0.00	0.00	0.00
6,700.0	14.25	227.05	6,534.3	-915.0	-596.0	1,345.2	0.00	0.00	0.00
6,800.0	14.25	227.05	6,631.2	-931.8	-614.1	1,369.8	0.00	0.00	0.00
6,900.0	14.25	227.05	6,728.1	-948.6	-632.1	1,394.4	0.00	0.00	0.00
6,953.3	14.25	227.05	6,779.8	-957.5	-641.7	1,407.6	0.00	0.00	0.00
7,000.0	12.85	227.05	6,825.2	-965.0	-649.7	1,418.5	3.00	-3.00	0.00
7,100.0	9.85	227.05	6,923.2	-978.4	-664.1	1,438.2	3.00	-3.00	0.00
7,200.0	6.85	227.05	7,022.1	-988.3	-674.7	1,452.7	3.00	-3.00	0.00
7,300.0	3.85	227.05	7,121.7	-994.6	-681.6	1,462.0	3.00	-3.00	0.00
7,400.0	0.85	227.05	7,221.6	-997.4	-684.6	1,466.1	3.00	-3.00	0.00
7,428.4	0.00	0.00	7,250.0	-997.6	-684.7	1,466.4	3.00	-3.00	0.00
7,500.0	0.00	0.00	7,321.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
7,600.0	0.00	0.00	7,421.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
7,700.0	0.00	0.00	7,521.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,621.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
7,900.0	0.00	0.00	7,721.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,821.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
8,100.0	0.00	0.00	7,921.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
8,200.0	0.00	0.00	8,021.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
8,300.0	0.00	0.00	8,121.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
8,400.0	0.00	0.00	8,221.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
8,500.0	0.00	0.00	8,321.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
8,600.0	0.00	0.00	8,421.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,521.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
8,800.0	0.00	0.00	8,621.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
8,900.0	0.00	0.00	8,721.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,821.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
9,100.0	0.00	0.00	8,921.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,021.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,121.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,221.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,321.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,421.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,521.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,621.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,721.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,821.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
10,100.0	0.00	0.00	9,921.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
10,200.0	0.00	0.00	10,021.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
10,300.0	0.00	0.00	10,121.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
10,400.0	0.00	0.00	10,221.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00

Newfield Exploration

Planning Report

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Site Peterson 3-20-3-2W
Company:	Newfield	**TVD Reference:**	RKB @ 5162.9ft
Project:	Utah	**MD Reference:**	RKB @ 5162.9ft
Site:	Peterson 3-20-3-2W	**North Reference:**	Grid
Well:	Peterson 3-20-3-2W	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	3-20-3-2W		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,500.0	0.00	0.00	10,321.6	-997.6	-684.7	1,466.4	0.00	0.00	0.00
10,578.4	0.00	0.00	10,400.0	-997.6	-684.7	1,466.4	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude
3-20-3-2W - plan hits target center - Point	0.00	0.00	10,400.0	-997.6	-684.7	1,371,713.97	-1,877,799.58	40° 12' 46.116 N	110° 8' 8.494 W

RECEIVED: May 16, 2012

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

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

1. My name is Greg Boggs. I am a Landman for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 ("Newfield").

2. Newfield is the Operator of the proposed Peterson 3-20-3-2W well with a surface location to be positioned in the SESW of Section 17, Township 3 South, Range 2 West, Duchesne County, Utah (the "Drillsite Location") with a bottom hole location in the NENW of Section 20, Township 3 South, Range 2 West, Duchesne County, Utah. The surface owner of the Drillsite Location is Dale Womack, Individually and as Trustee for the Benefit of the Harold Womack Estate, Dorothy McClellan, Gordon Womack, The Margaret Birchell Estate, Stanley Womack, Glen Womack, and Dale Womack as Beneficiaries; and Dale Womack as Agent and Attorney-in-Fact for Dorothy McClellan, whose address is 485 W. 250 S. Vernal, UT 84078 ("Surface Owner").

3. Newfield and the Surface Owner have agreed upon an Easement, Right-of-Way and Surface Use Agreement dated April 15, 2012 covering the Drillsite Location and access to the Drillsite Location.

FURTHER AFFIANT SAYETH NOT.

ACKNOWLEDGEMENT

STATE OF COLORADO §
§
COUNTY OF DENVER §

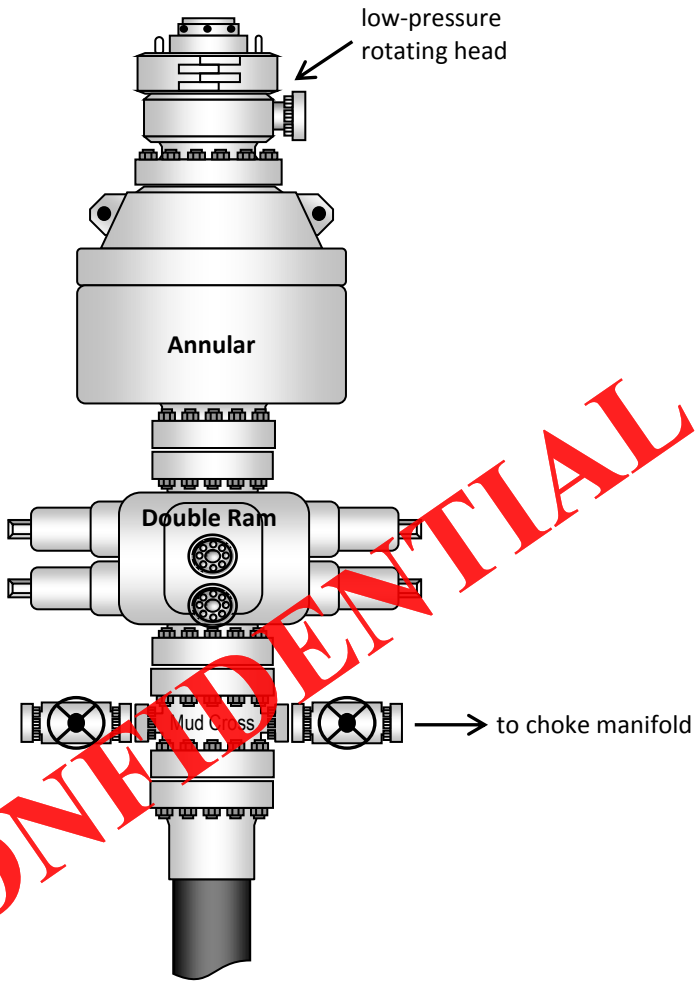
Before me, a Notary Public, in and for the State, on this 14 day of May, 2012, personally appeared Greg Boggs, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

NOTARY PUBLIC

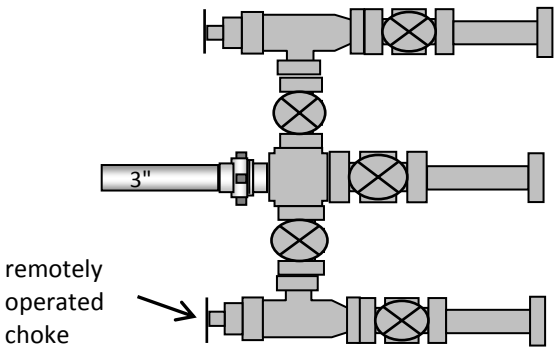
My Commission Expires:

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

Typical 5M BOP stack configuration



Typical 5M choke manifold configuration



RECEIVED: May 16, 2012

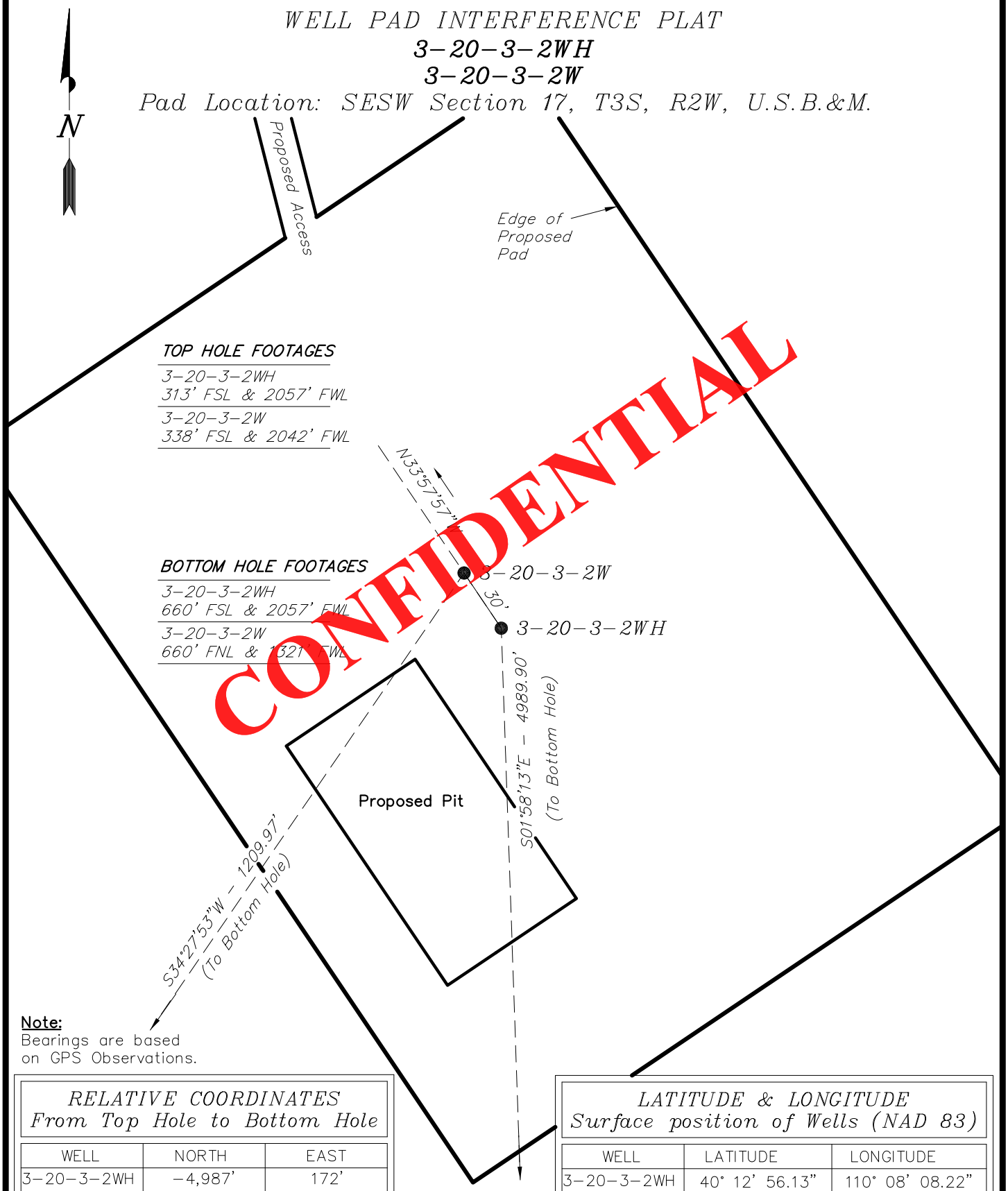
NEWFIELD EXPLORATION COMPANY

WELL PAD INTERFERENCE PLAT

3-20-3-2WH

3-20-3-2W

Pad Location: SESW Section 17, T3S, R2W, U.S.B.&M.



Note:
Bearings are based on GPS Observations.

RELATIVE COORDINATES
From Top Hole to Bottom Hole

WELL	NORTH	EAST
3-20-3-2WH	-4,987'	172'
3-20-3-2W	-998'	-685'

LATITUDE & LONGITUDE
Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
3-20-3-2WH	40° 12' 56.13"	110° 08' 08.22"
3-20-3-2W	40° 12' 56.38"	110° 08' 08.43"

SURVEYED BY: S.V.	DATE SURVEYED: 05-08-12	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: R.B.T.	DATE DRAWN: 05-08-12	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED:		

RECEIVED: May 16, 2012

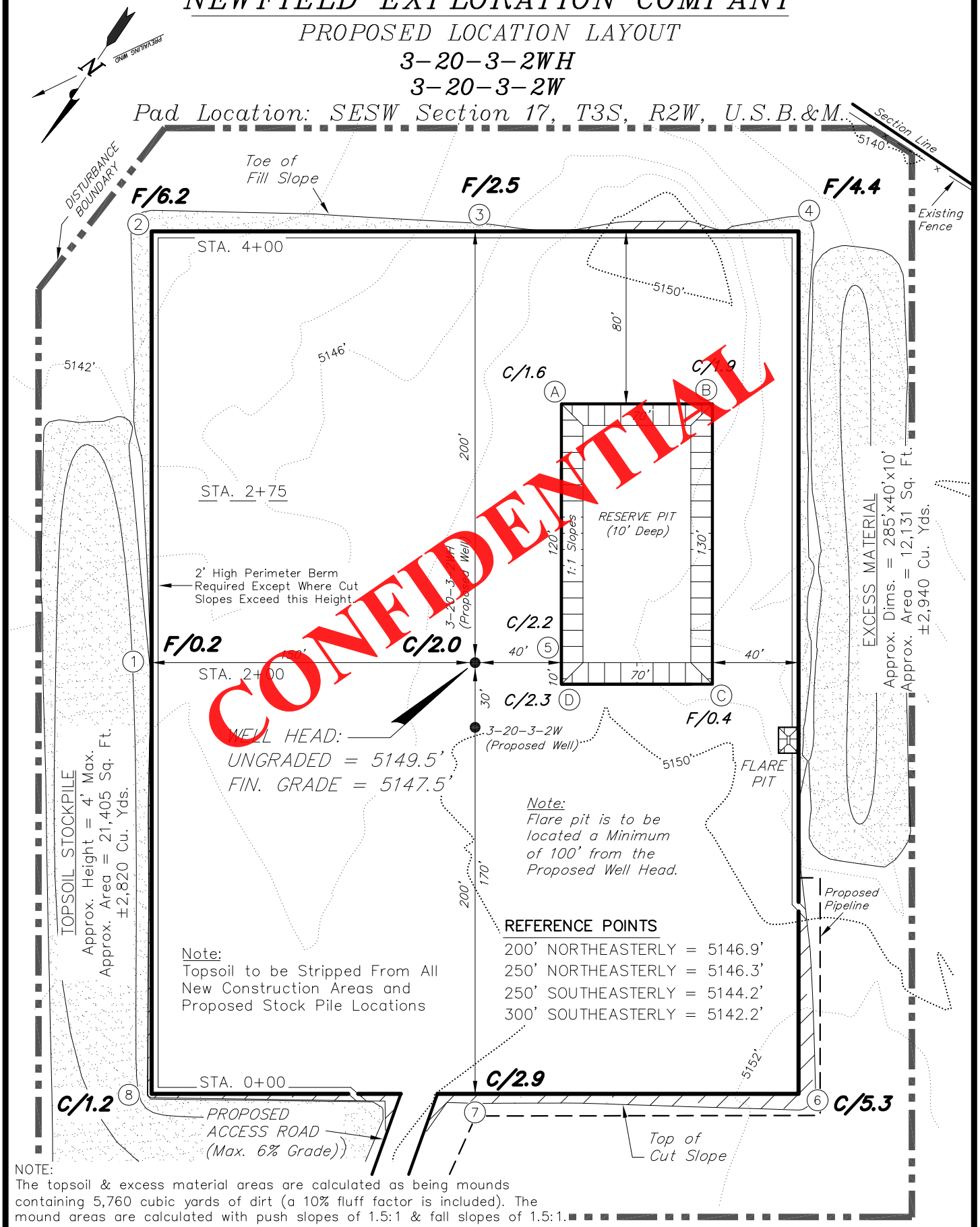
NEWFIELD EXPLORATION COMPANY

PROPOSED LOCATION LAYOUT

3-20-3-2WH

3-20-3-2W

Pad Location: SESW Section 17, T3S, R2W, U.S.B.&M.



