API Well Number: 43013519230000

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

FORM 3

AMENDED REPORT ☑

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER
State 4-11-3-2WH

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)
ML-51676

11. MINERAL OWNERSHIP
FEDERAL ○ INDIAN ○ STATE ● FEE ○

12. SURFACE OWNERSHIP
FEDERAL ○ INDIAN ○ STATE ○ FEE ●

13. NAME OF SURFACE OWNER (if box 12 = 'fee')
Phillip Blain Brotherson & Glenna Jean Brotherson

14. SURFACE OWNER PHONE (if box 12 = 'fee')
435-722-2713

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')
RR 2 Box 2181, Roosevelt, UT 84066

16. SURFACE OWNER E-MAIL (if box 12 = 'fee')

17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')

18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS
YES ○ (Submit Commingling Application) NO ●

19. SLANT
VERTICAL ○ DIRECTIONAL ○ HORIZONTAL ●

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	913 FSL 945 FWL	SWSW	2	3.0 S	2.0 W	U
Top of Uppermost Producing Zone	660 FNL 660 FWL	NWNW	11	3.0 S	2.0 W	U
At Total Depth	660 FSL 660 FWL	SWSW	11	3.0 S	2.0 W	U

21. COUNTY
DUCHESNE

22. DISTANCE TO NEAREST LEASE LINE (Feet)
660

23. NUMBER OF ACRES IN DRILLING UNIT
40

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
2800

26. PROPOSED DEPTH
MD: 13703 TVD: 9063

27. ELEVATION - GROUND LEVEL
5446

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 - 2500	36.0	J-55 LT&C	8.3	Type III	216	3.33	11.0
							Type III	95	1.9	13.0
I1	8.75	7	0 - 9752	26.0	P-110 Other	11.5	35/65 Poz	307	2.59	11.5
							50/50 Poz	284	1.62	13.0
PROD	6.125	4.5	8645 - 13703	13.5	P-110 Other	11.5	No Used	0	0.0	0.0

ATTACHMENTS

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

- ☑ 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** 12/17/2012 **EMAIL** starpoint@etv.net

API NUMBER ASSIGNED
43013519230000

APPROVAL
Permit Manager

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RECEIVED: March 26, 2013

Newfield Production Company
4-11-3-2WH
Surface Hole Location: 913' FSL, 945' FWL, Section 2, T3S, R2W
Bottom Hole Location: 660' FSL, 660' FWL, Section 11, T3S, R2W
Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta	surface
Green River	4,162'
Garden Gulch member	7,094'
Uteland Butte	9,280'
Lateral TD	9,063' TVD / 13,703' MD

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

Base of moderately saline	3,420'	(water)
Green River	7,094' - 9,063'	(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.

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4. Casing

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Conductor 14	0'	60'	37	H-40	Weld	--	--	--	--	--	--
									--	--	--
Surface 9 5/8	0'	2,500'	36	J-55	LTC	8.33	8.33	12	3,520	2,020	453,000
									2.51	2.54	5.03
Intermediate 7	0'	9,250' 9,752'	26	P-110	BTC	11	11.5	15	9,960	6,210	830,000
									2.28	1.35	3.27
Production 4 1/2	8,645'	9,063' 13,703'	13.5	P-110	BTC	11	11.5	--	12,410	10,670	422,000
									2.90	2.36	6.18

Assumptions:

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

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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	2,000'	Type III + .125 lbs/sk Cello Flakes	720 / 216	15%	11.0	3.33
Surface Tail	12 1/4	500'	Type III + .125 lbs/sk Cello Flakes	180 / 95	15%	13.0	1.9
Intermediate Lead	8 3/4	4,594'	Premium - 65% Class G / 35% Poz + 10% Bentonite	794 / 307	15%	11.5	2.59
Intermediate Tail	8 3/4	2,658'	50/50 Poz/Class G + 1% bentonite	460 / 284	15%	13.0	1.62
Production	6 1/8	--	Liner will not be cemented. It will be isolated with a liner top packer.	-- / --	--	--	--

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

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

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

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

6. Type and Characteristics of Proposed Circulating Medium

Interval	Description
Surface - 2,500'	An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.
2,500' - TD	A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and

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if conditions warrant, with barite.
Anticipated maximum mud weight is 11.5 ppg.

7. Logging, Coring, and Testing

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

Cores: As deemed necessary.

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

8. Anticipated Abnormal Pressure or Temperature

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

9,063' x 0.57 psi/ft = 5184 psi

No abnormal temperature is expected. No H_2S is expected.

9. Other Aspects

An 8-3/4" vertical hole will be drilled to a kick off point of 8,695' .
Directional tools will then be used to build to 92.90 degrees inclination.
The 7" intermediate casing string will be set once the well is landed horizontally in the target zone.

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

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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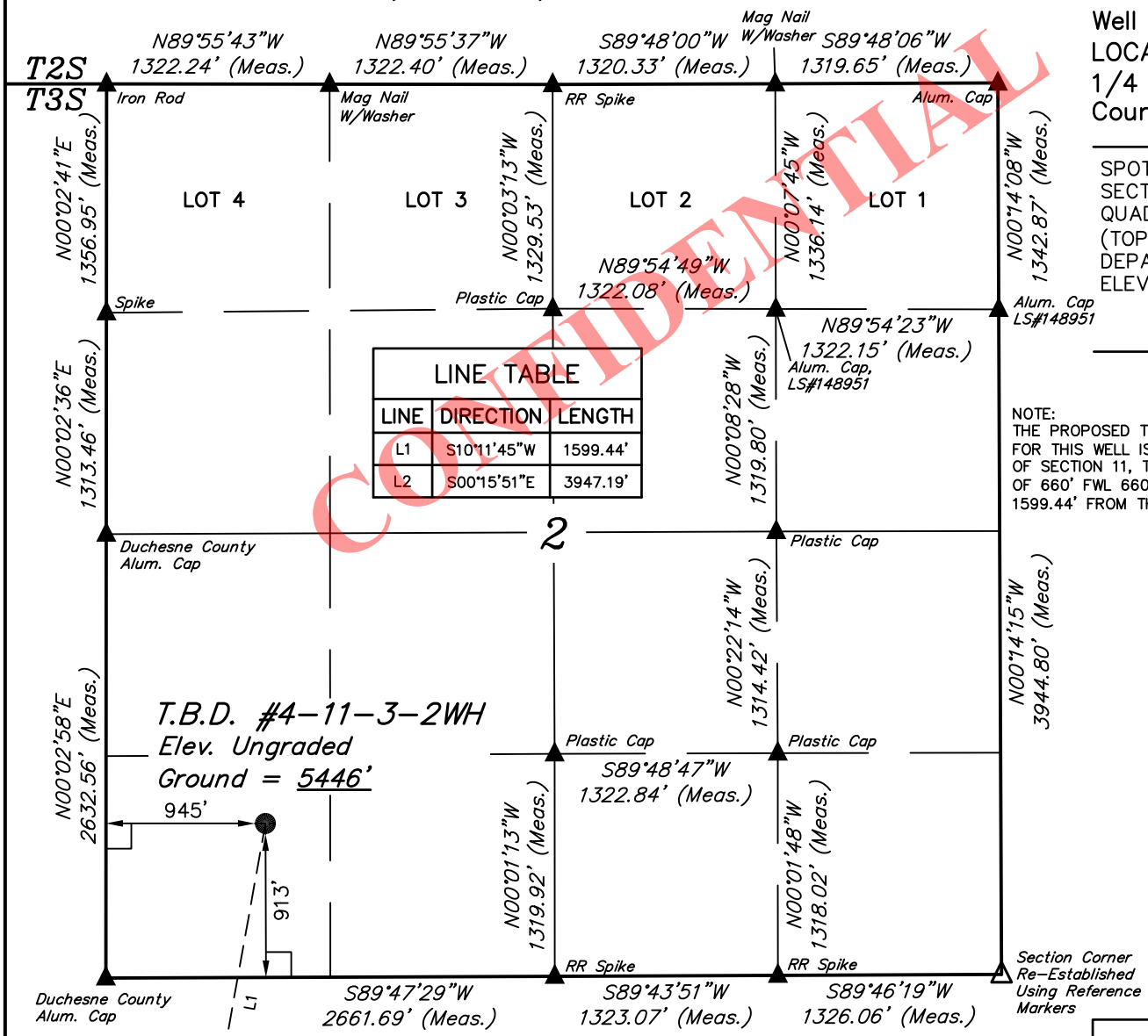
RECEIVED: December 17, 2012

API Well Number: 43013519230000

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

NEWFIELD EXPLORATION COMPANY

Well location, T.B.D. #4-11-3-2WH (SURFACE LOCATION), located as shown in the SW 1/4 SW 1/4 of Section 2, T3S, R2W, U.S.B.&M., Duchesne County, Utah.



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S10°11'45"W	1599.44'
L2	S00°15'51"E	3947.19'

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BASIS OF ELEVATION

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

BASIS OF BEARINGS

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

NOTE:
THE PROPOSED TOP OF PRODUCING FORMATION FOR THIS WELL IS LOCATED IN THE NW 1/4 NW 1/4 OF SECTION 11, T3S, R2W, U.S.B.&M. AT A DISTANCE OF 660' FWL 660' FNL. IT BEARS S10°11'45"W 1599.44' FROM THE PROPOSED WELL HEAD.

N

1000' 500' 0' 1000'

SCALE

CERTIFICATE

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

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

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

10-18-12

LEGEND:

- ∟ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°14'47.46"	(40.246517)
LONGITUDE = 110°04'58.61"	(110.082947)
NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°14'47.61"	(40.246558)
LONGITUDE = 110°04'56.07"	(110.082242)

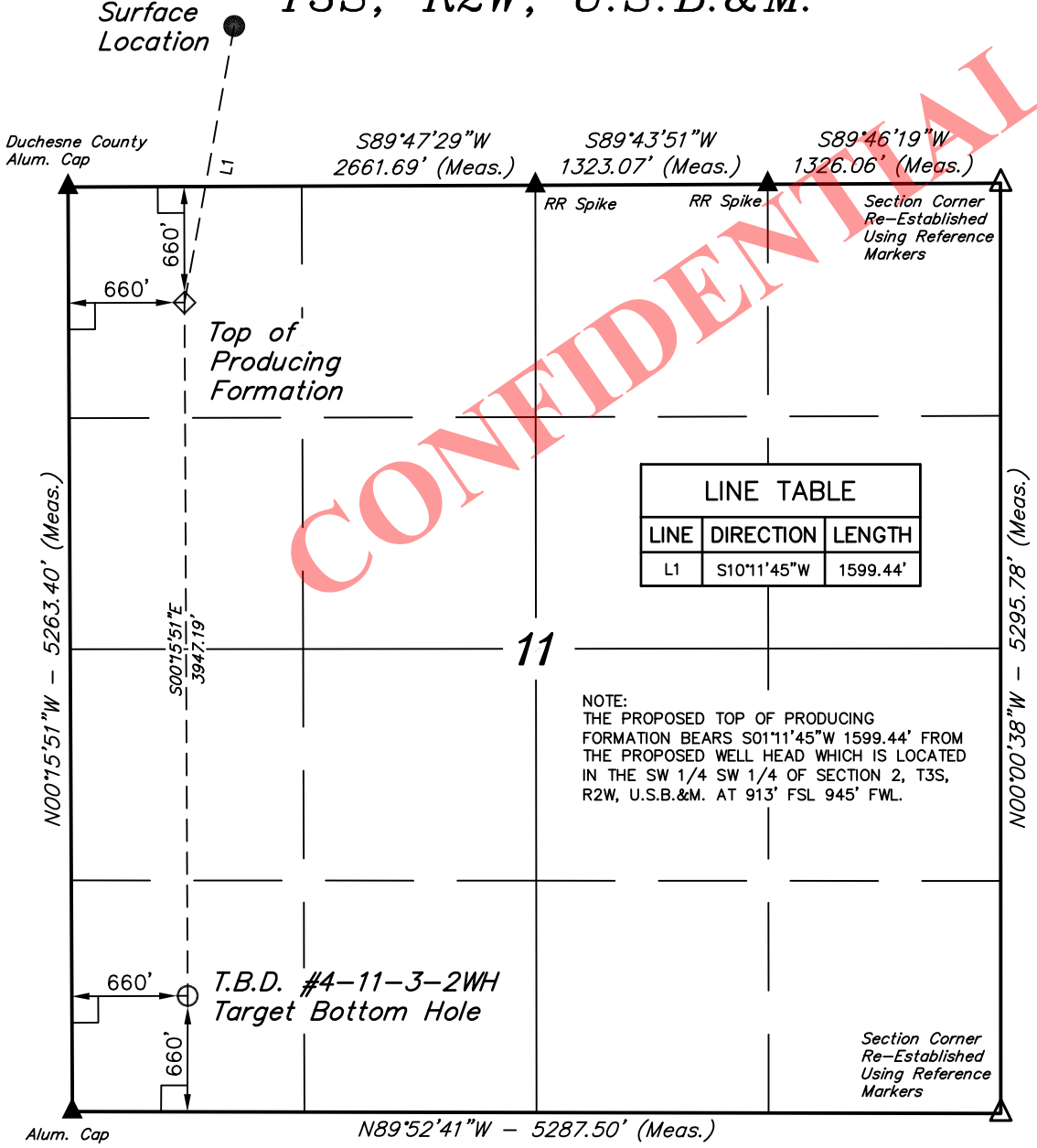
UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 10-08-12	DATE DRAWN: 10-11-12
PARTY M.A. A.H. S.F.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE NEWFIELD EXPLORATION COMPANY	

RECEIVED: December 17, 2012

API Well Number: 43013519230000

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



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LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S10°11'45"W	1599.44'

NOTE:
THE PROPOSED TOP OF PRODUCING FORMATION BEARS S01°11'45"W 1599.44' FROM THE PROPOSED WELL HEAD WHICH IS LOCATED IN THE SW 1/4 SW 1/4 OF SECTION 2, T3S, R2W, U.S.B.&M. AT 913' FSL 945' FWL.

NEWFIELD EXPLORATION COMPANY

Well location, T.B.D. #4-11-3-2WH (TARGET BOTTOM HOLE), located as shown in the SW 1/4 SW 1/4 of Section 11, T3S, R2W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

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

BASIS OF BEARINGS

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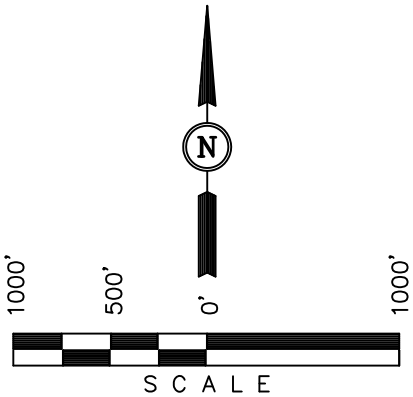

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REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

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

10-18-12

LEGEND:

└ = 90° SYMBOL
● = PROPOSED WELL HEAD.
▲ = SECTION CORNERS LOCATED.

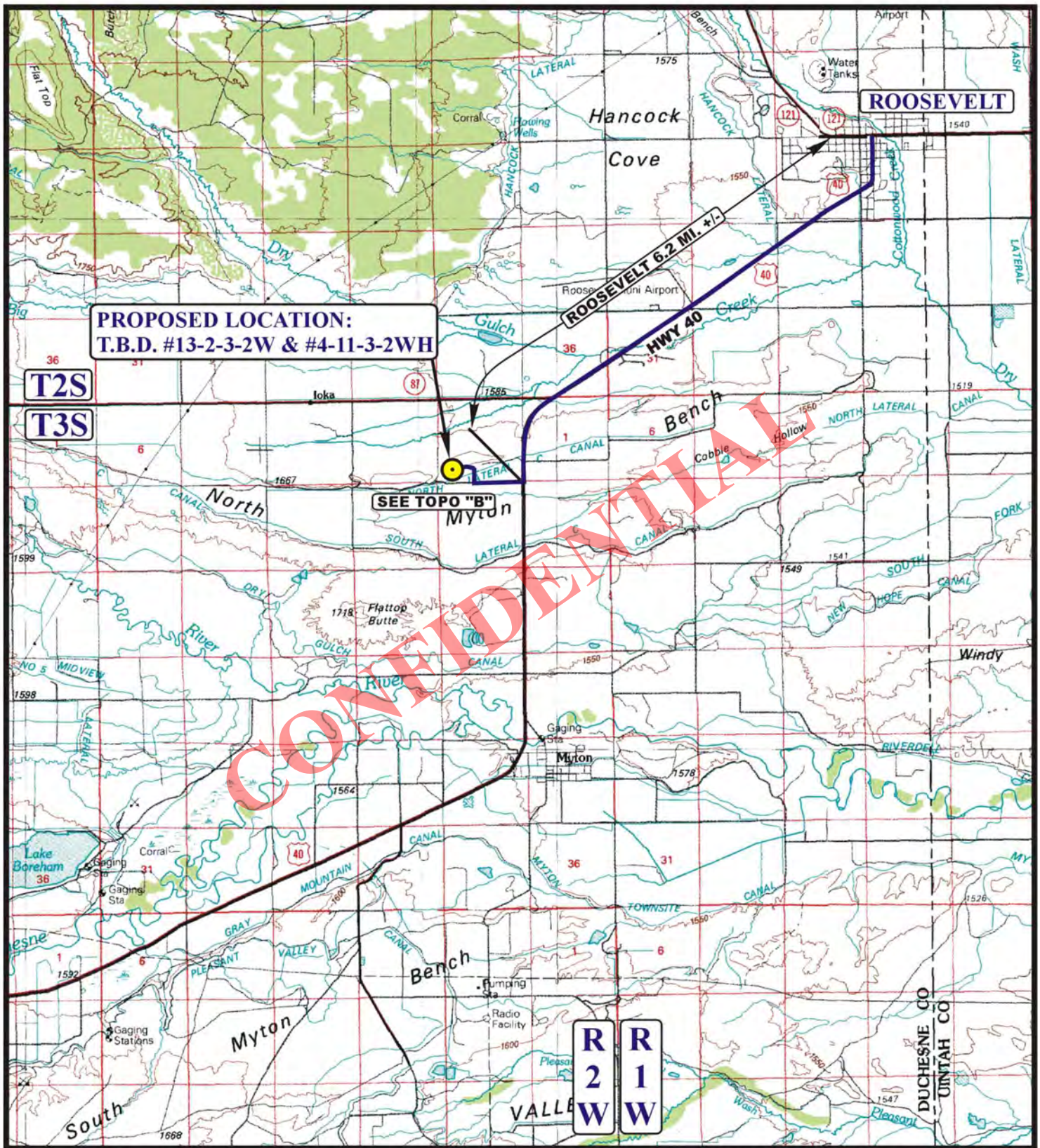
NAD 83 (TOP OF PRODUCING FORMATION)	NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 40°14'31.91" (40.242197)	LATITUDE = 40°13'52.91" (40.231364)
LONGITUDE = 110°05'02.27" (110.083964)	LONGITUDE = 110°05'02.05" (110.083903)
NAD 27 (TOP OF PRODUCING FORMATION)	**NAD 27 (TARGET BOTTOM HOLE)**
LATITUDE = 40°14'32.06" (40.242239)	LATITUDE = 40°13'53.06" (40.231406)
LONGITUDE = 110°04'59.73" (110.083258)	LONGITUDE = 110°04'59.51" (110.083197)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 10-08-12	DATE DRAWN: 10-11-12
PARTY M.A. A.H. S.F.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE NEWFIELD EXPLORATION COMPANY	

RECEIVED: December 17, 2012

API Well Number: 43013519230000



LEGEND:

PROPOSED LOCATION

N

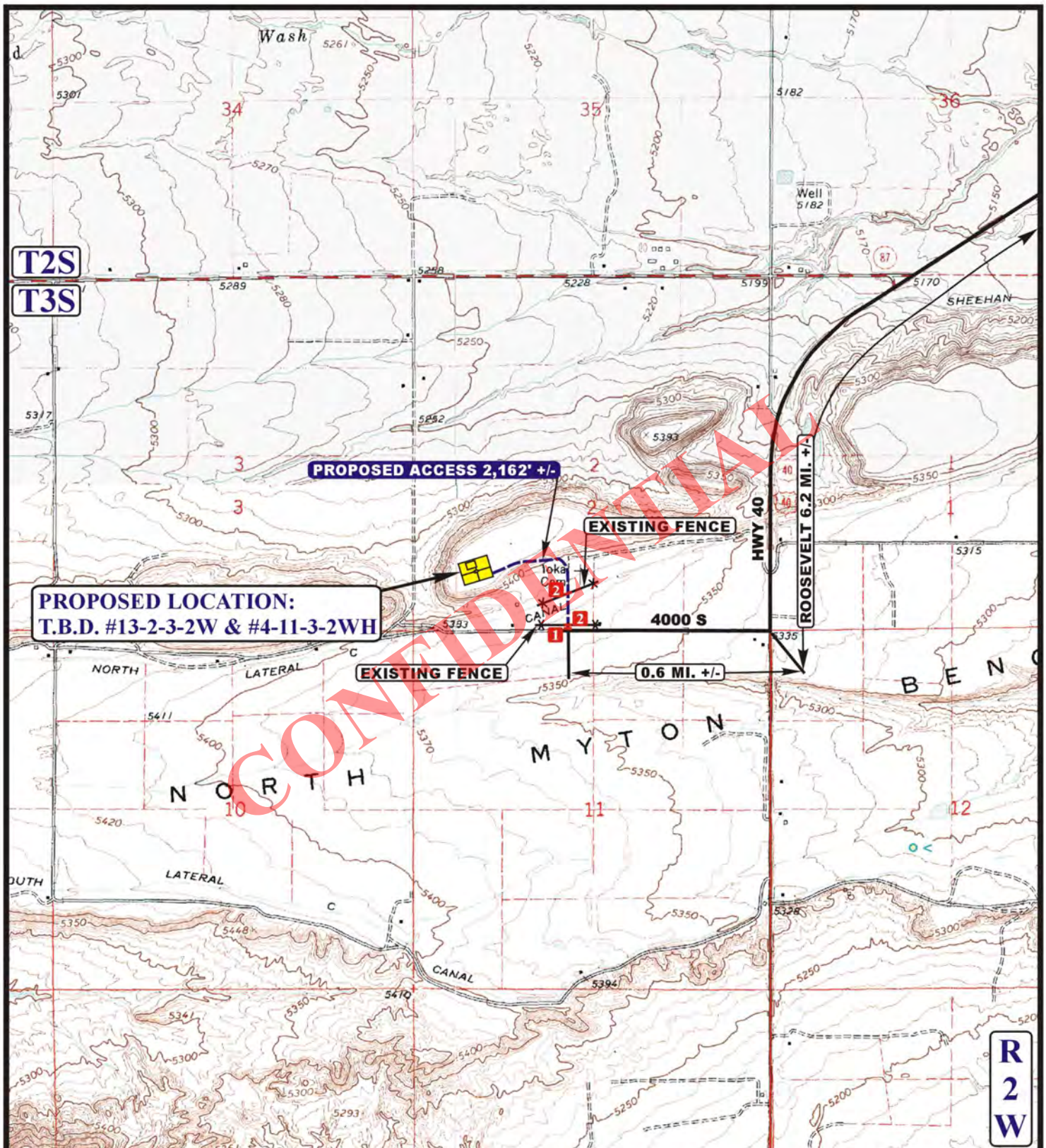
NEWFIELD EXPLORATION COMPANY

T.B.D. #13-2-3-2W & #4-11-3-2WH
SECTION 2, T3S, R2W, U.S.B.&M.
SW 1/4 SW 1/4

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

ACCESS ROAD MAP	10 MONTH	16 DAY	12 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.I.	REVISED: 00-00-00		

API Well Number: 43013519230000



LEGEND:

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

N

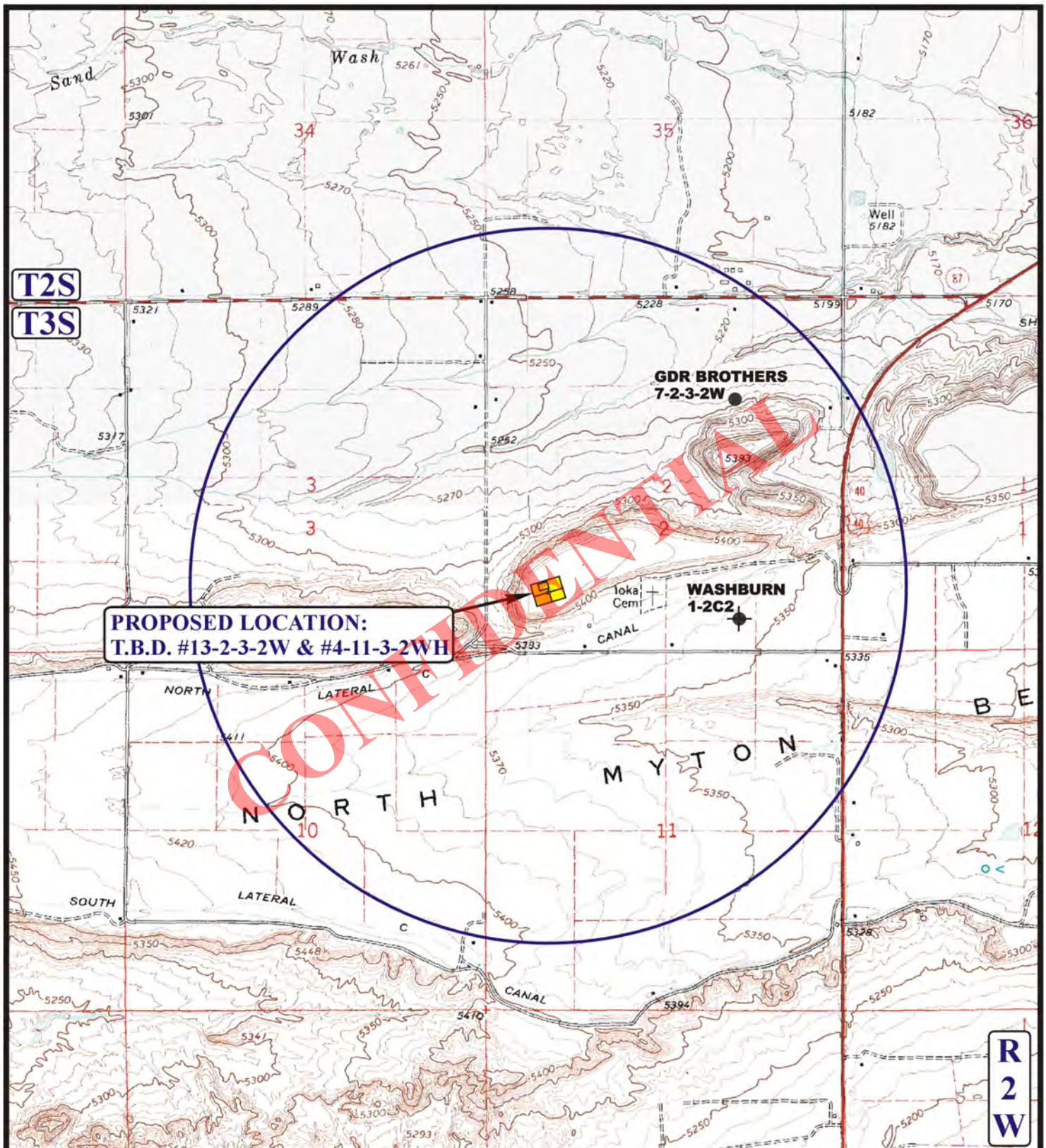
NEWFIELD EXPLORATION COMPANY

T.B.D. #13-2-3-2W & #4-11-3-2WH
SECTION 2, T3S, R2W, U.S.B.&M.
SW 1/4 SW 1/4

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

ACCESS ROAD MAP	10 MONTH	16 DAY	12 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.I.	REVISED: 00-00-00		

API Well Number: 43013519230000



LEGEND:

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

N

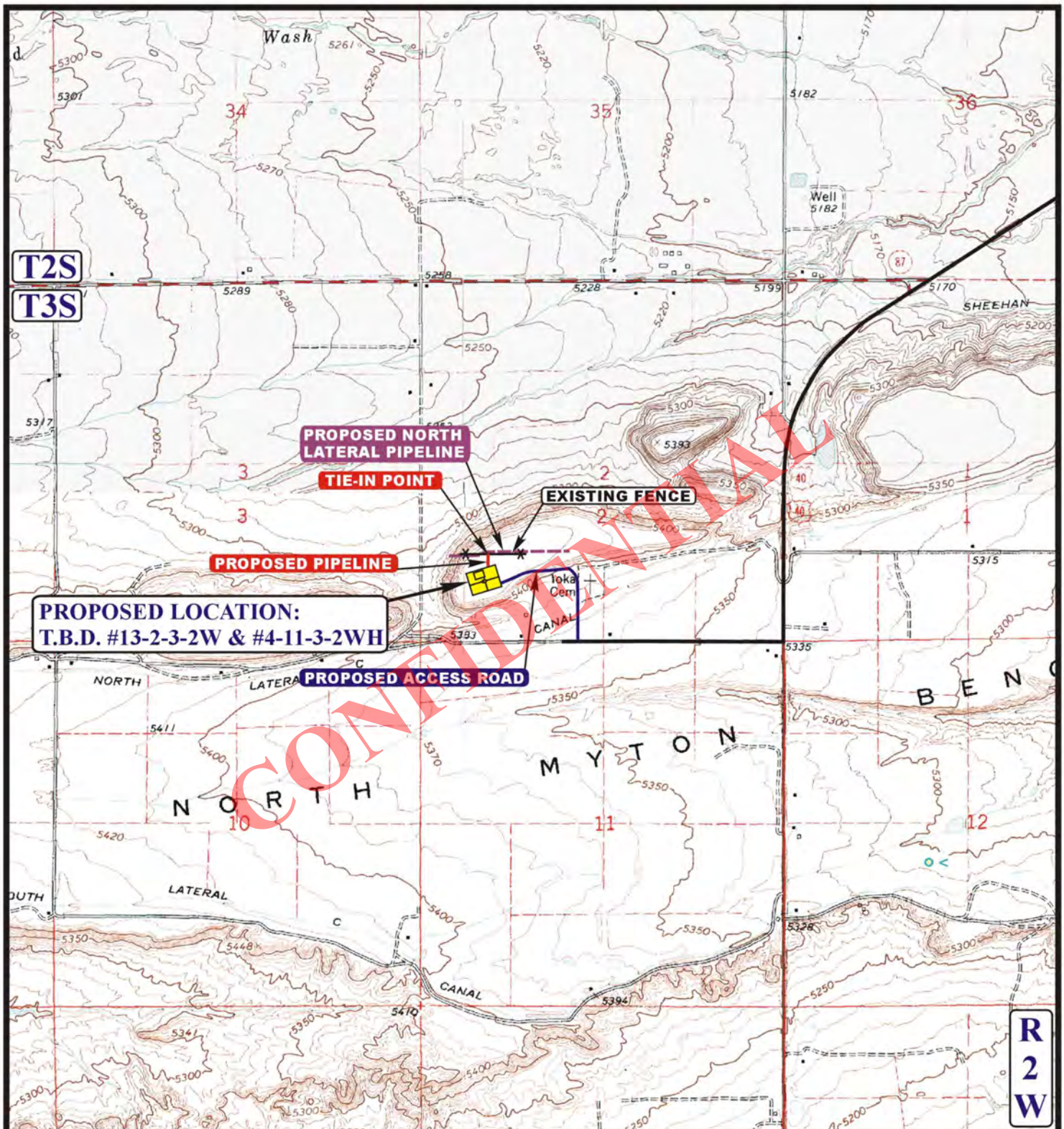
NEWFIELD EXPLORATION COMPANY

T.B.D. #13-2-3-2W & #4-11-3-2WH
SECTION 2, T3S, R2W, U.S.B.&M.
SW 1/4 SW 1/4

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

TOPOGRAPHIC MAP	10 MONTH	16 DAY	12 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: C.I.	REVISED: 00-00-00		

API Well Number: 43013519230000



APPROXIMATE TOTAL PIPELINE DISTANCE = 222' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE

N

NEWFIELD EXPLORATION COMPANY

T.B.D. #13-2-3-2W & #4-11-3-2WH
SECTION 2, T3S, R2W, U.S.B.&M.
SW 1/4 SW 1/4

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

TOPOGRAPHIC MAP	10 MONTH	16 DAY	12 YEAR	D TOPO
SCALE: 1" = 2000'	DRAWN BY: C.I.	REVISED: 00-00-00		

Newfield Exploration Company

Duchesne County, UT
Sec. 2-T3S-R2W
4-11-3-2WH

Plan A Rev 0 Permit

Plan: Plan A Rev 0 Proposed Permit Only

CONFIDENTIAL

Sperry Drilling Services

Proposal Report

16 November, 2012

Well Coordinates: 2,213,356.42 N, 620,557.19 E (40° 14' 47.46" N, 110° 04' 58.61" W)
Ground Level: 5,446.00 ft

Local Coordinate Origin:	Centered on Site Sec. 2-T3S-R2W
Viewing Datum:	WELL @ 5464.0ft (Original Well Elev)
TVDs to System:	N
North Reference:	True
Unit System:	API

Geodetic Scale Factor Applied
Version: 5000.1 Build: 40

HALLIBURTON

RECEIVED: December 17, 2012

API Well Number: 43013519230000

Project: Duchesne County, UT
Site: Sec. 2-T3S-R2W
Well: 4-11-3-2WH
Wellbore: Plan A Rev 0 Permit
Design: Plan A Rev 0 Proposed Permit Only

Newfield Exploration Company

HALLIBURTON
Sperry Drilling

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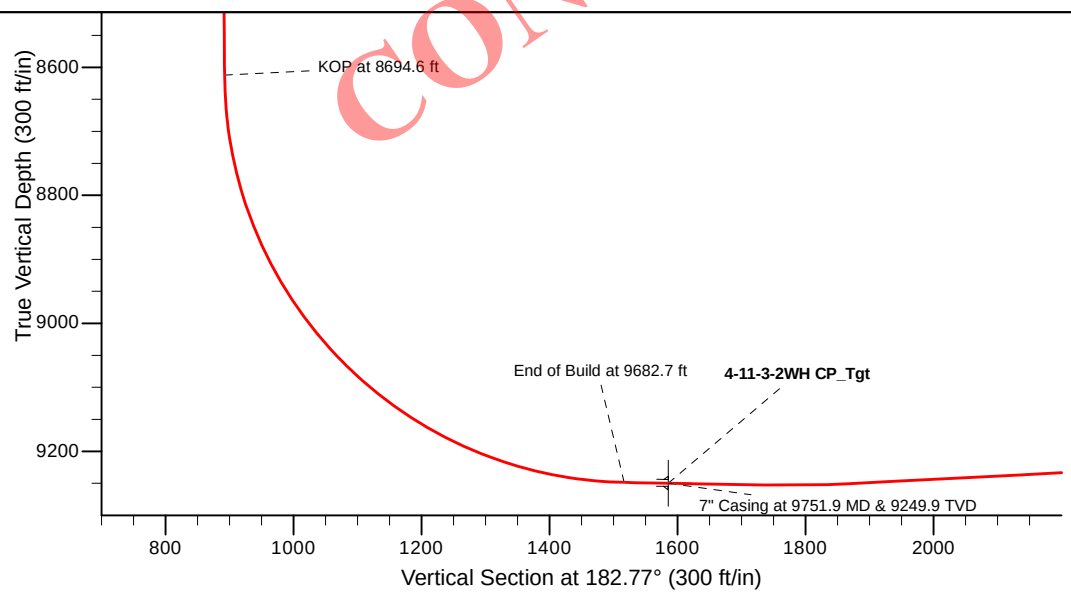
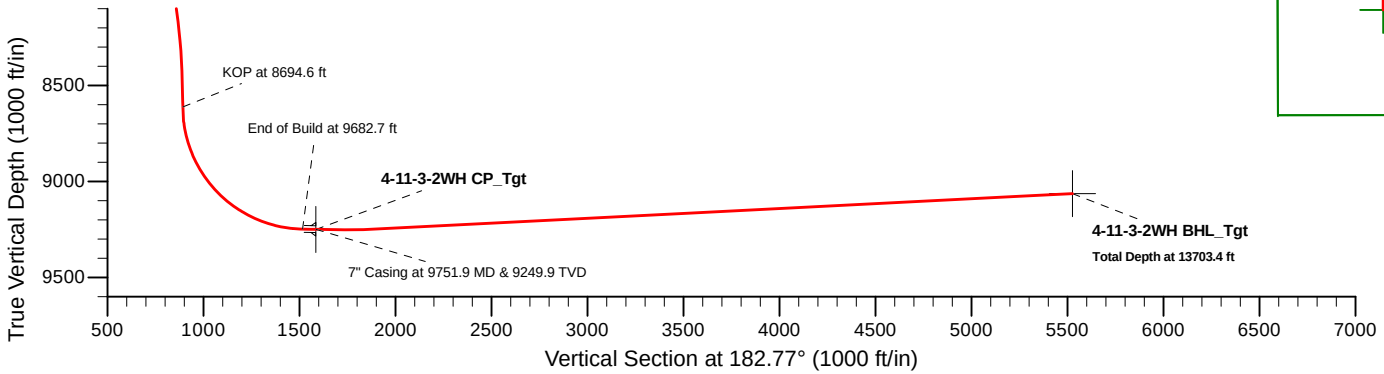
SECTION DETAILS

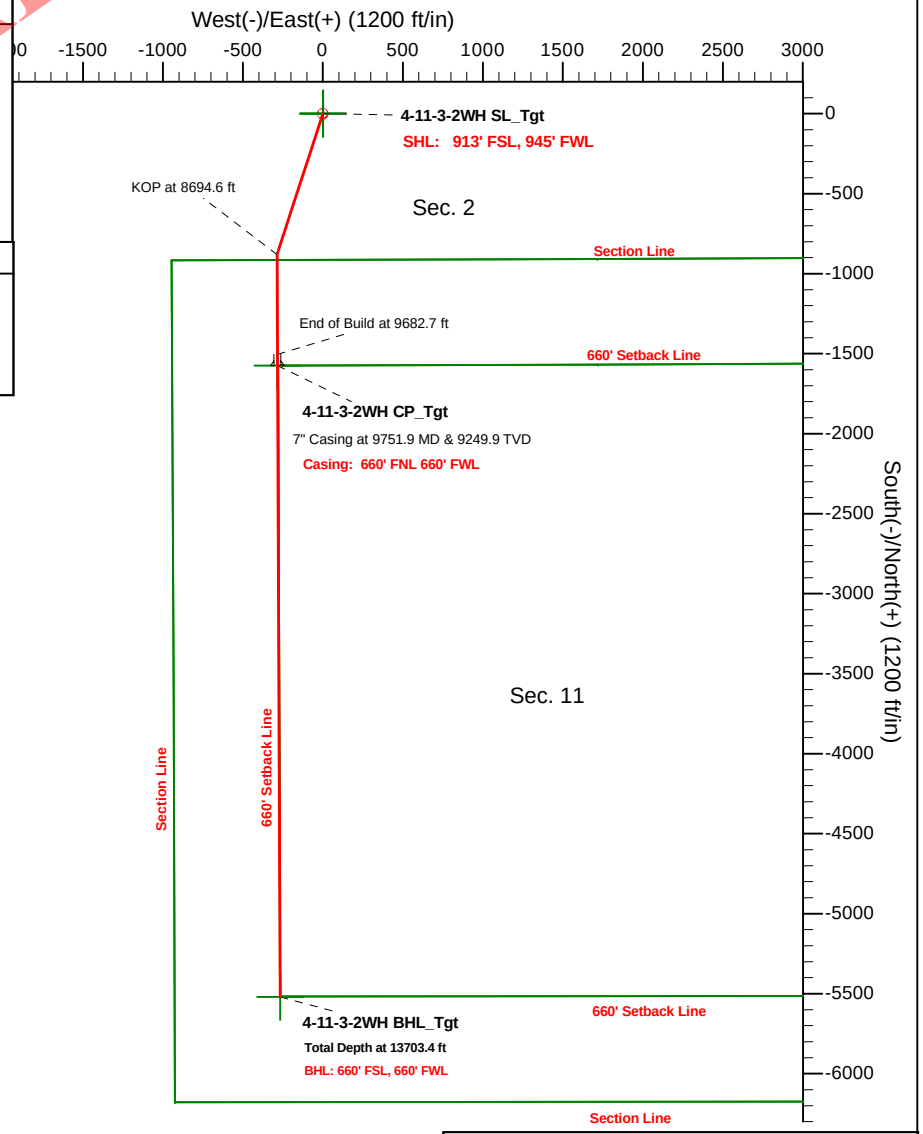
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3713.3	10.70	198.06	3709.2	-63.1	-20.6	1.50	198.06	64.1	
4	7981.2	10.70	198.06	7902.9	-816.5	-266.2	0.00	0.00	828.4	
5	8694.6	0.00	0.00	8612.1	-879.7	-286.8	1.50	180.00	892.5	
6	9682.7	88.93	179.75	9248.6	-1504.4	-284.1	9.00	179.75	1516.3	
7	9751.9	88.93	179.75	9249.9	-1573.6	-283.8	0.00	0.00	1585.4	4-11-3-2WH CP_Tgt
8	9901.9	88.93	179.75	9252.7	-1723.6	-283.2	0.00	0.00	1735.2	
9	10035.2	92.93	179.75	9250.5	-1856.8	-282.6	3.00	0.02	1868.3	
10	13703.4	92.93	179.75	9063.0	-5520.2	-266.8	0.00	0.00	5526.6	4-11-3-2WH BHL_Tgt

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
4-11-3-2WH Section Lines	0.0	0.0	0.0	2213356.42	620557.19	40° 14' 47.460 N	110° 4' 58.610 W	Polygon
4-11-3-2WH Setback Lines	0.0	0.0	0.0	2213356.42	620557.19	40° 14' 47.460 N	110° 4' 58.610 W	Polygon
4-11-3-2WH SL_Tgt	0.0	0.0	0.0	2213356.42	620557.19	40° 14' 47.460 N	110° 4' 58.610 W	Point
4-11-3-2WH BHL_Tgt	9063.0	-5520.2	-266.8	2211672.92	620502.54	40° 13' 52.910 N	110° 5' 2.050 W	Point
4-11-3-2WH CP_Tgt	9250.0	-1573.6	-283.8	2212875.52	620478.30	40° 14' 31.910 N	110° 5' 2.270 W	Point







WELL DETAILS: 4-11-3-2WH

Ground Level: 5446.0

Northing	Easting	Latitude	Longitude
2213356.42	620557.19	40° 14' 47.460 N	110° 4' 58.610 W

Plan A Rev 0 Proposed Permit Only (4-11-3-2WH/Plan A Rev 0 Permit)

Created By: Lacy Taylor Date: 11/16/2012

Checked: _____ Date: _____

RECEIVED: December 17, 2012

Plan Report for 4-11-3-2WH - Plan A Rev 0 Proposed Permit Only

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)	Toolface Azimuth (°)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
3,100.0	1.50	198.06	3,100.0	-1.2	-0.4	1.3	1.50	1.50	0.00	198.06
3,200.0	3.00	198.06	3,199.9	-5.0	-1.6	5.0	1.50	1.50	0.00	0.00
3,300.0	4.50	198.06	3,299.7	-11.2	-3.7	11.4	1.50	1.50	0.00	0.00
3,400.0	6.00	198.06	3,399.3	-19.9	-6.5	20.2	1.50	1.50	0.00	0.00
3,500.0	7.50	198.06	3,498.6	-31.1	-10.1	31.5	1.50	1.50	0.00	0.00
3,600.0	9.00	198.06	3,597.5	-44.7	-14.6	45.4	1.50	1.50	0.00	0.00
3,700.0	10.50	198.06	3,696.1	-60.8	-19.8	61.7	1.50	1.50	0.00	0.00
3,713.3	10.70	198.06	3,709.2	-63.1	-20.6	64.1	1.50	1.50	0.00	0.00
3,800.0	10.70	198.06	3,794.4	-78.4	-25.6	79.6	0.00	0.00	0.00	0.00
3,900.0	10.70	198.06	3,892.6	-96.1	-31.3	97.5	0.00	0.00	0.00	0.00
4,000.0	10.70	198.06	3,990.9	-113.7	-37.1	115.4	0.00	0.00	0.00	0.00
4,100.0	10.70	198.06	4,089.1	-131.4	-42.8	133.3	0.00	0.00	0.00	0.00
4,200.0	10.70	198.06	4,187.4	-149.1	-48.6	151.2	0.00	0.00	0.00	0.00
4,300.0	10.70	198.06	4,285.7	-166.7	-54.4	169.1	0.00	0.00	0.00	0.00
4,400.0	10.70	198.06	4,383.9	-184.4	-60.1	187.0	0.00	0.00	0.00	0.00
4,500.0	10.70	198.06	4,482.2	-202.0	-65.9	204.9	0.00	0.00	0.00	0.00
4,600.0	10.70	198.06	4,580.4	-219.7	-71.6	222.9	0.00	0.00	0.00	0.00
4,700.0	10.70	198.06	4,678.7	-237.3	-77.4	240.8	0.00	0.00	0.00	0.00
4,800.0	10.70	198.06	4,777.0	-255.0	-83.1	258.7	0.00	0.00	0.00	0.00
4,900.0	10.70	198.06	4,875.2	-272.6	-88.9	276.6	0.00	0.00	0.00	0.00
5,000.0	10.70	198.06	4,973.5	-290.3	-94.6	294.5	0.00	0.00	0.00	0.00
5,100.0	10.70	198.06	5,071.8	-307.9	-100.4	312.4	0.00	0.00	0.00	0.00
5,200.0	10.70	198.06	5,170.0	-325.6	-106.2	330.3	0.00	0.00	0.00	0.00
5,300.0	10.70	198.06	5,268.3	-343.2	-111.9	348.2	0.00	0.00	0.00	0.00
5,400.0	10.70	198.06	5,366.5	-360.9	-117.7	366.1	0.00	0.00	0.00	0.00
5,500.0	10.70	198.06	5,464.8	-378.5	-123.4	384.0	0.00	0.00	0.00	0.00
5,600.0	10.70	198.06	5,563.1	-396.2	-129.2	401.9	0.00	0.00	0.00	0.00
5,700.0	10.70	198.06	5,661.3	-413.8	-134.9	419.9	0.00	0.00	0.00	0.00

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Plan Report for 4-11-3-2WH - Plan A Rev 0 Proposed Permit Only

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)	Toolface Azimuth (°)
5,800.0	10.70	198.06	5,759.6	-431.5	-140.7	437.8	0.00	0.00	0.00	0.00
5,900.0	10.70	198.06	5,857.8	-449.1	-146.5	455.7	0.00	0.00	0.00	0.00
6,000.0	10.70	198.06	5,956.1	-466.8	-152.2	473.6	0.00	0.00	0.00	0.00
6,100.0	10.70	198.06	6,054.4	-484.4	-158.0	491.5	0.00	0.00	0.00	0.00
6,200.0	10.70	198.06	6,152.6	-502.1	-163.7	509.4	0.00	0.00	0.00	0.00
6,300.0	10.70	198.06	6,250.9	-519.7	-169.5	527.3	0.00	0.00	0.00	0.00
6,400.0	10.70	198.06	6,349.1	-537.4	-175.2	545.2	0.00	0.00	0.00	0.00
6,500.0	10.70	198.06	6,447.4	-555.0	-181.0	563.1	0.00	0.00	0.00	0.00
6,600.0	10.70	198.06	6,545.7	-572.7	-186.7	581.0	0.00	0.00	0.00	0.00
6,700.0	10.70	198.06	6,643.9	-590.4	-192.5	599.0	0.00	0.00	0.00	0.00
6,800.0	10.70	198.06	6,742.2	-608.0	-198.3	616.9	0.00	0.00	0.00	0.00
6,900.0	10.70	198.06	6,840.5	-625.7	-204.0	634.8	0.00	0.00	0.00	0.00
7,000.0	10.70	198.06	6,938.7	-643.3	-209.8	652.7	0.00	0.00	0.00	0.00
7,100.0	10.70	198.06	7,037.0	-661.0	-215.5	670.6	0.00	0.00	0.00	0.00
7,200.0	10.70	198.06	7,135.2	-678.6	-221.3	688.5	0.00	0.00	0.00	0.00
7,300.0	10.70	198.06	7,233.5	-696.3	-227.0	706.4	0.00	0.00	0.00	0.00
7,400.0	10.70	198.06	7,331.8	-713.9	-232.8	724.3	0.00	0.00	0.00	0.00
7,500.0	10.70	198.06	7,430.0	-731.6	-238.5	742.2	0.00	0.00	0.00	0.00
7,600.0	10.70	198.06	7,528.3	-749.2	-244.3	760.1	0.00	0.00	0.00	0.00
7,700.0	10.70	198.06	7,626.5	-766.9	-250.1	778.0	0.00	0.00	0.00	0.00
7,800.0	10.70	198.06	7,724.8	-784.5	-255.8	796.0	0.00	0.00	0.00	0.00
7,900.0	10.70	198.06	7,823.1	-802.2	-261.6	813.9	0.00	0.00	0.00	0.00
7,981.2	10.70	198.06	7,902.9	-816.5	-266.2	828.4	0.00	0.00	0.00	0.00
8,000.0	10.42	198.06	7,921.3	-819.8	-267.3	831.7	1.50	-1.50	0.00	-180.00
8,100.0	8.92	198.06	8,019.9	-835.7	-272.5	847.9	1.50	-1.50	0.00	180.00
8,200.0	7.42	198.06	8,118.9	-849.3	-276.9	861.6	1.50	-1.50	0.00	180.00
8,300.0	5.92	198.06	8,218.2	-860.3	-280.5	872.8	1.50	-1.50	0.00	180.00
8,400.0	4.42	198.06	8,317.8	-868.9	-283.3	881.5	1.50	-1.50	0.00	180.00
8,500.0	2.92	198.06	8,417.6	-874.9	-285.3	887.7	1.50	-1.50	0.00	180.00
8,600.0	1.42	198.06	8,517.5	-878.5	-286.5	891.3	1.50	-1.50	0.00	180.00
8,694.6	0.00	0.00	8,612.1	-879.7	-286.8	892.5	1.50	-1.50	0.00	180.00
KOP at 8694.6 ft										
8,700.0	0.49	179.75	8,617.5	-879.7	-286.8	892.5	9.06	9.06	0.00	179.75
8,800.0	9.49	179.75	8,717.0	-888.4	-286.8	901.2	9.00	9.00	0.00	0.00
8,900.0	18.49	179.75	8,814.0	-912.5	-286.7	925.3	9.00	9.00	0.00	0.00
9,000.0	27.49	179.75	8,905.9	-951.5	-286.5	964.2	9.00	9.00	0.00	0.00
9,100.0	36.49	179.75	8,990.7	-1,004.4	-286.3	1,017.1	9.00	9.00	0.00	0.00
9,200.0	45.49	179.75	9,066.1	-1,070.0	-286.0	1,082.5	9.00	9.00	0.00	0.00
9,300.0	54.49	179.75	9,130.3	-1,146.5	-285.7	1,158.9	9.00	9.00	0.00	0.00
9,400.0	63.49	179.75	9,181.8	-1,232.1	-285.3	1,244.4	9.00	9.00	0.00	0.00
9,500.0	72.49	179.75	9,219.2	-1,324.7	-284.9	1,336.9	9.00	9.00	0.00	0.00
9,600.0	81.49	179.75	9,241.7	-1,422.1	-284.5	1,434.1	9.00	9.00	0.00	0.00
9,682.7	88.93	179.75	9,248.6	-1,504.4	-284.1	1,516.4	9.00	9.00	0.00	0.00
End of Build at 9682.7 ft										
9,700.0	88.93	179.75	9,248.9	-1,521.7	-284.0	1,533.6	0.00	0.00	0.00	0.00
9,751.9	88.93	179.75	9,249.9	-1,573.6	-283.8	1,585.5	0.00	0.00	0.00	0.00
7" Casing at 9751.9 MD & 9249.9 TVD - 7"										
9,800.0	88.93	179.75	9,250.8	-1,621.7	-283.6	1,633.5	0.00	0.00	0.00	0.00
9,900.0	88.93	179.75	9,252.6	-1,721.7	-283.2	1,733.3	0.00	0.00	0.00	0.00
9,901.9	88.93	179.75	9,252.7	-1,723.6	-283.2	1,735.2	0.00	0.00	0.00	0.00
10,000.0	91.87	179.75	9,252.0	-1,821.6	-282.7	1,833.2	3.00	3.00	0.00	0.02
10,035.2	92.93	179.75	9,250.5	-1,856.8	-282.6	1,868.3	3.00	3.00	0.00	0.02
10,100.0	92.93	179.75	9,247.2	-1,921.5	-282.3	1,932.9	0.00	0.00	0.00	0.00
10,200.0	92.93	179.75	9,242.1	-2,021.4	-281.9	2,032.6	0.00	0.00	0.00	0.00
10,300.0	92.93	179.75	9,237.0	-2,121.3	-281.5	2,132.4	0.00	0.00	0.00	0.00
10,400.0	92.93	179.75	9,231.9	-2,221.1	-281.0	2,232.1	0.00	0.00	0.00	0.00
10,500.0	92.93	179.75	9,226.8	-2,321.0	-280.6	2,331.8	0.00	0.00	0.00	0.00
10,600.0	92.93	179.75	9,221.7	-2,420.9	-280.2	2,431.6	0.00	0.00	0.00	0.00
10,700.0	92.93	179.75	9,216.5	-2,520.7	-279.7	2,531.3	0.00	0.00	0.00	0.00

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Plan Report for 4-11-3-2WH - Plan A Rev 0 Proposed Permit Only

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)	Toolface Azimuth (°)
10,800.0	92.93	179.75	9,211.4	-2,620.6	-279.3	2,631.0	0.00	0.00	0.00	0.00
10,900.0	92.93	179.75	9,206.3	-2,720.5	-278.9	2,730.8	0.00	0.00	0.00	0.00
11,000.0	92.93	179.75	9,201.2	-2,820.3	-278.4	2,830.5	0.00	0.00	0.00	0.00
11,100.0	92.93	179.75	9,196.1	-2,920.2	-278.0	2,930.2	0.00	0.00	0.00	0.00
11,200.0	92.93	179.75	9,191.0	-3,020.1	-277.6	3,030.0	0.00	0.00	0.00	0.00
11,300.0	92.93	179.75	9,185.9	-3,120.0	-277.2	3,129.7	0.00	0.00	0.00	0.00
11,400.0	92.93	179.75	9,180.8	-3,219.8	-276.7	3,229.4	0.00	0.00	0.00	0.00
11,500.0	92.93	179.75	9,175.6	-3,319.7	-276.3	3,329.2	0.00	0.00	0.00	0.00
11,600.0	92.93	179.75	9,170.5	-3,419.6	-275.9	3,428.9	0.00	0.00	0.00	0.00
11,700.0	92.93	179.75	9,165.4	-3,519.4	-275.4	3,528.6	0.00	0.00	0.00	0.00
11,800.0	92.93	179.75	9,160.3	-3,619.3	-275.0	3,628.3	0.00	0.00	0.00	0.00
11,900.0	92.93	179.75	9,155.2	-3,719.2	-274.6	3,728.1	0.00	0.00	0.00	0.00
12,000.0	92.93	179.75	9,150.1	-3,819.0	-274.1	3,827.8	0.00	0.00	0.00	0.00
12,100.0	92.93	179.75	9,145.0	-3,918.9	-273.7	3,927.5	0.00	0.00	0.00	0.00
12,200.0	92.93	179.75	9,139.9	-4,018.8	-273.3	4,027.3	0.00	0.00	0.00	0.00
12,300.0	92.93	179.75	9,134.8	-4,118.6	-272.8	4,127.0	0.00	0.00	0.00	0.00
12,400.0	92.93	179.75	9,129.6	-4,218.5	-272.4	4,226.7	0.00	0.00	0.00	0.00
12,500.0	92.93	179.75	9,124.5	-4,318.4	-272.0	4,326.5	0.00	0.00	0.00	0.00
12,600.0	92.93	179.75	9,119.4	-4,418.2	-271.6	4,426.2	0.00	0.00	0.00	0.00
12,700.0	92.93	179.75	9,114.3	-4,518.1	-271.1	4,525.9	0.00	0.00	0.00	0.00
12,800.0	92.93	179.75	9,109.2	-4,618.0	-270.7	4,625.7	0.00	0.00	0.00	0.00
12,900.0	92.93	179.75	9,104.1	-4,717.8	-270.3	4,725.4	0.00	0.00	0.00	0.00
13,000.0	92.93	179.75	9,099.0	-4,817.7	-269.8	4,825.1	0.00	0.00	0.00	0.00
13,100.0	92.93	179.75	9,093.9	-4,917.6	-269.4	4,924.8	0.00	0.00	0.00	0.00
13,200.0	92.93	179.75	9,088.8	-5,017.5	-269.0	5,024.6	0.00	0.00	0.00	0.00
13,300.0	92.93	179.75	9,083.6	-5,117.3	-268.5	5,124.3	0.00	0.00	0.00	0.00
13,400.0	92.93	179.75	9,078.5	-5,217.2	-268.1	5,224.0	0.00	0.00	0.00	0.00
13,500.0	92.93	179.75	9,073.4	-5,317.1	-267.7	5,323.8	0.00	0.00	0.00	0.00
13,600.0	92.93	179.75	9,068.3	-5,416.9	-267.3	5,423.5	0.00	0.00	0.00	0.00
13,700.0	92.93	179.75	9,063.2	-5,516.8	-266.8	5,523.2	0.00	0.00	0.00	0.00
13,703.4	92.93	179.75	9,063.0	-5,520.2	-266.8	5,526.6	0.00	0.00	0.00	0.00

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Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
8,694.6	8,612.1	-879.7	-286.8	KOP at 8694.6 ft
9,682.7	9,248.6	-1,504.4	-284.1	End of Build at 9682.7 ft
9,751.9	9,249.9	-1,573.6	-283.8	7" Casing at 9751.9 MD & 9249.9 TVD
13,703.4	9,063.0	-5,520.2	-266.8	Total Depth at 13703.4 ft

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (ft)	Origin +E/-W (ft)	Start TVD (ft)
Target	4-11-3-2WH BHL_Tgt	182.77	Slot	0.0	0.0	9,063.0

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.0	13,702.7	Plan A Rev 0 Proposed Permit Only	MWD

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Plan Report for 4-11-3-2WH - Plan A Rev 0 Proposed Permit Only

Casing Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
9,751.9	9,249.9	7"	7.000	8.750

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
4-11-3-2WH Setback Lines	0.0	0.0	0.0	Polygon
4-11-3-2WH BHL_Tgt	9,063.0	-5,520.2	-266.8	Point
4-11-3-2WH Section Lines	0.0	0.0	0.0	Polygon
4-11-3-2WH SL_Tgt	0.0	0.0	0.0	Point
4-11-3-2WH CP_Tgt	9,250.0	-1,573.6	-283.8	Point

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Newfield Exploration Company

HALLIBURTON

Duchesne County, UT

North Reference Sheet for Sec. 2-T3S-R2W - 4-11-3-2WH - Plan A Rev 0 Permit

All data is in Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.
Vertical Depths are relative to WELL @ 5464.0ft (Original Well Elev). Northing and Easting are relative to Sec. 2-T3S-R2W
Coordinate System is US State Plane 1983, Utah Central Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Lambert Conformal Conic (2 parallel)
Central Meridian is -111.50°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 39' 0.000 N°
False Easting: 500,000.00m, False Northing: 2,000,000.00m, Scale Reduction: 0.99992456

Grid Coordinates of Well: 2,213,356.42 m N, 620,557.19 m E
Geographical Coordinates of Well: 40° 14' 47.46" N, 110° 04' 58.61" W
Grid Convergence at Surface is: 0.91°

Based upon Minimum Curvature type calculations, at a Measured Depth of 13,703.39ft
the Bottom Hole Displacement is 5,526.62ft in the Direction of 182.77° (True).

Magnetic Convergence at surface is: -10.29° (16 November 2012, , BGGM2012)

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

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

1. My name is Peter Burns. I am a Land Associate for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 ("Newfield").

2. Newfield is the Operator of the proposed State 4-11-3-2WH well with a surface location to be positioned in the SWSW of Section 2, Township 3 South, Range 2 West (the "Drillsite Location"), with a well bore point of entry in the NWNW of Section 11, Township 3 South, Range 2 West and a bottom hole location to be positioned in the SWSW of Section 11, Township 3 South, Range 2 West, Duchesne County, Utah. The surface owner of the Drillsite Location is Phillip Blaine Brotherson and Glenna Jean Brotherson, Trustees of the Phillip Blain Brotherson Trust and Glenna Jean Brotherson Trust, whose address is RR 2 Box 2181, Roosevelt, UT 84066 ("Surface Owner").

3. Newfield and the Surface Owner have agreed upon an Easement, Right-of-Way and Surface Use Agreement dated November 6, 2012 covering the Drillsite Location and access to the Drillsite Location.

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FURTHER AFFIANT SAYETH NOT.

Peter Burns

ACKNOWLEDGEMENT

STATE OF COLORADO §
§
COUNTY OF DENVER §

Before me, a Notary Public, in and for the State, on this 6th day of November, 2012, personally appeared Peter Burns, 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.

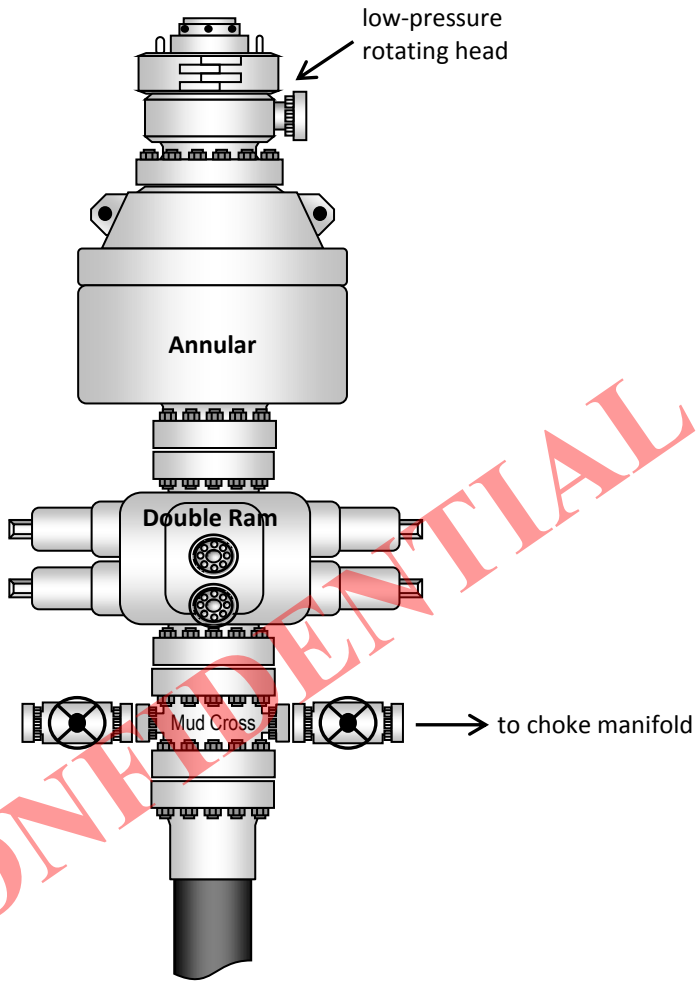
NOTARY PUBLIC

My Commission Expires:

KATHRYN PORTUS
Notary Public
State of Colorado

My Commission Expires February 09, 2013

Typical 5M BOP stack configuration



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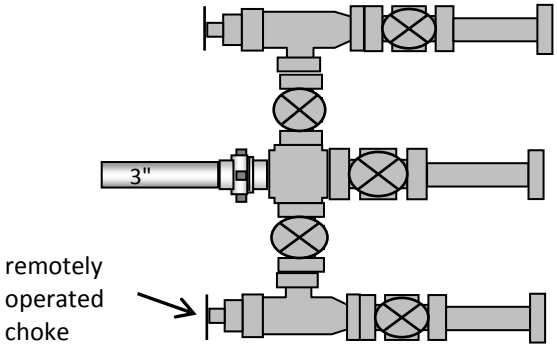
Typical 5M choke manifold configuration



RECEIVED: December 17, 2012

API Well Number: 43013519230000

NEWFIELD EXPLORATION COMPANY

LOCATION LAYOUT FOR

T.B.D. #13-2-3-2W & #4-11-3-2WH

SECTION 2, T3S, R2W, U.S.B.&M.