NOTE:
The topsoil & excess material areas are calculated as being mounds containing 5,760 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

SURVEYED BY: S.V.	DATE SURVEYED: 05-08-12	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: R.B.T.	DATE DRAWN: 05-08-12	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED:		

RECEIVED: May 16, 2012

NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS

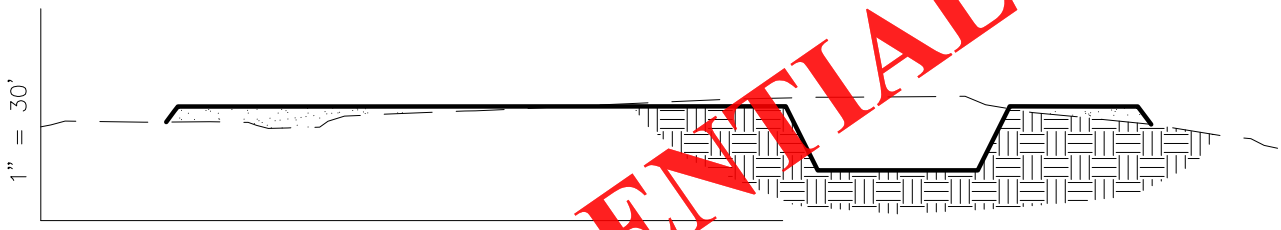
3-20-3-2WH

3-20-3-2W

Pad Location: SESW Section 17, T3S, R2W, U.S.B.&M.

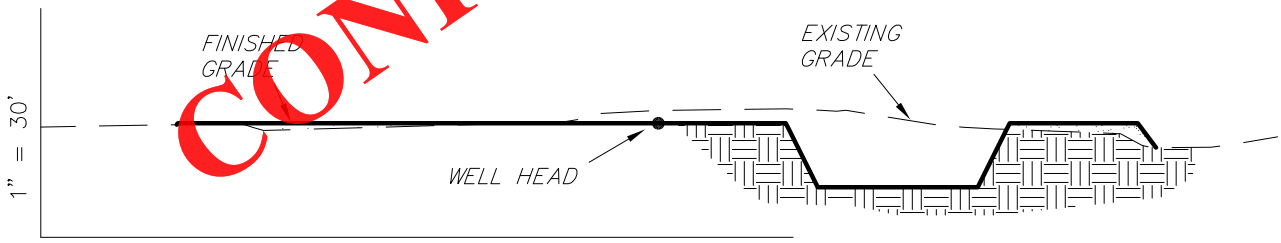
1" = 60'

STA. 4+00



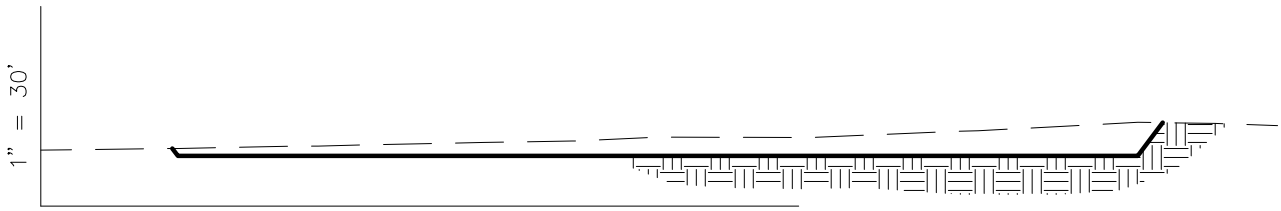
1" = 60'

STA. 2+75



1" = 60'

STA. 2+00



1" = 60'

STA. 0+00

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

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

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	4,150	4,150	Topsoil is not included in Pad Cut Volume	0
PIT	2,670	0		2,670
TOTALS	6,820	4,150	2,560	2,670

SURVEYED BY: S.V.	DATE SURVEYED: 05-08-12	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: R.B.T.	DATE DRAWN: 05-08-12	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED:		

RECEIVED: May 16, 2012

API Well Number: 43013514160000

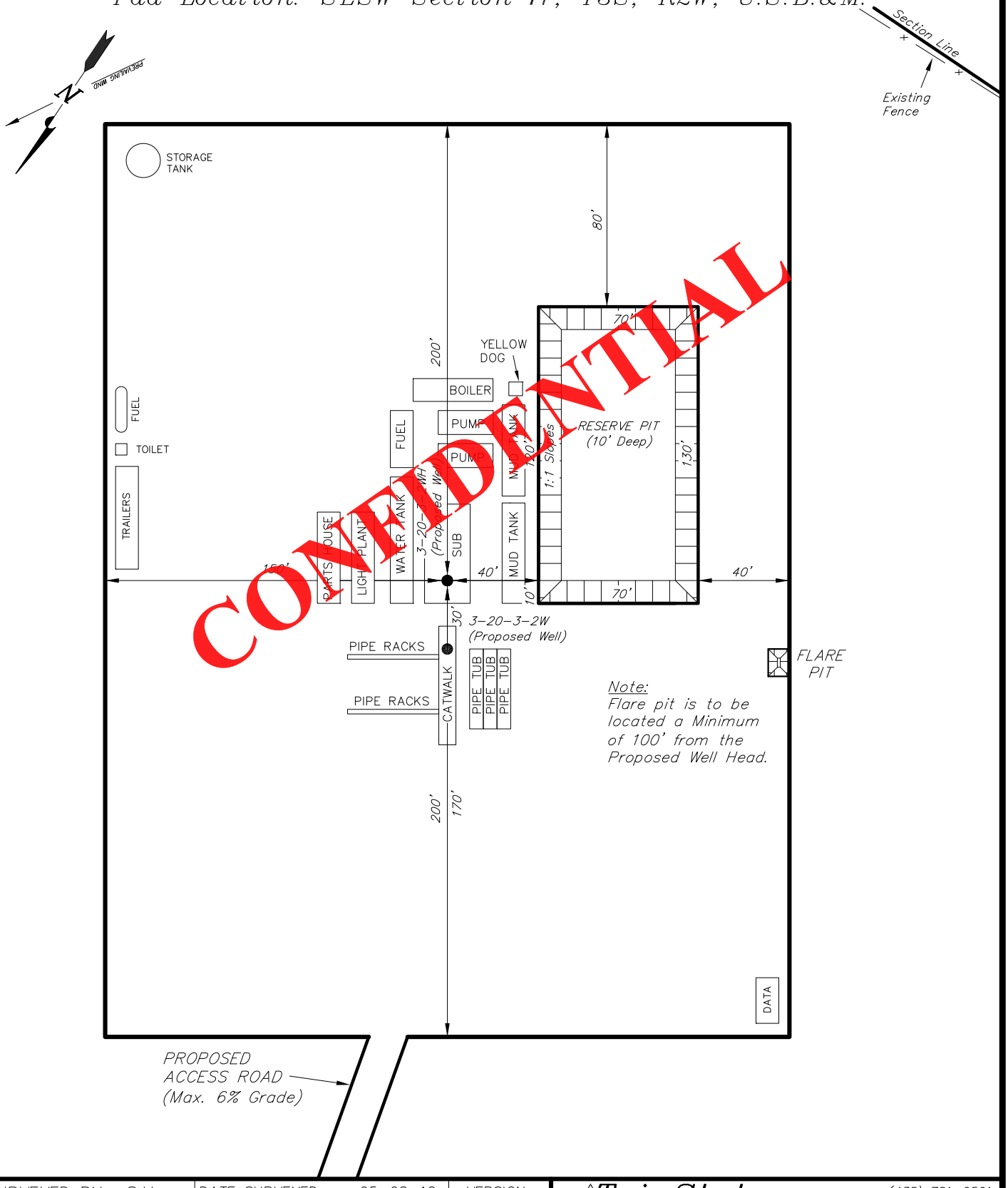
NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT

3-20-3-2WH

3-20-3-2W

Pad Location: SESW Section 17, T3S, R2W, U.S.B.&M.



SURVEYED BY: S.V.	DATE SURVEYED: 05-08-12	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: R.B.T.	DATE DRAWN: 05-08-12	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED:		

RECEIVED: May 16, 2012

NEWFIELD
ROCKY MOUNTAINS

May 23, 2012

State of Utah, Division of Oil, Gas and Mining
ATTN: Diana Mason
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: Directional Drilling
Peterson 3-20-3-2W

Surface Hole: T3S-R2W Section 17: SESW
2042' FWL 338' FSL

At Target: T3S-R2W Section 20: NENW
1321' FWL 660' FNL

Duchesne County, Utah

Dear Ms. Mason:

In conjunction with the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

Newfield has selected a surface location in the SESW of Section 17, T3S-R2W in order mitigate impact on the surface of the NENW of Section 20, T3S-R2W (bottom-hole location) which has been determined to contain wetlands and/or waters of the United States which are under the jurisdiction of the Army Corps of Engineers.

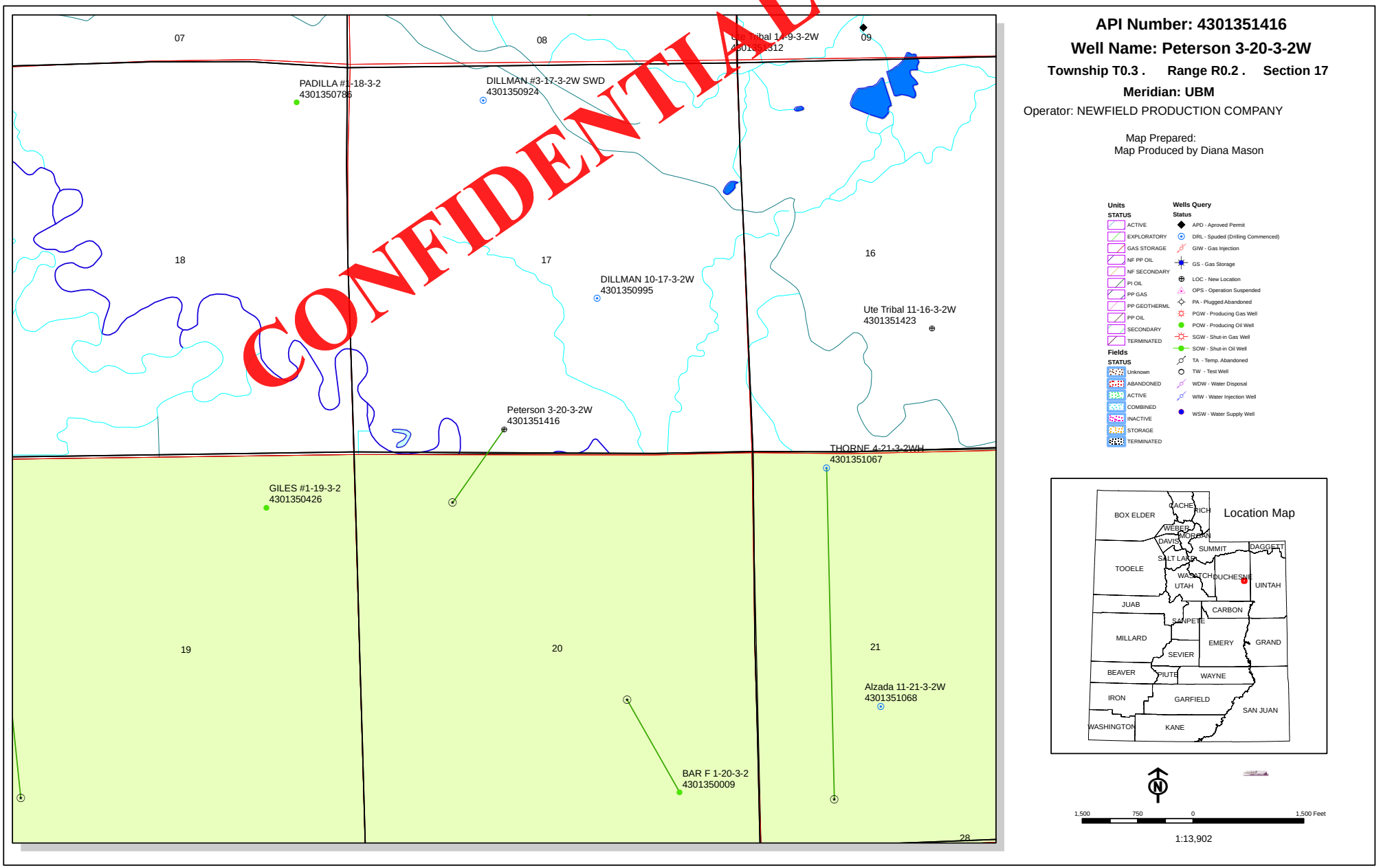
Please be aware that NPC is the owner of 100% of the leasehold interest within a radius of 460' from all points along the intended wellbore, and it is NPC's intent that no portion of the productive interval will be completed in the portions of the wellbore existing nearer than 660' FNL of Section 20, T3S-R2W.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4197 or by email at sgillespie@newfield.com. Your consideration in this matter is greatly appreciated.