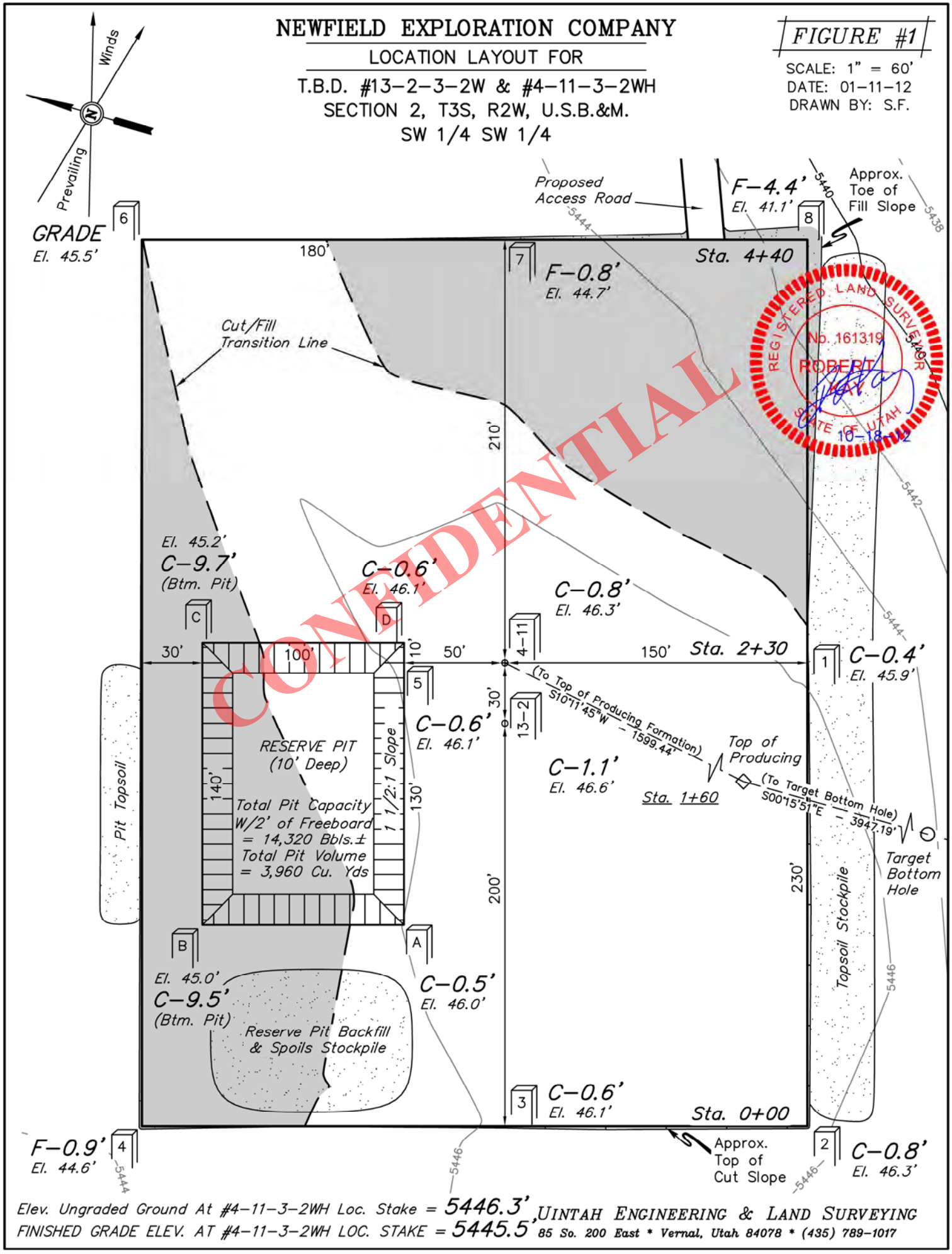
SW 1/4 SW 1/4

FIGURE #1

SCALE: 1" = 60'

DATE: 01-11-12

DRAWN BY: S.F.



Elev. Ungraded Ground At #4-11-3-2WH Loc. Stake = 5446.3'

FINISHED GRADE ELEV. AT #4-11-3-2WH LOC. STAKE = 5445.5'

UINTAH ENGINEERING & LAND SURVEYING

85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: December 17, 2012

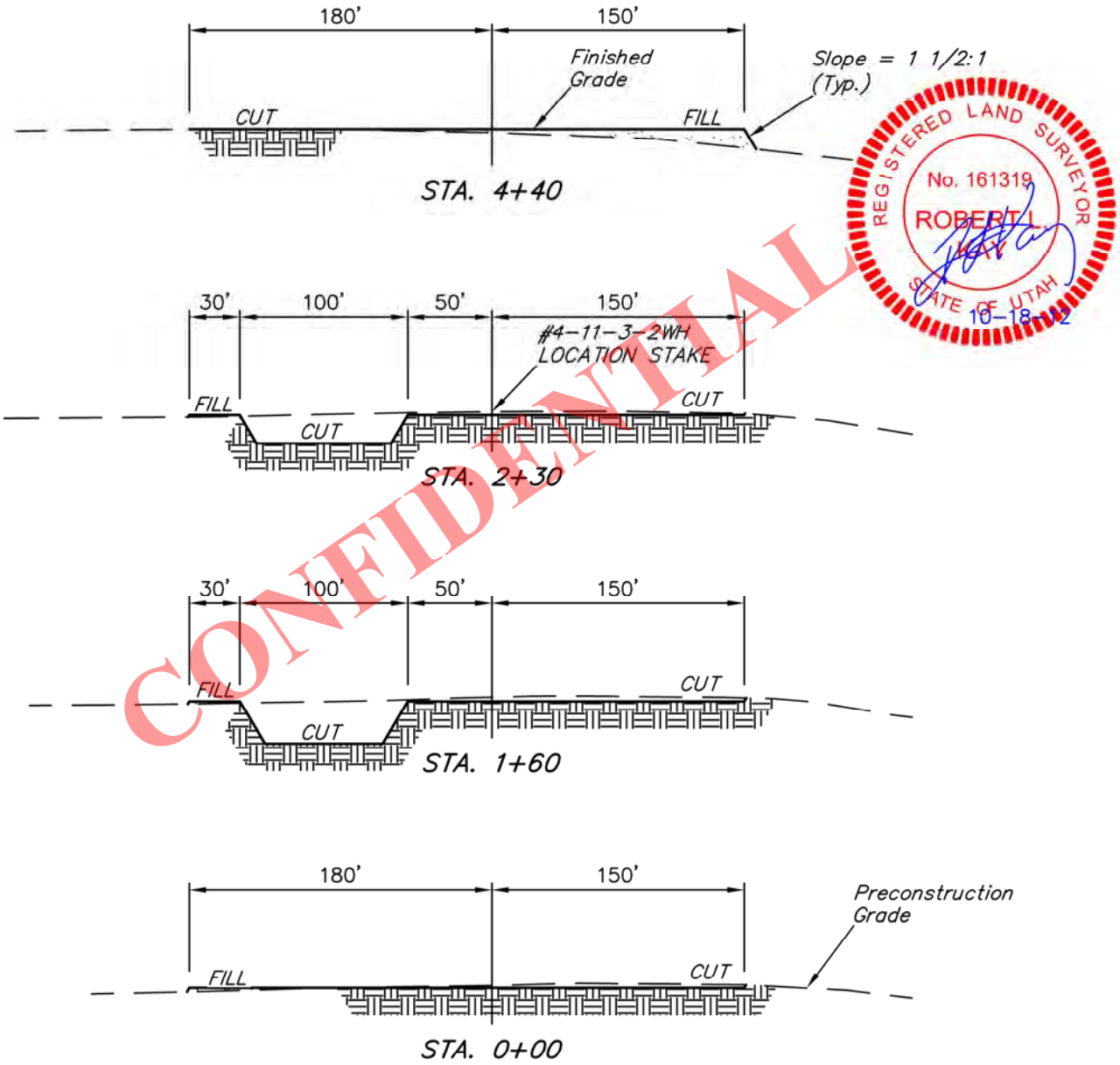
1" = 40'
X-Section Scale
1" = 100'
DATE: 01-11-12
DRAWN BY: S.F.

NEWFIELD EXPLORATION COMPANY

TYPICAL CROSS SECTIONS FOR

T.B.D. #13-2-3-2W & #4-11-3-2WH
SECTION 2, T3S, R2W, U.S.B.&M.
SW 1/4 SW 1/4

FIGURE #2



REGISTERED LAND SURVEYOR No. 161319 ROBERT L. KAY STATE OF UTAH 10-18-12

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

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 5.331 ACRES
ACCESS ROAD DISTURBANCE = ± 1.455 ACRES
PIPELINE DISTURBANCE = ± 0.117 ACRES
TOTAL = ± 6.903 ACRES

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	2,730 Cu. Yds.
Remaining Location	=	4,580 Cu. Yds.
TOTAL CUT	=	7,310 CU. YDS.
FILL	=	2,600 CU. YDS.

EXCESS MATERIAL	=	4,710 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	4,710 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0 Cu. Yds.

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RECEIVED: December 17, 2012

NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT FOR

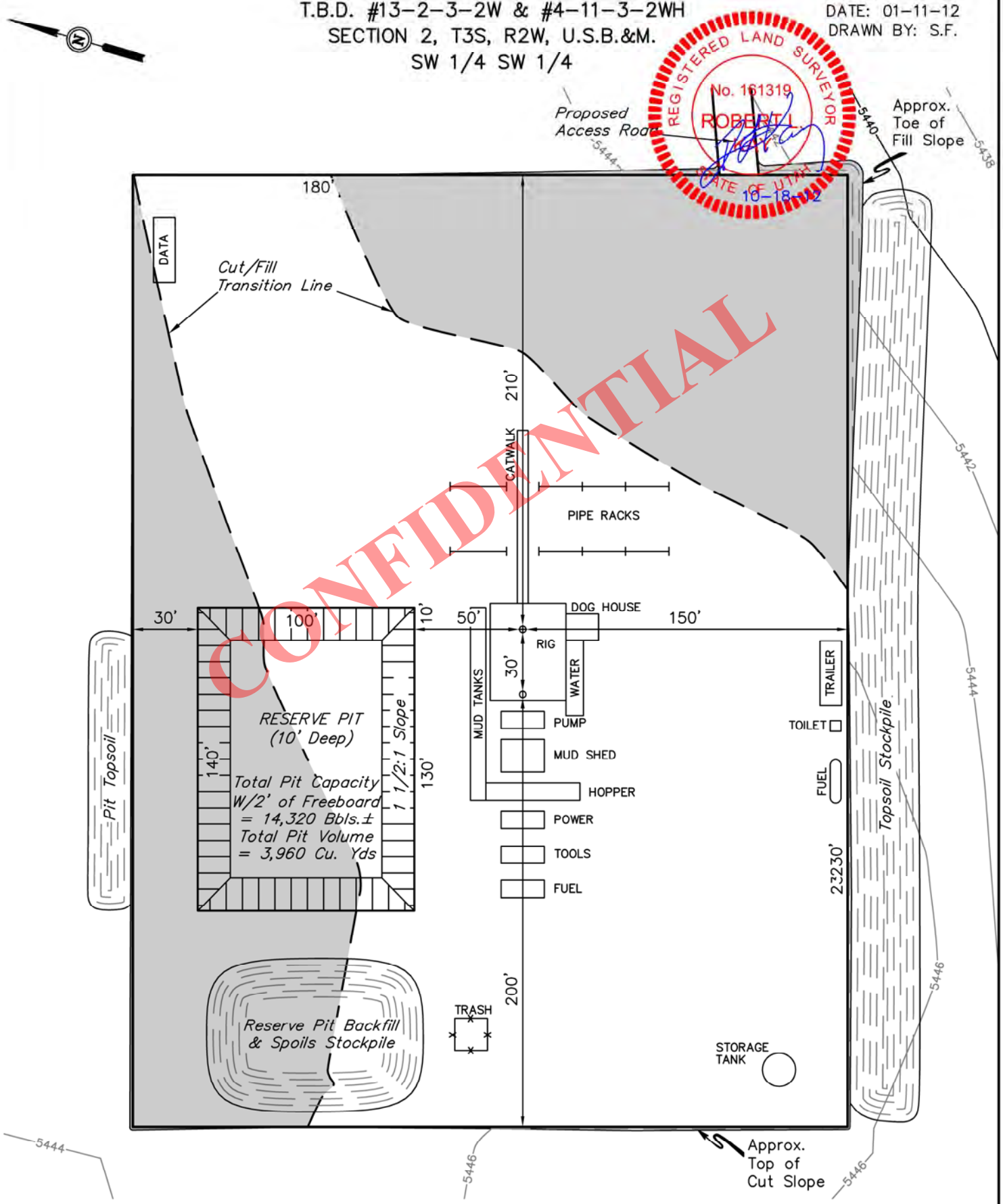
T.B.D. #13-2-3-2W & #4-11-3-2WH

SECTION 2, T3S, R2W, U.S.B.&M.

SW 1/4 SW 1/4

FIGURE #3

SCALE: 1" = 60'
DATE: 01-11-12
DRAWN BY: S.F.



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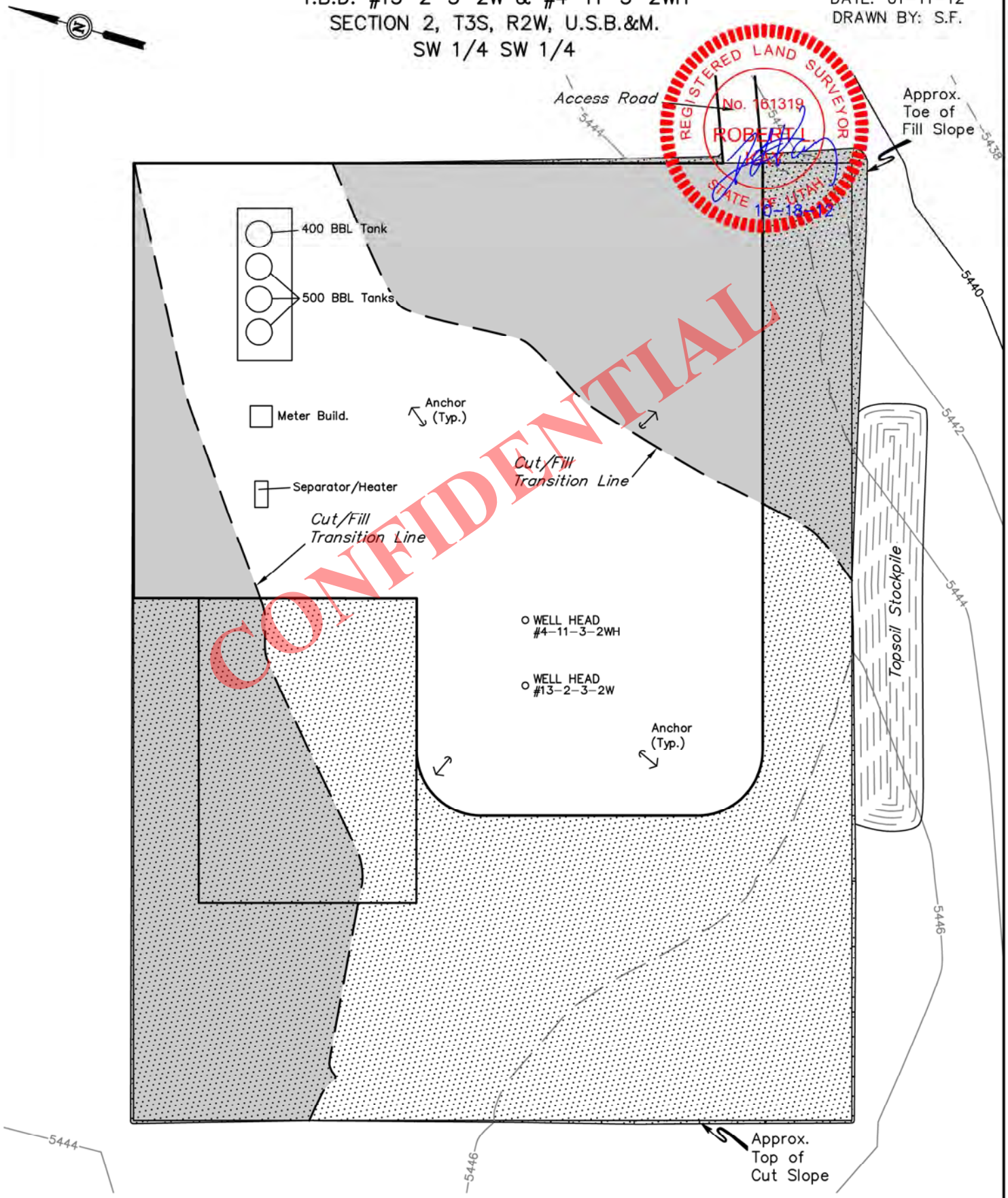
NEWFIELD EXPLORATION COMPANY

PRODUCTION FACILITY LAYOUT FOR

T.B.D. #13-2-3-2W & #4-11-3-2WH
SECTION 2, T3S, R2W, U.S.B.&M.
SW 1/4 SW 1/4

FIGURE #4

SCALE: 1" = 60'
DATE: 01-11-12
DRAWN BY: S.F.



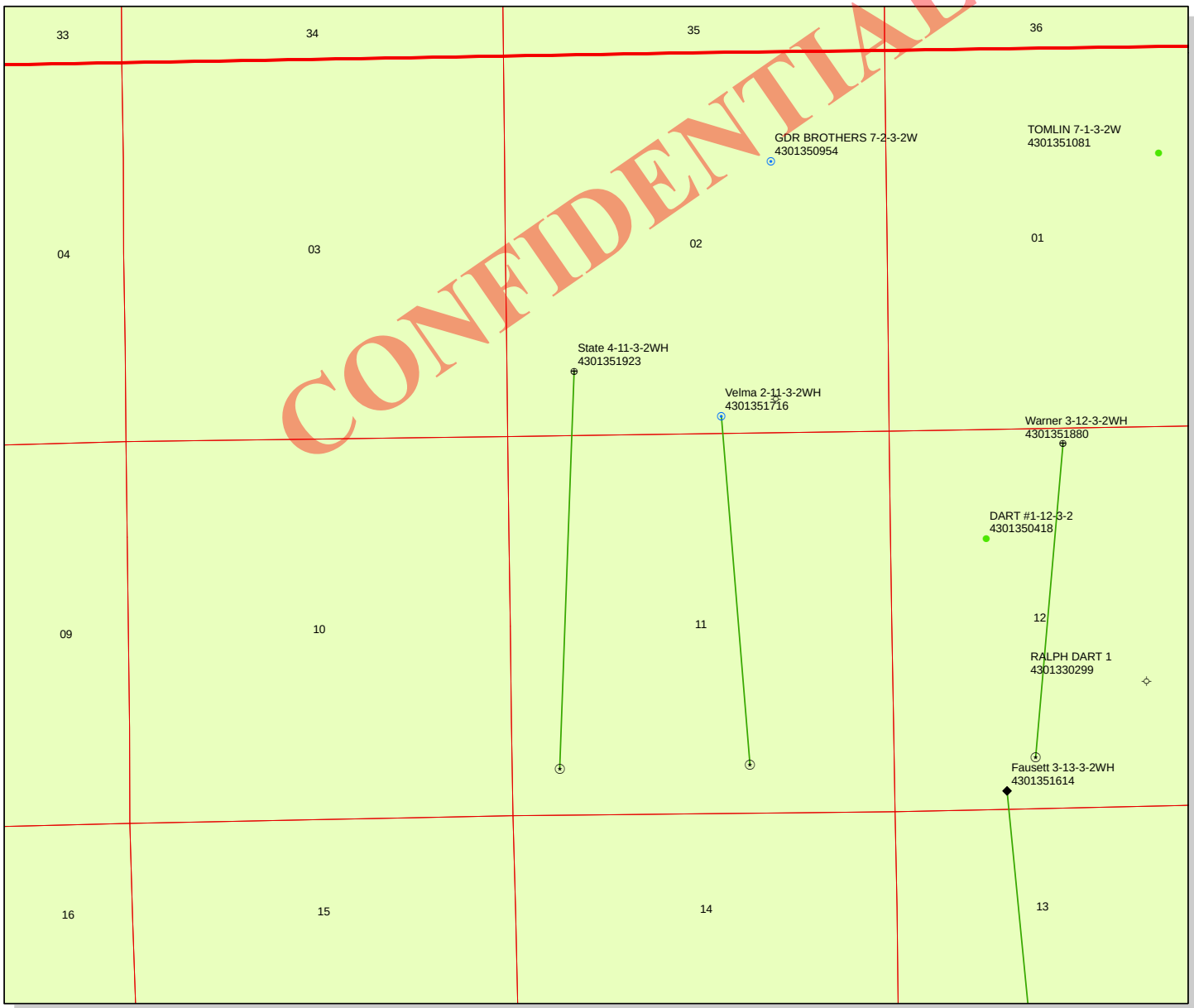
RECLAIMED AREA

APPROXIMATE ACREAGES
UN-RECLAIMED = ± 1.682 ACRES

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

RECEIVED: December 17, 2012

API Well Number: 43013519230000



API Number: 4301351923

Well Name: State 4-11-3-2WH

Township T03.0S Range R02.0W Section 02

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
- Bottom Hole Location - OilGasDb

1,750 875 0 1,750 Feet

1:17,106

RECEIVED: December 19, 2012

API Well Number: 43013519230000

BOPE REVIEW NEWFIELD PRODUCTION COMPANY State 4-11-3-2WH 43013519230000

Well Name	NEWFIELD PRODUCTION COMPANY State 4-11-3-2WH 43013519230			
String	Cond	Surf	I1	Prod
Casing Size(")	14.000	9.625	7.000	4.500
Setting Depth (TVD)	60	2500	9250	9063
Previous Shoe Setting Depth (TVD)	0	60	2500	9250
Max Mud Weight (ppg)	8.3	8.3	11.5	11.5
BOPE Proposed (psi)	0	500	5000	5000
Casing Internal Yield (psi)	1000	3520	9950	12410
Operators Max Anticipated Pressure (psi)	5184			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	air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	13	NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	13	NO	
Required Casing/BOPE Test Pressure=		60	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi	*Assumes 1psi/ft frac gradient

Calculations	Surf String	9.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	1079		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	779	NO	airdrill or WBM
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	529	NO	Reasonable depth, no pressure
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	542	NO	
Required Casing/BOPE Test Pressure=		2464	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		60	psi	*Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"	
Max BHP (psi)	.052*Setting Depth*MW=	5532		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4422	YES	WBM
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3497	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4047	NO	Reasonable
Required Casing/BOPE Test Pressure=		5000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		2500	psi	*Assumes 1psi/ft frac gradient

Calculations	Prod String	4.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	5420		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4332	YES	WBM
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3426	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	5461	YES	
Required Casing/BOPE Test Pressure=		5000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		9250	psi	*Assumes 1psi/ft frac gradient

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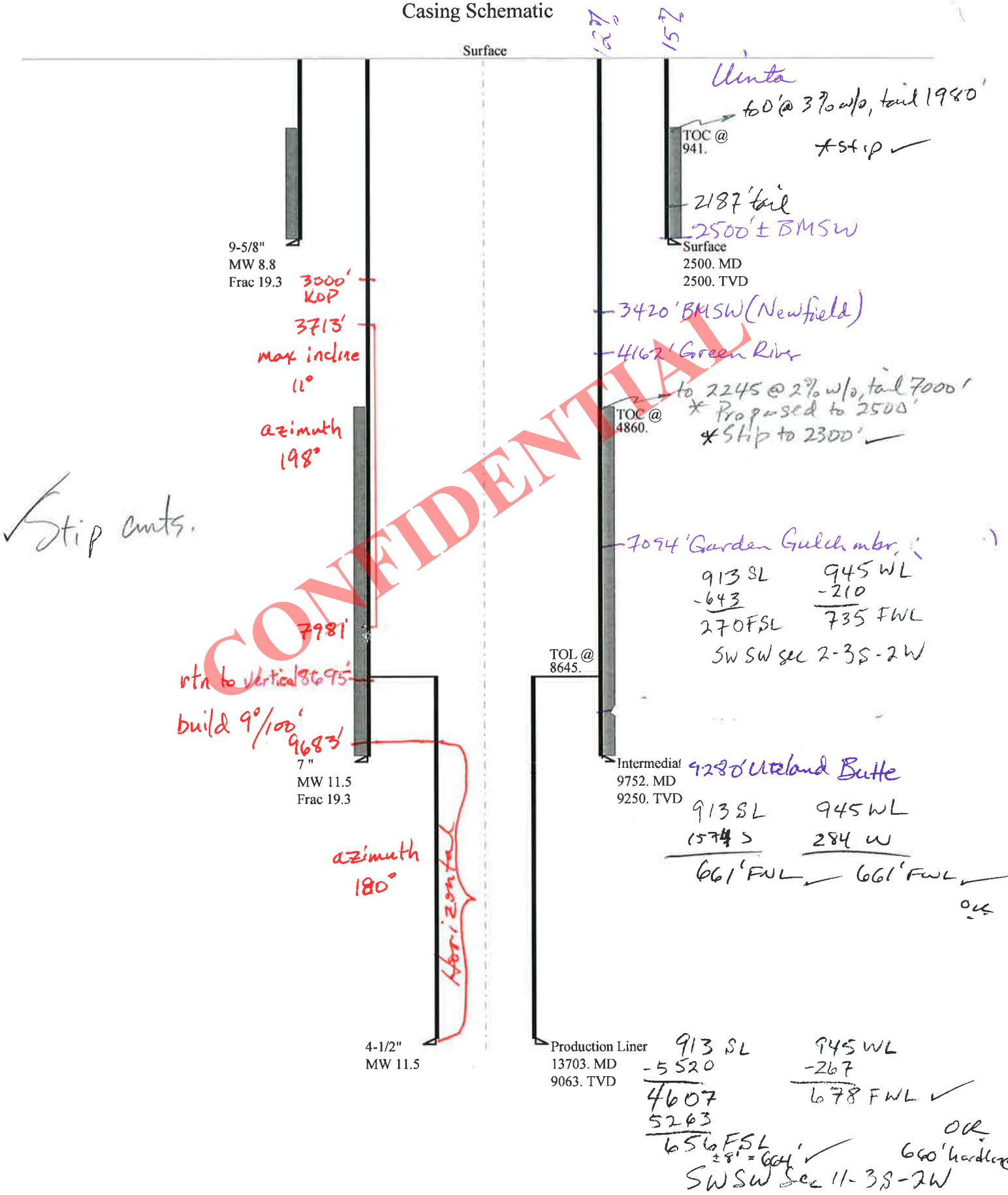
RECEIVED: February 20, 2013

API Well Number: 43013519230000

43013519230000 State 4-11-3-2WH

Casing Schematic



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API Well Number: 43013519230000

Well name:	**43013519230000 State 4-11-3-2WH**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Surface
Project ID:	43-013-51923
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 8.800 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 2,200 psi

Internal gradient: 0.120 psi/ft

Calculated BHP 2,500 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

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

Tension is based on air weight.

Neutral point: 2,174 ft

Environment:

H2S considered?	No
Surface temperature:	74 °F
Bottom hole temperature:	109 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	100 ft
Cement top:	941 ft

Non-directional string.

Re subsequent strings:

Next setting depth:	9,250 ft
Next mud weight:	11.500 ppg
Next setting BHP:	5,526 psi
Fracture mud wt:	19.250 ppg
Fracture depth:	2,500 ft
Injection pressure:	2,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	2500	9.625	36.00	J-55	LT&C	2500	2500	8.796	20443

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1143	2020	1.767	2500	3520	1.41	90	453	5.03 J

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

Date: February 19,2013
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2500 ft, a mud weight of 8.8 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.

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API Well Number: 43013519230000

Well name:	**43013519230000 State 4-11-3-2WH**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Intermediate
Project ID:	43-013-51923
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight:	11.500 ppg
Internal fluid density:	1.000 ppg

Burst

Max anticipated surface pressure:	3,491 psi
Internal gradient:	0.220 psi/ft
Calculated BHP	5,526 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: 7,719 ft

Environment:

H2S considered?	No
Surface temperature:	74 °F
Bottom hole temperature:	203 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	1,000 ft
Cement top:	4,860 ft

Directional Info - Build & Hold

Kick-off point	3000 ft
Departure at shoe:	1599 ft
Maximum dogleg:	9 °/100ft
Inclination at shoe:	88.93 °

Re subsequent strings:

Next setting depth:	9,250 ft
Next mud weight:	11.500 ppg
Next setting BHP:	5,526 psi
Fracture mud wt:	19.250 ppg
Fracture depth:	9,250 ft
Injection pressure:	9,250 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	9752	7	26.00	P-110	Buttress	9250	9752	6.151	108452

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	5045	6230	1.235	5526	9950	1.80	240.5	830.4	3.45 B

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: February 19,2013
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 9250 ft, a mud weight of 11.5 ppg An internal gradient of .052 psi/ft was used for collapse from TD
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.

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API Well Number: 43013519230000

Well name:	**43013519230000 State 4-11-3-2WH**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Production Liner
Project ID:	43-013-51923
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 11.500 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 3,420 psi

Internal gradient: 0.220 psi/ft

Calculated BHP 5,414 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: 9,076 ft

Environment:

H2S considered? No

Surface temperature: 74 °F

Bottom hole temperature: 201 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 1,000 ft

Liner top: 8,645 ft

Directional Info - Build & Hold

Kick-off point 3000 ft

Departure at shoe: 5526 ft

Maximum dogleg: 9 °/100ft

Inclination at shoe: 92.93 °

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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	5103	4.5	13.50	P-110	Buttress	9063	13703	3.795	30615

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	5414	10680	1.973	5456	12410	2.27	7.4	421.9	57.38 B

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

Phone: 801 538-5357

FAX: 801-359-3940

Date: February 19,2013

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 9063 ft, a mud weight of 11.5 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.

NEWFIELD
ROCKY MOUNTAINS

December 11, 2012

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

RE: State 4-11-3-2WH
Township 3 South, Range 2 West, Section 11
Duchesne County, Utah

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Dear Mr. Hill,

Newfield Production Company ("Newfield") proposes to drill the State 4-11-3-2WH from a surface location of 913' FSL and 945' FWL of Section 2, T3S R2W, to a bottom hole location of 660'FSL and 660' FWL of Section 11, T3S R2W. Newfield shall case and cement the State 4-11-3-2WH wellbore from the surface location to the point where the wellbore reaches the legal setback of 660' FNL and 660' FWL of Section 11, T3S R2W. The cased and cemented portion of the wellbore shall not be perforated nor produced. Newfield is the operator of the GDR Bros 7-2-3-2W, located in the northern offset drilling and spacing unit (Section 2, T3S R2W). In the event a future recompletion into the cased and cemented portion of the wellbore is proposed, Newfield shall file the appropriate application with the State.

The proposed horizontal lateral of the State 4-11-3-2WH shall be drilled from north to south along the 660' FWL of Section 11 legal setback to a bottom hole location 660' FSL and 660' FWL of Section 11. In the event the horitzontal lateral drifts west, Newfield will attempt to acquire consent from all owners in Section 10 of T3S R2W. At the current time, Newfield and its partners own approximately 90% of the working interest in Section 10.

Due to these circumstances, Newfield respectfully requests that DOGM administratively grant an exception location for the State 4-11-3-2WH.

If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at reveland@newfield.com . Your consideration of this matter is greatly appreciated.

Sincerely,

Roxann Eveland

Roxann Eveland
Landman

1001 17th Street, Suite 2000 Denver, CO 80202 (303) 893-0102 Fax (303) 893-0103

API Well Number: 43013519230000

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dianawhitney@utah.gov

Mail

More

4 of 44

COMPOSE

Inbox (14)
Starred
Important
Sent Mail
Drafts
BLM
Cabinet
Electronic filing
Eng. Tech
New Formats
Travel
Follow up
Misc
Priority
Tariq
More

State 4-11-3-2WH Inbox x

Jeff Conley 8:45 AM (2 hours ago)

to Jim, Lavonne, me, Brad, kcarroll, mcrozier

Hello,

The following well has recieved approval from SITLA

(4301351923) State 4-11-3-2WH

Click here to Reply, Reply to all, or Forward

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Last account activity: 4 days ago
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People (6)

Jeff Conley
Trust Lands Resource Specialist

Show details

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RECEIVED: March 26, 2013

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

Operator	NEWFIELD PRODUCTION COMPANY				
Well Name	State 4-11-3-2WH				
API Number	43013519230000	**APD No**	7321	**Field/Unit**	WILDCAT
Location: 1/4,1/4	SWSW **Sec** 2 **Tw** 3.0S **Rng** 2.0W 913 FSL 945 FWL				
GPS Coord (UTM)	578000 4455526	**Surface Owner**	Phillip Blain Brotherson & Glenna Jean Brotherson		

Participants

K. Carrol, F. Bird, C. Miller, J. Henderson– Newfield; Phil Brotherson - landowner

Regional/Local Setting & Topography

Location is situated on fallow grazing ground atop the northern most bench of the North Myton Benches just off county road known as Lemon Ln. on the West side of Hwy 40 less than 1 mile. The immediate area below, both North and South, was incised from an ancient riverbed and flood plain which has now moved farther south and is prime farmland. The location has a good portion of large cobbles and silty loam soils. The bench is approximately 400 feet wide and relatively flat. No wildlife or flora could be noted as location is currently under 18 inches of snow.