Sincerely,
Newfield Production Company

Shane Gillespie
Landman

API Well Number: 43013514160000



API Number: 4301351416

Well Name: Peterson 3-20-3-2W

Township T0.3 . Range R0.2 . Section 17

Meridian: UBM

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
ACTIVE
EXPLORATORY
GAS STORAGE
NF PP OIL
NF SECONDARY
PI OIL
PP GAS
PP GEOTHERML
PP OIL
SECONDARY
TERMINATED

Fields
STATUS
Unknown
ABANDONED
ACTIVE
COMBINED
INACTIVE
STORAGE
TERMINATED

Wells Query
Status
APD - Aproved Permit
DRL - Spuded (Drilling Commenced)
GIW - Gas Injection
GS - Gas Storage
LOC - New Location
OPS - Operation Suspended
PA - Plugged Abandoned
PGW - Producing Gas Well
POW - Producing Oil Well
SGW - Shut-in Gas Well
SOW - Shut-in Oil Well
TA - Temp. Abandoned
TW - Test Well
WDW - Water Disposal
WIW - Water Injection Well
WSW - Water Supply Well

1,500 750 0 1,500 Feet

1:13,902

RECEIVED: June 05, 2012

API Well Number: 43013514160000

BOPE REVIEW NEWFIELD PRODUCTION COMPANY Peterson 3-20-3-2W 43013514160000

Well Name	NEWFIELD PRODUCTION COMPANY Peterson 3-20-3-2W 430135141			
String	COND	SURF	I1	PROD
Casing Size(")	14.000	9.625	7.000	4.500
Setting Depth (TVD)	60	1000	7827	10400
Previous Shoe Setting Depth (TVD)	0	60	1000	7827
Max Mud Weight (ppg)	8.3	8.3	9.5	11.5
BOPE Proposed (psi)	0	500	5000	5000
Casing Internal Yield (psi)	1000	3520	9950	10690
Operators Max Anticipated Pressure (psi)	5949			11.0

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=	432		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	312	YES	air or fresh water drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	212	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	225	NO	OK
Required Casing/BOPE Test Pressure=		1000	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=	3867		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	2928	YES	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2145	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2365	NO	Reasonable
Required Casing/BOPE Test Pressure=		5000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		1000	psi	*Assumes 1psi/ft frac gradient

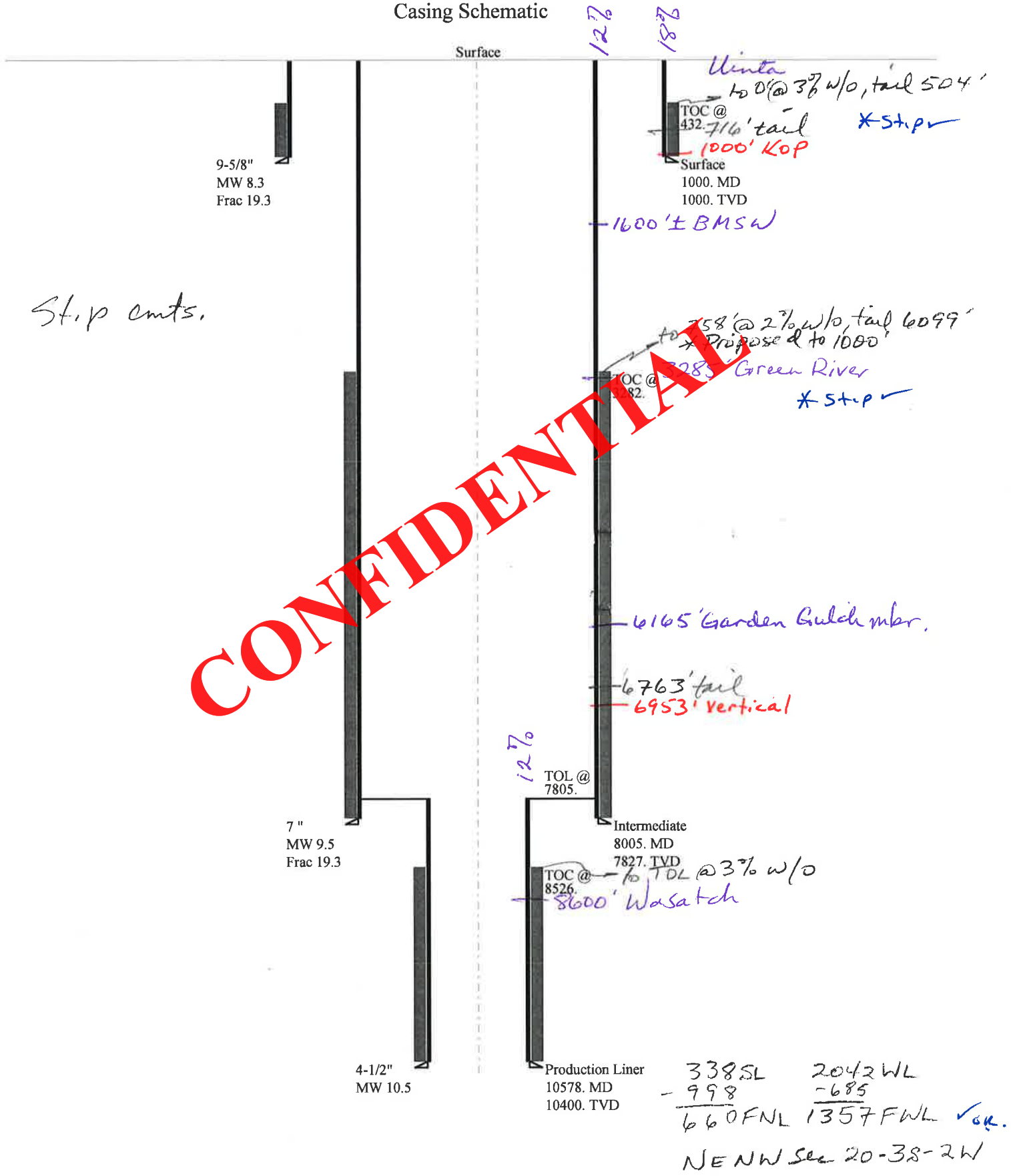
Calculations	PROD String	4.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	6219		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4971	YES	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3931	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	5653	YES	
Required Casing/BOPE Test Pressure=		5000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		7827	psi	*Assumes 1psi/ft frac gradient

RECEIVED: July 02, 2012

API Well Number: 43013514160000

43013514160000 Peterson 3-20-3-2W

Casing Schematic



CONFIDENTIAL

338 SL 2042 WL
- 998 - 685
660 FNL 1357 FWL ✓ QK.

NE NW Sec 20-3S-2W

API Well Number: 43013514160000

Well name:	**43013514160000 Peterson 3-20-3-2W**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Surface
Project ID:	43-013-51416
Location:	DUCHESNE COUNTY

Design parameters:

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

Burst
Max anticipated surface pressure: 880 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,000 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

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

Tension is based on air weight.
Neutral point: 877 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 88 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 432 ft

Non-directional string.

Re subsequent strings:
Next setting depth: 7,827 ft
Next mud weight: 8.330 ppg
Next setting BHP: 3,387 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 1,000 ft
Injection pressure: 1,000 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	1000	9.625	36.00	J-55	LT&C	1000	1000	8.796	8177

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	433	2020	4.668	1000	3520	3.52	36	453	12.58 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: June 14,2012
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 1000 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.

Engineering responsibility for use of this design will be that of the purchaser.

API Well Number: 43013514160000

Well name:	**43013514160000 Peterson 3-20-3-2W**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Intermediate
Project ID:	43-013-51416
Location:	DUCHESNE COUNTY

Design parameters:

Collapse
Mud weight: 9.500 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 3,925 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,647 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

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

Tension is based on air weight.
Neutral point: 6,876 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 184 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 3,282 ft

Directional Info - Build & Drop
Kick-off point 1000 ft
Departure at shoe: 1466 ft
Maximum dogleg: 3 °/100ft
Inclination at shoe: 0 °

Re subsequent strings:
Next setting depth: 10,400 ft
Next mud weight: 11.500 ppg
Next setting BHP: 6,213 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 7,827 ft
Injection pressure: 7,827 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	8005	7	26.00	P-110	LT&C	7827	8005	6.151	83212

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	3862	6230	1.613	5647	9950	1.76	203.5	693	3.41 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: June 14,2012
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 7827 ft, a mud weight of 9.5 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

Engineering responsibility for use of this design will be that of the purchaser.

API Well Number: 43013514160000

Well name:	**43013514160000 Peterson 3-20-3-2W**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Production Liner
Project ID:	43-013-51416
Location:	DUCHESNE COUNTY

Design parameters:

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

Burst
Max anticipated surface pressure: 3,385 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,673 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

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

Tension is based on air weight.
Neutral point: 10,142 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 220 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 8,526 ft

Liner top: 7,805 ft

Directional Info - Build & Drop
Kick-off point 1000 ft
Departure at shoe: 1466 ft
Maximum dogleg: 0 °/100ft
Inclination at shoe: 0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	2778	4.5	11.60	P-110	LT&C	10400	10578	3.875	13384

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	5673	7580	1.336	5673	10690	1.88	32.2	279	8.66 J

Prepared by: Helen Sadik-Macdonald, Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: June 14,2012
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 10400 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

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator NEWFIELD PRODUCTION COMPANY
Well Name Peterson 3-20-3-2W
API Number 43013514160000 **APD No** 5944 **Field/Unit** WILDCAT
Location: 1/4,1/4 SESW **Sec** 17 **Tw** 3.0S **Rng** 2.0W 338 FSL 2042 FWL
GPS Coord (UTM) 573518 4452020 **Surface Owner** Dale Womack, et al.

Participants

T. Eaton, F. Bird, C. Miller, Z. Mc Intyre, J. Henderson– Newfield; C. Jensen,– DOGM ;Dale Womack - Surface Owner

Regional/Local Setting & Topography

Surface Use Plan

Current Surface Use
Agricultural

New Road Miles	Well Pad	Src Const Material	Surface Formation
1.55	**Width** 250 **Length** 400	Offsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands Y

Ox bow lake and wetland immediately below

Flora / Fauna

Dominant vegetation;
Snake broomweed, shadscale and sage brush sparsely surround the proposed site.
Wildlife;
Habitat contains forbs that may be suitable browse for deer, antelope, prairie dogs and rabbits, though none were observed. Disturbed soils do not support habitat for wildlife.

Soil Type and Characteristics

disturbed badlands soils. Mostly clays

Erosion Issues Y

gullying present on sides of the rise the pad is to be built upon

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? Y

RECEIVED: July 02, 2012

location to be bermed to protect wetland and oxbow lake

Erosion Sedimentation Control Required? Y

berm required on the West side of the reserve pit near the gully

Paleo Survey Run? N **Paleo Potental 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)	200 to 300	10
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	10 to 20	5
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
	Final Score	45 1 Sensitivity Level

Characteristics / Requirements

Pit to be dug to a depth of 8'. Because a spill or leak will have a direct path to surface water below from existing gully, pit underlayment is to be used to protect the liner from potential puncture. 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. In addition the pit itself shall be bermed on the western side where the gully is located to prevent drilling fluids from spilling over and reaching the oxbow lake below

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

Other Observations / Comments

access road will cross significant unnamed wash a tributary to a wetland below. Operator has plans to span the wash with a bridge.
Water Rights personell were consulted and see no need for stream alteration permit from their office or that disturbing minor tributary drainages will impact either the wetland or the oxbow lake
Operator has suggested the likely hood of going to a closed loop system

Chris Jensen	5/30/2012
Evaluator	**Date / Time**

RECEIVED: July 02, 2012

Application for Permit to Drill
Statement of Basis
Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
5944	43013514160000	LOCKED	OW	P	No
Operator	NEWFIELD PRODUCTION COMPANY		**Surface Owner-APD**	Dale Womack, et al.	
Well Name	Peterson 3-20-3-2W		**Unit**		
Field	WILDCAT		**Type of Work**	DRILL	
Location	SESW 17 3S 2W U 338 FSL 2042 FWL GPS Coord (UTM) 573546E 4452049N				

Geologic Statement of Basis

Newfield proposes to set 60' of conductor and 1,000' of surface casing at this location. The base of the moderately saline water at this location is estimated to be at a depth of 1,600'. A search of Division of Water Rights records shows 9 water wells within a 10,000 foot radius of the center of Section 17. All but 1 well are located over a mile from the proposed location. All wells are privately owned. Depth is listed as ranging from 45 to 142 feet. Average depth is less than 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 significant source of useable ground water. The shallower wells to the south of the proposed location probably produce from near surface alluvial sediments. Intermediate casing cement should be brought up to or above the base of the moderately saline ground water in order to isolate it from fresher waters uphole.

Brad Hill — **APD Evaluator**

6/20/2012 — **Date / Time**

Surface Statement of Basis

Operator has a surface agreement in place with the landowner. I was made aware that some concessions were made to the landowner. Location is proposed in the best possible position within the spacing window. Access road is going to be placed across an ephemeral wash east of the pad.

The soil type and topography at present do combine to pose a minor threat to erosion or sediment/ pollution transport in these regional climate conditions. Gullys and small ephemeral stream beds present nearby give spills a ready channel for easy transport to oxbow lake and wetland below making additional berming of the rreserve pit a good precaution. Construction standards of the Operator , with changes mentioned before, 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 as the soils are mostly clay badlands and are aprsely vegetated at best. The landowner was invited and was in attendance for the pre-site inspection. The location should be bermed to prevent spills from leaving the confines of the pad. Fencing around the reserve pit will be necessary once the well is drilled to prevent wildlife and livestock from entering. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit.

Chris Jensen — **Onsite Evaluator**

5/30/2012 — **Date / Time**

RECEIVED: July 02, 2012

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

RECEIVED: July 02, 2012

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/16/2012 **API NO. ASSIGNED:** 43013514160000
WELL NAME: Peterson 3-20-3-2W
OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695) **PHONE NUMBER:** 435 719-2018
CONTACT: Don Hamilton

PROPOSED LOCATION: SESW 17 030S 020W **Permit Tech Review:** ☑
SURFACE: 0338 FSL 2042 FWL **Engineering Review:** ☑
BOTTOM: 0660 FNL 1321 FWL **Geology Review:** ☑
COUNTY: DUCHESNE
LATITUDE: 40.21564 **LONGITUDE:** -110.13568
UTM SURF EASTINGS: 573546.00 **NORTHINGS:** 4452049.00
FIELD NAME: WILDCAT
LEASE TYPE: 4 - Fee
LEASE NUMBER: patented **PROPOSED PRODUCING FORMATION(S):** WASATCH
SURFACE OWNER: 4 - Fee **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

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

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit:

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 139-90
Effective Date: 5/9/2012
Siting: 4 Prod LGRRV-WSTC Per Sectional Drilling Units

- ☑ **R649-3-11. Directional Drill**

Comments: Presite Completed

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

RECEIVED: July 02, 2012

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill
****

Well Name: Peterson 3-20-3-2W
API Well Number: 43013514160000
Lease Number: patented
Surface Owner: FEE (PRIVATE)
Approval Date: 7/2/2012

Issued to:
NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

Authority:
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-90. The expected producing formation or pool is the WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

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

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

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

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.

Surface casing shall be cemented to the surface.

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

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

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

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

Notification Requirements:

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

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

Contact Information:

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

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

Reporting Requirements:

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

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

Approved By:

Approved By:

For John Rogers
Associate Director, Oil & Gas

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 31 Submitted By Branden Arnold Phone Number 435-401-0223
Well Name/Number Peterson 3-20-3-2W
Qtr/Qtr SE/SW Section 17 Township 3S Range 2W
Lease Serial Number Patented
API Number 43-013-51416

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

Date/Time 7/18/12 8:00 AM ☒ PM ☐

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

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 7/18/12 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
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: patented

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
PETERSON 3-20-3-2W

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
43013514160000

3. ADDRESS OF OPERATOR:
Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER:
435 646-4825 Ext

9. FIELD and POOL or WILDCAT:
WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0338 FSL 2042 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SESW Section: 17 Township: 03.0S Range: 02.0W Meridian: U

COUNTY:
DUCHESNE

STATE:
UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 8/28/2012	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Newfield Production Company respectfully submits the attached updated drilling plan with minor changes made to what was previously approved.