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Surface Use Plan

Current Surface Use

Grazing

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.34	**Width** 300 **Length** 400	Onsite	UNTA

Ancillary Facilities N

operator will bring in 3 inches of cap rock

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

High desert shrubland ecosystem.
Expected vegetation consists of black sagebrush, shadscale, Atriplex spp., mustard spp, rabbit brush, horsebrush, broom snakeweed, Opuntia spp and spring annuals.
Adjacent habitat contains forbs that may be suitable browse for deer, antelope, prairie dogs or rabbits, though none were observed.

Soil Type and Characteristics

very cobbly silty loams

Erosion Issues N

RECEIVED: March 26, 2013

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? Y
to retain fluids from leaving footprint of the pad

Erosion Sedimentation Control Required? N

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)	100 to 200	5
Distance to Surface Water (feet)	300 to 1000	2
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	20
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	10 to 20	5
Affected Populations		
Presence Nearby Utility Conduits	Present	15
	Final Score	52 1 Sensitivity Level

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Characteristics / Requirements

A 140’ x 100' x 8' deep reserve pit is planned in an area of cut on the northwest side of the location. A pit liner is required. Operator commonly uses a 16 mil liner with a felt underliner. Pit should be fenced to prevent entry by deer, other wildlife and domestic animals. A minimum freeboard of two feet shall be maintained at all times. Pit to be closed within one year after drilling activities are complete.

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

Other Observations / Comments

Chris Jensen	12/19/2012
Evaluator	**Date / Time**

RECEIVED: March 26, 2013

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
7321	43013519230000	LOCKED	OW	P	No

Operator	NEWFIELD PRODUCTION COMPANY	**Surface Owner-APD**	Phillip Blain Brotherson & Glenna Jean Brotherson
Well Name	State 4-11-3-2WH	**Unit**	
Field	WILDCAT	**Type of Work**	DRILL
Location	SWSW 2 3S 2W U 913 FSL 945 FWL GPS Coord (UTM) 577996E 4455516N		

Geologic Statement of Basis

Newfield proposes to set 60' of conductor and 2,500' of surface casing at this location. The base of the moderately saline water at this location is estimated to be at a depth of 2,500'. A search of Division of Water Rights records shows 23 water wells within a 10,000 foot radius of the center of Section 2. Depth is listed as ranging from 22 to 800 feet. Depths are not listed for 5 wells. Average depth is around 150 feet. Water use is listed as irrigation, stock watering, municipal, industrial and domestic use. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect ground water in this area.

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Brad Hill
APD Evaluator

1/14/2013
Date / Time

Surface Statement of Basis

Location is proposed in a good location although outside the spacing window which is typical of a horizontal well. Access road enters the pad from the South. The landowner was in attendance for the pre-site inspection.
The soil type and topography at present do not combine to pose a significant threat to erosion or sediment/ pollution transport in these regional climate conditions.
Construction standards of the Operator appear to be adequate for the proposed purpose as submitted. Plans lack measures for importing materials, using a geogrid or compacting native soils to improve stability. Reserve pit is under areas of fill on Corners B & C. Operator has not submitted plans for protection of slopes.
I recognize no special flora or animal species or cultural resources on site that the proposed action may harm. The location was not previously surveyed for cultural and paleontological resources as the operator saw fit. I have advised the operator take all measures nesessary to comply with ESA and MBTA and that actions insure no disturbance to TES species that may have not been seen during onsite visit.
The location should be bermed to prevent any fluids from leaving the confines of the pad. Fencing around the reserve pit will be necessary once the well is spudded to prevent wildlife and livestock from entering. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit. Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation and stability issues.

RECEIVED: March 26, 2013

Chris Jensen	12/19/2012
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 12 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation and stability issues.

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RECEIVED: March 26, 2013

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/17/2012
API NO. ASSIGNED: 43013519230000
WELL NAME: State 4-11-3-2WH
OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)
PHONE NUMBER: 435 719-2018
CONTACT: Don Hamilton

PROPOSED LOCATION: SWSW 02 030S 020W
Permit Tech Review: ✔

SURFACE: 0913 FSL 0945 FWL
Engineering Review: ✔

BOTTOM: 0660 FSL 0660 FWL
Geology Review: ✔

COUNTY: DUCHESNE
LATITUDE: 40.24647
LONGITUDE: -110.08297
UTM SURF EASTINGS: 577996.00
NORTHINGS: 4455516.00
FIELD NAME: WILDCAT
LEASE TYPE: 3 - State
LEASE NUMBER: ML-51676
PROPOSED PRODUCING FORMATION(S): GREEN RIVER
SURFACE OWNER: 4 - Fee
COALBED METHANE: NO

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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 Wells

- ☐ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
5 - Statement of Basis - bhill
10 - Cement Ground Water - hmacdonald
25 - Surface Casing - hmacdonald
27 - Other - bhill

RECEIVED: March 26, 2013

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

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

Permit To Drill

****

Well Name: State 4-11-3-2WH
API Well Number: 43013519230000
Lease Number: ML-51676
Surface Owner: FEE (PRIVATE)
Approval Date: 3/26/2013

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

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

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

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

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

The 7” casing string cement shall be brought back to ±2300’ to isolate base of moderately saline ground water.

Surface casing shall be cemented to the surface.

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

well:

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

Notification Requirements:

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

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

Contact Information:

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

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

Reporting Requirements:

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

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

Approved By:

Approved By:

For John Rogers
Associate Director, Oil & Gas

Duchesne County Planning, Zoning
& Community Development
734 North Center Street
P.O. Box 317
Duchesne, Utah 84021
(435) 738-1152
Fax (435) 738-5522

RECEIVED
MAR 2 7 2013
DIV. OF OIL, GAS & MINING

March 26, 2013

Accepted by the
Utah Division of
Oil, Gas and Mining

43 013 51923
3S 2W 2

Mr. Don Hamilton
Star Point Enterprises, Inc.
2580 Creekview Road
Moab, UT 84532

FOR RECORD ONLY

RE: Conditional Use Permit for Newfield Production Company (State 4-11-3-2WH)

Dear Mr. Hamilton:

On March 19, 2013, Duchesne County mailed a public notice regarding the anticipated approval of your request for a Conditional Use Permit to allow the Newfield Production Company to drill an oil well on property owned by Phillip and Glenna Brotherson, located at 4682 W 4000 South in the Lemon Bench area.

No persons receiving the notice have contacted the county to request an administrative hearing. Thus, the conditional use permit has been granted, subject to the following conditions:

1. Before drilling commences, the applicant shall obtain Duchesne County Fire and Emergency Management Director approval of the location and type of hazardous and flammable material facilities to be located at the site.

2. Applicant shall protect the public from exposure to hazardous equipment and materials on the site. Fencing is not required as the nearest home is more than 300 feet away.

3. Well facilities shall be painted an appropriate earth tone color to help them blend into the surroundings.

4. Applicant shall reclaim the property in accordance with the agreement with the property owner and in accordance with DOGM standards, when the well is plugged and abandoned.

5. Applicants shall obtain a road access permit from the Duchesne County Road Department; consult with the Duchesne County Public Works Director regarding the ability of 4000 South to accommodate heavy vehicle traffic and abide by any conditions of road usage, such as load limits, established by the Public Works Director.

6. Portable toilets shall be provided at active well sites for use by personnel. After the subject well is placed in production, the applicant shall comply with TriCounty Health Department sanitation requirements for personnel working in the project area.

7. Electric engines are not required; however, if adequate power is available at this location, electric engine(s) are encouraged. If adequate power is not available; engines shall be adequately muffled to mitigate noise impacts.

If you have any questions regarding this letter, please contact me.

Sincerely,

Mike Hyde

Mike Hyde, AICP
Community Development Administrator

pc: Phillip & Glenna Brotherson, Rt. 2, Box 2181A, Roosevelt, UT 84066-9212
Kirby Carroll, Newfield Production Co., 1001 17th Street, Suite 2000, Denver, CO 80202
Tim Eaton, Newfield Production Company, Rt. 3, Box 3630, Myton, UT 84052
Mike Lefler, Fire & Emergency Management Director
Glen Murphy, Public Works Director
Darrin Brown, TriCounty Health Department, 133 S 500 East, Vernal, UT 84078
Brad Hill, Permitting Manager, P.O. Box 145801, Salt Lake City, Utah 84114-5801

P:\Mike\Oil and Gas Wells\2013\Newfield-Brotherson approval.docx

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-51676

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: Oil Well

8. WELL NAME and NUMBER: State 4-11-3-2WH

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013519230000

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: 0913 FSL 0945 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 02 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: 4/19/2013	☐ 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 respectfully requests to change the horizontal target of the subject well from the Uteland Butte formation to the Wasatch formation. An updated drilling plan and directional plan are attached.

Approved by the Utah Division of Oil, Gas and Mining

Date: April 25, 2013

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Don Hamilton	435 719-2018	Permitting Agent

SIGNATURE	DATE
N/A	4/16/2013

RECEIVED: Apr. 16, 2013

Newfield Production Company
4-11-3-2WH
Surface Hole Location: 913' FSL, 945' FWL, Section 2, T3S, R2W
Bottom Hole Location: 660' FSL, 660' FWL, Section 11, T3S, R2W
Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta	surface			
Green River	4,150'			
Garden Gulch member	7,023'			
Wasatch	9,365'			
Lateral TD	9,481'	TVD /	14,087'	MD

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

Base of moderately saline	1,105'		(water)
Green River	7,023'	- 9,365'	(oil)
Wasatch	9,365'	- 9,762'	(oil)

3. Pressure Control

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

4. Casing

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Conductor	0'	60'	37	H-40	Weld	--	--	--	--	--	--
14									--	--	--
Surface	0'	2,500'	36	J-55	STC	8.33	8.33	12	3,520	2,020	394,000
9 5/8									2.51	2.54	4.38
Intermediate	0'	9,063'	26	P-110	BTC	10	10.5	15	9,960	6,210	830,000
7		9,157'							1.91	1.54	3.49
Production	9,207'	9,481'	13.5	P-110	BTC	13	13.5	--	12,410	10,670	422,000
4 1/2		14,087'							2.27	1.87	6.41

Assumptions:

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

RECEIVED: Apr. 16, 2013

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	2,000'	Premium Lite II w/ 3% KCl + 10% bentonite	720 / 204	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	6,023'	Premium Lite II w/ 3% KCl + 10% bentonite	1041 / 295	15%	11.0	3.53
Intermediate Tail	8 3/4	2,134'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	369 / 298	15%	14.3	1.24
Production	6 1/8	4,880'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	529 / 426	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 casing string will be calculated from an open hole caliper log, plus 15% excess.

6. Type and Characteristics of Proposed Circulating Medium

Interval	Description
Surface - 2,500'	An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.
2,500' - TD	A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

-or-

RECEIVED: Apr. 16, 2013

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

Anticipated maximum mud weight is 13.5 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 0.68 psi/ft gradient.

9,481' x 0.68 psi/ft = 6409 psi

No abnormal temperature is expected. No H_2S is expected.

9. Other Aspects

7" casing will be set 100' above the KOP. A 6-1/8" drilling assembly will be used to drill out the 7" shoe and build the curve
Directional tools will then be used to build to 92.90 degrees inclination and the well will be landed in the Wasatch 15 formation.
The lateral will be drilled to the BHL shown on the plat. (+50' buffer from setback)
A liner will be run in the lateral and cement will be used for zonal isolation. The top of the liner will be place 50' above KOP and will be isolated with a liner top packer.

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

  If oil based mud (OBM) is used, all processed OBM drill cuttings would be removed from the well bore using a closed loop system. OBM cuttings would be dried and centrifuged and then temporarily stored within a lined pit that would be constructed inboard of the pad area. The pit would be lined with 16 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit, and a minimum of two feet of free board would be maintained between the maximum fluid level and the top of the pit at all times.

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All OBM cuttings will be mechanically dried and centrifuged so that they can be easily transferred to a lined cuttings pit with little to no free fluid on them. Samples of the mechanically dried OBM cuttings will be taken for chemical analysis. The OBM cuttings will then be mixed with a chemical drying agent and the chemically dried OBM cuttings will be placed in a lined cuttings pit on the generating location that is separated from the water based cuttings. The pit will be of sufficient size to contain all cuttings generated in the drilling process. At this point, the chemically dried OBM cuttings are ready for the Firmus® construction process or the OBM cuttings may also be transported to a state approved disposal facility. If an oil based mud is not used, a conventional reserve pit will be utilized. The pit will be reclaimed using UDOGM and BLM approved procedures.

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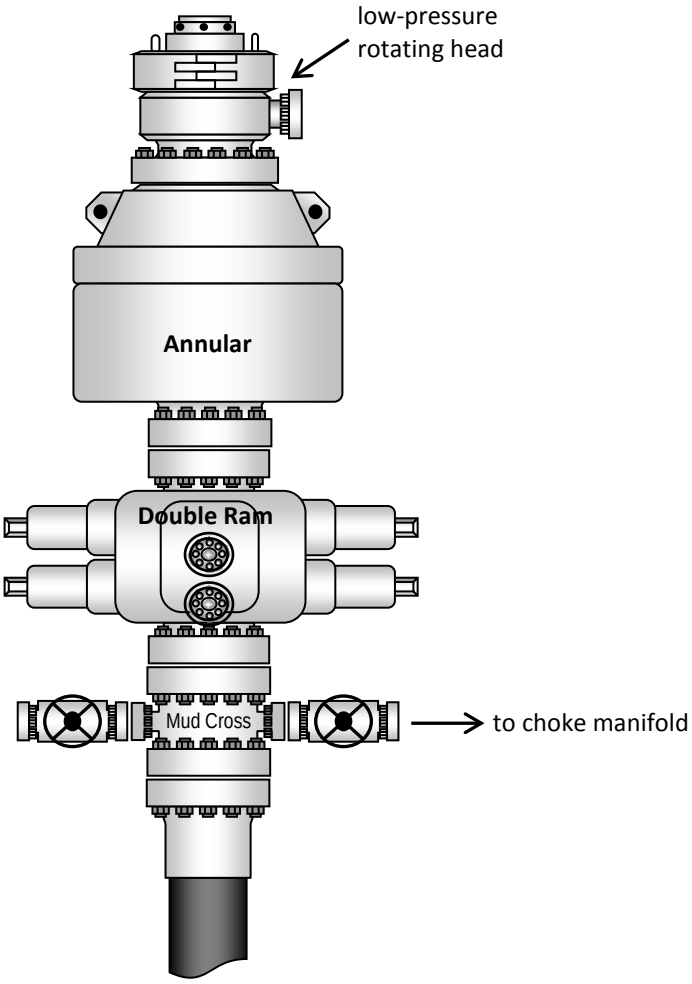
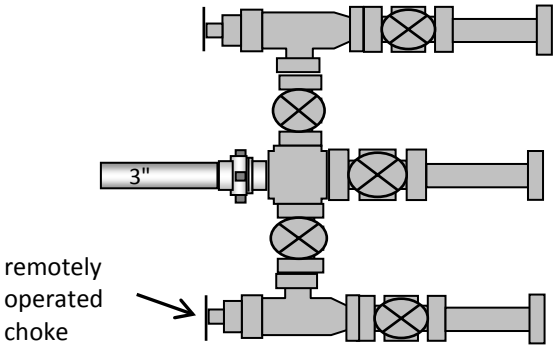
Typical 5M BOP stack configuration



Typical 5M choke manifold configuration



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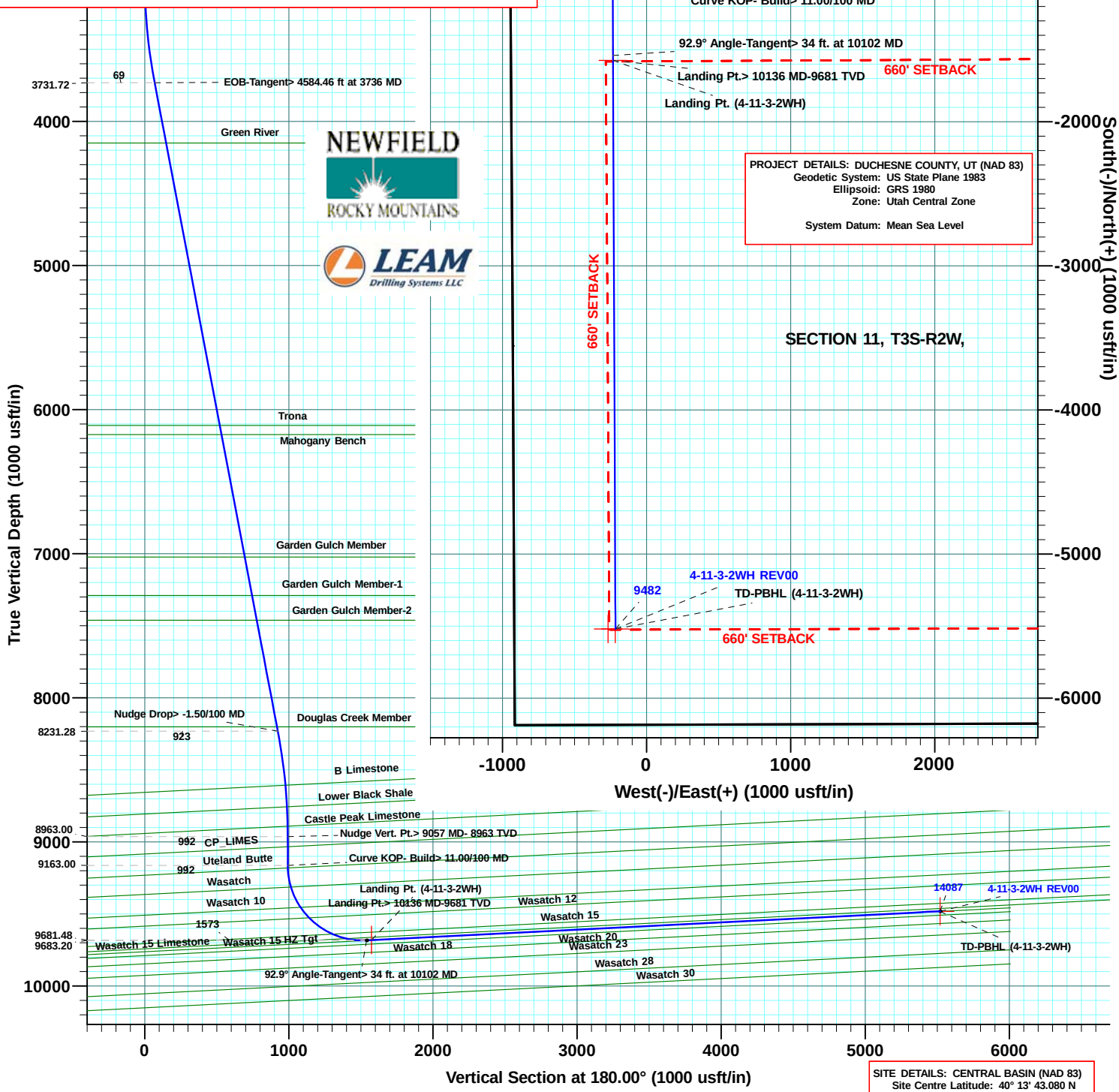
LEAM Drilling Systems, Inc.
FOR
NEWFIELD EXPLORATION ROCKY MOUNTAINS
WELL: 4-11-3-2WH (PLAN: REV00)
DUCHESNE COUNTY, UTAH
DATE: APRIL 10, 2013 -- WELL PLAN PLOT

WELL DETAILS: 4-11-3-2WH
Ground Level: 5464.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	7261653.51	2035944.72	40° 14' 47.460 N	110° 4' 58.610 W	



PROJECT DETAILS: DUCHESNE COUNTY, UT (NAD 83)
Geodetic System: US State Plane 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone

System Datum: Mean Sea Level

SITE DETAILS: CENTRAL BASIN (NAD 83)
Site Centre Latitude: 40° 13' 43.080 N
Longitude: 110° 15' 32.490 W

Positional Uncertainity: 0.00
Convergence: 0.79
Local North: True

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	
3736.27	11.04	193.32	3731.72	-68.84	-16.30	1.50	193.32	68.84	
8320.73	11.04	193.32	8231.28	-923.41	-218.70	0.00	0.00	923.41	
9057.01	0.00	0.00	8963.00	-992.25	-235.00	1.50	180.00	992.25	
9257.01	0.00	0.00	9163.00	-992.25	-235.00	0.00	0.00	992.25	
10101.55	92.90	179.75	9683.20	-1539.47	-232.61	11.00	179.75	1539.47	
10135.57	92.90	179.75	9681.48	-1573.45	-232.46	0.00	0.00	1573.45	Landing Pt. (4-11-3-2WH)
14086.96	92.90	179.75	9481.57	-5519.74	-215.24	0.00	0.00	5519.74	TD-PBHL (4-11-3-2WH)

T M

Azimuths to True North
Magnetic North: 11.12°

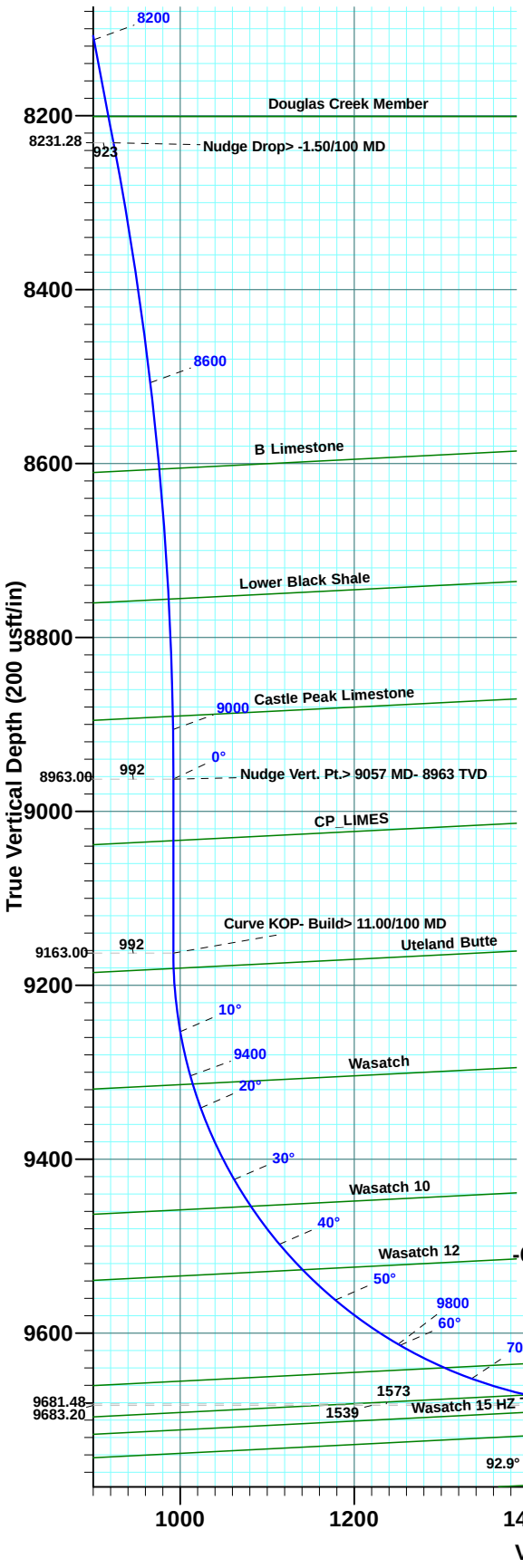
Magnetic Field
Strength: 52197.5snT
Dip Angle: 65.91°
Date: 4/10/2013
Model: IGRF2010

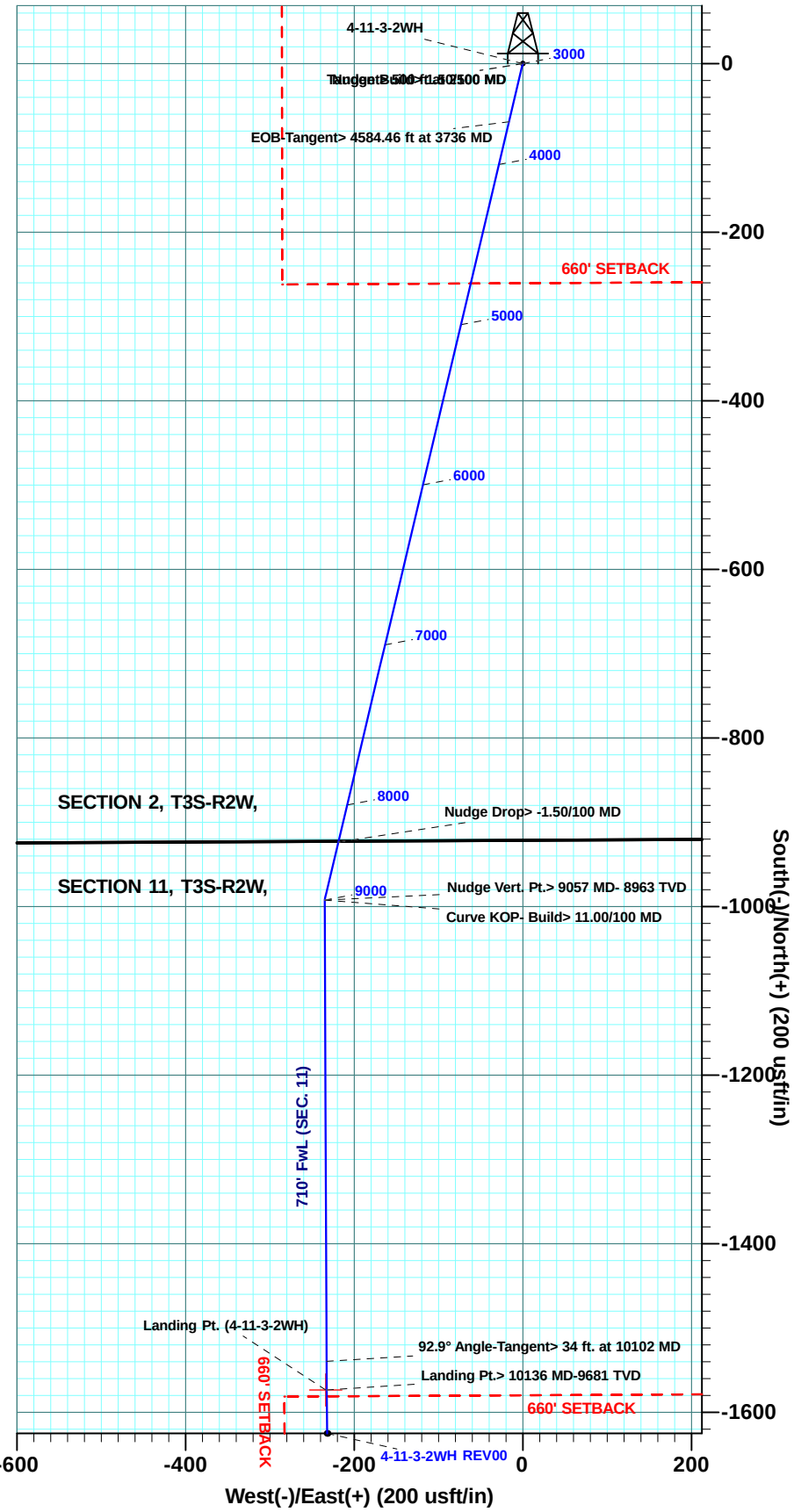
Plan: 4-11-3-2WH REV00 (4-11-3-2WH/4-11-3-2WH)
Created By: Lynn Hulin Date: 12:25, April 10 2013

Checked: _____ Date: _____
Reviewed: _____ Date: _____
Approved: _____ Date: _____

LEAM Drilling Systems, Inc.
FOR
NEWFIELD EXPLORATION ROCKY MOUNTAINS
WELL: 4-11-3-2WH (PLAN: REV00)
DUCHESNE COUNTY, UTAH
DATE: APRIL 10, 2013 -- DAILY PLOT 1"= 200 Ft.

DAILY PLOT - SCALE = 1" = 200 FT.





RECEIVED: Apr. 16, 2013

LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Project DUCHESNE COUNTY, UT (NAD 83),

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

Site CENTRAL BASIN (NAD 83)

Site Position:		**Northing:**	7,254,409.48 usft	**Latitude:**	40° 13' 43.080 N
From:	Lat/Long	**Easting:**	1,986,891.62 usft	**Longitude:**	110° 15' 32.490 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.79 °

Well 4-11-3-2WH, Sec. 2,- Sec. 11, T3S-R2W,

Well Position	**+N/-S**	6,562.78 usft	**Northing:**	7,261,653.52 usft	**Latitude:**	40° 14' 47.460 N
	+E/-W	49,148.89 usft	**Easting:**	2,035,944.72 usft	**Longitude:**	110° 4' 58.610 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	5,446.00 usft	**Ground Level:**	5,464.00 usft

Wellbore 4-11-3-2WH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/10/2013	11.12	65.91	52,197

Design 4-11-3-2WH REV00

Audit Notes:

Version:	REV00	**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	180.00

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,736.27	11.04	193.32	3,731.72	-68.84	-16.30	1.50	1.50	0.00	193.32	
8,320.73	11.04	193.32	8,231.28	-923.41	-218.70	0.00	0.00	0.00	0.00	
9,057.01	0.00	0.00	8,963.00	-992.25	-235.00	1.50	-1.50	0.00	180.00	
9,257.01	0.00	0.00	9,163.00	-992.25	-235.00	0.00	0.00	0.00	0.00	
10,101.55	92.90	179.75	9,683.20	-1,539.47	-232.61	11.00	11.00	0.00	179.75	
10,135.63	92.90	179.75	9,681.48	-1,573.50	-232.46	0.00	0.00	0.00	0.00	Landing Pt. (4-11-3
14,087.02	92.90	179.75	9,481.57	-5,519.80	-215.24	0.00	0.00	0.00	0.00	TD-PBHL (4-11-3-2

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LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Tangent> 500 ft at 2500 MD									
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Nudge Build> 1.50/100 MD									
3,100.00	1.50	193.32	3,099.99	-1.27	-0.30	1.27	1.50	1.50	0.00
3,200.00	3.00	193.32	3,199.91	-5.09	-1.21	5.09	1.50	1.50	0.00
3,300.00	4.50	193.32	3,299.69	-11.46	-2.71	11.46	1.50	1.50	0.00
3,400.00	6.00	193.32	3,399.27	-20.36	-4.82	20.36	1.50	1.50	0.00
3,500.00	7.50	193.32	3,498.57	-31.80	-7.53	31.80	1.50	1.50	0.00
3,600.00	9.00	193.32	3,597.54	-45.76	-10.84	45.76	1.50	1.50	0.00
3,700.00	10.50	193.32	3,696.09	-62.24	-14.74	62.24	1.50	1.50	0.00
3,736.27	11.04	193.32	3,731.72	-68.84	-16.30	68.84	1.50	1.50	0.00
EOB-Tangent> 4584.46 ft at 3736 MD									
3,800.00	11.04	193.32	3,794.27	-80.72	-19.12	80.72	0.00	0.00	0.00
3,900.00	11.04	193.32	3,892.42	-99.36	-23.53	99.36	0.00	0.00	0.00
4,000.00	11.04	193.32	3,990.57	-118.00	-27.95	118.00	0.00	0.00	0.00
4,100.00	11.04	193.32	4,088.71	-136.64	-32.36	136.64	0.00	0.00	0.00
4,162.44	11.04	193.32	4,150.00	-148.28	-35.12	148.28	0.00	0.00	0.00
Green River									
4,200.00	11.04	193.32	4,186.86	-155.28	-36.78	155.28	0.00	0.00	0.00
4,300.00	11.04	193.32	4,285.01	-173.92	-41.19	173.92	0.00	0.00	0.00
4,400.00	11.04	193.32	4,383.16	-192.56	-45.61	192.56	0.00	0.00	0.00
4,500.00	11.04	193.32	4,481.31	-211.20	-50.02	211.20	0.00	0.00	0.00

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LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
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Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.00	11.04	193.32	4,579.45	-229.84	-54.43	229.84	0.00	0.00	0.00
4,700.00	11.04	193.32	4,677.60	-248.48	-58.85	248.48	0.00	0.00	0.00
4,800.00	11.04	193.32	4,775.75	-267.12	-63.26	267.12	0.00	0.00	0.00
4,900.00	11.04	193.32	4,873.90	-285.76	-67.68	285.76	0.00	0.00	0.00
5,000.00	11.04	193.32	4,972.05	-304.40	-72.09	304.40	0.00	0.00	0.00
5,100.00	11.04	193.32	5,070.19	-323.05	-76.51	323.05	0.00	0.00	0.00
5,200.00	11.04	193.32	5,168.34	-341.69	-80.92	341.69	0.00	0.00	0.00
5,300.00	11.04	193.32	5,266.49	-360.33	-85.34	360.33	0.00	0.00	0.00
5,400.00	11.04	193.32	5,364.64	-378.97	-89.75	378.97	0.00	0.00	0.00
5,500.00	11.04	193.32	5,462.79	-397.61	-94.17	397.61	0.00	0.00	0.00
5,600.00	11.04	193.32	5,560.93	-416.25	-98.58	416.25	0.00	0.00	0.00
5,700.00	11.04	193.32	5,659.08	-434.89	-103.00	434.89	0.00	0.00	0.00
5,800.00	11.04	193.32	5,757.23	-453.53	-107.41	453.53	0.00	0.00	0.00
5,900.00	11.04	193.32	5,855.38	-472.17	-111.83	472.17	0.00	0.00	0.00
6,000.00	11.04	193.32	5,953.53	-490.81	-116.24	490.81	0.00	0.00	0.00
6,100.00	11.04	193.32	6,051.67	-509.45	-120.66	509.45	0.00	0.00	0.00
6,159.43	11.04	193.32	6,110.00	-520.53	-123.28	520.53	0.00	0.00	0.00
Trona									
6,200.00	11.04	193.32	6,149.82	-528.09	-125.07	528.09	0.00	0.00	0.00
6,223.62	11.04	193.32	6,173.00	-532.50	-126.11	532.50	0.00	0.00	0.00
Mahogany Bench									
6,300.00	11.04	193.32	6,247.97	-546.73	-129.49	546.73	0.00	0.00	0.00
6,400.00	11.04	193.32	6,346.12	-565.37	-133.90	565.37	0.00	0.00	0.00
6,500.00	11.04	193.32	6,444.27	-584.02	-138.32	584.02	0.00	0.00	0.00
6,600.00	11.04	193.32	6,542.41	-602.66	-142.73	602.66	0.00	0.00	0.00
6,700.00	11.04	193.32	6,640.56	-621.30	-147.15	621.30	0.00	0.00	0.00
6,800.00	11.04	193.32	6,738.71	-639.94	-151.56	639.94	0.00	0.00	0.00
6,900.00	11.04	193.32	6,836.86	-658.58	-155.97	658.58	0.00	0.00	0.00
7,000.00	11.04	193.32	6,935.01	-677.22	-160.39	677.22	0.00	0.00	0.00
7,089.66	11.04	193.32	7,023.00	-693.93	-164.35	693.93	0.00	0.00	0.00
Garden Gulch Member									
7,100.00	11.04	193.32	7,033.15	-695.86	-164.80	695.86	0.00	0.00	0.00
7,200.00	11.04	193.32	7,131.30	-714.50	-169.22	714.50	0.00	0.00	0.00
7,300.00	11.04	193.32	7,229.45	-733.14	-173.63	733.14	0.00	0.00	0.00
7,361.69	11.04	193.32	7,290.00	-744.64	-176.36	744.64	0.00	0.00	0.00
Garden Gulch Member-1									
7,400.00	11.04	193.32	7,327.60	-751.78	-178.05	751.78	0.00	0.00	0.00
7,500.00	11.04	193.32	7,425.75	-770.42	-182.46	770.42	0.00	0.00	0.00
7,535.92	11.04	193.32	7,461.00	-777.12	-184.05	777.12	0.00	0.00	0.00
Garden Gulch Member-2									
7,600.00	11.04	193.32	7,523.89	-789.06	-186.88	789.06	0.00	0.00	0.00
7,700.00	11.04	193.32	7,622.04	-807.70	-191.29	807.70	0.00	0.00	0.00
7,800.00	11.04	193.32	7,720.19	-826.34	-195.71	826.34	0.00	0.00	0.00
7,900.00	11.04	193.32	7,818.34	-844.99	-200.12	844.99	0.00	0.00	0.00
8,000.00	11.04	193.32	7,916.49	-863.63	-204.54	863.63	0.00	0.00	0.00
8,100.00	11.04	193.32	8,014.63	-882.27	-208.95	882.27	0.00	0.00	0.00
8,200.00	11.04	193.32	8,112.78	-900.91	-213.37	900.91	0.00	0.00	0.00
8,289.88	11.04	193.32	8,201.00	-917.66	-217.34	917.66	0.00	0.00	0.00
Douglas Creek Member									
8,300.00	11.04	193.32	8,210.93	-919.55	-217.78	919.55	0.00	0.00	0.00
8,320.73	11.04	193.32	8,231.28	-923.41	-218.70	923.41	0.00	0.00	0.00

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Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Nudge Drop> -1.50/100 MD									
8,400.00	9.86	193.32	8,309.23	-937.40	-222.01	937.40	1.50	-1.50	0.00
8,500.00	8.36	193.32	8,407.97	-952.80	-225.66	952.80	1.50	-1.50	0.00
8,600.00	6.86	193.32	8,507.08	-965.68	-228.71	965.68	1.50	-1.50	0.00
8,700.00	5.36	193.32	8,606.51	-976.03	-231.16	976.03	1.50	-1.50	0.00
8,700.09	5.36	193.32	8,606.61	-976.04	-231.16	976.04	0.00	0.00	0.00
B Limestone									
8,800.00	3.86	193.32	8,706.19	-983.84	-233.01	983.84	1.50	-1.50	0.00
8,849.97	3.11	193.32	8,756.06	-986.79	-233.71	986.79	1.50	-1.50	0.00
Lower Black Shale									
8,900.00	2.36	193.32	8,806.04	-989.11	-234.26	989.11	1.50	-1.50	0.00
8,984.82	1.08	193.32	8,890.82	-991.59	-234.84	991.59	1.50	-1.50	0.00
Castle Peak Limestone									
9,000.00	0.86	193.32	8,906.00	-991.84	-234.90	991.84	1.50	-1.50	0.00
9,057.01	0.00	0.00	8,963.00	-992.25	-235.00	992.25	1.50	-1.50	292.39
Nudge Vert. Pt.> 9057 MD- 8963 TVD									
9,100.00	0.00	0.00	9,005.99	-992.25	-235.00	992.25	0.00	0.00	0.00
9,127.79	0.00	0.00	9,033.79	-992.25	-235.00	992.25	0.00	0.00	0.00
CP_LIMES									
9,200.00	0.00	0.00	9,105.99	-992.25	-235.00	992.25	0.00	0.00	0.00
9,257.01	0.00	0.00	9,163.00	-992.25	-235.00	992.25	0.00	0.00	0.00
Curve KOP- Build> 11.00/100 MD									
9,274.78	1.96	179.75	9,180.77	-992.55	-235.00	992.55	11.00	11.00	0.00
Uteland Butte									
9,300.00	4.73	179.75	9,205.95	-994.02	-234.99	994.02	11.00	11.00	0.00
9,350.00	10.23	179.75	9,255.50	-1,000.53	-234.96	1,000.53	11.00	11.00	0.00
9,400.00	15.73	179.75	9,304.21	-1,011.76	-234.91	1,011.76	11.00	11.00	0.00
9,409.85	16.81	179.75	9,313.66	-1,014.51	-234.90	1,014.51	11.00	11.00	0.00
Wasatch									
9,450.00	21.23	179.75	9,351.61	-1,027.60	-234.85	1,027.60	11.00	11.00	0.00
9,500.00	26.73	179.75	9,397.28	-1,047.91	-234.76	1,047.91	11.00	11.00	0.00
9,550.00	32.23	179.75	9,440.79	-1,072.51	-234.65	1,072.51	11.00	11.00	0.00
9,566.11	34.00	179.75	9,454.28	-1,081.30	-234.61	1,081.30	11.00	11.00	0.00
Wasatch 10									
9,600.00	37.73	179.75	9,481.74	-1,101.16	-234.52	1,101.16	11.00	11.00	0.00
9,650.00	43.23	179.75	9,519.76	-1,133.60	-234.38	1,133.60	11.00	11.00	0.00
9,660.40	44.37	179.75	9,527.26	-1,140.80	-234.35	1,140.80	11.00	11.00	0.00
Wasatch 12									
9,700.00	48.73	179.75	9,554.49	-1,169.54	-234.23	1,169.54	11.00	11.00	0.00
9,750.00	54.23	179.75	9,585.62	-1,208.65	-234.06	1,208.65	11.00	11.00	0.00
9,800.00	59.73	179.75	9,612.85	-1,250.56	-233.87	1,250.56	11.00	11.00	0.00
9,850.00	65.23	179.75	9,635.95	-1,294.88	-233.68	1,294.88	11.00	11.00	0.00
9,859.88	66.32	179.75	9,640.00	-1,303.89	-233.64	1,303.89	11.00	11.00	0.00
Wasatch 15									
9,900.00	70.73	179.75	9,654.69	-1,341.21	-233.48	1,341.21	11.00	11.00	0.00
9,950.00	76.23	179.75	9,668.90	-1,389.13	-233.27	1,389.13	11.00	11.00	0.00
9,960.01	77.33	179.75	9,671.19	-1,398.88	-233.23	1,398.88	11.00	11.00	0.00
Wasatch 15 Limestone									
10,000.00	81.73	179.75	9,678.45	-1,438.19	-233.05	1,438.19	11.00	11.00	0.00
10,050.00	87.23	179.75	9,683.26	-1,487.94	-232.84	1,487.94	11.00	11.00	0.00

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Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,101.55	92.90	179.75	9,683.20	-1,539.47	-232.61	1,539.47	11.00	11.00	0.00
92.9° Angle-Tangent> 34 ft. at 10102 MD									
10,135.63	92.90	179.75	9,681.48	-1,573.50	-232.46	1,573.50	0.00	0.00	0.00
Landing Pt.> 10136 MD-9681 TVD									
10,200.00	92.90	179.75	9,678.22	-1,637.79	-232.18	1,637.79	0.00	0.00	0.00
10,300.00	92.90	179.75	9,673.16	-1,737.66	-231.75	1,737.66	0.00	0.00	0.00
10,400.00	92.90	179.75	9,668.10	-1,837.53	-231.31	1,837.53	0.00	0.00	0.00
10,500.00	92.90	179.75	9,663.05	-1,937.40	-230.88	1,937.40	0.00	0.00	0.00
10,600.00	92.90	179.75	9,657.99	-2,037.27	-230.44	2,037.27	0.00	0.00	0.00
10,700.00	92.90	179.75	9,652.93	-2,137.15	-230.00	2,137.15	0.00	0.00	0.00
10,800.00	92.90	179.75	9,647.87	-2,237.02	-229.57	2,237.02	0.00	0.00	0.00
10,900.00	92.90	179.75	9,642.81	-2,336.89	-229.13	2,336.89	0.00	0.00	0.00
11,000.00	92.90	179.75	9,637.75	-2,436.76	-228.70	2,436.76	0.00	0.00	0.00
11,100.00	92.90	179.75	9,632.69	-2,536.63	-228.26	2,536.63	0.00	0.00	0.00
11,200.00	92.90	179.75	9,627.63	-2,636.50	-227.83	2,636.50	0.00	0.00	0.00
11,300.00	92.90	179.75	9,622.57	-2,736.37	-227.39	2,736.37	0.00	0.00	0.00
11,400.00	92.90	179.75	9,617.51	-2,836.24	-226.95	2,836.24	0.00	0.00	0.00
11,500.00	92.90	179.75	9,612.45	-2,936.11	-226.52	2,936.11	0.00	0.00	0.00
11,600.00	92.90	179.75	9,607.39	-3,035.98	-226.08	3,035.98	0.00	0.00	0.00
11,700.00	92.90	179.75	9,602.33	-3,135.86	-225.65	3,135.86	0.00	0.00	0.00
11,800.00	92.90	179.75	9,597.27	-3,235.73	-225.21	3,235.73	0.00	0.00	0.00
11,900.00	92.90	179.75	9,592.22	-3,335.60	-224.78	3,335.60	0.00	0.00	0.00
12,000.00	92.90	179.75	9,587.16	-3,435.47	-224.34	3,435.47	0.00	0.00	0.00
12,100.00	92.90	179.75	9,582.10	-3,535.34	-223.90	3,535.34	0.00	0.00	0.00
12,200.00	92.90	179.75	9,577.04	-3,635.21	-223.47	3,635.21	0.00	0.00	0.00
12,300.00	92.90	179.75	9,571.98	-3,735.08	-223.03	3,735.08	0.00	0.00	0.00
12,400.00	92.90	179.75	9,566.92	-3,834.95	-222.60	3,834.95	0.00	0.00	0.00
12,500.00	92.90	179.75	9,561.86	-3,934.82	-222.16	3,934.82	0.00	0.00	0.00
12,600.00	92.90	179.75	9,556.80	-4,034.69	-221.72	4,034.69	0.00	0.00	0.00
12,700.00	92.90	179.75	9,551.74	-4,134.56	-221.29	4,134.56	0.00	0.00	0.00
12,800.00	92.90	179.75	9,546.68	-4,234.44	-220.85	4,234.44	0.00	0.00	0.00
12,900.00	92.90	179.75	9,541.62	-4,334.31	-220.42	4,334.31	0.00	0.00	0.00
13,000.00	92.90	179.75	9,536.56	-4,434.18	-219.98	4,434.18	0.00	0.00	0.00
13,100.00	92.90	179.75	9,531.50	-4,534.05	-219.55	4,534.05	0.00	0.00	0.00
13,200.00	92.90	179.75	9,526.44	-4,633.92	-219.11	4,633.92	0.00	0.00	0.00
13,300.00	92.90	179.75	9,521.38	-4,733.79	-218.67	4,733.79	0.00	0.00	0.00
13,400.00	92.90	179.75	9,516.33	-4,833.66	-218.24	4,833.66	0.00	0.00	0.00
13,500.00	92.90	179.75	9,511.27	-4,933.53	-217.80	4,933.53	0.00	0.00	0.00
13,600.00	92.90	179.75	9,506.21	-5,033.40	-217.37	5,033.40	0.00	0.00	0.00
13,700.00	92.90	179.75	9,501.15	-5,133.27	-216.93	5,133.27	0.00	0.00	0.00
13,800.00	92.90	179.75	9,496.09	-5,233.15	-216.50	5,233.15	0.00	0.00	0.00
13,900.00	92.90	179.75	9,491.03	-5,333.02	-216.06	5,333.02	0.00	0.00	0.00
14,000.00	92.90	179.75	9,485.97	-5,432.89	-215.62	5,432.89	0.00	0.00	0.00
14,087.02	92.90	179.75	9,481.57	-5,519.80	-215.24	5,519.80	0.00	0.00	0.00
TD-PBHL> 14087 MD- 9482 TVD									

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Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Sec. 11, T3S-R2W,	0.00	0.00	82.00	-897.14	4,363.14	7,260,825.61	2,040,321.53	40° 14' 38.590 N	110° 4' 2.340 W
- plan misses target center by 4454.42usft at 82.00usft MD (82.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			82.00	0.00	0.00	7,260,825.61	2,040,321.53		
Point 2			82.00	-5,275.85	20.62	7,255,550.75	2,040,425.72		
Point 3			82.00	-5,279.71	-1,320.32	7,255,525.65	2,039,085.01		
Point 4			82.00	-5,290.69	-5,277.20	7,255,451.98	2,035,128.80		
Point 5			82.00	-2,658.85	-5,290.82	7,258,083.28	2,035,073.49		
Point 6			82.00	-29.03	-5,309.07	7,260,712.48	2,035,013.58		
Point 7			82.00	-15.65	-2,647.94	7,260,768.01	2,037,674.17		
Point 8			82.00	0.00	0.00	7,260,825.61	2,040,321.53		
Sec. 11, T3S-R2W, 6(	0.00	0.00	82.00	-1,559.00	3,704.15	7,260,153.39	2,039,673.11	40° 14' 32.050 N	110° 4' 10.840 W
- plan misses target center by 4018.86usft at 82.00usft MD (82.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			82.00	0.00	0.00	7,260,153.39	2,039,673.11		
Point 2			82.00	-3,955.37	16.14	7,256,198.77	2,039,751.91		
Point 3			82.00	-3,956.81	-664.01	7,256,186.56	2,039,071.86		
Point 4			82.00	-3,965.51	-3,963.14	7,256,125.59	2,035,773.29		
Point 5			82.00	-1,991.37	-3,973.21	7,258,099.33	2,035,731.94		
Point 6			82.00	-22.29	-3,987.14	7,260,067.94	2,035,686.82		
Point 7			82.00	-12.23	-1,986.59	7,260,109.69	2,037,686.96		
Point 8			82.00	0.00	0.00	7,260,153.39	2,039,673.11		
Sec. 2, T3S-R2W, 66(	0.00	0.00	82.00	-239.52	3,700.86	7,261,472.65	2,039,648.91	40° 14' 45.090 N	110° 4' 10.880 W
- plan misses target center by 3708.60usft at 82.00usft MD (82.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			82.00	0.00	0.00	7,261,472.65	2,039,648.91		
Point 2			82.00	-12.23	-1,988.03	7,261,428.93	2,037,661.32		
Point 3			82.00	-22.29	-3,986.15	7,261,387.22	2,035,663.61		
Point 4			82.00	1,946.82	-3,987.68	7,263,356.05	2,035,630.88		
Point 5			82.00	3,260.23	-3,988.70	7,264,669.28	2,035,609.06		
Point 6			82.00	3,956.40	-3,989.29	7,265,365.36	2,035,597.44		
Point 7			82.00	3,956.32	-2,003.87	7,265,396.73	2,037,582.61		
Point 8			82.00	3,966.50	-22.35	7,265,438.30	2,039,563.72		
Point 9			82.00	0.00	0.00	7,261,472.65	2,039,648.91		
Sec. 2, T3S-R2W,	0.00	0.00	82.00	-897.14	4,363.14	7,260,825.61	2,040,321.53	40° 14' 38.590 N	110° 4' 2.340 W
- plan misses target center by 4454.42usft at 82.00usft MD (82.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			82.00	0.00	0.00	7,260,825.61	2,040,321.53		
Point 2			82.00	-15.65	-2,647.94	7,260,768.01	2,037,674.17		
Point 3			82.00	-29.03	-5,309.07	7,260,712.48	2,035,013.58		
Point 4			82.00	2,602.86	-5,311.06	7,263,344.01	2,034,969.90		
Point 5			82.00	3,915.26	-5,312.04	7,264,656.23	2,034,948.13		
Point 6			82.00	5,272.18	-5,313.11	7,266,012.96	2,034,925.56		
Point 7			82.00	5,272.37	-2,668.79	7,266,055.04	2,037,569.54		
Point 8			82.00	5,285.98	-29.94	7,266,110.45	2,040,207.85		
Point 9			82.00	0.00	0.00	7,260,825.61	2,040,321.53		
TD-PBHL (4-11-3-2W	0.00	0.00	9,482.00	-5,519.74	-216.78	7,256,131.04	2,035,815.41	40° 13' 52.910 N	110° 5' 1.405 W
- plan misses target center by 1.59usft at 14086.94usft MD (9481.57 TVD, -5519.71 N, -215.25 E)									
- Point									
TD - 660' FSL- 660' F\	0.00	0.00	9,482.00	-5,519.74	-266.78	7,256,130.24	2,035,765.41	40° 13' 52.910 N	110° 5' 2.050 W
- plan misses target center by 51.54usft at 14086.72usft MD (9481.58 TVD, -5519.49 N, -215.25 E)									
- Point									
Landing Pt. (4-11-3-2\	0.00	0.00	9,680.00	-1,573.45	-233.80	7,260,076.56	2,035,735.88	40° 14' 31.910 N	110° 5' 1.625 W

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Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

- plan misses target center by 1.99usft at 10135.64usft MD (9681.48 TVD, -1573.52 N, -232.46 E)
- Point

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,162.44	4,150.00	Green River		0.00	179.75
6,159.43	6,110.00	Trona		0.00	179.75
6,223.62	6,173.00	Mahogany Bench		0.00	179.75
7,089.66	7,023.00	Garden Gulch Member		0.00	179.75
7,361.69	7,290.00	Garden Gulch Member-1		0.00	179.75
7,535.92	7,461.00	Garden Gulch Member-2		0.00	179.75
8,289.88	8,201.00	Douglas Creek Member		0.00	179.75
8,700.09	8,606.61	B Limestone		-2.90	179.75
8,849.97	8,756.06	Lower Black Shale		-2.90	179.75
8,984.82	8,890.82	Castle Peak Limestone		-2.90	179.75
9,127.79	9,033.79	CP_LIMES		-2.90	179.75
9,274.78	9,180.77	Uteland Butte		-2.90	179.75
9,409.85	9,313.66	Wasatch		-2.90	179.75
9,566.11	9,454.28	Wasatch 10		-2.90	179.75
9,660.40	9,527.26	Wasatch 12		-2.90	179.75
9,859.88	9,640.00	Wasatch 15		-2.90	179.75
9,960.01	9,671.19	Wasatch 15 Limestone		-2.90	179.75

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2,500.00	2,500.00	0.00	0.00	Tangent> 500 ft at 2500 MD
3,000.00	3,000.00	0.00	0.00	Nudge Build> 1.50/100 MD
3,736.27	3,731.72	-68.84	-16.30	EOB-Tangent> 4584.46 ft at 3736 MD
8,320.73	8,231.28	-923.41	-218.70	Nudge Drop> -1.50/100 MD
9,057.01	8,963.00	-992.25	-235.00	Nudge Vert. Pt.> 9057 MD- 8963 TVD
9,257.01	9,163.00	-992.25	-235.00	Curve KOP- Build> 11.00/100 MD
10,101.55	9,683.20	-1,539.47	-232.61	92.9° Angle-Tangent> 34 ft. at 10102 MD
10,135.63	9,681.48	-1,573.50	-232.46	Landing Pt.> 10136 MD-9681 TVD
14,087.02	9,481.57	-5,519.80	-215.24	TD-PBHL> 14087 MD- 9482 TVD

RECEIVED: Apr. 16, 2013

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-51676

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
State 4-11-3-2WH

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
43013519230000

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:
0913 FSL 0945 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSW Section: 02 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: 8/1/2013	☐ 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 request to change the casing design on the subject well. An updated drilling plan is attached. No changes were made to the directional plan.

Approved by the Utah Division of Oil, Gas and Mining

Date: August 07, 2013

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Don Hamilton	435 719-2018	Permitting Agent

SIGNATURE	DATE
N/A	7/26/2013

RECEIVED: Jul. 26, 2013

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

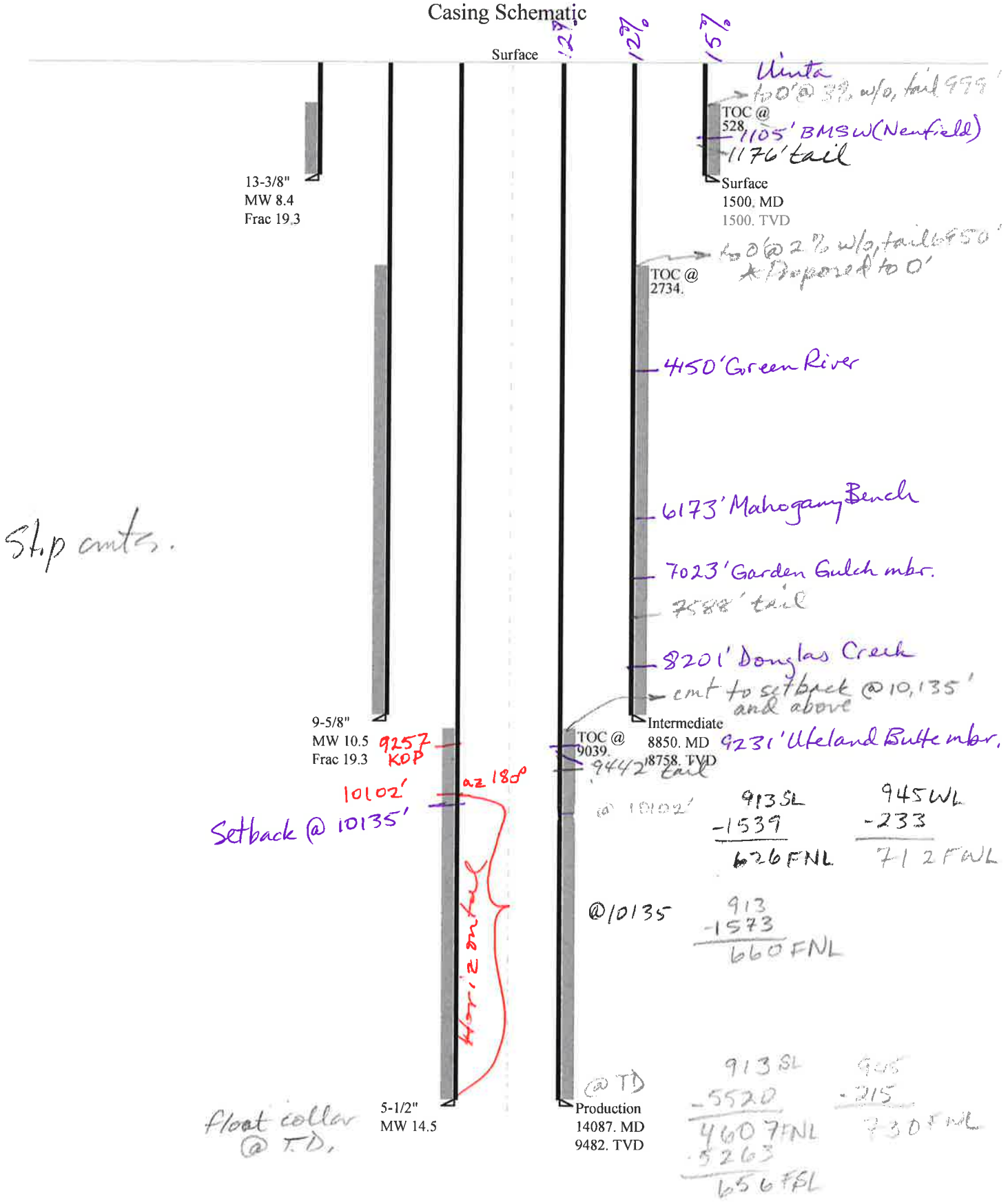
Sundry Conditions of Approval Well Number 43013519230000

H Sadik-Macdonald for Dustin Doucet

RECEIVED: Aug. 07, 2013

43013519230000 State 4-11-3-2WHrev

Casing Schematic



Well name:	**43013519230000 State 4-11-3-2WHrev**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Surface
Project ID:	43-013-51923
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 8.400 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 1,320 psi

Internal gradient: 0.120 psi/ft

Calculated BHP 1,500 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)

8 Round LTC: 1.70 (J)

Buttress: 1.60 (J)

Premium: 1.50 (J)

Body yield: 1.50 (B)

Tension is based on air weight.

Neutral point: 1,314 ft

Environment:

H2S considered? No

Surface temperature: 74 °F

Bottom hole temperature: 95 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 100 ft

Cement top: 528 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 8,658 ft

Next mud weight: 10.500 ppg

Next setting BHP: 4,722 psi

Fracture mud wt: 19.250 ppg

Fracture depth: 1,500 ft

Injection pressure: 1,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	1500	13.375	54.50	J-55	ST&C	1500	1500	12.49	18612

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	655	1130	1.726	1500	2730	1.82	81.8	514	6.29 J

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

Date: August 6,2013
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1500 ft, a mud weight of 8.4 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.

Well name:	**43013519230000 State 4-11-3-2WHrev**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Intermediate
Project ID:	43-013-51923
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight:	10.500 ppg
Internal fluid density:	4.550 ppg

Burst

Max anticipated surface pressure:	5,056 psi
Internal gradient:	0.220 psi/ft
Calculated BHP	6,983 psi
Annular backup:	3.00 ppg

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: 7,463 ft

Environment:

H2S considered?	No
Surface temperature:	74 °F
Bottom hole temperature:	197 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	1,000 ft
Cement top:	2,734 ft

Directional Info - Build & Hold

Kick-off point	2500 ft
Departure at shoe:	992 ft
Maximum dogleg:	1.5 °/100ft
Inclination at shoe:	3.1 °

Re subsequent strings:

Next setting depth:	9,482 ft
Next mud weight:	14.500 ppg
Next setting BHP:	7,142 psi
Fracture mud wt:	19.250 ppg
Fracture depth:	8,758 ft
Injection pressure:	8,758 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	8850	9.625	40.00	N-80	Buttress	8758	8850	8.75	120500

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	2707	3056	1.129	5618	5750	1.02	350.3	916.3	2.62 B

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: August 6,2013
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 8758 ft, a mud weight of 10.5 ppg An internal gradient of .236 psi/ft was used for collapse from TD
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.

Well name:	**43013519230000 State 4-11-3-2WHrev**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Production
Project ID:	43-013-51923
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 14.500 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 5,056 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 7,142 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: 7,474 ft

Environment:

H2S considered?	No
Surface temperature:	74 °F
Bottom hole temperature:	207 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	1,000 ft
Cement top:	9,039 ft

Directional Info - Build & Hold

Kick-off point	2500 ft
Departure at shoe:	5524 ft
Maximum dogleg:	11 °/100ft
Inclination at shoe:	92.9 °

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	14087	5.5	20.00	P-110	Buttress	9482	14087	4.653	116869

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	7142	11100	1.554	7186	12360	1.72	189.6	641.1	3.38 B

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: August 6,2013
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 9482 ft, a mud weight of 14.5 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.

Newfield Production Company
4-11-3-2WH
Surface Hole Location: 913' FNL, 945' FWL, Section 2, T3S, R2W
Bottom Hole Location: 660' FSL, 660' FWL, Section 11, T3S, R2W
Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta	surface
Green River	4,150'
Garden Gulch member	7,023'
Uteland Butte member	9,231'
Wasatch	9,365'
Lateral TD	9,481' TVD / 14,087' MD

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

Base of moderately saline	1,105'		(water)
Green River	7,023'	- 9,365'	(oil)
Wasatch	9,365'	- 9,481'	(oil)

3. Pressure Control

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

4. Casing

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Conductor	0'	60'	--	--	Weld	--	--	--	--	--	--
20									--	--	--
Surface	0'	1,500'	54.5	J-55	STC	8.33	8.4	14	2,730	1,130	514,000
13 3/8									2.89	2.63	6.29
Intermediate	0'	8,756'	40	N-80	BTC	10	10.5	15	5,750	3,090	916,000
9 5/8		8,850'							1.14	1.29	2.62
Production	0'	9,481'	20	P-110	BTC	14	14.5	16	12,360	11,080	641,000
5 1/2		14,087'							2.26	1.93	2.28

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Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)
Intermediate casing MASP = (reservoir pressure) - (gas gradient)
Production casing MASP = (reservoir pressure) - (gas gradient)
Intermediate collapse calculations assume 50% evacuated
Maximum intermediate csg collapse load assumes loss of mud to a fluid level of 4,378'
Intermediate csg run from surface to 8,756' and will not experience full evacuation
Production csg run from surface to TD will isolate intermediate csg from production loads
Production csg withstands burst and collapse loads for anticipated production conditions
Surface & production collapse calcs assume fully evacuated casing w/ a gas gradient
All tension calculations assume air weight of casing
Gas gradient = 0.15 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	24	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	66 / 57	15%	15.8	1.17
Surface Lead	17 1/2	1,000'	Varicem (Type III) + .125 lbs/sk Cello Flakes	799 / 240	15%	11.0	3.33
Surface Tail	17 1/2	500'	Varicem (Type III) + .125 lbs/sk Cello Flakes	399 / 210	15%	13.0	1.9
Intermediate Lead	12 1/4	7,023'	HLC Premium - 35% Poz/65% Glass G + 10% bentonite	2530 / 717	15%	11.0	3.53
Intermediate Tail	12 1/4	1,827'	50/50 Poz/Class G + 1% bentonite	658 / 510	15%	14.0	1.29
Production Lead	8 3/4	500'	HLC Premium - 35% Poz/65% Glass G + 10% bentonite	145 / 41	15%	11.0	3.53
Production Tail	8 3/4	5,737'	50/50 Poz/Class G + 1% bentonite	1667 / 1292	15%	14.0	1.29

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

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

The 5.5" production string will be run from surface to TD and cemented to setback. The cement slurries will be adjusted for hole conditions and blend test results. The lateral will be cemented past the setback.