Approved by the Utah Division of Oil, Gas and Mining

Date: August 29, 2012

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Don Hamilton	435 719-2018	Permitting Agent
SIGNATURE		**DATE**
N/A		8/25/2012

RECEIVED: Aug. 25, 2012

Newfield Production Company
Peterson 3-20-3-2W
NW/NW Section 20, T3S, R2W
Duchesne County, UT

Drilling Program

1. Formation Tops

	TVD	MD
Uinta	surface	surface
Green River	3,285'	3,347'
Garden Gulch member	6,165'	6,320'
Wasatch	8,600'	8,779'
TD	10,400'	10,578'

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

	TVD			
Base of moderately saline	588'			(water)
Green River	6,165'	-	8,600'	(oil)
Wasatch	8,600'	-	TD	(oil)

3. Pressure Control

Section	BOP Description
Surface	12-1/4" diverter
Interm/Prod	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system. A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 psi will be used.

4. Casing

Description	Interval (MD)		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom							Burst	Collapse	Tension
Conductor 14	0'	60'	37	H-40	Weld	--	--	--	--	--	--
									--	--	--
Surface 9 5/8	0'	1,000'	36	J-55	LTC	8.33	8.33	12	3,520	2,020	453,000
									6.27	6.35	12.58
Intermediate 7	0'	8,005'	26	P-110	LTC	9	9.5	15	9,960	6,210	693,000
									2.64	1.97	3.33
Production 4 1/2	7,805'	10,578'	11.6	P-110	LTC	11	11.5	--	10,690	7,560	279,000
									2.14	1.44	2.27

Assumptions:

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Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)
Intermediate casing MASP = (reservoir pressure) - (gas gradient)
Production casing MASP = (reservoir pressure) - (gas gradient)
All collapse calculations assume fully evacuated casing with a gas gradient
All tension calculations assume air weight of casing
Gas gradient = 0.1 psi/ft

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

5. Cement

Job	Hole Size	Fill	Slurry Description	ft^3 / sacks	OH excess	Weight (ppg)	Yield (ft^3/sk)
Conductor	17 1/2	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	41 / 35	15%	15.8	1.17
Surface Lead	12 1/4	500'	Premium Lite II w/ 3% KCl + 10% bentonite	180 / 51	15%	11.0	3.53
Surface Tail	12 1/4	500'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	180 / 154	15%	15.8	1.17
Intermediate Lead	8 3/4	5,165'	HLC Premium - 65% Class G / 35% Poz + 10% bentonite	893 / 440	15%	12.5	2.03
Intermediate Tail	8 3/4	1,840'	50/50 Poz/Class G w/ 1% bentonite	318 / 247	15%	14.0	1.29
Production Tail	6 1/8	2,773'	50/50 Poz/Class G w/ 1% bentonite	300 / 238	15%	14.0	1.26

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

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

6. Type and Characteristics of Proposed Circulating Medium

Interval	Description
Surface - 1,000'	An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.
1,000' - 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.

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Anticipated maximum mud weight is 11.5 ppg.

7. Logging, Coring, and Testing

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

Cores: As deemed necessary.

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

8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.57 psi/ft gradient.

10,400' x 0.57 psi/ft = 5949 psi

No abnormal temperature is expected. No H_2S is expected.

9. Other Aspects

This is planned as a "S" shaped directional well. See attached directional plan.

Newfield requests the following variances from Onshore Order #2:

- Variance from Onshoer Order #2, III.E.1
  Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

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B	99999	17400	4301351270	GMBU X-11-9-17	NWNW	14	9S	17E	DUCHESNE	8/24/2012	10/31/12

GRRV BHL: S11 SESW

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
A	99999	18786	4301351416	PETERSON 3-20-3-2W	SESW	17	3S	2W	DUCHESNE	7/17/2012	10/31/12

WSTC BHL: S20 NWNW

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
A	99999	18783	4301351549	HOLGATE 11-5-3-3WH	NESW	5	3S	3W	DUCHESNE	9/4/2012	10/31/12

GR-WS

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

Tasha Robison
Signature

Production Clerk

10·31·12

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

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OCT 31 2012
Div. of Oil, Gas & Mining

Form 3160-4
(August 2007)

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

5. Lease Serial No.
PATENTED

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

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.
PETERSON 3-20-3-2W

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

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

9. AFI Well No.
43-013-51416

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

At surface 338' FSL & 2042' FWL (SE/SW) SEC. 17, T3S, R2W

10. Field and Pool or Exploratory
WILDCAT

11. Sec., T., R., M., on Block and Survey or Area
SEC. 17, T3S, R2W

At top prod. interval reported below 731' FNL & 1340' FWL (NE/NW) SEC. 20, T3S, R2W

At total depth 768' FNL & 1335' FWL (NE/NW) SEC. 20, T3S, R2W BHL by DOGM HSM

12. County or Parish
DUCHESNE

13. State
UT

14. Date Spudded
07/17/2012

15. Date T.D. Reached
09/09/2012

16. Date Completed 10/27/2012
☐ D & A ☑ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
5150' GL 5168' KB

18. Total Depth: MD 10075'
TVD 9943'

19. Plug Back T.D.: MD 10018
TVD 9886

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" J-55	36#	0	1027'		395 CLASS "G"			
8-3/4"	7" P-110	26#	0	8093'		675 VERSCEM		4958'	
						300 BONDCEM			
6-1/8"	4-1/2" P-110	11.6#	7727'	10066'		255 EXPANDA			

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 @ 8269'							

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River	8296' MD	8311' MD	8296-9449' MD	0.35"	99	
B) Wasatch	8713' MD	9449' MD				
C)						
D)						

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

Depth Interval	Amount and Type of Material
8296-9449' MD	Frac w/ 581820#s 20/40 white sand; 7935 bbls Lightning 17 fluid; 4 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
10/28/12	11/7/12	24	→	370	328	392			FLOWING

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					PRODUCING

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

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

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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	6212'
				DOUGLAS CREEK	7338'
				BI-CARBONATE	7631'
				B LIMESTONE	7873'
				CASTLE PEAK	8253'
				BASAL CARBONATE	8548'
				WASATCH	8687'

32. Additional remarks (include plugging procedure):

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

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☑ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☑ Other: 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 Jennifer Peatross Date 12/03/2012

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.

(Continued on page 3)

NEWFIELD EXPLORATION

USGS Myton SW (UT)
SECTION 17 T3S, R2W
3-20-3-2W

Wellbore #1

Design: Actual

Standard Survey Report

10 September, 2012

NEWFIELD

Payzone Directional

Survey Report

Company:	NEWFIELD EXPLORATION	**Local Co-ordinate Reference:**	Well 3-20-3-2W
Project:	USGS Myton SW (UT)	**TVD Reference:**	3-20-3-2W @ 5161.9ft (LEON ROSS 31)
Site:	SECTION 17 T3S, R2W	**MD Reference:**	3-20-3-2W @ 5161.9ft (LEON ROSS 31)
Well:	3-20-3-2W	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Actual	**Database:**	EDM 2003.21 Single User Db

Project USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA

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

Site SECTION 17 T3S, R2W

Site Position:		**Northing:**	7,252,555.18 ft	**Latitude:**	40° 13' 19.690 N
From:	Map	**Easting:**	2,022,062.25 ft	**Longitude:**	110° 7' 59.426 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.88 °

Well 3-20-3-2W, SHL LAT: 40 12 56.38 LONG: -110 08 08.43

Well Position	**+N/-S**	0.0 ft	**Northing:**	7,250,186.17 ft	**Latitude:**	40° 12' 56.380 N
	+E/-W	0.0 ft	**Easting:**	2,021,399.94 ft	**Longitude:**	110° 8' 8.430 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	5,161.9 ft	**Ground Level:**	5,149.9 ft

Wellbore Wellbore #1

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	9/10/2012	11.21	65.89	52,233

Design Actual

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.0	0.0	0.0	248.50

Survey Program **Date** 9/10/2012

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
72.0	1,025.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

Survey

Measured Depth (ft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Vertical Section (ft)**	**Dogleg Rate (°/100ft)**	**Build Rate (°/100ft)**	**Turn Rate (°/100ft)**
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
72.0	0.26	216.31	72.0	-0.1	-0.1	0.1	0.36	0.36	0.00
104.0	0.35	151.36	104.0	-0.3	-0.1	0.2	1.05	0.28	-202.97
133.0	0.35	260.52	133.0	-0.4	-0.1	0.3	1.97	0.00	376.41
163.0	0.40	260.08	163.0	-0.4	-0.3	0.5	0.17	0.17	-1.47
193.0	0.44	267.55	193.0	-0.4	-0.5	0.7	0.23	0.13	24.90
223.0	0.53	259.29	223.0	-0.5	-0.8	0.9	0.38	0.30	-27.53
253.0	0.48	253.45	253.0	-0.5	-1.1	1.2	0.24	-0.17	-19.47
285.0	0.62	263.91	285.0	-0.6	-1.4	1.5	0.54	0.44	32.69
315.0	0.59	256.00	315.0	-0.6	-1.7	1.8	0.30	-0.10	-26.37
345.0	0.57	265.09	345.0	-0.7	-2.0	2.1	0.31	-0.07	30.30
375.0	0.57	255.69	375.0	-0.7	-2.3	2.4	0.31	0.00	-31.33
405.0	0.62	254.28	405.0	-0.8	-2.6	2.7	0.17	0.17	-4.70

NEWFIELD

Payzone Directional

Survey Report

Company:	NEWFIELD EXPLORATION	**Local Co-ordinate Reference:**	Well 3-20-3-2W
Project:	USGS Myton SW (UT)	**TVD Reference:**	3-20-3-2W @ 5161.9ft (LEON ROSS 31)
Site:	SECTION 17 T3S, R2W	**MD Reference:**	3-20-3-2W @ 5161.9ft (LEON ROSS 31)
Well:	3-20-3-2W	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Actual	**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)
435.0	0.62	249.58	435.0	-0.9	-2.9	3.0	0.17	0.00	-15.67
465.0	0.62	248.39	465.0	-1.0	-3.2	3.3	0.04	0.00	-3.97
495.0	0.62	252.52	495.0	-1.1	-3.5	3.7	0.15	0.00	13.77
525.0	0.59	244.35	525.0	-1.2	-3.8	4.0	0.30	-0.10	-27.23
555.0	0.62	253.40	555.0	-1.4	-4.1	4.3	0.33	0.10	30.17
585.0	0.66	257.01	585.0	-1.4	-4.4	4.6	0.19	0.13	12.03
615.0	0.66	250.50	615.0	-1.5	-4.7	5.0	0.25	0.00	-21.70
645.0	0.66	256.30	645.0	-1.6	-5.1	5.3	0.22	0.00	19.33
675.0	0.83	251.60	675.0	-1.8	-5.4	5.7	0.60	0.57	-15.67
705.0	0.88	249.76	705.0	-1.9	-5.9	6.1	0.19	0.17	-6.13
735.0	0.97	251.95	735.0	-2.1	-6.3	6.6	0.32	0.30	7.30
765.0	0.97	248.00	765.0	-2.2	-6.8	7.1	0.22	0.00	-13.17
795.0	0.92	245.71	795.0	-2.4	-7.2	7.6	0.21	-0.17	-7.63
825.0	0.83	242.50	825.0	-2.6	-7.7	8.1	0.34	-0.30	-10.70
855.0	0.79	239.03	854.9	-2.8	-8.0	8.5	0.21	-0.13	-11.57
885.0	0.83	233.98	884.9	-3.1	-8.4	8.9	0.27	0.13	-16.83
915.0	0.75	241.71	914.9	-3.3	-8.7	9.3	0.44	-0.27	25.77
945.0	0.77	240.14	944.9	-3.5	-9.1	9.7	0.10	0.07	-5.23
960.0	0.75	244.22	959.9	-3.6	-9.2	9.9	0.38	-0.13	27.20
1,025.0	0.75	244.22	1,024.9	-3.9	-10.0	10.8	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____

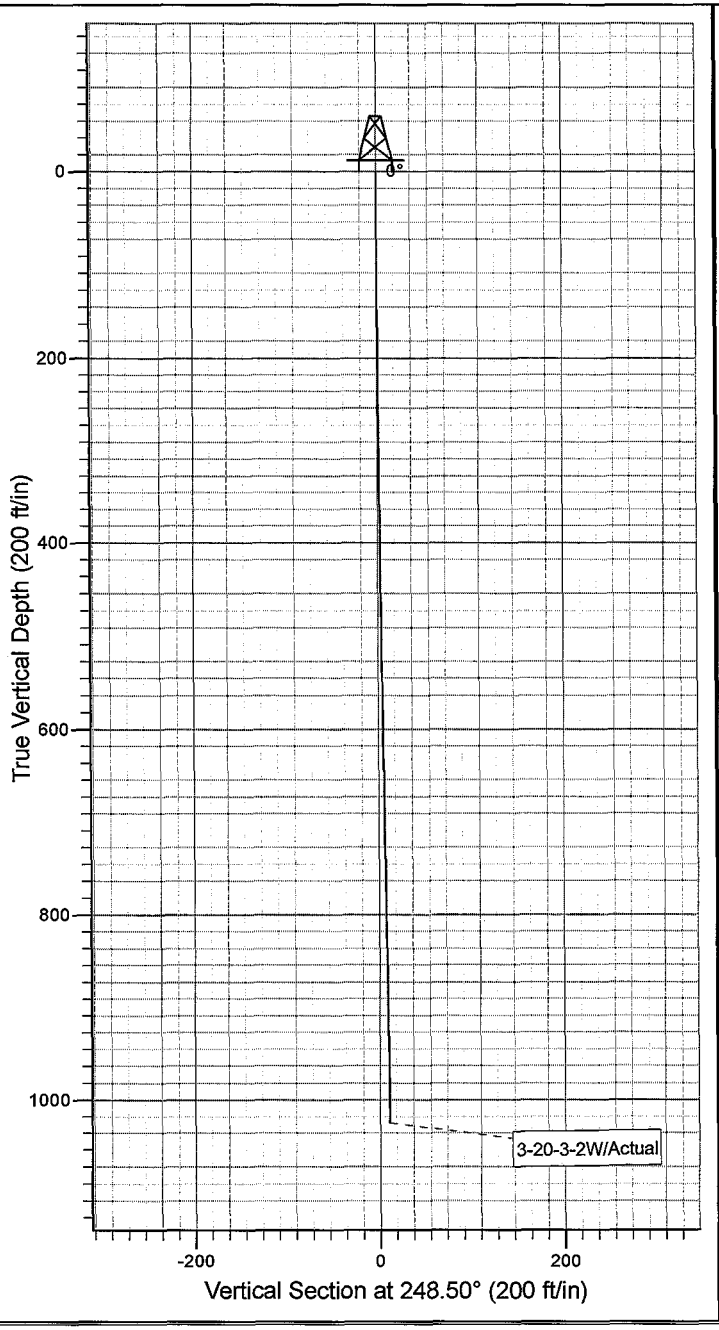
NEWFIELD

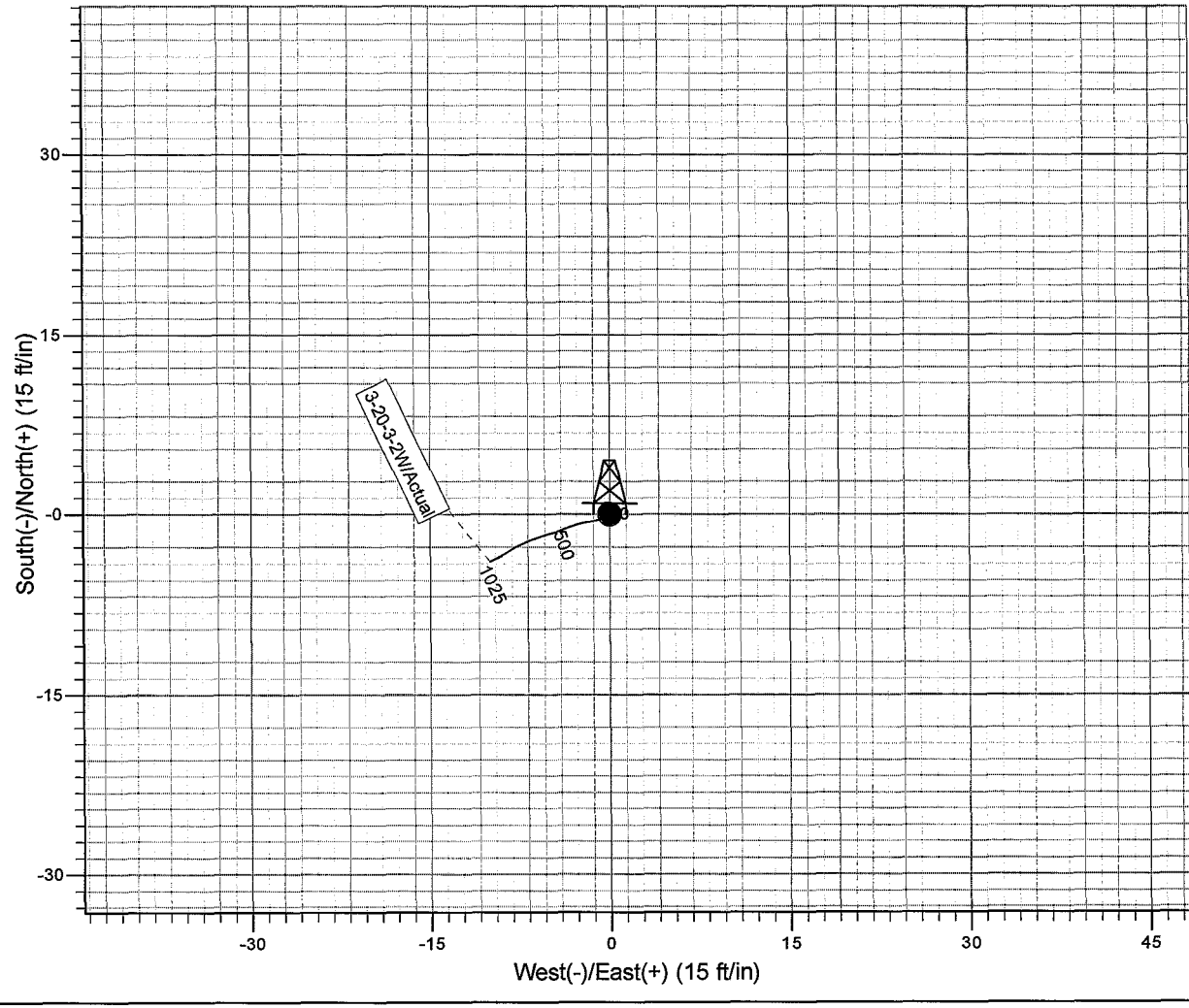
Project: USGS Myton SW (UT)
Site: SECTION 17 T3S, R2W
Well: 3-20-3-2W
Wellbore: Wellbore #1
Design: Actual

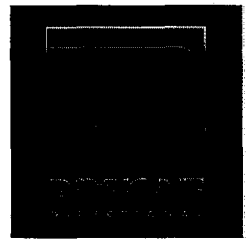
T M

Azimuths to True North
Magnetic North: 11.21°

Magnetic Field
Strength: 52233.2snT
Dip Angle: 65.89°
Date: 9/10/2012
Model: IGRF2010







Design: Actual (3-20-3-2W/Wellbore #1)

Created By: Sarah Webb Date: 14:51, September 10 201

THIS SURVEY IS CORRECT TO THE BEST OF
MY KNOWLEDGE AND IS SUPPORTED
BY ACTUAL FIELD DATA

Weatherford®

NEWFIELD EXPLORATION CO.

DUCHESNE COUNTY, UT
PETERSON 3-20-3-2W
PETERSON 3-20-3-2W

PETERSON 3-20-3-2W

Survey: Survey #1

Standard Survey Report

06 September, 2012

Weatherford®

Company:	NEWFIELD EXPLORATION CO.	**Local Co-ordinate Reference:**	Well PETERSON 3-20-3-2W
Project:	DUCHESNE COUNTY, UT	**TVD Reference:**	WELL @ 5168.00ft (PIONEER 68)
Site:	PETERSON 3-20-3-2W	**MD Reference:**	WELL @ 5168.00ft (PIONEER 68)
Well:	PETERSON 3-20-3-2W	**North Reference:**	True
Wellbore:	PETERSON 3-20-3-2W	**Survey Calculation Method:**	Minimum Curvature
Design:	PETERSON 3-20-3-2W	**Database:**	EDM 5000.1 Single User Db

Project DUCHESNE COUNTY, UT

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

Site PETERSON 3-20-3-2W

Site Position:		**Northing:**	7,250,186.17 usft	**Latitude:**	40° 12' 56.380 N
From:	Lat/Long	**Easting:**	2,021,399.94 usft	**Longitude:**	110° 8' 8.430 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13-3/16"	**Grid Convergence:**	0.87 °

Well PETERSON 3-20-3-2W

Well Position	**+N/-S**	0.00 ft	**Northing:**	7,250,186.17 usft	**Latitude:**	40° 12' 56.380 N
	+E/-W	0.00 ft	**Easting:**	2,021,399.94 usft	**Longitude:**	110° 8' 8.430 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,150.00 ft

Wellbore PETERSON 3-20-3-2W

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	BGGM2012	8/17/2012	11.25	65.87	52,186

Design PETERSON 3-20-3-2W

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.00	0.00	0.00	214.52

Survey Program **Date** 9/6/2012

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
1,042.00	10,075.00	Survey #1 (PETERSON 3-20-3-2W)	MWD	MWD - Standard

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
960.00	0.75	244.22	959.94	-3.57	-9.25	8.18	0.00	0.00	0.00
1,042.00	0.69	249.64	1,041.93	-3.98	-10.20	9.05	0.11	-0.07	6.61
1,103.00	0.83	236.00	1,102.93	-4.35	-10.91	9.76	0.37	0.23	-22.36
1,135.00	0.69	235.94	1,134.93	-4.59	-11.26	10.16	0.44	-0.44	-0.19
1,198.00	0.36	330.95	1,197.92	-4.63	-11.67	10.42	1.28	-0.52	150.81
1,262.00	2.53	20.14	1,261.90	-3.12	-11.28	8.97	3.61	3.39	76.86
1,325.00	2.62	19.67	1,324.84	-0.46	-10.32	6.23	0.15	0.14	-0.75
1,388.00	1.57	228.67	1,387.82	0.32	-10.48	5.67	6.45	-1.67	-239.68
1,451.00	4.93	214.16	1,450.71	-2.49	-12.65	9.22	5.45	5.33	-23.03
1,514.00	7.86	214.09	1,513.31	-8.30	-16.58	16.23	4.65	4.65	-0.11
1,577.00	10.43	219.54	1,575.51	-16.26	-22.63	26.22	4.30	4.08	8.65
1,641.00	11.64	221.45	1,638.32	-25.57	-30.59	38.40	1.97	1.89	2.98
1,704.00	13.37	217.89	1,699.82	-36.08	-39.27	51.99	3.01	2.75	-5.65

Company:	NEWFIELD EXPLORATION CO.	**Local Co-ordinate Reference:**	Well PETERSON 3-20-3-2W
Project:	DUCHESNE COUNTY, UT	**TVD Reference:**	WELL @ 5168.00ft (PIONEER 68)
Site:	PETERSON 3-20-3-2W	**MD Reference:**	WELL @ 5168.00ft (PIONEER 68)
Well:	PETERSON 3-20-3-2W	**North Reference:**	True
Wellbore:	PETERSON 3-20-3-2W	**Survey Calculation Method:**	Minimum Curvature
Design:	PETERSON 3-20-3-2W	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,767.00	14.91	217.54	1,760.91	-48.26	-48.69	67.35	2.45	2.44	-0.56
1,830.00	15.61	212.05	1,821.70	-61.87	-58.12	83.92	2.55	1.11	-8.71
1,894.00	16.17	207.19	1,883.25	-77.10	-66.77	101.36	2.25	0.88	-7.59
1,957.00	16.61	204.66	1,943.69	-93.08	-74.53	118.93	1.33	0.70	-4.02
2,020.00	15.94	204.54	2,004.17	-109.14	-81.88	136.32	1.06	-1.06	-0.19
2,084.00	15.42	203.42	2,065.79	-124.94	-88.91	153.33	0.94	-0.81	-1.75
2,147.00	14.60	205.38	2,126.64	-139.80	-95.65	169.39	1.53	-1.30	3.11
2,210.00	14.40	206.29	2,187.63	-154.00	-102.52	184.98	0.48	-0.32	1.44
2,274.00	14.08	208.94	2,249.66	-167.94	-109.81	200.60	1.13	-0.50	4.14
2,336.00	14.29	210.34	2,309.77	-181.15	-117.32	215.74	0.65	0.34	2.26
2,400.00	14.23	209.59	2,371.80	-194.80	-125.20	231.45	0.30	-0.09	-1.17
2,462.00	12.94	208.89	2,432.07	-207.51	-132.32	245.96	2.10	-2.08	-1.13
2,526.00	12.38	208.63	2,494.51	-219.81	-139.07	259.91	0.88	-0.88	-0.41
2,589.00	12.27	208.05	2,556.06	-231.64	-145.45	273.28	0.26	-0.17	-0.92
2,652.00	12.38	207.08	2,617.61	-243.56	-151.67	286.63	0.37	0.17	-1.54
2,716.00	12.08	211.27	2,680.16	-255.40	-158.27	300.12	1.46	-0.47	6.55
2,780.00	11.93	215.98	2,742.76	-266.47	-165.63	313.42	1.55	-0.23	7.36
2,843.00	12.00	216.13	2,804.39	-277.03	-173.32	326.47	0.12	0.11	0.24
2,906.00	12.16	216.26	2,865.99	-287.67	-181.11	339.65	0.26	0.25	0.21
2,970.00	12.35	216.37	2,928.53	-298.62	-189.15	353.23	0.30	0.30	0.17
3,033.00	12.21	215.12	2,990.09	-309.49	-196.98	366.63	0.48	-0.22	-1.98
3,096.00	12.26	215.04	3,051.66	-320.42	-204.65	379.98	0.08	0.08	-0.13
3,160.00	12.30	214.20	3,114.20	-331.62	-212.39	393.59	0.29	0.06	-1.31
3,223.00	12.11	213.37	3,175.77	-342.69	-219.79	406.91	0.41	-0.30	-1.32
3,286.00	12.02	212.23	3,237.38	-353.76	-226.93	420.07	0.40	-0.14	-1.81
3,351.00	11.91	210.92	3,300.97	-365.24	-233.98	433.53	0.45	-0.17	-2.02
3,414.00	11.78	208.63	3,362.63	-376.46	-240.40	446.41	0.77	-0.21	-3.63
3,477.00	11.60	210.01	3,424.32	-387.59	-246.65	459.12	0.53	-0.29	2.19
3,541.00	11.17	210.26	3,487.06	-398.51	-253.00	471.72	0.68	-0.67	0.39
3,604.00	10.77	209.15	3,548.91	-408.92	-258.94	483.66	0.72	-0.63	-1.76
3,667.00	10.78	213.62	3,610.80	-418.97	-265.07	495.42	1.33	0.02	7.10
3,731.00	10.67	216.34	3,673.68	-428.73	-271.89	507.32	0.81	-0.17	4.25
3,794.00	11.06	216.46	3,735.56	-438.29	-278.94	519.19	0.62	0.62	0.19
3,857.00	10.80	214.74	3,797.41	-448.00	-285.89	531.13	0.66	-0.41	-2.73
3,921.00	11.19	212.76	3,860.24	-458.15	-292.67	543.34	0.85	0.61	-3.09
3,984.00	11.42	213.24	3,922.02	-468.50	-299.40	555.68	0.39	0.37	0.76
4,047.00	11.63	214.51	3,983.75	-478.95	-306.41	568.27	0.52	0.33	2.02
4,110.00	11.52	214.57	4,045.46	-489.37	-313.58	580.91	0.18	-0.17	0.10
4,171.00	10.58	213.12	4,105.33	-499.07	-320.10	592.60	1.61	-1.54	-2.38
4,236.00	10.79	212.91	4,169.21	-509.18	-326.66	604.65	0.33	0.32	-0.32
4,299.00	12.04	215.67	4,230.96	-519.47	-333.70	617.11	2.16	1.98	4.38
4,363.00	11.92	215.47	4,293.56	-530.27	-341.43	630.39	0.20	-0.19	-0.31
4,426.00	11.43	214.79	4,355.26	-540.70	-348.76	643.14	0.81	-0.78	-1.08
4,489.00	10.42	211.41	4,417.12	-550.69	-355.30	655.07	1.90	-1.60	-5.37
4,552.00	10.41	211.12	4,479.08	-560.42	-361.21	666.44	0.08	-0.02	-0.46
4,615.00	10.24	213.93	4,541.06	-569.94	-367.27	677.72	0.84	-0.27	4.46
4,677.00	10.38	214.23	4,602.06	-579.13	-373.49	688.82	0.24	0.23	0.48
4,740.00	11.34	215.24	4,663.93	-588.88	-380.26	700.69	1.55	1.52	1.60
4,804.00	11.44	213.69	4,726.67	-599.30	-387.41	713.33	0.50	0.16	-2.42
4,867.00	12.14	212.29	4,788.34	-610.10	-394.41	726.19	1.20	1.11	-2.22
4,930.00	11.17	210.16	4,850.04	-620.98	-401.02	738.90	1.68	-1.54	-3.38
4,994.00	11.84	212.29	4,912.76	-631.89	-407.64	751.64	1.24	1.05	3.33
5,057.00	12.69	215.53	4,974.32	-642.98	-415.12	765.02	1.74	1.35	5.14
5,120.00	11.47	213.20	5,035.92	-653.86	-422.57	778.20	2.09	-1.94	-3.70