The wellbore will cross the heal setback @ 10,135' MD
The float collar will be @ 14,087' MD
This well will not be perforated or produced outside the legal setbacks.

6. Type and Characteristics of Proposed Circulating Medium

Interval	Description
Surface - 1,500'	An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.

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1,500' - 8,850'	A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.
	Anticipated maximum mud weight is 10.5 ppg.
8,850' - TD	One of two possible mud systems may be used depending on offset well performance on ongoing wells: A water based mud: Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite. -or- A diesel based OBM system: with an oil to water ratio between 70/30 and 80/20. Emulsifiers and wetting agents will be used to maintain adequate mud properties. A water phase salinity will be maintained in the range of 25% using CaCl (Calcium Chloride). All cuttings will be dried and centrifuged so that they can be easily transferred to a lined cuttings pit with little to no free fluid on them. The cuttings will be mixed with fly ash prior to transportation to a location on Newfield owned surface. Once on Newfield owned surface, the cuttings will be treated with the previously approved FIRMUS process and used as a construction material on future location and/or roads on Newfield owned surface. The cuttings may also be transported to a state approved disposal facility.
	Anticipated maximum mud weight is 14.5 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run from KOP 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 KOP to the cement top behind the production casing and or intermediate casing.

Cores: As deemed necessary.

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

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8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.73 psi/ft gradient.

9,481' x 0.73 psi/ft = 6902.2 psi

No abnormal temperature is expected. No H_2S is expected.

9. Other Aspects

The lateral of this well will target the Wasatch formation
After setting 9-5/8" casing, an 8-3/4" vertical hole will be drilled to a kick off point of 9,257'
Directional tools will then be used to build to 92.90 degrees inclination.
The lateral will be drilled to the bottomhole location shown on the plat. A 5-1/2" longstring will be run from surface to TD and cemented in place.

Newfield requests the following variances from Onshore Order #2:

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

If oil based mud (OBM) is used and If Newfield owns the surface rights on the same drilling site at a location where construction is desired, the cuttings may be used for construction by a Firmus® process at that location. Otherwise, after the cuttings have been made safe for transport as described in paragraph 6, they will be transported to another location on which Newfield owns surface rights and there mixed, as part of a Firmus® process, with at least one additional chemical that will convert them to a temporarily uncured cementitious mixture that will be placed and shaped into a temporary desired final structure that will spontaneously harden within seven days after placement to form the desired structure. Samples of the temporary desired final structure may be taken for testing as described below (after the samples have hardened), or samples of the starting pretreated cuttings and mud will be taken during the construction and later mixed in a laboratory, molded, and cured to simulate the final structure as well as reasonably possible. Either these laboratory-made simulations of the final structure or samples of the temporary mixture itself after hardening, will be mechanically tested directly to determine their unconfined compressive strength and their hydraulic conductivity. Leachates of the mechanically tested structures themselves or of finer particles made by crushing and size-grading of the mechanically tested structures themselves to a specified particle size range will be analyzed, according to specified methods, for their contents of arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, zinc, benzene, total petroleum hydrocarbons (TPH), and chlorides, and the pH of these leachates will also be measured. The results of all these tests will be reported by Newfield to UDOGM at intervals as requested, along with the latitude and longitude (or other comparable location data) of the site of the useful constructions built.

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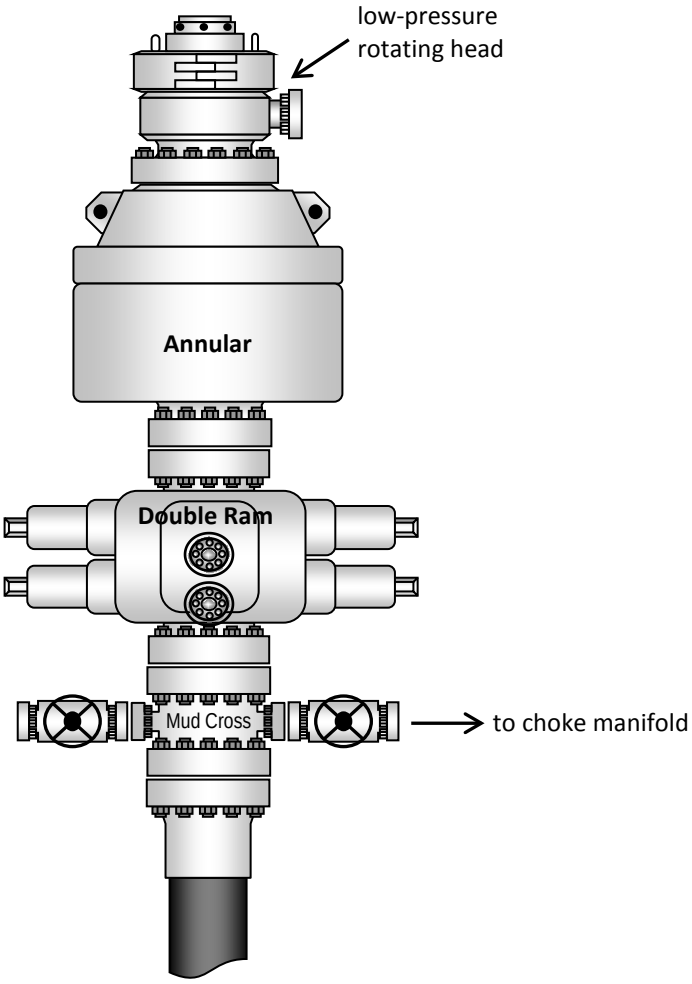
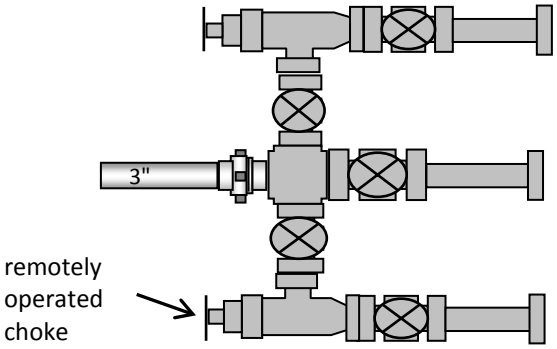
Typical 5M BOP stack configuration



Typical 5M choke manifold configuration



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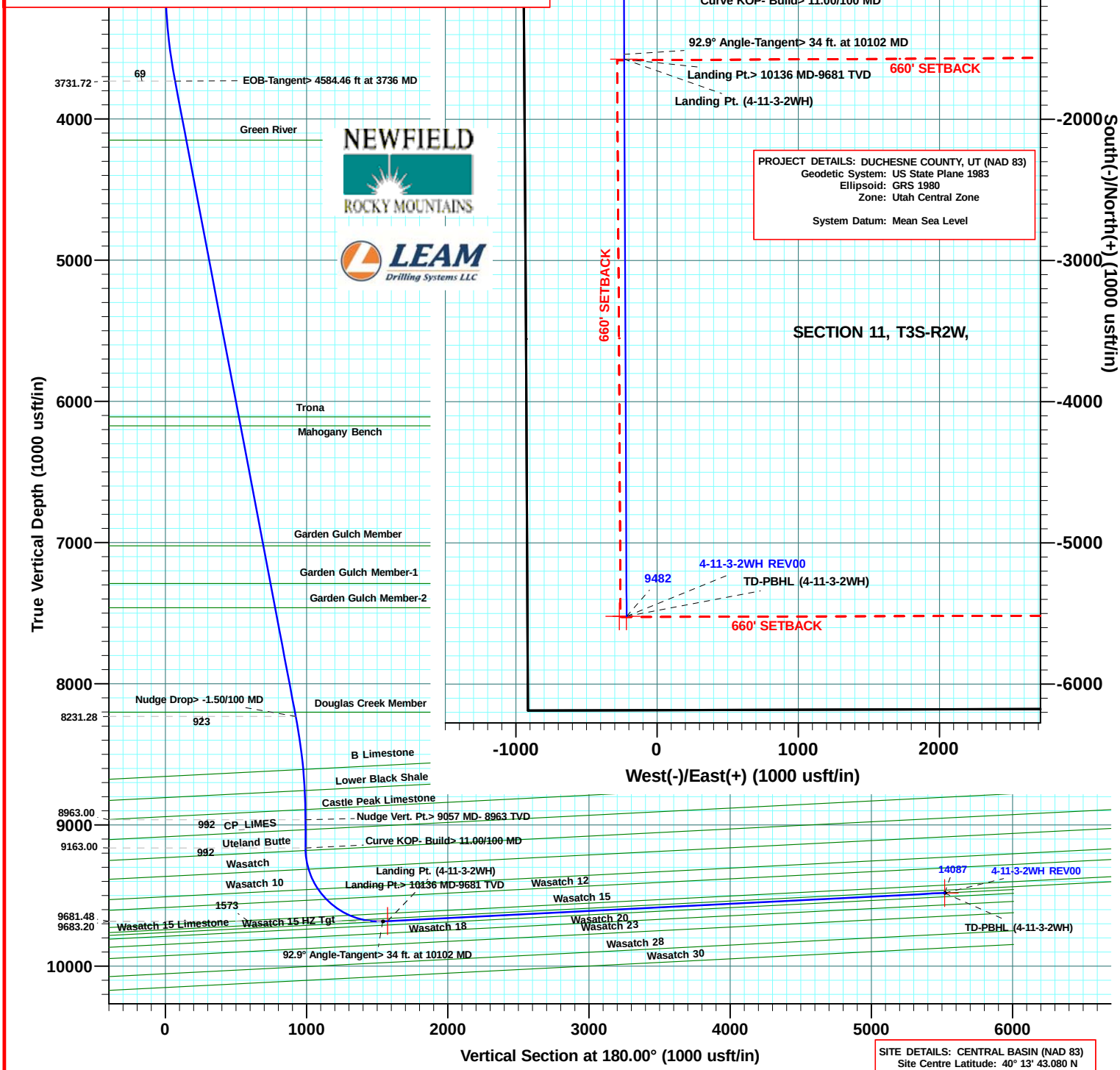
LEAM Drilling Systems, Inc.
FOR
NEWFIELD EXPLORATION ROCKY MOUNTAINS
WELL: 4-11-3-2WH (PLAN: REV00)
DUCHESNE COUNTY, UTAH
DATE: APRIL 10, 2013 -- WELL PLAN PLOT

WELL DETAILS: 4-11-3-2WH
Ground Level: 5464.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	7261653.51	2035944.72	40° 14' 47.460 N	110° 4' 58.610 W	



SITE DETAILS: CENTRAL BASIN (NAD 83)
Site Centre Latitude: 40° 13' 43.080 N
Longitude: 110° 15' 32.490 W

Positional Uncertainity: 0.00
Convergence: 0.79
Local North: True

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	
3736.27	11.04	193.32	3731.72	-68.84	-16.30	1.50	193.32	68.84	
8320.73	11.04	193.32	8231.28	-923.41	-218.70	0.00	0.00	923.41	
9057.01	0.00	0.00	8963.00	-992.25	-235.00	1.50	180.00	992.25	
9257.01	0.00	0.00	9163.00	-992.25	-235.00	0.00	0.00	992.25	
10101.55	92.90	179.75	9683.20	-1539.47	-232.61	11.00	179.75	1539.47	
10135.57	92.90	179.75	9681.48	-1573.45	-232.46	0.00	0.00	1573.45	Landing Pt. (4-11-3-2WH)
14086.96	92.90	179.75	9481.57	-5519.74	-215.24	0.00	0.00	5519.74	TD-PBHL (4-11-3-2WH)

T M

Azimuths to True North
Magnetic North: 11.12°

Magnetic Field
Strength: 52197.5snT
Dip Angle: 65.91°
Date: 4/10/2013
Model: IGRF2010

Plan: 4-11-3-2WH REV00 (4-11-3-2WH/4-11-3-2WH)
Created By: Lynn Hulin Date: 12:25, April 10 2013

Checked: _____ Date: _____
Reviewed: _____ Date: _____
Approved: _____ Date: _____

LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Project DUCHESNE COUNTY, UT (NAD 83),

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

Site CENTRAL BASIN (NAD 83)

Site Position:		**Northing:**	7,254,409.48 usft	**Latitude:**	40° 13' 43.080 N
From:	Lat/Long	**Easting:**	1,986,891.62 usft	**Longitude:**	110° 15' 32.490 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.79 °

Well 4-11-3-2WH, Sec. 2,- Sec. 11, T3S-R2W,

Well Position	**+N/-S**	6,562.78 usft	**Northing:**	7,261,653.52 usft	**Latitude:**	40° 14' 47.460 N
	+E/-W	49,148.89 usft	**Easting:**	2,035,944.72 usft	**Longitude:**	110° 4' 58.610 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	5,446.00 usft	**Ground Level:**	5,464.00 usft

Wellbore 4-11-3-2WH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/10/2013	11.12	65.91	52,197

Design 4-11-3-2WH REV00

Audit Notes:

Version:	REV00	**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	180.00

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,736.27	11.04	193.32	3,731.72	-68.84	-16.30	1.50	1.50	0.00	193.32	
8,320.73	11.04	193.32	8,231.28	-923.41	-218.70	0.00	0.00	0.00	0.00	
9,057.01	0.00	0.00	8,963.00	-992.25	-235.00	1.50	-1.50	0.00	180.00	
9,257.01	0.00	0.00	9,163.00	-992.25	-235.00	0.00	0.00	0.00	0.00	
10,101.55	92.90	179.75	9,683.20	-1,539.47	-232.61	11.00	11.00	0.00	179.75	
10,135.63	92.90	179.75	9,681.48	-1,573.50	-232.46	0.00	0.00	0.00	0.00	Landing Pt. (4-11-3
14,087.02	92.90	179.75	9,481.57	-5,519.80	-215.24	0.00	0.00	0.00	0.00	TD-PBHL (4-11-3-2

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LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

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Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Tangent> 500 ft at 2500 MD									
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Nudge Build> 1.50/100 MD									
3,100.00	1.50	193.32	3,099.99	-1.27	-0.30	1.27	1.50	1.50	0.00
3,200.00	3.00	193.32	3,199.91	-5.09	-1.21	5.09	1.50	1.50	0.00
3,300.00	4.50	193.32	3,299.69	-11.46	-2.71	11.46	1.50	1.50	0.00
3,400.00	6.00	193.32	3,399.27	-20.36	-4.82	20.36	1.50	1.50	0.00
3,500.00	7.50	193.32	3,498.57	-31.80	-7.53	31.80	1.50	1.50	0.00
3,600.00	9.00	193.32	3,597.54	-45.76	-10.84	45.76	1.50	1.50	0.00
3,700.00	10.50	193.32	3,696.09	-62.24	-14.74	62.24	1.50	1.50	0.00
3,736.27	11.04	193.32	3,731.72	-68.84	-16.30	68.84	1.50	1.50	0.00
EOB-Tangent> 4584.46 ft at 3736 MD									
3,800.00	11.04	193.32	3,794.27	-80.72	-19.12	80.72	0.00	0.00	0.00
3,900.00	11.04	193.32	3,892.42	-99.36	-23.53	99.36	0.00	0.00	0.00
4,000.00	11.04	193.32	3,990.57	-118.00	-27.95	118.00	0.00	0.00	0.00
4,100.00	11.04	193.32	4,088.71	-136.64	-32.36	136.64	0.00	0.00	0.00
4,162.44	11.04	193.32	4,150.00	-148.28	-35.12	148.28	0.00	0.00	0.00
Green River									
4,200.00	11.04	193.32	4,186.86	-155.28	-36.78	155.28	0.00	0.00	0.00
4,300.00	11.04	193.32	4,285.01	-173.92	-41.19	173.92	0.00	0.00	0.00
4,400.00	11.04	193.32	4,383.16	-192.56	-45.61	192.56	0.00	0.00	0.00
4,500.00	11.04	193.32	4,481.31	-211.20	-50.02	211.20	0.00	0.00	0.00

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Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.00	11.04	193.32	4,579.45	-229.84	-54.43	229.84	0.00	0.00	0.00
4,700.00	11.04	193.32	4,677.60	-248.48	-58.85	248.48	0.00	0.00	0.00
4,800.00	11.04	193.32	4,775.75	-267.12	-63.26	267.12	0.00	0.00	0.00
4,900.00	11.04	193.32	4,873.90	-285.76	-67.68	285.76	0.00	0.00	0.00
5,000.00	11.04	193.32	4,972.05	-304.40	-72.09	304.40	0.00	0.00	0.00
5,100.00	11.04	193.32	5,070.19	-323.05	-76.51	323.05	0.00	0.00	0.00
5,200.00	11.04	193.32	5,168.34	-341.69	-80.92	341.69	0.00	0.00	0.00
5,300.00	11.04	193.32	5,266.49	-360.33	-85.34	360.33	0.00	0.00	0.00
5,400.00	11.04	193.32	5,364.64	-378.97	-89.75	378.97	0.00	0.00	0.00
5,500.00	11.04	193.32	5,462.79	-397.61	-94.17	397.61	0.00	0.00	0.00
5,600.00	11.04	193.32	5,560.93	-416.25	-98.58	416.25	0.00	0.00	0.00
5,700.00	11.04	193.32	5,659.08	-434.89	-103.00	434.89	0.00	0.00	0.00
5,800.00	11.04	193.32	5,757.23	-453.53	-107.41	453.53	0.00	0.00	0.00
5,900.00	11.04	193.32	5,855.38	-472.17	-111.83	472.17	0.00	0.00	0.00
6,000.00	11.04	193.32	5,953.53	-490.81	-116.24	490.81	0.00	0.00	0.00
6,100.00	11.04	193.32	6,051.67	-509.45	-120.66	509.45	0.00	0.00	0.00
6,159.43	11.04	193.32	6,110.00	-520.53	-123.28	520.53	0.00	0.00	0.00
Trona									
6,200.00	11.04	193.32	6,149.82	-528.09	-125.07	528.09	0.00	0.00	0.00
6,223.62	11.04	193.32	6,173.00	-532.50	-126.11	532.50	0.00	0.00	0.00
Mahogany Bench									
6,300.00	11.04	193.32	6,247.97	-546.73	-129.49	546.73	0.00	0.00	0.00
6,400.00	11.04	193.32	6,346.12	-565.37	-133.90	565.37	0.00	0.00	0.00
6,500.00	11.04	193.32	6,444.27	-584.02	-138.32	584.02	0.00	0.00	0.00
6,600.00	11.04	193.32	6,542.41	-602.66	-142.73	602.66	0.00	0.00	0.00
6,700.00	11.04	193.32	6,640.56	-621.30	-147.15	621.30	0.00	0.00	0.00
6,800.00	11.04	193.32	6,738.71	-639.94	-151.56	639.94	0.00	0.00	0.00
6,900.00	11.04	193.32	6,836.86	-658.58	-155.97	658.58	0.00	0.00	0.00
7,000.00	11.04	193.32	6,935.01	-677.22	-160.39	677.22	0.00	0.00	0.00
7,089.66	11.04	193.32	7,023.00	-693.93	-164.35	693.93	0.00	0.00	0.00
Garden Gulch Member									
7,100.00	11.04	193.32	7,033.15	-695.86	-164.80	695.86	0.00	0.00	0.00
7,200.00	11.04	193.32	7,131.30	-714.50	-169.22	714.50	0.00	0.00	0.00
7,300.00	11.04	193.32	7,229.45	-733.14	-173.63	733.14	0.00	0.00	0.00
7,361.69	11.04	193.32	7,290.00	-744.64	-176.36	744.64	0.00	0.00	0.00
Garden Gulch Member-1									
7,400.00	11.04	193.32	7,327.60	-751.78	-178.05	751.78	0.00	0.00	0.00
7,500.00	11.04	193.32	7,425.75	-770.42	-182.46	770.42	0.00	0.00	0.00
7,535.92	11.04	193.32	7,461.00	-777.12	-184.05	777.12	0.00	0.00	0.00
Garden Gulch Member-2									
7,600.00	11.04	193.32	7,523.89	-789.06	-186.88	789.06	0.00	0.00	0.00
7,700.00	11.04	193.32	7,622.04	-807.70	-191.29	807.70	0.00	0.00	0.00
7,800.00	11.04	193.32	7,720.19	-826.34	-195.71	826.34	0.00	0.00	0.00
7,900.00	11.04	193.32	7,818.34	-844.99	-200.12	844.99	0.00	0.00	0.00
8,000.00	11.04	193.32	7,916.49	-863.63	-204.54	863.63	0.00	0.00	0.00
8,100.00	11.04	193.32	8,014.63	-882.27	-208.95	882.27	0.00	0.00	0.00
8,200.00	11.04	193.32	8,112.78	-900.91	-213.37	900.91	0.00	0.00	0.00
8,289.88	11.04	193.32	8,201.00	-917.66	-217.34	917.66	0.00	0.00	0.00
Douglas Creek Member									
8,300.00	11.04	193.32	8,210.93	-919.55	-217.78	919.55	0.00	0.00	0.00
8,320.73	11.04	193.32	8,231.28	-923.41	-218.70	923.41	0.00	0.00	0.00

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Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Nudge Drop> -1.50/100 MD									
8,400.00	9.86	193.32	8,309.23	-937.40	-222.01	937.40	1.50	-1.50	0.00
8,500.00	8.36	193.32	8,407.97	-952.80	-225.66	952.80	1.50	-1.50	0.00
8,600.00	6.86	193.32	8,507.08	-965.68	-228.71	965.68	1.50	-1.50	0.00
8,700.00	5.36	193.32	8,606.51	-976.03	-231.16	976.03	1.50	-1.50	0.00
8,700.09	5.36	193.32	8,606.61	-976.04	-231.16	976.04	0.00	0.00	0.00
B Limestone									
8,800.00	3.86	193.32	8,706.19	-983.84	-233.01	983.84	1.50	-1.50	0.00
8,849.97	3.11	193.32	8,756.06	-986.79	-233.71	986.79	1.50	-1.50	0.00
Lower Black Shale									
8,900.00	2.36	193.32	8,806.04	-989.11	-234.26	989.11	1.50	-1.50	0.00
8,984.82	1.08	193.32	8,890.82	-991.59	-234.84	991.59	1.50	-1.50	0.00
Castle Peak Limestone									
9,000.00	0.86	193.32	8,906.00	-991.84	-234.90	991.84	1.50	-1.50	0.00
9,057.01	0.00	0.00	8,963.00	-992.25	-235.00	992.25	1.50	-1.50	292.39
Nudge Vert. Pt.> 9057 MD- 8963 TVD									
9,100.00	0.00	0.00	9,005.99	-992.25	-235.00	992.25	0.00	0.00	0.00
9,127.79	0.00	0.00	9,033.79	-992.25	-235.00	992.25	0.00	0.00	0.00
CP_LIMES									
9,200.00	0.00	0.00	9,105.99	-992.25	-235.00	992.25	0.00	0.00	0.00
9,257.01	0.00	0.00	9,163.00	-992.25	-235.00	992.25	0.00	0.00	0.00
Curve KOP- Build> 11.00/100 MD									
9,274.78	1.96	179.75	9,180.77	-992.55	-235.00	992.55	11.00	11.00	0.00
Uteland Butte									
9,300.00	4.73	179.75	9,205.95	-994.02	-234.99	994.02	11.00	11.00	0.00
9,350.00	10.23	179.75	9,255.50	-1,000.53	-234.96	1,000.53	11.00	11.00	0.00
9,400.00	15.73	179.75	9,304.21	-1,011.76	-234.91	1,011.76	11.00	11.00	0.00
9,409.85	16.81	179.75	9,313.66	-1,014.51	-234.90	1,014.51	11.00	11.00	0.00
Wasatch									
9,450.00	21.23	179.75	9,351.61	-1,027.60	-234.85	1,027.60	11.00	11.00	0.00
9,500.00	26.73	179.75	9,397.28	-1,047.91	-234.76	1,047.91	11.00	11.00	0.00
9,550.00	32.23	179.75	9,440.79	-1,072.51	-234.65	1,072.51	11.00	11.00	0.00
9,566.11	34.00	179.75	9,454.28	-1,081.30	-234.61	1,081.30	11.00	11.00	0.00
Wasatch 10									
9,600.00	37.73	179.75	9,481.74	-1,101.16	-234.52	1,101.16	11.00	11.00	0.00
9,650.00	43.23	179.75	9,519.76	-1,133.60	-234.38	1,133.60	11.00	11.00	0.00
9,660.40	44.37	179.75	9,527.26	-1,140.80	-234.35	1,140.80	11.00	11.00	0.00
Wasatch 12									
9,700.00	48.73	179.75	9,554.49	-1,169.54	-234.23	1,169.54	11.00	11.00	0.00
9,750.00	54.23	179.75	9,585.62	-1,208.65	-234.06	1,208.65	11.00	11.00	0.00
9,800.00	59.73	179.75	9,612.85	-1,250.56	-233.87	1,250.56	11.00	11.00	0.00
9,850.00	65.23	179.75	9,635.95	-1,294.88	-233.68	1,294.88	11.00	11.00	0.00
9,859.88	66.32	179.75	9,640.00	-1,303.89	-233.64	1,303.89	11.00	11.00	0.00
Wasatch 15									
9,900.00	70.73	179.75	9,654.69	-1,341.21	-233.48	1,341.21	11.00	11.00	0.00
9,950.00	76.23	179.75	9,668.90	-1,389.13	-233.27	1,389.13	11.00	11.00	0.00
9,960.01	77.33	179.75	9,671.19	-1,398.88	-233.23	1,398.88	11.00	11.00	0.00
Wasatch 15 Limestone									
10,000.00	81.73	179.75	9,678.45	-1,438.19	-233.05	1,438.19	11.00	11.00	0.00
10,050.00	87.23	179.75	9,683.26	-1,487.94	-232.84	1,487.94	11.00	11.00	0.00

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LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,101.55	92.90	179.75	9,683.20	-1,539.47	-232.61	1,539.47	11.00	11.00	0.00
92.9° Angle-Tangent> 34 ft. at 10102 MD									
10,135.63	92.90	179.75	9,681.48	-1,573.50	-232.46	1,573.50	0.00	0.00	0.00
Landing Pt.> 10136 MD-9681 TVD									
10,200.00	92.90	179.75	9,678.22	-1,637.79	-232.18	1,637.79	0.00	0.00	0.00
10,300.00	92.90	179.75	9,673.16	-1,737.66	-231.75	1,737.66	0.00	0.00	0.00
10,400.00	92.90	179.75	9,668.10	-1,837.53	-231.31	1,837.53	0.00	0.00	0.00
10,500.00	92.90	179.75	9,663.05	-1,937.40	-230.88	1,937.40	0.00	0.00	0.00
10,600.00	92.90	179.75	9,657.99	-2,037.27	-230.44	2,037.27	0.00	0.00	0.00
10,700.00	92.90	179.75	9,652.93	-2,137.15	-230.00	2,137.15	0.00	0.00	0.00
10,800.00	92.90	179.75	9,647.87	-2,237.02	-229.57	2,237.02	0.00	0.00	0.00
10,900.00	92.90	179.75	9,642.81	-2,336.89	-229.13	2,336.89	0.00	0.00	0.00
11,000.00	92.90	179.75	9,637.75	-2,436.76	-228.70	2,436.76	0.00	0.00	0.00
11,100.00	92.90	179.75	9,632.69	-2,536.63	-228.26	2,536.63	0.00	0.00	0.00
11,200.00	92.90	179.75	9,627.63	-2,636.50	-227.83	2,636.50	0.00	0.00	0.00
11,300.00	92.90	179.75	9,622.57	-2,736.37	-227.39	2,736.37	0.00	0.00	0.00
11,400.00	92.90	179.75	9,617.51	-2,836.24	-226.95	2,836.24	0.00	0.00	0.00
11,500.00	92.90	179.75	9,612.45	-2,936.11	-226.52	2,936.11	0.00	0.00	0.00
11,600.00	92.90	179.75	9,607.39	-3,035.98	-226.08	3,035.98	0.00	0.00	0.00
11,700.00	92.90	179.75	9,602.33	-3,135.86	-225.65	3,135.86	0.00	0.00	0.00
11,800.00	92.90	179.75	9,597.27	-3,235.73	-225.21	3,235.73	0.00	0.00	0.00
11,900.00	92.90	179.75	9,592.22	-3,335.60	-224.78	3,335.60	0.00	0.00	0.00
12,000.00	92.90	179.75	9,587.16	-3,435.47	-224.34	3,435.47	0.00	0.00	0.00
12,100.00	92.90	179.75	9,582.10	-3,535.34	-223.90	3,535.34	0.00	0.00	0.00
12,200.00	92.90	179.75	9,577.04	-3,635.21	-223.47	3,635.21	0.00	0.00	0.00
12,300.00	92.90	179.75	9,571.98	-3,735.08	-223.03	3,735.08	0.00	0.00	0.00
12,400.00	92.90	179.75	9,566.92	-3,834.95	-222.60	3,834.95	0.00	0.00	0.00
12,500.00	92.90	179.75	9,561.86	-3,934.82	-222.16	3,934.82	0.00	0.00	0.00
12,600.00	92.90	179.75	9,556.80	-4,034.69	-221.72	4,034.69	0.00	0.00	0.00
12,700.00	92.90	179.75	9,551.74	-4,134.56	-221.29	4,134.56	0.00	0.00	0.00
12,800.00	92.90	179.75	9,546.68	-4,234.44	-220.85	4,234.44	0.00	0.00	0.00
12,900.00	92.90	179.75	9,541.62	-4,334.31	-220.42	4,334.31	0.00	0.00	0.00
13,000.00	92.90	179.75	9,536.56	-4,434.18	-219.98	4,434.18	0.00	0.00	0.00
13,100.00	92.90	179.75	9,531.50	-4,534.05	-219.55	4,534.05	0.00	0.00	0.00
13,200.00	92.90	179.75	9,526.44	-4,633.92	-219.11	4,633.92	0.00	0.00	0.00
13,300.00	92.90	179.75	9,521.38	-4,733.79	-218.67	4,733.79	0.00	0.00	0.00
13,400.00	92.90	179.75	9,516.33	-4,833.66	-218.24	4,833.66	0.00	0.00	0.00
13,500.00	92.90	179.75	9,511.27	-4,933.53	-217.80	4,933.53	0.00	0.00	0.00
13,600.00	92.90	179.75	9,506.21	-5,033.40	-217.37	5,033.40	0.00	0.00	0.00
13,700.00	92.90	179.75	9,501.15	-5,133.27	-216.93	5,133.27	0.00	0.00	0.00
13,800.00	92.90	179.75	9,496.09	-5,233.15	-216.50	5,233.15	0.00	0.00	0.00
13,900.00	92.90	179.75	9,491.03	-5,333.02	-216.06	5,333.02	0.00	0.00	0.00
14,000.00	92.90	179.75	9,485.97	-5,432.89	-215.62	5,432.89	0.00	0.00	0.00
14,087.02	92.90	179.75	9,481.57	-5,519.80	-215.24	5,519.80	0.00	0.00	0.00
TD-PBHL> 14087 MD- 9482 TVD									