Company:	NEWFIELD EXPLORATION CO.	**Local Co-ordinate Reference:**	Well PETERSON 3-20-3-2W
Project:	DUCHESNE COUNTY, UT	**TVD Reference:**	WELL @ 5168.00ft (PIONEER 68)
Site:	PETERSON 3-20-3-2W	**MD Reference:**	WELL @ 5168.00ft (PIONEER 68)
Well:	PETERSON 3-20-3-2W	**North Reference:**	True
Wellbore:	PETERSON 3-20-3-2W	**Survey Calculation Method:**	Minimum Curvature
Design:	PETERSON 3-20-3-2W	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,183.00	11.15	214.09	5,097.70	-664.14	-429.41	790.55	0.58	-0.51	1.41
5,246.00	11.19	215.43	5,159.51	-674.17	-436.37	802.76	0.42	0.06	2.13
5,308.00	11.31	215.43	5,220.31	-684.03	-443.38	814.85	0.19	0.19	0.00
5,372.00	12.10	216.09	5,282.98	-694.56	-450.97	827.83	1.25	1.23	1.03
5,436.00	12.72	215.00	5,345.49	-705.75	-458.96	841.58	1.04	0.97	-1.70
5,499.00	12.95	212.94	5,406.91	-717.36	-466.78	855.57	0.81	0.37	-3.27
5,563.00	11.76	209.35	5,469.43	-729.06	-473.88	869.24	2.21	-1.86	-5.61
5,626.00	12.01	208.08	5,531.08	-740.44	-480.11	882.15	0.57	0.40	-2.02
5,689.00	12.73	209.83	5,592.62	-752.25	-486.65	895.58	1.29	1.14	2.78
5,753.00	12.70	212.00	5,655.05	-764.33	-493.88	909.63	0.75	-0.05	3.39
5,816.00	12.43	213.54	5,716.54	-775.85	-501.30	923.33	0.68	-0.43	2.44
5,878.00	12.46	213.62	5,777.08	-786.98	-508.69	936.69	0.06	0.05	0.13
5,942.00	11.90	211.37	5,839.64	-798.37	-515.95	950.18	1.15	-0.88	-3.52
6,005.00	11.20	210.59	5,901.37	-809.18	-522.44	962.77	1.14	-1.11	-1.24
6,068.00	12.33	211.78	5,963.04	-820.17	-529.10	975.60	1.83	1.79	1.89
6,130.00	11.50	211.52	6,023.71	-831.06	-535.82	988.38	1.34	-1.34	-0.42
6,194.00	11.30	211.69	6,086.44	-841.84	-542.44	1,001.01	0.32	-0.31	0.27
6,257.00	11.15	211.48	6,148.24	-852.28	-548.87	1,013.26	0.25	-0.24	-0.33
6,320.00	12.66	214.44	6,209.88	-863.17	-555.95	1,026.25	2.58	2.40	4.70
6,383.00	11.56	213.82	6,271.48	-874.11	-563.37	1,039.47	1.76	-1.75	-0.98
6,447.00	11.64	215.14	6,334.17	-884.72	-570.66	1,052.33	0.43	0.13	2.06
6,510.00	12.32	218.73	6,395.80	-895.16	-578.52	1,065.39	1.60	1.08	5.70
6,573.00	12.19	218.14	6,457.37	-905.63	-586.83	1,078.73	0.29	-0.21	-0.94
6,637.00	11.70	218.45	6,519.98	-916.03	-595.04	1,091.95	0.77	-0.77	0.48
6,700.00	12.07	218.52	6,581.63	-926.19	-603.12	1,104.89	0.59	0.59	0.11
6,763.00	12.53	220.28	6,643.18	-936.55	-611.64	1,118.26	0.94	0.73	2.79
6,826.00	12.32	216.01	6,704.71	-947.20	-620.01	1,131.78	1.50	-0.33	-6.78
6,890.00	11.84	212.86	6,767.29	-958.24	-627.58	1,145.17	1.27	-0.75	-4.92
6,953.00	11.63	214.94	6,828.97	-968.88	-634.73	1,157.98	0.75	-0.33	3.30
7,016.00	11.64	214.77	6,890.68	-979.30	-641.99	1,170.69	0.06	0.02	-0.27
7,079.00	10.94	214.52	6,952.46	-989.45	-649.00	1,183.02	1.11	-1.11	-0.40
7,143.00	10.06	213.95	7,015.39	-999.09	-655.56	1,194.68	1.38	-1.38	-0.89
7,206.00	9.72	213.36	7,077.45	-1,008.10	-661.56	1,205.50	0.56	-0.54	-0.94
7,269.00	8.41	214.65	7,139.66	-1,016.33	-667.11	1,215.43	2.10	-2.08	2.05
7,333.00	7.64	212.83	7,203.04	-1,023.75	-672.07	1,224.36	1.27	-1.20	-2.84
7,395.00	6.37	212.49	7,264.57	-1,030.12	-676.16	1,231.92	2.05	-2.05	-0.55
7,458.00	4.90	212.61	7,327.27	-1,035.33	-679.48	1,238.10	2.33	-2.33	0.19
7,521.00	4.48	218.96	7,390.06	-1,039.51	-682.48	1,243.24	1.06	-0.67	10.08
7,584.00	3.92	223.46	7,452.89	-1,042.99	-685.51	1,247.82	1.03	-0.89	7.14
7,646.00	3.37	220.99	7,514.76	-1,045.90	-688.16	1,251.73	0.92	-0.89	-3.98
7,710.00	3.19	222.21	7,578.66	-1,048.64	-690.59	1,255.36	0.30	-0.28	1.91
7,773.00	3.30	221.01	7,641.56	-1,051.31	-692.96	1,258.90	0.21	0.17	-1.90
7,836.00	2.87	215.29	7,704.46	-1,053.96	-695.06	1,262.28	0.84	-0.68	-9.08
7,899.00	2.39	211.26	7,767.40	-1,056.37	-696.65	1,265.17	0.82	-0.76	-6.40
7,963.00	2.34	207.64	7,831.34	-1,058.67	-697.95	1,267.80	0.25	-0.08	-5.66
8,026.00	2.10	208.62	7,894.30	-1,060.83	-699.10	1,270.22	0.39	-0.38	1.56
8,045.00	1.98	210.03	7,913.28	-1,061.41	-699.43	1,270.90	0.68	-0.63	7.42
8,111.00	2.07	213.65	7,979.24	-1,063.39	-700.66	1,273.22	0.24	0.14	5.48
8,174.00	2.18	205.23	8,042.20	-1,065.43	-701.80	1,275.54	0.52	0.17	-13.37
8,238.00	1.62	183.49	8,106.16	-1,067.43	-702.38	1,277.52	1.41	-0.88	-33.97
8,301.00	1.51	159.58	8,169.14	-1,069.10	-702.14	1,278.76	1.04	-0.17	-37.95
8,365.00	1.82	164.74	8,233.11	-1,070.87	-701.58	1,279.90	0.54	0.48	8.06
8,428.00	1.44	168.63	8,296.09	-1,072.61	-701.16	1,281.10	0.63	-0.60	6.17
8,491.00	1.40	180.69	8,359.07	-1,074.15	-701.02	1,282.29	0.48	-0.06	19.14

Company:	NEWFIELD EXPLORATION CO.	**Local Co-ordinate Reference:**	Well PETERSON 3-20-3-2W
Project:	DUCHESNE COUNTY, UT	**TVD Reference:**	WELL @ 5168.00ft (PIONEER 68)
Site:	PETERSON 3-20-3-2W	**MD Reference:**	WELL @ 5168.00ft (PIONEER 68)
Well:	PETERSON 3-20-3-2W	**North Reference:**	True
Wellbore:	PETERSON 3-20-3-2W	**Survey Calculation Method:**	Minimum Curvature
Design:	PETERSON 3-20-3-2W	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,555.00	1.44	181.92	8,423.05	-1,075.74	-701.05	1,283.62	0.08	0.06	1.92
8,618.00	1.56	183.57	8,486.03	-1,077.39	-701.13	1,285.02	0.20	0.19	2.62
8,682.00	1.67	181.92	8,550.00	-1,079.19	-701.22	1,286.55	0.19	0.17	-2.58
8,745.00	1.75	181.20	8,612.98	-1,081.07	-701.27	1,288.13	0.13	0.13	-1.14
8,809.00	1.13	173.11	8,676.95	-1,082.67	-701.21	1,289.42	1.02	-0.97	-12.64
8,872.00	0.76	173.49	8,739.95	-1,083.70	-701.09	1,290.20	0.59	-0.59	0.60
8,936.00	0.82	160.03	8,803.94	-1,084.55	-700.89	1,290.79	0.30	0.09	-21.03
8,999.00	1.11	167.26	8,866.93	-1,085.57	-700.60	1,291.46	0.50	0.46	11.48
9,063.00	1.35	164.46	8,930.92	-1,086.90	-700.26	1,292.37	0.39	0.38	-4.38
9,126.00	0.94	205.10	8,993.90	-1,088.09	-700.28	1,293.35	1.40	-0.65	64.51
9,189.00	0.85	230.30	9,056.90	-1,088.85	-700.86	1,294.31	0.64	-0.14	40.00
9,253.00	0.97	232.52	9,120.89	-1,089.49	-701.65	1,295.28	0.20	0.19	3.47
9,316.00	1.13	223.26	9,183.88	-1,090.26	-702.50	1,296.41	0.37	0.25	-14.70
9,380.00	1.11	221.47	9,247.87	-1,091.19	-703.34	1,297.64	0.06	-0.03	-2.80
9,443.00	1.09	206.90	9,310.85	-1,092.18	-704.02	1,298.84	0.44	-0.03	-23.13
9,507.00	1.15	194.81	9,374.84	-1,093.34	-704.46	1,300.05	0.38	0.09	-18.89
9,570.00	1.13	190.46	9,437.83	-1,094.57	-704.73	1,301.21	0.14	-0.03	-6.90
9,634.00	1.13	194.56	9,501.82	-1,095.80	-705.01	1,302.38	0.13	0.00	6.41
9,697.00	1.19	192.57	9,564.80	-1,097.04	-705.31	1,303.57	0.11	0.10	-3.16
9,760.00	1.24	193.52	9,627.79	-1,098.34	-705.61	1,304.82	0.09	0.08	1.51
9,823.00	1.24	199.55	9,690.78	-1,099.64	-706.00	1,306.11	0.21	0.00	9.57
9,887.00	1.34	198.34	9,754.76	-1,101.01	-706.46	1,307.50	0.16	0.16	-1.89
9,950.00	1.36	195.61	9,817.74	-1,102.43	-706.90	1,308.92	0.11	0.03	-4.33
LAST SVY									
10,015.00	1.61	188.33	9,882.72	-1,104.07	-707.24	1,310.46	0.48	0.38	-11.20
PROJ SVY - PBHL PETERSON 3-20-3-2W									
10,075.00	1.84	181.61	9,942.69	-1,105.87	-707.38	1,312.03	0.51	0.38	-11.20

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
10,015.00	9,882.72	-1,104.07	-707.24	LAST SVY
10,075.00	9,942.69	-1,105.87	-707.38	PROJ SVY

Checked By: _____ Approved By: _____ Date: _____

Daily Activity Report

Format For Sundry

PETERSON 3-20-3-2W

8/1/2012 To 12/30/2012

10/6/2012 Day: 3 **Completion**

Rigless on 10/6/2012 - NU frac alve. RIH with guage ring. Could not get in liner top. - NU WL BOP and lubricator. Pressure test lubricator to 250 psi for 5 minutes, OK. Increase pressure to 3000 psi for 10 minutes, OK. Remove tbg hanger and TWCV. RIH with 3.77? guage ring, junk basket, and collar locator. Set down at 7714?. POH. Found soft cement in junk catcher. Pressure test lubricator to 3000 psi for 5 minutes, OK. RIH with 3.625? guage ring. Set down 400 pounds at 7715?. Tool settled in soft cement to 7722?. PU 200 pounds over line weight to pull out. POH. Found soft cement in junk catcher. RD lubricator and EWL truck. Install night cap on HCR valve. Secure well. SDFN. - Install 11? 5K x 7? 10K tubing head. Place TC1A hanger with TWCV in tbg head. Pressure test 11? x 7? void to 5000 psi for 15 minutes, no leak off. Pressure test all valves 250 psi low for 5 minutes and 10,000 psi high for 10 minutes, all tests good. While filling ditches and holes on location with front end loader, noticed spongy ground on east side of WH in area WO rig will set. Scrape out saturated soil. Work soil to dry it out. Replace and pack soil. Haul in three loads of road base to level location. SDFN. - NU WL BOP and lubricator. Pressure test lubricator to 250 psi for 5 minutes, OK. Increase pressure to 3000 psi for 10 minutes, OK. Remove tbg hanger and TWCV. RIH with 3.77? guage ring, junk basket, and collar locator. Set down at 7714?. POH. Found soft cement in junk catcher. Pressure test lubricator to 3000 psi for 5 minutes, OK. RIH with 3.625? guage ring. Set down 400 pounds at 7715?. Tool settled in soft cement to 7722?. PU 200 pounds over line weight to pull out. POH. Found soft cement in junk catcher. RD lubricator and EWL truck. Install night cap on HCR valve. Secure well. SDFN. - NU WL BOP and lubricator. Pressure test lubricator to 250 psi for 5 minutes, OK. Increase pressure to 3000 psi for 10 minutes, OK. Remove tbg hanger and TWCV. RIH with 3.77? guage ring, junk basket, and collar locator. Set down at 7714?. POH. Found soft cement in junk catcher. Pressure test lubricator to 3000 psi for 5 minutes, OK. RIH with 3.625? guage ring. Set down 400 pounds at 7715?. Tool settled in soft cement to 7722?. PU 200 pounds over line weight to pull out. POH. Found soft cement in junk catcher. RD lubricator and EWL truck. Install night cap on HCR valve. Secure well. SDFN. - Install flowlines - Cameron on location. JSA and safety meeting. Remove B-1 flange on WH. Pack off bushing for 7? csg leaking. Tightened lock pins, started leaking more. Braden head pressure 50 psi. Bleed off pressure, only a puff. 0 LEL. Back out lock pins. Remove pack off bushing. Clean csg bowl and surface of 7? csg. Install new pack off bushing. Run in and tighten lock pins. - Install flowlines - Install flowlines - JSA and safety meeting. Topics included tag lines, overhead loads, and pinch points. NU 7? 10K hydraulic frac valve. TC1A tbg hanger with TWCV in tbg head.Spot in EWL trk and crane. NU 7? 10K flange with pump in valve and night cap. Shell test frac valve to 250 psi for 5 minutes, no leak off. Increase pressure to 10,000 psi for 10 minutes, no leak off. Function test frac valve with 10,000 psi for 10 minutes, OK. Release pressure. ND 7? 10K flange. - JSA and safety meeting. Topics included tag lines, overhead loads, and pinch points. NU 7? 10K hydraulic frac valve. TC1A tbg hanger with TWCV in tbg head.Spot in EWL trk and crane. NU 7? 10K flange with pump in valve and night cap. Shell test frac valve to 250 psi for 5 minutes, no leak off. Increase pressure to 10,000 psi for 10 minutes, no leak off. Function test frac valve with 10,000 psi for 10 minutes, OK. Release pressure. ND 7? 10K flange. - JSA and safety meeting. Topics included tag lines, overhead loads, and pinch points. NU 7? 10K hydraulic frac valve. TC1A tbg hanger with TWCV in tbg head.Spot in EWL trk and crane. NU 7? 10K flange with pump in valve and night cap. Shell test frac valve to 250 psi for 5 minutes, no leak off. Increase pressure to 10,000 psi for 10 minutes, no leak off. Function test frac valve with 10,000 psi for 10 minutes, OK. Release pressure. ND 7? 10K flange. - Cameron on location. JSA and safety meeting. Remove B-1 flange on WH. Pack off bushing for 7? csg leaking. Tightened lock pins, started leaking more. Braden head pressure 50 psi. Bleed off pressure, only a puff. 0 LEL.

Back out lock pins. Remove pack off bushing. Clean csg bowl and surface of 7? csg. Install new pack off bushing. Run in and tighten lock pins. - Cameron on location. JSA and safety meeting. Remove B-1 flange on WH. Pack off bushing for 7? csg leaking. Tightened lock pins, started leaking more. Braden head pressure 50 psi. Bleed off pressure, only a puff. 0 LEL. Back out lock pins. Remove pack off bushing. Clean csg bowl and surface of 7? csg. Install new pack off bushing. Run in and tighten lock pins. - Install 11? 5K x 7? 10K tubing head. Place TC1A hanger with TWCV in tbg head. Pressure test 11? x 7? void to 5000 psi for 15 minutes, no leak off. Pressure test all valves 250 psi low for 5 minutes and 10,000 psi high for 10 minutes, all tests good. While filling ditches and holes on location with front end loader, noticed spongy ground on east side of WH in area WO rig will set. Scrape out saturated soil. Work soil to dry it out. Replace and pack soil. Haul in three loads of road base to level location. SDFN. - Install 11? 5K x 7? 10K tubing head. Place TC1A hanger with TWCV in tbg head. Pressure test 11? x 7? void to 5000 psi for 15 minutes, no leak off. Pressure test all valves 250 psi low for 5 minutes and 10,000 psi high for 10 minutes, all tests good. While filling ditches and holes on location with front end loader, noticed spongy ground on east side of WH in area WO rig will set. Scrape out saturated soil. Work soil to dry it out. Replace and pack soil. Haul in three loads of road base to level location. SDFN.
Daily Cost: $0
Cumulative Cost: $34,630

10/10/2012 Day: 4 **Completion**

Rigless on 10/10/2012 - WOR - WOR
Daily Cost: $0
Cumulative Cost: $35,260

10/15/2012 Day: 6 **Completion**

Stone #10 on 10/15/2012 - MIRU stone rig 10, PUMU 2 3/8 PH6 work string, RIH and clean out to 9,700' - MIRU Stone Well Service Rig #10. Spot in hydraulic catwalk. Put tbg on racks. Tally tbg. PU 3.70? OD x 1? ID x 1.77?L 5 blade mill; 3 1/8? OD x 1? ID x 1.18?L- 2 3/8 PAC box to 2 3/8 Reg pin; 3 1/8? x 1? ID x .76? L ? 2 3/8 Reg box to 2 3/8 PH6 box; 1 jt 2 3/8?, 5.95# , P110, PH6 tbg; 2 15/16? OD x 1? ID x 1.09? L RN nipple; and 99 jts 2 3/8?, 5.95# , P110, PH6 tbg. Pump down tbg to break circulation. - PUMU and tally 2 3/8 PH6 tbg and 3.70 5 bladed mill and RIH to top of cement at 7,718?. Tagged cement at 7,700? (tbg measurement) bobbled and fell thru RIH to 7,807?, - PUMU and tally 2 3/8 PH6 tbg and 3.70 5 bladed mill and RIH to top of cement at 7,718?. Tagged cement at 7,700? (tbg measurement) bobbled and fell thru RIH to 7,807?, - Pull back above cement to 7,654? and pick up swivel and work and rotate down one jt and circulated 30 bbls clean water 7,685?, Turned down one jt and reverse circulated 30 bbls and circulated up cement water and turned back to clean water 7,715?, RIH one jt into liner and reverse circulate 30 bbls and got back clean water 7,745?, (liner top 7,737?), - Pull back above cement to 7,654? and pick up swivel and work and rotate down one jt and circulated 30 bbls clean water 7,685?, Turned down one jt and reverse circulated 30 bbls and circulated up cement water and turned back to clean water 7,715?, RIH one jt into liner and reverse circulate 30 bbls and got back clean water 7,745?, (liner top 7,737?), - RIH tbg to 9,730? and reverse circulate and got ? as returns, - RIH tbg to 9,730? and reverse circulate and got ? as returns, - MIRU Stone Well Service Rig #10. Spot in hydraulic catwalk. Put tbg on racks. Tally tbg. PU 3.70? OD x 1? ID x 1.77?L 5 blade mill; 3 1/8? OD x 1? ID x 1.18?L- 2 3/8 PAC box to 2 3/8 Reg pin; 3 1/8? x 1? ID x .76? L ? 2 3/8 Reg box to 2 3/8 PH6 box; 1 jt 2 3/8?, 5.95# , P110, PH6 tbg; 2 15/16? OD x 1? ID x 1.09? L RN nipple; and 99 jts 2 3/8?, 5.95# , P110, PH6 tbg. Pump down tbg to break circulation.
Daily Cost: $0
Cumulative Cost: $77,037

10/16/2012 Day: 7 **Completion**

Stone #10 on 10/16/2012 - MIRU stone rig 10, PUMU 2 3/8 PH6 work string, RIH and clean out to 9,700' - Pull back above cement to 7,654? and pick up swivel and work and rotate down one jt and circulated 30 bbls clean water 7,685?, Turned down one jt and reverse circulated 30 bbls and circulated up cement water and turned back to clean water 7,715?, RIH one jt into liner and reverse circulate 30 bbls and got back clean water 7,745?, (liner top 7,737?), - Install TWCV. ND BOP. 7? 10K HCR valve on well head. NU 7? 10K spacer spool, 7? 10K manual frac valve, flowcross with double 2-1/16? valves, 7? 10K frac valve. Shell test stack 250 psi low for 5 minutes, OK. Increase pressure to 9000 psi for 10 minutes, no leak off. All test were good and charted. POH with backpressure valve and hanger from well head, - 19:00 ? 20:30 Finish test 7 1/16? 10K frac stack as per procedure, 250 Psi low, 9,000 Psi high, and charted all test, - RIH tbg to 9,730? and reverse circulate and got water as returns. Displace hole with water treated with Clay-Sta and biocide. LD 313 jts 2 3/8, 5.95# , P110, PH6 tbg; RN nipple; 1 jt 2 3/8? tbg, 2 x-over subs and 3.70? 5-blade mill. BHA intact.
Daily Cost: $0
Cumulative Cost: $98,880

10/17/2012 Day: 8 **Completion**

Stone #10 on 10/17/2012 - Run CBL log, Test casing 8,000 Psi, Perforate stage #1, shut in well, suspend reports untill frac date, - Function test bottom 7? 10K manual valve and csg to 250 psi for 5 minutes, OK. Increase pressure to 8000 psi, no leak off. Bleed off pressure. Function test 7? 10K HRC valve to 250 psi for 5 minutes, no leak off. Increase pressure to 8000 psi, held OK. Bleed off pressure. - MIRU JW Wireline, RU 51/2? 5K lubricator and test lubricator to 5,000 Psi, PUMU & RIH with 3.875? junk basket and gauge ring and tagged at 9,871?, POH with junk basket and gauge ring, All tools recovered. (slight bobble at 7,737? as gauge ring passed from 7? into 4 ?? liner, bypassing water slowed basket speed when entering liner.) PUMU CBL logging tool, Test Lubricator and RIH with CBL tools, Log from 9,859? to 4,958? (top of Cement in 7?casing) at 0 Psi, RIH to 9,859? and log up to 8,000? with 1,000 Psi on casing, POH with logging tools, All tools recovered. - PU 2 ?? perf guns loaded with 3 spf, 120 deg phasing, 16 gram Titan charges. Pressure test lubricator to 5000 psi for 5 minutes, OK. RIH. Perf stage 1 at 9447?-9449?(2?), 9412? ? 9414?(2?), 9314? ? 9315?(1?), 9223? ? 9225?(2?), and 9198? ? 9200?(2?). POH. All shots fired. RD lubricator and MO EWL trk. Left rig standing, too windy to rig down. Secure well, equipment and location. SDFN.
Daily Cost: $0
Cumulative Cost: $119,090

10/18/2012 Day: 9 **Completion**

Stone #10 on 10/18/2012 - Prep for frac. - RDMO WOR. Fill frac tanks. Install water manifold on tanks. Fill sand cans.
Daily Cost: $0
Cumulative Cost: $120,590

10/24/2012 Day: 10 **Completion**

Rigless on 10/24/2012 - MIRU Frac & WL, Prime and PT. Frac Stg #1 - MANUAL FRAC VALVE REQUIRES 40 3/4 TURNS AND BACK OFF 1/4 TURN. MAXIMUM FRAC PRESSURE IS 8,000 PSI. MIRU RockWaterr for transferring water. MIRU Pure Energgy for Flowback MI and set up Out

Back office trailer. MI start unloading sand. MIRU Baker Hugh frac equipment and JW W/L. 19:00 PM RU complete. Crew change. HSM. JSA, PPE, Review stg 1 Frac Op?s, Stop-work authority, Smoking Policy & evacuation Plans. Prime and test lines to 9,000 psig. Test OK. RU Transducer to monitor pressure between 7" and 9-5/8" casing. - Location Safety Mtg. Prime pumps and test lines to 9,086 psi, OK. Hydraulic Fracture stage #1 as follows: Break down 3.9 bpm @ 5,386 psi. Avg rate: 50 bpm, Avg press: 6,246 psi, Max rate: 61 bpm, Max press 7,576 Psi. FG .930, ISIP: 4,630 PSI, 5 MIN 4,466 psi, 10 MIN: 4,434 psi. 15 MIN: 4,401 psi. Total 20/40 White: 131,820 lbs. Total Prop 131,820 Total 15% HCL Acid 32 bbls. Avg HHP: 7,578. Total load to recover 2,663 bbls. - Held PJSM. RU WL for pump down. Test to 9,500 Psi. OK. RIH. Set HES 10K Obsidian plug set 9,164', Perforate Stage #2 at at (9,105? ? 06?), (9,074? ? 75?), (9,034? ? 36?), (9,018? ? 20?), (9,011? ? 12?), (8,986? ? 88?). Final pressure of 3,539 psi. 2 3/4" guns at 120 degrees, 3 spf, 27 holes. POOH All Guns Fired, Prep To Hydraulic Fracture Stage #2.
Daily Cost: $0
Cumulative Cost: $246,280

10/25/2012 Day: 11 **Completion**

Rigless on 10/25/2012 - Plug & Perf #4. RDMO Baker Hugh Frac equipment & JW WL. ND 7-1/16" 10k Frac stack. NU BOP Stack & Test same. - AM BOP stack NU and pressure tested 250 PSI low and 5,000 PSI high, on blind rams and 2 3/8" pipe rams - NU Knight 10K x 5K 7-1/16" DSA, 5K 7-1/16" double BOP w/blind rams on BTM, 2-3/8" pipe rams on top w/double 2-1/16" manual gate valve outlets, 5K 7-1/16" flowcross w/dual, double 2-1/16" manual gate valve outlets, 5K 7-1/16" single BOP w/2-2/8" pipe rams & Annular BOP. - RDMO Baker Hugh frac equipment & JW WL and all vendor. 16:15 PM Cont MO frac equipment. ND 7-1/16" 10K frac stack dwn to HCR valve. RU Flowback equipment. Runner unloaded pipe rack, 100 jts 2-3/8? L-80, 4.7#, EUE 8rd Tbg, - Held PJSM. Kill Plug #1. RU WL. Test to 9,500 Psi. OK. RIH w/HES 10K Obsidian CBP, set 8,246' w/3,243 psig. BO pressure slowly to 0 psig while POOH w/ WL. LD Tools. Negative for 30 min. Holding. Close HCR valve. - Location Safety Mtg. Prime pumps and test lines to 8,906 psi, OK. Hydraulic Fracture stage #4 as follows: Break down 37 bpm @ 4,488 psi. Avg rate: 55 bpm, Avg press: 4,840 psi, Max rate: 62 bpm, Max press 5,655 Psi. FG 0.886, ISIP: 3,755 PSI, 5 MIN 3,571 psi, 10 MIN: 3,456 psi. 15 MIN: 3,362 psi. Total 20/40 White: 155,000 lbs. Total Prop 155,000 Total 15% HCL Acid 28 bbls. Avg HHP: 6,477. Total load to recover 2,825 bbls. - Held PJSM. RU WL for pump down. Test to 9,500 Psi. OK. RIH. Set HES 10K Obsidian plug set 8,392', Perforate Stage #4 at at (8,307? ? 11?) & (8,296 - 01') Final pressure of 3,923 psi. 2 3/4" guns at 120 degrees, 3 spf, 27 holes. POOH All Guns Fired, Prep To Hydraulic Fracture Stage #4 - 07:00 AM WL cable was grease lock in grease head. SWI. BO pressure. Move WL up/down several time. Equalize fr/well to lubricator. Open well. RIH to 150? and stop. POOH to add more wt bars to gun string. PU Gun string in lubircator, equalize fr/well to lubircator. Open well. - Location Safety Mtg. Prime pumps and test lines to 9,028 psi, OK. Hydraulic Fracture stage #3 as follows: Break down 5.1 bpm @ 4,227 psi. Avg rate: 50 bpm, Avg press: 6,550 psi, Max rate: 60 bpm, Max press 7,723 Psi. FG 0.951, ISIP: 4,560 PSI, 5 MIN 4,135 psi, 10 MIN: 4,093 psi. 15 MIN: 4,076 psi. Total 20/40 White: 135,000 lbs. Total Prop 135,000 Total 15% HCL Acid 31 bbls. Avg HHP: 7.963. Total load to recover 2,595 bbls. - Held PJSM. RU WL for pump down. Test to 9,500 Psi. OK. RIH. Set HES 10K Obsidian plug set 8,945', Perforate Stage #3 at at (8,916? ? 18?), (8,824? ? 25?), (8,778? ? 79?), (8,729? ? 31?), (8,722? ? 23?), (8,713? ? 14?). Final pressure of 3,539 psi. 2 3/4" guns at 120 degrees, 3 spf, 27 holes. POOH All Guns Fired, Prep To Hydraulic Fracture Stage #3 - Location Safety Mtg. Prime pumps and test lines to 9,035 psi, OK. Hydraulic Fracture stage #2 as follows: Break down 5.1 bpm @ 4,768 psi. Avg rate: 58 bpm, Avg press: 6,059 psi, Max rate: 63 bpm, Max press 7,210 Psi. FG .933, ISIP: 4,514 PSI, 5 MIN 4,264 psi, 10 MIN: 4,245 psi. 15 MIN: 4,225 psi. Total 20/40 White: 160,000 lbs. Total Prop 160,000 Total 15% HCL Acid 31 bbls. Avg HHP: 8,569. Total load to recover 3,031 bbls.
Daily Cost: $0
Cumulative Cost: $417,535