RECEIVED: Jul. 26, 2013

LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Sec. 11, T3S-R2W,	0.00	0.00	82.00	-897.14	4,363.14	7,260,825.61	2,040,321.53	40° 14' 38.590 N	110° 4' 2.340 W
- plan misses target center by 4454.42usft at 82.00usft MD (82.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			82.00	0.00	0.00	7,260,825.61	2,040,321.53		
Point 2			82.00	-5,275.85	20.62	7,255,550.75	2,040,425.72		
Point 3			82.00	-5,279.71	-1,320.32	7,255,525.65	2,039,085.01		
Point 4			82.00	-5,290.69	-5,277.20	7,255,451.98	2,035,128.80		
Point 5			82.00	-2,658.85	-5,290.82	7,258,083.28	2,035,073.49		
Point 6			82.00	-29.03	-5,309.07	7,260,712.48	2,035,013.58		
Point 7			82.00	-15.65	-2,647.94	7,260,768.01	2,037,674.17		
Point 8			82.00	0.00	0.00	7,260,825.61	2,040,321.53		
Sec. 11, T3S-R2W, 6(	0.00	0.00	82.00	-1,559.00	3,704.15	7,260,153.39	2,039,673.11	40° 14' 32.050 N	110° 4' 10.840 W
- plan misses target center by 4018.86usft at 82.00usft MD (82.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			82.00	0.00	0.00	7,260,153.39	2,039,673.11		
Point 2			82.00	-3,955.37	16.14	7,256,198.77	2,039,751.91		
Point 3			82.00	-3,956.81	-664.01	7,256,186.56	2,039,071.86		
Point 4			82.00	-3,965.51	-3,963.14	7,256,125.59	2,035,773.29		
Point 5			82.00	-1,991.37	-3,973.21	7,258,099.33	2,035,731.94		
Point 6			82.00	-22.29	-3,987.14	7,260,067.94	2,035,686.82		
Point 7			82.00	-12.23	-1,986.59	7,260,109.69	2,037,686.96		
Point 8			82.00	0.00	0.00	7,260,153.39	2,039,673.11		
Sec. 2, T3S-R2W, 66(	0.00	0.00	82.00	-239.52	3,700.86	7,261,472.65	2,039,648.91	40° 14' 45.090 N	110° 4' 10.880 W
- plan misses target center by 3708.60usft at 82.00usft MD (82.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			82.00	0.00	0.00	7,261,472.65	2,039,648.91		
Point 2			82.00	-12.23	-1,988.03	7,261,428.93	2,037,661.32		
Point 3			82.00	-22.29	-3,986.15	7,261,387.22	2,035,663.61		
Point 4			82.00	1,946.82	-3,987.68	7,263,356.05	2,035,630.88		
Point 5			82.00	3,260.23	-3,988.70	7,264,669.28	2,035,609.06		
Point 6			82.00	3,956.40	-3,989.29	7,265,365.36	2,035,597.44		
Point 7			82.00	3,956.32	-2,003.87	7,265,396.73	2,037,582.61		
Point 8			82.00	3,966.50	-22.35	7,265,438.30	2,039,563.72		
Point 9			82.00	0.00	0.00	7,261,472.65	2,039,648.91		
Sec. 2, T3S-R2W,	0.00	0.00	82.00	-897.14	4,363.14	7,260,825.61	2,040,321.53	40° 14' 38.590 N	110° 4' 2.340 W
- plan misses target center by 4454.42usft at 82.00usft MD (82.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			82.00	0.00	0.00	7,260,825.61	2,040,321.53		
Point 2			82.00	-15.65	-2,647.94	7,260,768.01	2,037,674.17		
Point 3			82.00	-29.03	-5,309.07	7,260,712.48	2,035,013.58		
Point 4			82.00	2,602.86	-5,311.06	7,263,344.01	2,034,969.90		
Point 5			82.00	3,915.26	-5,312.04	7,264,656.23	2,034,948.13		
Point 6			82.00	5,272.18	-5,313.11	7,266,012.96	2,034,925.56		
Point 7			82.00	5,272.37	-2,668.79	7,266,055.04	2,037,569.54		
Point 8			82.00	5,285.98	-29.94	7,266,110.45	2,040,207.85		
Point 9			82.00	0.00	0.00	7,260,825.61	2,040,321.53		
TD-PBHL (4-11-3-2W	0.00	0.00	9,482.00	-5,519.74	-216.78	7,256,131.04	2,035,815.41	40° 13' 52.910 N	110° 5' 1.405 W
- plan misses target center by 1.59usft at 14086.94usft MD (9481.57 TVD, -5519.71 N, -215.25 E)									
- Point									
TD - 660' FSL- 660' F\	0.00	0.00	9,482.00	-5,519.74	-266.78	7,256,130.24	2,035,765.41	40° 13' 52.910 N	110° 5' 2.050 W
- plan misses target center by 51.54usft at 14086.72usft MD (9481.58 TVD, -5519.49 N, -215.25 E)									
- Point									
Landing Pt. (4-11-3-2\	0.00	0.00	9,680.00	-1,573.45	-233.80	7,260,076.56	2,035,735.88	40° 14' 31.910 N	110° 5' 1.625 W

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Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

- plan misses target center by 1.99usft at 10135.64usft MD (9681.48 TVD, -1573.52 N, -232.46 E)
- Point

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,162.44	4,150.00	Green River		0.00	179.75
6,159.43	6,110.00	Trona		0.00	179.75
6,223.62	6,173.00	Mahogany Bench		0.00	179.75
7,089.66	7,023.00	Garden Gulch Member		0.00	179.75
7,361.69	7,290.00	Garden Gulch Member-1		0.00	179.75
7,535.92	7,461.00	Garden Gulch Member-2		0.00	179.75
8,289.88	8,201.00	Douglas Creek Member		0.00	179.75
8,700.09	8,606.61	B Limestone		-2.90	179.75
8,849.97	8,756.06	Lower Black Shale		-2.90	179.75
8,984.82	8,890.82	Castle Peak Limestone		-2.90	179.75
9,127.79	9,033.79	CP_LIMES		-2.90	179.75
9,274.78	9,180.77	Uteland Butte		-2.90	179.75
9,409.85	9,313.66	Wasatch		-2.90	179.75
9,566.11	9,454.28	Wasatch 10		-2.90	179.75
9,660.40	9,527.26	Wasatch 12		-2.90	179.75
9,859.88	9,640.00	Wasatch 15		-2.90	179.75
9,960.01	9,671.19	Wasatch 15 Limestone		-2.90	179.75

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2,500.00	2,500.00	0.00	0.00	Tangent> 500 ft at 2500 MD
3,000.00	3,000.00	0.00	0.00	Nudge Build> 1.50/100 MD
3,736.27	3,731.72	-68.84	-16.30	EOB-Tangent> 4584.46 ft at 3736 MD
8,320.73	8,231.28	-923.41	-218.70	Nudge Drop> -1.50/100 MD
9,057.01	8,963.00	-992.25	-235.00	Nudge Vert. Pt.> 9057 MD- 8963 TVD
9,257.01	9,163.00	-992.25	-235.00	Curve KOP- Build> 11.00/100 MD
10,101.55	9,683.20	-1,539.47	-232.61	92.9° Angle-Tangent> 34 ft. at 10102 MD
10,135.63	9,681.48	-1,573.50	-232.46	Landing Pt.> 10136 MD-9681 TVD
14,087.02	9,481.57	-5,519.80	-215.24	TD-PBHL> 14087 MD- 9482 TVD

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BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pete Martin Rig #16
Submitted By Kylan Cook Phone Number 435-790-8236
Well Name/Number STATE 4-11-3-2WH
Qtr/Qtr SW/SW Section 2 Township 3S Range 2W
Lease Serial Number ML-51676
API Number 43013519230000

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

Date/Time 08/09/2013 09:00 AM ☒ PM ☐

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

☐ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

Date/Time _____ _____ AM ☐ PM ☐

BOPE

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

Date/Time _____ _____ AM ☐ PM ☐

Remarks _____

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DIV. OF OIL, GAS & MINING

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pro Petro Rig #10
Submitted By Kylan Cook Phone Number 435-790-8236
Well Name/Number STATE 4-11-3-2WH
Qtr/Qtr SW/SW Section 2 Township 3S Range 2W
Lease Serial Number ML-51676
API Number 43013519230000

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

Date/Time _____ _____ AM ☐ PM ☐

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

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

Date/Time 08/15/2013 06:00 AM ☒ PM ☐

BOPE

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

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DIV. OF OIL, GAS & MINING

Date/Time _____ _____ AM ☐ PM ☐

Remarks _____

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-51676

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
State 4-11-3-2WH

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
43013519230000

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:
0913 FSL 0945 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSW Section: 02 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: 10/8/2013	☐ 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 requests to change the casing design on the subject well. An updated drilling plan is attached. No changes were made to the directional plan that has also been attached.

Approved by the Utah Division of Oil, Gas and Mining

Date: October 08, 2013

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Don Hamilton	435 719-2018	Permitting Agent

SIGNATURE	DATE
N/A	10/2/2013

RECEIVED: Oct. 02, 2013

Newfield Production Company
4-11-3-2WH
Surface Hole Location: 913' FNL, 945' FWL, Section 2, T3S, R2W
Bottom Hole Location: 660' FSL, 660' FWL, Section 11, T3S, R2W
Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta	surface
Green River	4,150'
Garden Gulch member	7,023'
Uteland Butte member	9,231'
Wasatch	9,365'
Lateral TD	9,481' TVD / 14,087' MD

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

Base of moderately saline	1,105'		(water)
Green River	7,023'	- 9,365'	(oil)
Wasatch	9,365'	- 9,481'	(oil)

3. Pressure Control

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

4. Casing

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Conductor	0'	86'	--	--	Weld	--	--	--	--	--	--
20									--	--	--
Surface	0'	1,627'	54.5	J-55	STC	8.33	8.4	14	2,730	1,130	514,000
13 3/8									2.66	2.42	5.80
Intermediate	0'	8,806'	26	P-110	BTC	10	10.5	15	9,960	6,210	830,000
7		8,900'							1.96	2.58	3.63
Production	8,700'	9,481'	13.5	P-110	BTC	14	14.5	16	12,410	10,670	422,000
4 1/2		14,087'							2.26	1.86	2.22

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Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)
Intermediate casing MASP = (reservoir pressure) - (gas gradient)
Production casing MASP = (reservoir pressure) - (gas gradient)
All collapse calculations assume fully evacuated casing with a gas gradient
All tension calculations assume air weight of casing
Gas gradient = 0.15 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	24	86'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	95 / 81	15%	15.8	1.17
Surface Lead	17 1/2	1,127'	Varicem (Type III) + .125 lbs/sk Cello Flakes	900 / 270	15%	11.0	3.33
Surface Tail	17 1/2	500'	Varicem (Type III) + .125 lbs/sk Cello Flakes	399 / 210	15%	13.0	1.9
Intermediate Lead	8 3/4	7,023'	HLC Premium - 35% Poz/65% Glass G + 10% bentonite	1214 / 344	15%	11.0	3.53
Intermediate Tail	8 3/4	1,877'	50/50 Poz/Class G + 1% bentonite	325 / 252	15%	14.0	1.29
Production Tail	6 1/8	5,187'	50/50 Poz/Class G + 1% bentonite	562 / 435	15%	14.0	1.29

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

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

The 4.5" liner will be run and cemented in place. The top of the liner will be placed 200' above the intermediate casing shoe and will be isolated with a liner top packer. The lateral will be cemented past the setback.

The wellbore will cross the heal setback @ 10,135' MD
The float collar will be @ 14,087' MD
This well will not be perforated or produced outside the legal setbacks.

6. Type and Characteristics of Proposed Circulating Medium

Interval	Description
Surface - 1,627'	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.

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1,627' - 8,900'	A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.
	Anticipated maximum mud weight is 10.5 ppg.
8,900' - TD	One of two possible mud systems may be used depending on offset well performance on ongoing wells: A water based mud: Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite. -or- A diesel based OBM system: with an oil to water ratio between 70/30 and 80/20. Emulsifiers and wetting agents will be used to maintain adequate mud properties. A water phase salinity will be maintained in the range of 25% using CaCl (Calcium Chloride). All cuttings will be dried and centrifuged so that they can be easily transferred to a lined cuttings pit with little to no free fluid on them. The cuttings will be mixed with fly ash prior to transportation to a location on Newfield owned surface. Once on Newfield owned surface, the cuttings will be treated with the previously approved FIRMUS process and used as a construction material on future location and/or roads on Newfield owned surface. The cuttings may also be transported to a state approved disposal facility.
	Anticipated maximum mud weight is 14.5 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run from KOP 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 KOP to the cement top behind the production casing and or intermediate casing.

Cores: As deemed necessary.

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

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8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.73 psi/ft gradient.

9,481' x 0.73 psi/ft = 6902.2 psi

No abnormal temperature is expected. No H_2S is expected.

9. Other Aspects

The lateral of this well will target the Wasatch formation
After setting 7" casing, an 6-1/8" vertical hole will be drilled to a kick off point of. 9,257'
Directional tools will then be used to build to 92.90 degrees inclination.
The lateral will be drilled to the bottomhole location shown on the plat. A liner will be run and cemented in place. The top of the liner will be placed 200' above the intermediate casing shoe and will be isolated with a liner top packer.

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

If oil based mud (OBM) is used and If Newfield owns the surface rights on the same drilling site at a location where construction is desired, the cuttings may be used for construction by a Firmus® process at that location. Otherwise, after the cuttings have been made safe for transport as described in paragraph 6, they will be transported to another location on which Newfield owns surface rights and there mixed, as part of a Firmus® process, with at least one additional chemical that will convert them to a temporarily uncured cementitious mixture that will be placed and shaped into a temporary desired final structure that will spontaneously harden within seven days after placement to form the desired structure. Samples of the temporary desired final structure may be taken for testing as described below (after the samples have hardened), or samples of the starting pretreated cuttings and mud will be taken during the construction and later mixed in a laboratory, molded, and cured to simulate the final structure as well as reasonably possible. Either these laboratory-made simulations of the final structure or samples of the temporary mixture itself after hardening, will be mechanically tested directly to determine their unconfined compressive strength and their hydraulic conductivity. Leachates of the mechanically tested structures themselves or of finer particles made by crushing and size-grading of the mechanically tested structures themselves to a specified particle size range will be analyzed, according to specified methods, for their contents of arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, zinc, benzene, total petroleum hydrocarbons (TPH), and chlorides, and the pH of these leachates will also be measured. The results of all these tests will be reported by Newfield to UDOGM at intervals as requested, along with the latitude and longitude (or other comparable location data) of the site of the useful constructions built.

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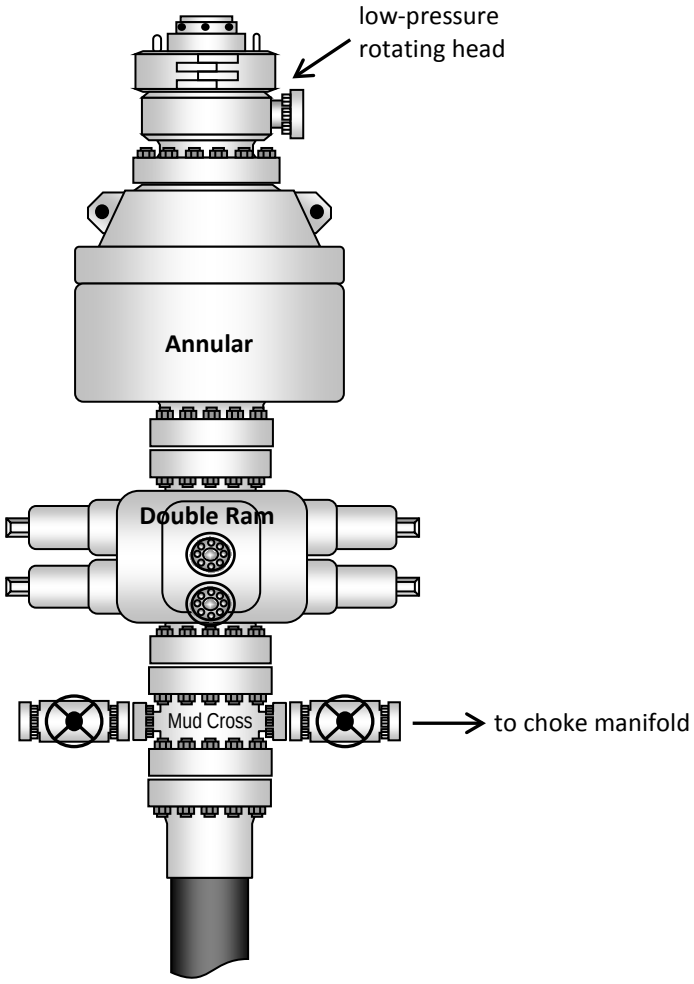
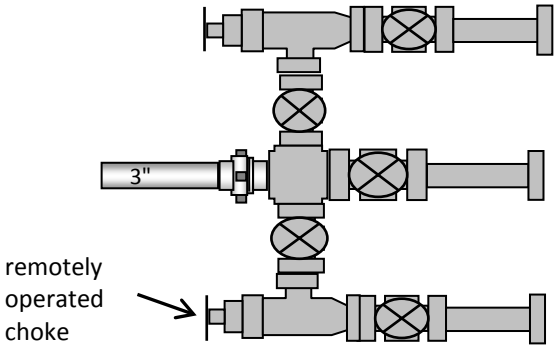
Typical 5M BOP stack configuration



Typical 5M choke manifold configuration



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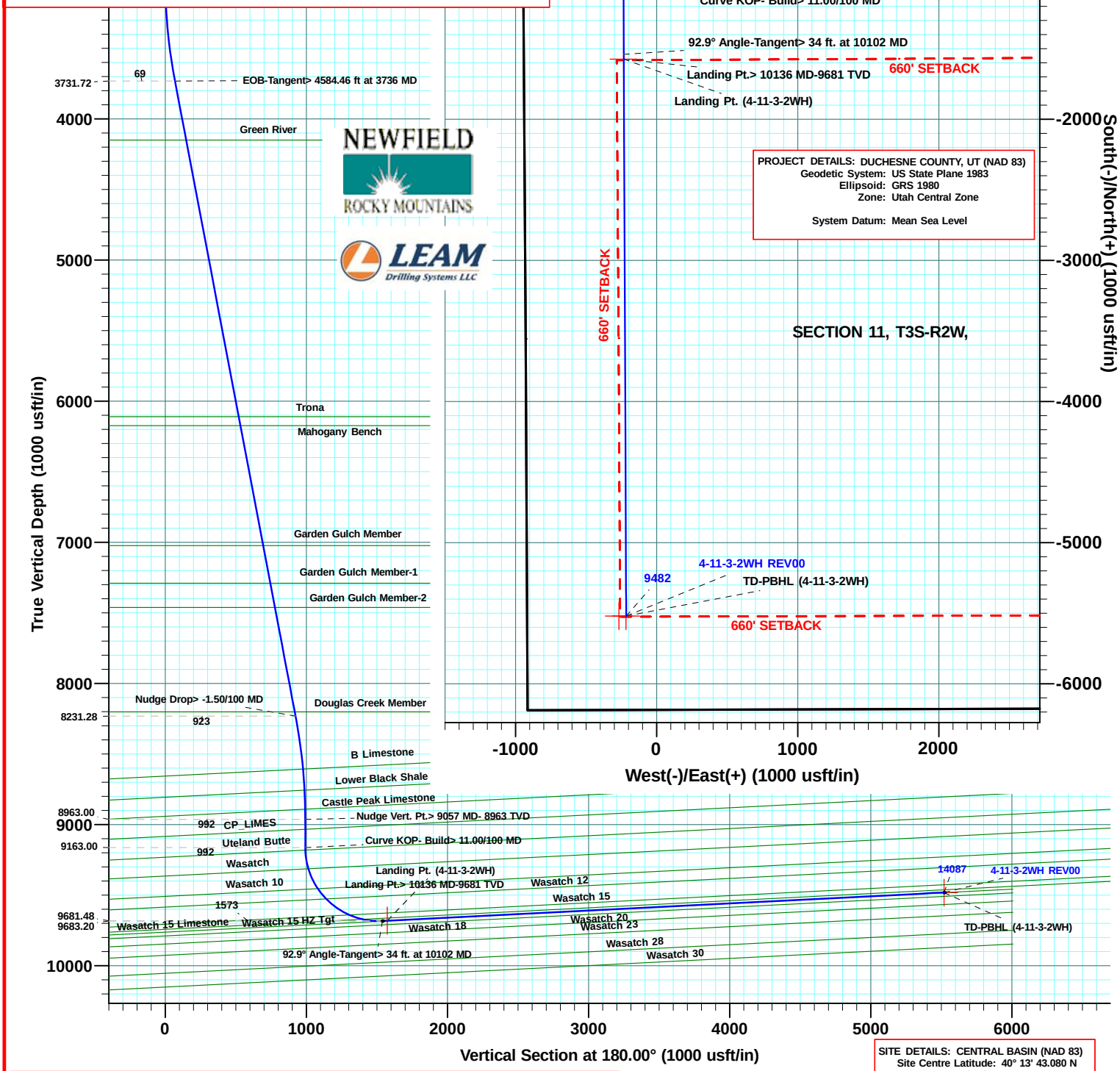
LEAM Drilling Systems, Inc.
FOR
NEWFIELD EXPLORATION ROCKY MOUNTAINS
WELL: 4-11-3-2WH (PLAN: REV00)
DUCHESNE COUNTY, UTAH
DATE: APRIL 10, 2013 -- WELL PLAN PLOT

WELL DETAILS: 4-11-3-2WH
Ground Level: 5464.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	7261653.51	2035944.72	40° 14' 47.460 N	110° 4' 58.610 W	



SITE DETAILS: CENTRAL BASIN (NAD 83)
Site Centre Latitude: 40° 13' 43.080 N
Longitude: 110° 15' 32.490 W

Positional Uncertainity: 0.00
Convergence: 0.79
Local North: True

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	
3736.27	11.04	193.32	3731.72	-68.84	-16.30	1.50	193.32	68.84	
8320.73	11.04	193.32	8231.28	-923.41	-218.70	0.00	0.00	923.41	
9057.01	0.00	0.00	8963.00	-992.25	-235.00	1.50	180.00	992.25	
9257.01	0.00	0.00	9163.00	-992.25	-235.00	0.00	0.00	992.25	
10101.55	92.90	179.75	9683.20	-1539.47	-232.61	11.00	179.75	1539.47	
10135.57	92.90	179.75	9681.48	-1573.45	-232.46	0.00	0.00	1573.45	Landing Pt. (4-11-3-2WH)
14086.96	92.90	179.75	9481.57	-5519.74	-215.24	0.00	0.00	5519.74	TD-PBHL (4-11-3-2WH)

T M

Azimuths to True North
Magnetic North: 11.12°

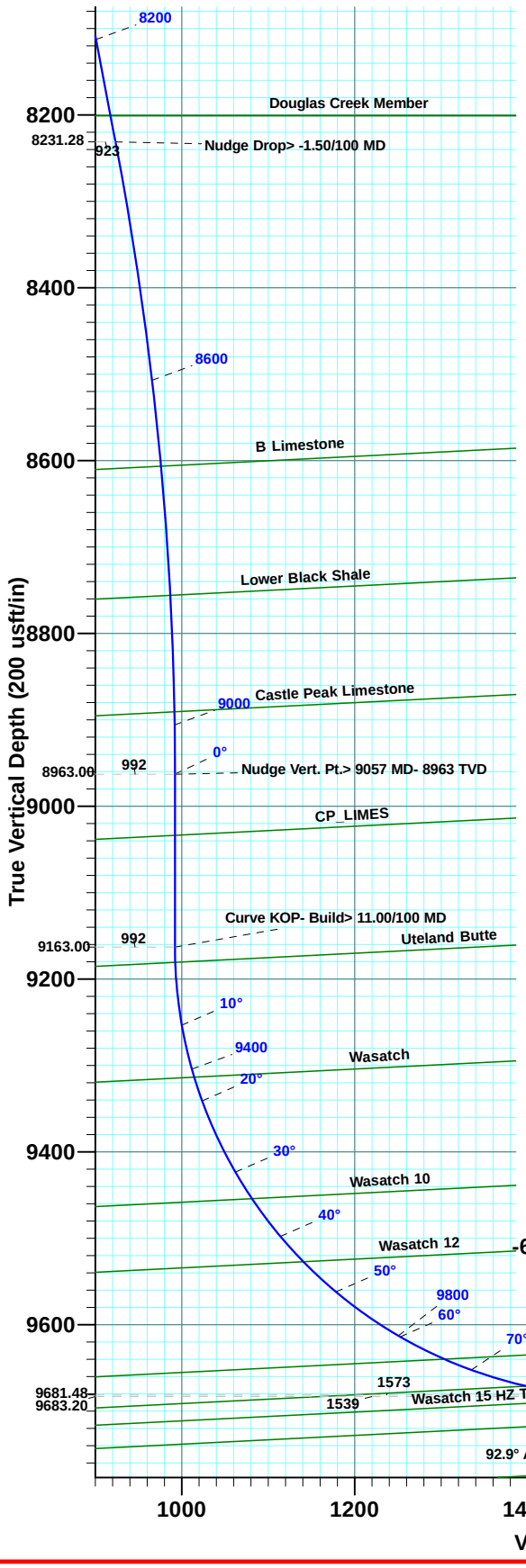
Magnetic Field
Strength: 52197.5snT
Dip Angle: 65.91°
Date: 4/10/2013
Model: IGRF2010

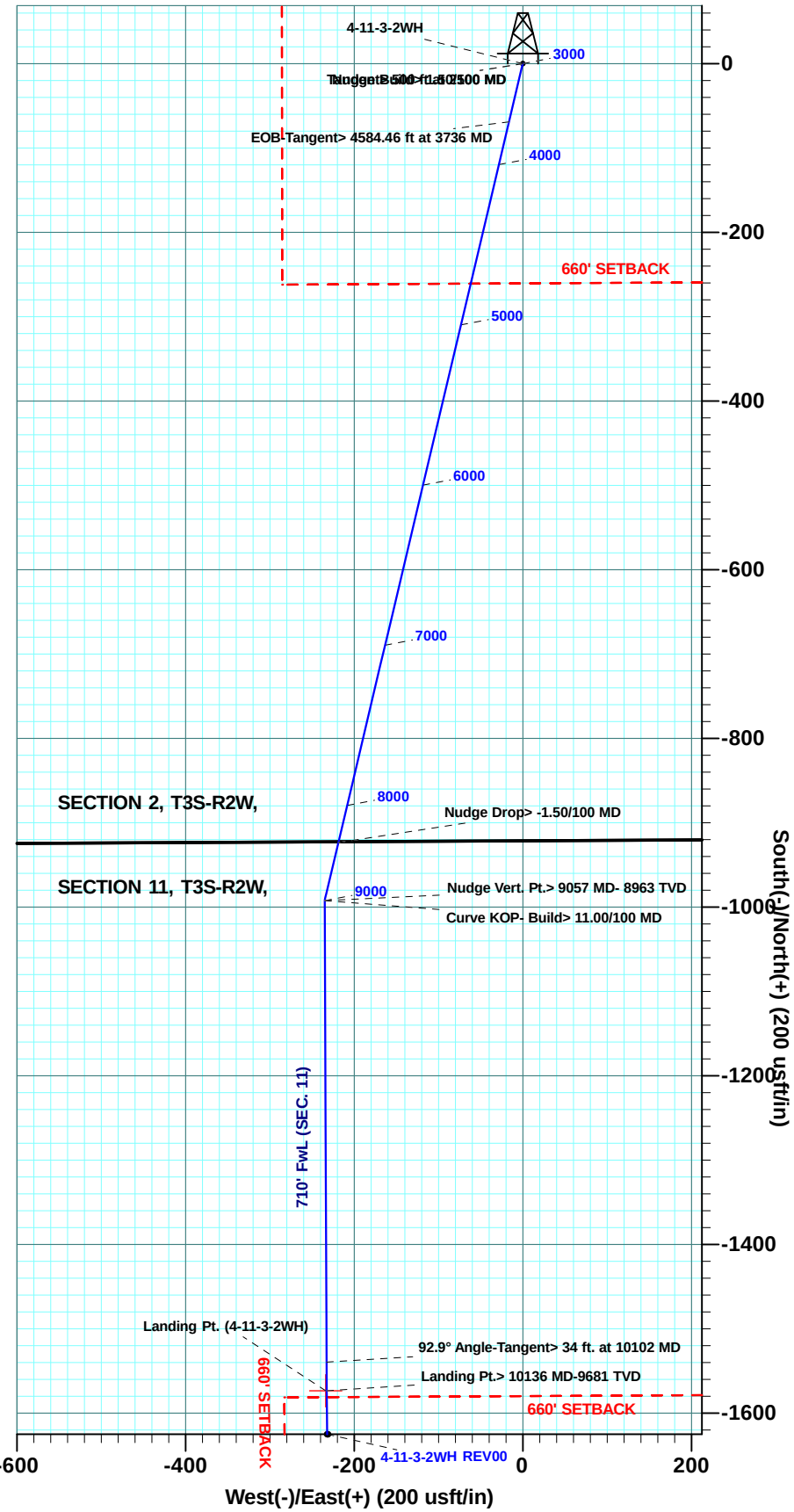
Plan: 4-11-3-2WH REV00 (4-11-3-2WH/4-11-3-2WH)
Created By: Lynn Hulin Date: 12:25, April 10 2013

Checked: _____ Date: _____
Reviewed: _____ Date: _____
Approved: _____ Date: _____

LEAM Drilling Systems, Inc.
FOR
NEWFIELD EXPLORATION ROCKY MOUNTAINS
WELL: 4-11-3-2WH (PLAN: REV00)
DUCHESNE COUNTY, UTAH
DATE: APRIL 10, 2013 -- DAILY PLOT 1"= 200 Ft.

DAILY PLOT - SCALE = 1" = 200 FT.