10/26/2012 Day: 12 **Completion**

Rigless on 10/26/2012 - MIRU Mt State WOR, Weatherford Pump, Basic HYD catwalk. PU & RIH w/2-3/8" L-80 tbg & BHA to D/O, CO to 9,800' +/-. - Well Shut in and secured stand by for WSU - 07:30 AM Unloaded 214 jts 2-3/8? L-80, 4.7#, EUE 8rd Tbg Fr/CTAP 08:30 AM MIRU Mt State WOR, equipment, Weatherford pump. 11:00 AM Basic HYD Catwalk - 14:21 PM Tally 56 Jts 2-3/8? L-80 tbg. PU, MU & RIH w/ BHA consisting of Hurricane Insert Mill: 3.75? OD x 1.0? ID x 0.35? Long, Float Sub w/1R Float: 3.250? OD x 1.0? ID x 0.90? Long, BRS20 Bit Release Sub w/1R Float: 3.250? OD x 1.0? ID x 1.77? Long, 1 Jt 2-3/8? L-80, 4.7#, EUE 8rd Tbg w/1.995 ID x 31.48? Long & 2-3/8? EU 8rd ?WX? Profile Nipple w/1.875? Seal Bore 2-3/8? N-80 coupling: 3.062? OD x 1.875? ID x 1.28? Long. (Total BHA 35.78?). RIH w/55 Jts 2-3/8? L-80 Tbg while PU off pipe rack. SD, installed TIW valve. EOT @ 1,793.64' w/BHA. (Ttl 56 jts) - Tally 129 Jts 2-3/8" L-80, 4.7#, EUE 8rd Tbg. Cont RIH w/ 2-3/8" L-80 tbg while PU off pipe rack. SD, installed TIW valve. EOT @ 5,845.12' w/BHA. (Ttl 185 jts) - 1930 PM Saw liner top on JT 246 rotated tbg and continued TIH to kill plug #1 Tagged kill plug #1 on JT 262 at 8,228? TBGM, Tie back and picking up swivel prepare to start drilling plugs - 2045 PM Swivel picked up and tagged kill plug #1 @ 8,228' TBGM. start drilling plug Pump Rate 3 bpm 3,900 psi,16/64 choke holding 2900 psi back pressure on choke. Drilled through kill plug #1 in 15 mins. Backside decreased to 2,600 PSI, Pump 10 bbl sweep and while rotating and working pipe. PU WT 25K, SO WT 20K, NEUT 22K, Torque drilling 1,400 PSI. FS 1,100 PSI. Continue TIH to frac plug #1. 2235 PM Tagged plug #1 @ 8,382' TBGM. start drilling plug Pump Rate 3 bpm 3,900 psi,16/64 choke holding 2,600 psi back pressure on choke. Drilled through plug #1 in 35 mins. Backside 2,600 PSI, Pump 10 bbl sweep and while rotating and working pipe. PU WT 25K, SO WT 20K, NEUT 22K, Torque drilling 1,600 PSI. FS 1,100 PSI. Continue TIH to frac plug #2. 2355 PM Tagged plug #2 @ 8,957' Joint 286 with 20' in TBGM. start drilling plug Pump Rate 3 bpm 3,900 psi,16/64 choke holding 2,600 psi back pressure on choke. Backside 2,600 PSI, Pump 10 bbl sweep and while rotating and working pipe. PU WT 25K, SO WT 20K, NEUT 22K, Torque drilling 1,600 PSI. FS 1,100 PSI. Continue drilling on frac plug #2. - BOP stack RU and tested, continue to rig up flow back iron and test 250 PSI & 5,000 PSI high
Daily Cost: $0
Cumulative Cost: $517,267

10/27/2012 Day: 13 **Completion**

Rigless on 10/27/2012 - Drillout frac plugs pull up and hang off tbg - Production crew RU to Tree. Preparing to pressure up on tbg, released bit sub when Production line is tie into tree. Will turn over to Production after bit sub has been released fr/tbg. - 2355 PM Tagged plug #2 @ 8,957' TBGM. start drilling plug Pump Rate 3 bpm 3,900 psi,16/64 choke holding 2,600 psi back pressure on choke. Drilled through plug #2 in 20 mins. Pump 10 bbl sweep and while rotating and working pipe. PU WT 25K, SO WT 20K, NEUT 22K, Torque drilling 1,600 PSI. FS 1,100 PSI. Continue TIH to frac plug #3. 2355 PM Tagged plug #2 @ 8,957' TBGM. start drilling plug Pump Rate 3 bpm 3,900 psi,16/64 choke holding 2,600 psi back pressure on choke. Drilled through plug #2 in 20 mins. Pump 10 bbl sweep and while rotating and working pipe. PU WT 25K, SO WT 20K, NEUT 22K, Torque drilling 1,600 PSI. FS 1,100 PSI. Continue TIH to frac plug #3. 0045 AM Tagged plug #3 @ 9,172' TBGM. start drilling plug Pump Rate 3 bpm 3,950 psi,16/64 choke holding 2,500 psi back pressure on choke. Drilled through plug #3 in 32 mins. Pump 10 bbl sweep and while rotating and working pipe. PU WT 29K, SO WT 24K, NEUT 26K, Torque drilling 1,600 PSI. FS 1,100 PSI. Continue TIH to PBTD. 0245 AM TIH TO 9,832' TBGM. Joint 314 start circulating 2 bottoms up at 4 bpm 4,500 psi,18/64 choke holding 2,500 psi back pressure on choke. Pump two 10 bbl sweep and while rotating and working pipe. PU WT 29K, SO WT 24K, NEUT 26K, Torque drilling 1,600 PSI. FS 1,100 PSI. - 0530 AM Circulated two bottoms up with three 10 bbls sweeps 550 BBLS around recovered plug parts, lay swivel down and prepare to pull out of hole to 8,260?+- - POOH. LD 51 Jts 2-3/8" L-80,

4.7#, EUE 8rd Tbg. EOT @ 8,253.88' "TBGM". (ttl 263 jts). 07:17 AM Circulating two bottom up with two 10 bbl sweeps 520 Bbls. Nothing in return. Well clean. - Installed 7-1/16" x 2-3/8" Tbg hanger on last Jt. Land Tbg, Tbg hanger w/TWCV in place & secure lock in screws. Total 262 Jts to "WX" profile Nipple w/1.875" seal Bore top @ 8,235.67' & bottom @ 8,236.95' "TBGM". EOT @ 8,269.33' "TBGM" w/KB. See Tbg Detail. Rig down tbg tong & Rig floor. - 12:05 PM ND Knight 5K Annular BOP & 5K 7-1/16" single BOP, 5K 7-1/16" flowcross, 5K 7-1/16" double BOP, 10K x 5K 7-1/16" DSA & FMC 7-1/16? 10K HCR valve. Rustin Mair loaded out 51 Jts 2-3/8" L-80, 4.7#, EUE 8rd Tbg. (1,574.02'). Return back to Runners yard. - NU 7-1/16" 10K x 2-9/16" 10K Adapter flange, lower 2-9/16" 5K Master safety valve, Middle 2-9/16" 5K Master valve, 2-9/16" 5K Crown valve w/night cap, w/1-13/16" 5K wing valve, 1-13/16" 5K actuated gate valve & 1-13/16" 5K Cycionic Choke. - NU upper tree. Test 5K Production tree to 250 psi for 5 minutes for low. Test OK. BO pressure. Test same to 4,500 psi for 10 minutes for high, Test OK. Remove TWCV. Drop 1.25" solid ball down tbg. Secure well. Rigging down MT State WOR, equip @ RPT. Preparing to MIRU on Peterson 3-20-3-2WH - Rigging down MT State WOR, equip. 16:28 PM RDMO MT State WOR, moving equipment over to Peterson 3-20-3-2WH. Production crew RU to Tree. Preparing to pressure up on tbg, released bit sub when Production line is tie into tree. Will turn over to Production after bit sub has been released fr/tbg. - 18:30 PM RU Weatherford pump to go down tbg. Pumped off Bit release Sub @ 4,500 psig. Pump 35 Bbls down tbg @ 2 BPM, 3,500 psig. ISIP 2,500 psig. SWI. RDMO Weatherford pump. Turn Well over to Production.
Daily Cost: $0
Cumulative Cost: $600,354

10/30/2012 Day: 14 **Completion**

Rigless on 10/30/2012 - Turned Well over To Production - Move onto Peterson 3-20-3-2WH Pad
Daily Cost: $0
Cumulative Cost: $600,872

11/11/2012 Day: 15 **Completion**

Rigless on 11/11/2012 - Capture costs in DCR - Capture costs in DCR
Daily Cost: $0
Cumulative Cost: $671,200

12/9/2012 Day: 16 **Completion**

Rigless on 12/9/2012 - Capture Costs in DCR - Capture Costs in DCR
Daily Cost: $0
Cumulative Cost: $677,759

12/26/2012 Day: 18 **Completion**

Stone #8 on 12/26/2012 - MIRUSU. NDWH. NUBOP. - 17:30 ? All personnel off location. 17:00 ? Remove TWCV. Install 8? pup joint. Install & close TIW valve. Close & lock pipe rams. Secure well, rig, equipment & location. Cold weather drain up. SDFN. 16:00 ? Install TWCV. ND production tree. NUBOP. - 10:00 ? Spot & RU R&B Slickline service. RIH w/ GR & tag fill @ 9872?. POOH. RD & release SL. 09:00 ?Bleed down well. Spot & RU hotoiler. Pump down tubing w/ 60 bbls produced water heated to 250 deg. 07:30 ? Road rig to location. 06:45 ? Safety meeting w/ Stone rig crew. - 15:00 - Pump down tubing w/ 60 bbls produced water heated to 250 deg. 14:00 ? Spot & RUSU. 13:00 ? Backhoe & crew arrived to remove concrete

forms & fill in holes around well head.
Daily Cost: $0
Cumulative Cost: $707,351

12/27/2012 Day: 19 **Completion**

Stone #8 on 12/27/2012 - LD 2 3/8" tubing. PU 2 7/8" BHA & 60 jts 2 7/8" tubing. - 08:30 ? Install TWCV valve. Pressure test Blind rams & pipe rams to 250 low for 5 minutes & 4500 psi high for 10 minutes. Test annular BOP to 1500 psi for 10 minutes. Good test. Release pressure. 07:30 - Bleed down well. Spot & RU hotoiler. Pump down tubing w/ 60 bbls produced water heated to 250 deg. 06:45 ? Safety meeting w/ Stone rig crew. - 18:00 ? All personnel off location. 17:30 ?Install & close TIW valve. Close & lock pipe rams. Secure well, rig, equipment & location. Cold weather drain up. SDFN. - 16:30 ? PU & RIH w/ BHA of 1 ea ? bullplug, 1 ea ? NoGo, 4 jts 2 7/8? L80 tubing, 1 ea ? Cavins Desander, 1 ea 6? X 2 7/8? pup joint, 1 ea ? seating nipple, & 60 jts of 2 7/8? L80 tubing. 15:30 ? Change out pipe rams from 2 3/8? to 2 7/8? & pressure test to 250 low for 5 minutes & 4500 psi high for 10 minutes. Good test release pressure. 11:15 ? POOH & LD w/ 263 jts of 2 3/8? L80 tubing.
Daily Cost: $0
Cumulative Cost: $717,677

12/28/2012 Day: 20 **Completion**

Stone #8 on 12/28/2012 - Finish PU 2 7/8" L80 tubing. Land tubing. PU & RIH w/ 3/4" Rods. - 15:15 ? PU pump & prime w/ diesel. RIH w/ 36? RHBC pump, LH on/off tool, 31 ea ? 1? 4 per MMS rods, 182 ea ? ?? 4 per MMS rods, 7 ea ? 8 per MMS rods, 1 ea ? 7/8? 8 per MMS rods. PU polish rods. 14:45 ? NU B1 adaptor. Change handling equipment over to runs rods. - 14:30 ? Unseat tubing. Remove 6? pup joint & land tubing w/ 20K tension. 13:30 ? RD power tongs, slips & rig floor. NDBOP. 09:00 ? PU tubing & tag top of liner. LD 1 jt tubing. Install 6? pup, measure out & set TAC. Land tubing. 07:30 - SITP ? 323 psi. SICP ? 350 psi. Bleed down well. Spot & RU hotoiler. Pump down tubing w/ 60 bbls produced water heated to 250 deg. Spot tubing racks & move tubing onto racks. Prep & strap tubing. 06:45 ? Safety meeting w/ Stone rig crew. - 17:30 - All personnel off location. 17:00 - Secure well, location, and equipment. SDFN.
Daily Cost: $0
Cumulative Cost: $726,466

12/29/2012 Day: 21 **Completion**

Stone #8 on 12/29/2012 - PU remainder of rods. Tag & seat pump. Space out for 3? off tag. Test tubing. Long stroke pump. Hangoff rods. RDMOSU. Well returned to production. - 10:30 - All personnel off location. Rig released @ 10:30 on 12-29-2012. Well returned to production. 09:30 ? RDMOSU. - 08:15 ? LD polish rod. PU remainder of rods. Tag & seat pump. Space out for 3? off tag. Load tubing w/ 10 bbls produced water. Pressure test tubing to 800 psi. Release pressure. Long stroke pump w/ rig to 800 psi. Release pressure. 07:30 - Spot & RU hotoiler. Pump down tubing w/ 60 bbls produced water heated to 250 deg. 06:45 ? Safety meeting w/ Stone rig crew.
Daily Cost: $0
Cumulative Cost: $1,020,750

Pertinent Files: Go to File List