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LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Project DUCHESNE COUNTY, UT (NAD 83),

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

Site CENTRAL BASIN (NAD 83)

Site Position:		**Northing:**	7,254,409.48 usft	**Latitude:**	40° 13' 43.080 N
From:	Lat/Long	**Easting:**	1,986,891.62 usft	**Longitude:**	110° 15' 32.490 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.79 °

Well 4-11-3-2WH, Sec. 2,- Sec. 11, T3S-R2W,

Well Position	**+N/-S**	6,562.78 usft	**Northing:**	7,261,653.52 usft	**Latitude:**	40° 14' 47.460 N
	+E/-W	49,148.89 usft	**Easting:**	2,035,944.72 usft	**Longitude:**	110° 4' 58.610 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	5,446.00 usft	**Ground Level:**	5,464.00 usft

Wellbore 4-11-3-2WH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/10/2013	11.12	65.91	52,197

Design 4-11-3-2WH REV00

Audit Notes:

Version:	REV00	**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	180.00

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,736.27	11.04	193.32	3,731.72	-68.84	-16.30	1.50	1.50	0.00	193.32	
8,320.73	11.04	193.32	8,231.28	-923.41	-218.70	0.00	0.00	0.00	0.00	
9,057.01	0.00	0.00	8,963.00	-992.25	-235.00	1.50	-1.50	0.00	180.00	
9,257.01	0.00	0.00	9,163.00	-992.25	-235.00	0.00	0.00	0.00	0.00	
10,101.55	92.90	179.75	9,683.20	-1,539.47	-232.61	11.00	11.00	0.00	179.75	
10,135.63	92.90	179.75	9,681.48	-1,573.50	-232.46	0.00	0.00	0.00	0.00	Landing Pt. (4-11-3
14,087.02	92.90	179.75	9,481.57	-5,519.80	-215.24	0.00	0.00	0.00	0.00	TD-PBHL (4-11-3-2

RECEIVED: Oct. 02, 2013

LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Tangent> 500 ft at 2500 MD									
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Nudge Build> 1.50/100 MD									
3,100.00	1.50	193.32	3,099.99	-1.27	-0.30	1.27	1.50	1.50	0.00
3,200.00	3.00	193.32	3,199.91	-5.09	-1.21	5.09	1.50	1.50	0.00
3,300.00	4.50	193.32	3,299.69	-11.46	-2.71	11.46	1.50	1.50	0.00
3,400.00	6.00	193.32	3,399.27	-20.36	-4.82	20.36	1.50	1.50	0.00
3,500.00	7.50	193.32	3,498.57	-31.80	-7.53	31.80	1.50	1.50	0.00
3,600.00	9.00	193.32	3,597.54	-45.76	-10.84	45.76	1.50	1.50	0.00
3,700.00	10.50	193.32	3,696.09	-62.24	-14.74	62.24	1.50	1.50	0.00
3,736.27	11.04	193.32	3,731.72	-68.84	-16.30	68.84	1.50	1.50	0.00
EOB-Tangent> 4584.46 ft at 3736 MD									
3,800.00	11.04	193.32	3,794.27	-80.72	-19.12	80.72	0.00	0.00	0.00
3,900.00	11.04	193.32	3,892.42	-99.36	-23.53	99.36	0.00	0.00	0.00
4,000.00	11.04	193.32	3,990.57	-118.00	-27.95	118.00	0.00	0.00	0.00
4,100.00	11.04	193.32	4,088.71	-136.64	-32.36	136.64	0.00	0.00	0.00
4,162.44	11.04	193.32	4,150.00	-148.28	-35.12	148.28	0.00	0.00	0.00
Green River									
4,200.00	11.04	193.32	4,186.86	-155.28	-36.78	155.28	0.00	0.00	0.00
4,300.00	11.04	193.32	4,285.01	-173.92	-41.19	173.92	0.00	0.00	0.00
4,400.00	11.04	193.32	4,383.16	-192.56	-45.61	192.56	0.00	0.00	0.00
4,500.00	11.04	193.32	4,481.31	-211.20	-50.02	211.20	0.00	0.00	0.00

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LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.00	11.04	193.32	4,579.45	-229.84	-54.43	229.84	0.00	0.00	0.00
4,700.00	11.04	193.32	4,677.60	-248.48	-58.85	248.48	0.00	0.00	0.00
4,800.00	11.04	193.32	4,775.75	-267.12	-63.26	267.12	0.00	0.00	0.00
4,900.00	11.04	193.32	4,873.90	-285.76	-67.68	285.76	0.00	0.00	0.00
5,000.00	11.04	193.32	4,972.05	-304.40	-72.09	304.40	0.00	0.00	0.00
5,100.00	11.04	193.32	5,070.19	-323.05	-76.51	323.05	0.00	0.00	0.00
5,200.00	11.04	193.32	5,168.34	-341.69	-80.92	341.69	0.00	0.00	0.00
5,300.00	11.04	193.32	5,266.49	-360.33	-85.34	360.33	0.00	0.00	0.00
5,400.00	11.04	193.32	5,364.64	-378.97	-89.75	378.97	0.00	0.00	0.00
5,500.00	11.04	193.32	5,462.79	-397.61	-94.17	397.61	0.00	0.00	0.00
5,600.00	11.04	193.32	5,560.93	-416.25	-98.58	416.25	0.00	0.00	0.00
5,700.00	11.04	193.32	5,659.08	-434.89	-103.00	434.89	0.00	0.00	0.00
5,800.00	11.04	193.32	5,757.23	-453.53	-107.41	453.53	0.00	0.00	0.00
5,900.00	11.04	193.32	5,855.38	-472.17	-111.83	472.17	0.00	0.00	0.00
6,000.00	11.04	193.32	5,953.53	-490.81	-116.24	490.81	0.00	0.00	0.00
6,100.00	11.04	193.32	6,051.67	-509.45	-120.66	509.45	0.00	0.00	0.00
6,159.43	11.04	193.32	6,110.00	-520.53	-123.28	520.53	0.00	0.00	0.00
Trona									
6,200.00	11.04	193.32	6,149.82	-528.09	-125.07	528.09	0.00	0.00	0.00
6,223.62	11.04	193.32	6,173.00	-532.50	-126.11	532.50	0.00	0.00	0.00
Mahogany Bench									
6,300.00	11.04	193.32	6,247.97	-546.73	-129.49	546.73	0.00	0.00	0.00
6,400.00	11.04	193.32	6,346.12	-565.37	-133.90	565.37	0.00	0.00	0.00
6,500.00	11.04	193.32	6,444.27	-584.02	-138.32	584.02	0.00	0.00	0.00
6,600.00	11.04	193.32	6,542.41	-602.66	-142.73	602.66	0.00	0.00	0.00
6,700.00	11.04	193.32	6,640.56	-621.30	-147.15	621.30	0.00	0.00	0.00
6,800.00	11.04	193.32	6,738.71	-639.94	-151.56	639.94	0.00	0.00	0.00
6,900.00	11.04	193.32	6,836.86	-658.58	-155.97	658.58	0.00	0.00	0.00
7,000.00	11.04	193.32	6,935.01	-677.22	-160.39	677.22	0.00	0.00	0.00
7,089.66	11.04	193.32	7,023.00	-693.93	-164.35	693.93	0.00	0.00	0.00
Garden Gulch Member									
7,100.00	11.04	193.32	7,033.15	-695.86	-164.80	695.86	0.00	0.00	0.00
7,200.00	11.04	193.32	7,131.30	-714.50	-169.22	714.50	0.00	0.00	0.00
7,300.00	11.04	193.32	7,229.45	-733.14	-173.63	733.14	0.00	0.00	0.00
7,361.69	11.04	193.32	7,290.00	-744.64	-176.36	744.64	0.00	0.00	0.00
Garden Gulch Member-1									
7,400.00	11.04	193.32	7,327.60	-751.78	-178.05	751.78	0.00	0.00	0.00
7,500.00	11.04	193.32	7,425.75	-770.42	-182.46	770.42	0.00	0.00	0.00
7,535.92	11.04	193.32	7,461.00	-777.12	-184.05	777.12	0.00	0.00	0.00
Garden Gulch Member-2									
7,600.00	11.04	193.32	7,523.89	-789.06	-186.88	789.06	0.00	0.00	0.00
7,700.00	11.04	193.32	7,622.04	-807.70	-191.29	807.70	0.00	0.00	0.00
7,800.00	11.04	193.32	7,720.19	-826.34	-195.71	826.34	0.00	0.00	0.00
7,900.00	11.04	193.32	7,818.34	-844.99	-200.12	844.99	0.00	0.00	0.00
8,000.00	11.04	193.32	7,916.49	-863.63	-204.54	863.63	0.00	0.00	0.00
8,100.00	11.04	193.32	8,014.63	-882.27	-208.95	882.27	0.00	0.00	0.00
8,200.00	11.04	193.32	8,112.78	-900.91	-213.37	900.91	0.00	0.00	0.00
8,289.88	11.04	193.32	8,201.00	-917.66	-217.34	917.66	0.00	0.00	0.00
Douglas Creek Member									
8,300.00	11.04	193.32	8,210.93	-919.55	-217.78	919.55	0.00	0.00	0.00
8,320.73	11.04	193.32	8,231.28	-923.41	-218.70	923.41	0.00	0.00	0.00

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Planning Report

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Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
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Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Nudge Drop> -1.50/100 MD									
8,400.00	9.86	193.32	8,309.23	-937.40	-222.01	937.40	1.50	-1.50	0.00
8,500.00	8.36	193.32	8,407.97	-952.80	-225.66	952.80	1.50	-1.50	0.00
8,600.00	6.86	193.32	8,507.08	-965.68	-228.71	965.68	1.50	-1.50	0.00
8,700.00	5.36	193.32	8,606.51	-976.03	-231.16	976.03	1.50	-1.50	0.00
8,700.09	5.36	193.32	8,606.61	-976.04	-231.16	976.04	0.00	0.00	0.00
B Limestone									
8,800.00	3.86	193.32	8,706.19	-983.84	-233.01	983.84	1.50	-1.50	0.00
8,849.97	3.11	193.32	8,756.06	-986.79	-233.71	986.79	1.50	-1.50	0.00
Lower Black Shale									
8,900.00	2.36	193.32	8,806.04	-989.11	-234.26	989.11	1.50	-1.50	0.00
8,984.82	1.08	193.32	8,890.82	-991.59	-234.84	991.59	1.50	-1.50	0.00
Castle Peak Limestone									
9,000.00	0.86	193.32	8,906.00	-991.84	-234.90	991.84	1.50	-1.50	0.00
9,057.01	0.00	0.00	8,963.00	-992.25	-235.00	992.25	1.50	-1.50	292.39
Nudge Vert. Pt.> 9057 MD- 8963 TVD									
9,100.00	0.00	0.00	9,005.99	-992.25	-235.00	992.25	0.00	0.00	0.00
9,127.79	0.00	0.00	9,033.79	-992.25	-235.00	992.25	0.00	0.00	0.00
CP_LIMES									
9,200.00	0.00	0.00	9,105.99	-992.25	-235.00	992.25	0.00	0.00	0.00
9,257.01	0.00	0.00	9,163.00	-992.25	-235.00	992.25	0.00	0.00	0.00
Curve KOP- Build> 11.00/100 MD									
9,274.78	1.96	179.75	9,180.77	-992.55	-235.00	992.55	11.00	11.00	0.00
Uteland Butte									
9,300.00	4.73	179.75	9,205.95	-994.02	-234.99	994.02	11.00	11.00	0.00
9,350.00	10.23	179.75	9,255.50	-1,000.53	-234.96	1,000.53	11.00	11.00	0.00
9,400.00	15.73	179.75	9,304.21	-1,011.76	-234.91	1,011.76	11.00	11.00	0.00
9,409.85	16.81	179.75	9,313.66	-1,014.51	-234.90	1,014.51	11.00	11.00	0.00
Wasatch									
9,450.00	21.23	179.75	9,351.61	-1,027.60	-234.85	1,027.60	11.00	11.00	0.00
9,500.00	26.73	179.75	9,397.28	-1,047.91	-234.76	1,047.91	11.00	11.00	0.00
9,550.00	32.23	179.75	9,440.79	-1,072.51	-234.65	1,072.51	11.00	11.00	0.00
9,566.11	34.00	179.75	9,454.28	-1,081.30	-234.61	1,081.30	11.00	11.00	0.00
Wasatch 10									
9,600.00	37.73	179.75	9,481.74	-1,101.16	-234.52	1,101.16	11.00	11.00	0.00
9,650.00	43.23	179.75	9,519.76	-1,133.60	-234.38	1,133.60	11.00	11.00	0.00
9,660.40	44.37	179.75	9,527.26	-1,140.80	-234.35	1,140.80	11.00	11.00	0.00
Wasatch 12									
9,700.00	48.73	179.75	9,554.49	-1,169.54	-234.23	1,169.54	11.00	11.00	0.00
9,750.00	54.23	179.75	9,585.62	-1,208.65	-234.06	1,208.65	11.00	11.00	0.00
9,800.00	59.73	179.75	9,612.85	-1,250.56	-233.87	1,250.56	11.00	11.00	0.00
9,850.00	65.23	179.75	9,635.95	-1,294.88	-233.68	1,294.88	11.00	11.00	0.00
9,859.88	66.32	179.75	9,640.00	-1,303.89	-233.64	1,303.89	11.00	11.00	0.00
Wasatch 15									
9,900.00	70.73	179.75	9,654.69	-1,341.21	-233.48	1,341.21	11.00	11.00	0.00
9,950.00	76.23	179.75	9,668.90	-1,389.13	-233.27	1,389.13	11.00	11.00	0.00
9,960.01	77.33	179.75	9,671.19	-1,398.88	-233.23	1,398.88	11.00	11.00	0.00
Wasatch 15 Limestone									
10,000.00	81.73	179.75	9,678.45	-1,438.19	-233.05	1,438.19	11.00	11.00	0.00
10,050.00	87.23	179.75	9,683.26	-1,487.94	-232.84	1,487.94	11.00	11.00	0.00

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Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,101.55	92.90	179.75	9,683.20	-1,539.47	-232.61	1,539.47	11.00	11.00	0.00
92.9° Angle-Tangent> 34 ft. at 10102 MD									
10,135.63	92.90	179.75	9,681.48	-1,573.50	-232.46	1,573.50	0.00	0.00	0.00
Landing Pt.> 10136 MD-9681 TVD									
10,200.00	92.90	179.75	9,678.22	-1,637.79	-232.18	1,637.79	0.00	0.00	0.00
10,300.00	92.90	179.75	9,673.16	-1,737.66	-231.75	1,737.66	0.00	0.00	0.00
10,400.00	92.90	179.75	9,668.10	-1,837.53	-231.31	1,837.53	0.00	0.00	0.00
10,500.00	92.90	179.75	9,663.05	-1,937.40	-230.88	1,937.40	0.00	0.00	0.00
10,600.00	92.90	179.75	9,657.99	-2,037.27	-230.44	2,037.27	0.00	0.00	0.00
10,700.00	92.90	179.75	9,652.93	-2,137.15	-230.00	2,137.15	0.00	0.00	0.00
10,800.00	92.90	179.75	9,647.87	-2,237.02	-229.57	2,237.02	0.00	0.00	0.00
10,900.00	92.90	179.75	9,642.81	-2,336.89	-229.13	2,336.89	0.00	0.00	0.00
11,000.00	92.90	179.75	9,637.75	-2,436.76	-228.70	2,436.76	0.00	0.00	0.00
11,100.00	92.90	179.75	9,632.69	-2,536.63	-228.26	2,536.63	0.00	0.00	0.00
11,200.00	92.90	179.75	9,627.63	-2,636.50	-227.83	2,636.50	0.00	0.00	0.00
11,300.00	92.90	179.75	9,622.57	-2,736.37	-227.39	2,736.37	0.00	0.00	0.00
11,400.00	92.90	179.75	9,617.51	-2,836.24	-226.95	2,836.24	0.00	0.00	0.00
11,500.00	92.90	179.75	9,612.45	-2,936.11	-226.52	2,936.11	0.00	0.00	0.00
11,600.00	92.90	179.75	9,607.39	-3,035.98	-226.08	3,035.98	0.00	0.00	0.00
11,700.00	92.90	179.75	9,602.33	-3,135.86	-225.65	3,135.86	0.00	0.00	0.00
11,800.00	92.90	179.75	9,597.27	-3,235.73	-225.21	3,235.73	0.00	0.00	0.00
11,900.00	92.90	179.75	9,592.22	-3,335.60	-224.78	3,335.60	0.00	0.00	0.00
12,000.00	92.90	179.75	9,587.16	-3,435.47	-224.34	3,435.47	0.00	0.00	0.00
12,100.00	92.90	179.75	9,582.10	-3,535.34	-223.90	3,535.34	0.00	0.00	0.00
12,200.00	92.90	179.75	9,577.04	-3,635.21	-223.47	3,635.21	0.00	0.00	0.00
12,300.00	92.90	179.75	9,571.98	-3,735.08	-223.03	3,735.08	0.00	0.00	0.00
12,400.00	92.90	179.75	9,566.92	-3,834.95	-222.60	3,834.95	0.00	0.00	0.00
12,500.00	92.90	179.75	9,561.86	-3,934.82	-222.16	3,934.82	0.00	0.00	0.00
12,600.00	92.90	179.75	9,556.80	-4,034.69	-221.72	4,034.69	0.00	0.00	0.00
12,700.00	92.90	179.75	9,551.74	-4,134.56	-221.29	4,134.56	0.00	0.00	0.00
12,800.00	92.90	179.75	9,546.68	-4,234.44	-220.85	4,234.44	0.00	0.00	0.00
12,900.00	92.90	179.75	9,541.62	-4,334.31	-220.42	4,334.31	0.00	0.00	0.00
13,000.00	92.90	179.75	9,536.56	-4,434.18	-219.98	4,434.18	0.00	0.00	0.00
13,100.00	92.90	179.75	9,531.50	-4,534.05	-219.55	4,534.05	0.00	0.00	0.00
13,200.00	92.90	179.75	9,526.44	-4,633.92	-219.11	4,633.92	0.00	0.00	0.00
13,300.00	92.90	179.75	9,521.38	-4,733.79	-218.67	4,733.79	0.00	0.00	0.00
13,400.00	92.90	179.75	9,516.33	-4,833.66	-218.24	4,833.66	0.00	0.00	0.00
13,500.00	92.90	179.75	9,511.27	-4,933.53	-217.80	4,933.53	0.00	0.00	0.00
13,600.00	92.90	179.75	9,506.21	-5,033.40	-217.37	5,033.40	0.00	0.00	0.00
13,700.00	92.90	179.75	9,501.15	-5,133.27	-216.93	5,133.27	0.00	0.00	0.00
13,800.00	92.90	179.75	9,496.09	-5,233.15	-216.50	5,233.15	0.00	0.00	0.00
13,900.00	92.90	179.75	9,491.03	-5,333.02	-216.06	5,333.02	0.00	0.00	0.00
14,000.00	92.90	179.75	9,485.97	-5,432.89	-215.62	5,432.89	0.00	0.00	0.00
14,087.02	92.90	179.75	9,481.57	-5,519.80	-215.24	5,519.80	0.00	0.00	0.00
TD-PBHL> 14087 MD- 9482 TVD									

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LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Sec. 11, T3S-R2W,	0.00	0.00	82.00	-897.14	4,363.14	7,260,825.61	2,040,321.53	40° 14' 38.590 N	110° 4' 2.340 W
- plan misses target center by 4454.42usft at 82.00usft MD (82.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			82.00	0.00	0.00	7,260,825.61	2,040,321.53		
Point 2			82.00	-5,275.85	20.62	7,255,550.75	2,040,425.72		
Point 3			82.00	-5,279.71	-1,320.32	7,255,525.65	2,039,085.01		
Point 4			82.00	-5,290.69	-5,277.20	7,255,451.98	2,035,128.80		
Point 5			82.00	-2,658.85	-5,290.82	7,258,083.28	2,035,073.49		
Point 6			82.00	-29.03	-5,309.07	7,260,712.48	2,035,013.58		
Point 7			82.00	-15.65	-2,647.94	7,260,768.01	2,037,674.17		
Point 8			82.00	0.00	0.00	7,260,825.61	2,040,321.53		
Sec. 11, T3S-R2W, 6(	0.00	0.00	82.00	-1,559.00	3,704.15	7,260,153.39	2,039,673.11	40° 14' 32.050 N	110° 4' 10.840 W
- plan misses target center by 4018.86usft at 82.00usft MD (82.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			82.00	0.00	0.00	7,260,153.39	2,039,673.11		
Point 2			82.00	-3,955.37	16.14	7,256,198.77	2,039,751.91		
Point 3			82.00	-3,956.81	-664.01	7,256,186.56	2,039,071.86		
Point 4			82.00	-3,965.51	-3,963.14	7,256,125.59	2,035,773.29		
Point 5			82.00	-1,991.37	-3,973.21	7,258,099.33	2,035,731.94		
Point 6			82.00	-22.29	-3,987.14	7,260,067.94	2,035,686.82		
Point 7			82.00	-12.23	-1,986.59	7,260,109.69	2,037,686.96		
Point 8			82.00	0.00	0.00	7,260,153.39	2,039,673.11		
Sec. 2, T3S-R2W, 66(	0.00	0.00	82.00	-239.52	3,700.86	7,261,472.65	2,039,648.91	40° 14' 45.090 N	110° 4' 10.880 W
- plan misses target center by 3708.60usft at 82.00usft MD (82.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			82.00	0.00	0.00	7,261,472.65	2,039,648.91		
Point 2			82.00	-12.23	-1,988.03	7,261,428.93	2,037,661.32		
Point 3			82.00	-22.29	-3,986.15	7,261,387.22	2,035,663.61		
Point 4			82.00	1,946.82	-3,987.68	7,263,356.05	2,035,630.88		
Point 5			82.00	3,260.23	-3,988.70	7,264,669.28	2,035,609.06		
Point 6			82.00	3,956.40	-3,989.29	7,265,365.36	2,035,597.44		
Point 7			82.00	3,956.32	-2,003.87	7,265,396.73	2,037,582.61		
Point 8			82.00	3,966.50	-22.35	7,265,438.30	2,039,563.72		
Point 9			82.00	0.00	0.00	7,261,472.65	2,039,648.91		
Sec. 2, T3S-R2W,	0.00	0.00	82.00	-897.14	4,363.14	7,260,825.61	2,040,321.53	40° 14' 38.590 N	110° 4' 2.340 W
- plan misses target center by 4454.42usft at 82.00usft MD (82.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			82.00	0.00	0.00	7,260,825.61	2,040,321.53		
Point 2			82.00	-15.65	-2,647.94	7,260,768.01	2,037,674.17		
Point 3			82.00	-29.03	-5,309.07	7,260,712.48	2,035,013.58		
Point 4			82.00	2,602.86	-5,311.06	7,263,344.01	2,034,969.90		
Point 5			82.00	3,915.26	-5,312.04	7,264,656.23	2,034,948.13		
Point 6			82.00	5,272.18	-5,313.11	7,266,012.96	2,034,925.56		
Point 7			82.00	5,272.37	-2,668.79	7,266,055.04	2,037,569.54		
Point 8			82.00	5,285.98	-29.94	7,266,110.45	2,040,207.85		
Point 9			82.00	0.00	0.00	7,260,825.61	2,040,321.53		
TD-PBHL (4-11-3-2W	0.00	0.00	9,482.00	-5,519.74	-216.78	7,256,131.04	2,035,815.41	40° 13' 52.910 N	110° 5' 1.405 W
- plan misses target center by 1.59usft at 14086.94usft MD (9481.57 TVD, -5519.71 N, -215.25 E)									
- Point									
TD - 660' FSL- 660' F\	0.00	0.00	9,482.00	-5,519.74	-266.78	7,256,130.24	2,035,765.41	40° 13' 52.910 N	110° 5' 2.050 W
- plan misses target center by 51.54usft at 14086.72usft MD (9481.58 TVD, -5519.49 N, -215.25 E)									
- Point									
Landing Pt. (4-11-3-2\	0.00	0.00	9,680.00	-1,573.45	-233.80	7,260,076.56	2,035,735.88	40° 14' 31.910 N	110° 5' 1.625 W

RECEIVED: Oct. 02, 2013

LEAM Drilling Systems LLC

Planning Report

LEAM Drilling Systems LLC

Database:	EDM 5000.1 Lynn Db	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Project:	DUCHESNE COUNTY, UT (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 62 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**North Reference:**	True
Well:	4-11-3-2WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	4-11-3-2WH		
Design:	4-11-3-2WH REV00		

- plan misses target center by 1.99usft at 10135.64usft MD (9681.48 TVD, -1573.52 N, -232.46 E)
- Point

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,162.44	4,150.00	Green River		0.00	179.75
6,159.43	6,110.00	Trona		0.00	179.75
6,223.62	6,173.00	Mahogany Bench		0.00	179.75
7,089.66	7,023.00	Garden Gulch Member		0.00	179.75
7,361.69	7,290.00	Garden Gulch Member-1		0.00	179.75
7,535.92	7,461.00	Garden Gulch Member-2		0.00	179.75
8,289.88	8,201.00	Douglas Creek Member		0.00	179.75
8,700.09	8,606.61	B Limestone		-2.90	179.75
8,849.97	8,756.06	Lower Black Shale		-2.90	179.75
8,984.82	8,890.82	Castle Peak Limestone		-2.90	179.75
9,127.79	9,033.79	CP_LIMES		-2.90	179.75
9,274.78	9,180.77	Uteland Butte		-2.90	179.75
9,409.85	9,313.66	Wasatch		-2.90	179.75
9,566.11	9,454.28	Wasatch 10		-2.90	179.75
9,660.40	9,527.26	Wasatch 12		-2.90	179.75
9,859.88	9,640.00	Wasatch 15		-2.90	179.75
9,960.01	9,671.19	Wasatch 15 Limestone		-2.90	179.75

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2,500.00	2,500.00	0.00	0.00	Tangent> 500 ft at 2500 MD
3,000.00	3,000.00	0.00	0.00	Nudge Build> 1.50/100 MD
3,736.27	3,731.72	-68.84	-16.30	EOB-Tangent> 4584.46 ft at 3736 MD
8,320.73	8,231.28	-923.41	-218.70	Nudge Drop> -1.50/100 MD
9,057.01	8,963.00	-992.25	-235.00	Nudge Vert. Pt.> 9057 MD- 8963 TVD
9,257.01	9,163.00	-992.25	-235.00	Curve KOP- Build> 11.00/100 MD
10,101.55	9,683.20	-1,539.47	-232.61	92.9° Angle-Tangent> 34 ft. at 10102 MD
10,135.63	9,681.48	-1,573.50	-232.46	Landing Pt.> 10136 MD-9681 TVD
14,087.02	9,481.57	-5,519.80	-215.24	TD-PBHL> 14087 MD- 9482 TVD

RECEIVED: Oct. 02, 2013

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pioneer rig 68
Submitted By RL Tatman Phone Number 970-361-3263
Well Name/Number State 4-11-3-2WH
Qtr/Qtr SW/SW Section 2 Township 3S Range 2W
Lease Serial Number FEE
API Number 43013519230000

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

Date/Time 11/8/2013 4:00 AM ☐ PM ☐

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

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

Date/Time 11/10/2013 8:00 AM ☐ PM ☐

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NOV 08 2013
DIV. OF OIL, GAS & MINING

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-51676

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: Oil Well

8. WELL NAME and NUMBER: State 4-11-3-2WH

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013519230000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052
PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0913 FSL 0945 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 02 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

- ☐ NOTICE OF INTENT — Approximate date work will start:
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ✓ SPUD REPORT — Date of Spud: 8/10/2013
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ 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.

Pete Martin Rig #16 spudded 26" hole on 08/09/2013 and drilled to 12' GL. Hole started falling in with cobble rocks from surface. Filled hole with 12.0 PPG fresh water mud on 08/10/2013. Finished drilling hole to 60' GL. Set 20", 52.78# (0.250" wall), SA53B conductor pipe at 60' GL and cemented to surface with Pro Petro Cementers on 08/10/2013. Cement Job: Pumped 10 bbls fresh water flush ahead of cement. Mixed and pumped 450 sacks (92 bbls) of Premium Class G Cement with 2% CaCl2, and 1/4 lb/sk flocele. Mixed cement @ 15.8 ppg with yield of 1.15 cf/sk. Displaced cement with 18 bbls fresh water. Finished pumping @ 21:30 PM on 08/10/2013. 10 bbls cement to surface. Shut in well after pumping stopped. Hole stood full after pumping stopped. Kylan Cook notified UDOGM and BLM by e-mail @ 18:45 PM on 08/08/2013 to spud conductor hole on 08/09/2013. Ready for surface rig.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
March 19, 2014

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Cherei Neilson	435 646-4883	Drilling Techinacian

SIGNATURE	DATE
N/A	3/18/2014

RECEIVED: Mar. 18, 2014

NEWFIELD

Casing

Conductor

Legal Well Name	Wellbore Name
State 4-11-3-2WH	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013519230000	SWSW 913FSL 945FWL Sec2 T3S R2W Mer U	UINTA CB-WASATCH HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500353246	Duchesne	Utah	10/8/2013 18:00	11/18/2013 05:00

Wellbore

Wellbore Name	Kick Off Depth (ftKB)
Original Hole	9,257

Section Des	Size (in)	Actual Top Depth (MD) (ftKB)	Actual Bottom Depth (MD) (ftKB)	Start Date	End Date
Conductor	26	20	80	8/9/2013	8/10/2013

Wellhead

Type	Install Date	Service	Comment

Wellhead Components

Des	Make	Model	SN	WP Top (psi)

Casing

Casing Description	Set Depth (ftKB)	Run Date	Set Tension (kips)
Conductor	80	8/10/2013	

Centralizers	Scratchers

Casing Components

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft•lb)	Class	Max OD (in)
Conductor Pipe	20	19.500	94.00	J-55	Welded	2	60.00	20.0	80.0			

Jewelry Details

External Casing Packer

Type	Setting Requirement	Release Requirements	Inflation Method	Vol Inflation (gal)	Equiv Hole Sz (in)

Inflation Fluid Type	Infl Fl Dens (lb/gal)	P AV Set (psi)	AV Acting Pressure (psi)	P ICV Set (psi)	P ICV Act (psi)	ECP Load (1000lbf)	Seal Load (1000lbf)

Slotted Liner

% Open Area (%)	Perforation Min Dimension (in)	Perforation Max Dimension (in)	Axial Perf Spacing (ft)	Perf Rows	Blank Top Length (ft)	Blank Bottom Length (ft)

Slot Description	Slot Pattern	Slot Length (in)	Slot Width (in)	Slot Frequency	Screen Gauge (ga)

Liner Hanger

Retrievable?	Elastomer Type	Element Center Depth (ft)	Polish Bore Size (in)	Polish Bore Length (ft)

Slip Description	Set Mechanics

Setting Procedure

Unsetting Procedure

RECEIVED: Mar. 18, 2014

NEWFIELD

Casing

Surface

Legal Well Name	Wellbore Name
State 4-11-3-2WH	Original Hole

API/UWI	Surface Legal Location	Field Name	Well Type	Well Configuration Type
43013519230000	SWSW 913FSL 945FWL Sec2 T3S R2W Mer U	UINTA CB-WASATCH HORZ	Development	Horizontal

Well RC	County	State/Province	Spud Date	Final Rig Release Date
500353246	Duchesne	Utah	10/8/2013 18:00	11/18/2013 05:00

Wellbore

Wellbore Name	Kick Off Depth (ftKB)
Original Hole	9,257

Section Des	Size (in)	Actual Top Depth (MD) (ftKB)	Actual Bottom Depth (MD) (ftKB)	Start Date	End Date
Conductor	26	20	80	8/9/2013	8/10/2013
Vertical	17 1/2	80	1,646	8/12/2013	8/14/2013

Wellhead

Type	Install Date	Service	Comment

Wellhead Components

Des	Make	Model	SN	WP Top (psi)

Casing

Casing Description	Set Depth (ftKB)	Run Date	Set Tension (kips)
Surface	1,627	8/16/2013	

Centralizers	Scratchers
12 centralizers spaced 10' from the shoe, on top of joints #2 & #3 then every 3rd collar to surface.	

Casing Components

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft•lb)	Class	Max OD (in)
Casing Joints	13 3/8	12.615	54.50	J-55	Buttress Thread	37	1,562.09	19.6	1,581.7			
Float Collar	13 3/8	12.615	54.50	J-55	Buttress Thread	1	1.50	1,581.7	1,583.2			
Casing Joints	13 3/8	12.615	54.50	J-55	Buttress Thread	1	42.82	1,583.2	1,626.0			
Guide Shoe	13 3/8	12.615	54.50	J-55	Buttress Thread	1	1.00	1,626.0	1,627.0			

Jewelry Details

External Casing Packer

Type	Setting Requirement	Release Requirements	Inflation Method	Vol Inflation (gal)	Equiv Hole Sz (in)

Inflation Fluid Type	Infl Fl Dens (lb/gal)	P AV Set (psi)	AV Acting Pressure (psi)	P ICV Set (psi)	P ICV Act (psi)	ECP Load (1000lbf)	Seal Load (1000lbf)

Slotted Liner

% Open Area (%)	Perforation Min Dimension (in)	Perforation Max Dimension (in)	Axial Perf Spacing (ft)	Perf Rows	Blank Top Length (ft)	Blank Bottom Length (ft)

Slot Description	Slot Pattern	Slot Length (in)	Slot Width (in)	Slot Frequency	Screen Gauge (ga)

Liner Hanger

Retrievable?	Elastomer Type	Element Center Depth (ft)	Polish Bore Size (in)	Polish Bore Length (ft)

Slip Description	Set Mechanics

Setting Procedure

Unsetting Procedure

RECEIVED: Mar. 18, 2014

API Well Number: 43013519230000

PBTVD 9473'
Prod top 772' FNL 716'FWL
Prod btm 731' FSL 716'FWL

Form 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. ML-51676

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 PRODUCTION COMPANY

8. Lease Name and Well No. STATE 4-11-3-2WH

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

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

9. API Well No. 43-013-51923

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

At surface: 913' FSL 945' FWL (SW/SW) SEC 2 T3S R2W

At top prod. interval reported below: 792' FNL 716' FWL (NW/NW) SEC 11 T3S R2W

At total depth: 517' FSL 799' FWL (SW/SW) SEC 11 T3S R2W

10. Field and Pool or Exploratory: WILDCAT

11. Sec., T., R., M., on Block and Survey or Area: SEC 2 T3S R2W Mer U

12. County or Parish: DUCHESNE

13. State: UT

14. Date Spudded: 08/09/2013

15. Date T.D. Reached: 11/18/2013

16. Date Completed: 12/16/2013 ☐ D & A ☑ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*: 5446' GL 5466'KB

18. Total Depth: MD 14195' TVD 9471'

19. Plug Back T.D.: MD 14151' TVD

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

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
19-1/2"	13-3/8" J-55	54.50	0'	1627'		1225 CLASS G			
12-5/8"	7" P-110	29.00	0'	8885'		790 Econocem		1530'	
						265 Bondcem			
6-1/8"	4-1/2" P-110	13.50	8572'	14196'		285Elastiseal			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-3/8"	9690'	XN@9642'						

25. Producing Intervals

Formation	Top	Bottom
A) WASATCH	10206'	13980'
B)		
C)		
D)		

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
10206' - 13980' MD	0.34	744	

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

Depth Interval	Amount and Type of Material
10206' - 13980' MD	Frac w/ 2912024#s of 30/50 white sand and 300304 CRC 30/50 Sand in 71107 bbls of Delta #20 fluid, in 20 stages.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
12/16/13	12/26/13	24	→	842	593	179			GAS LIFT

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

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.)*

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.

Formation	Top	Bottom	Descriptions, Contents, etc.

31. Formation (Log) Markers

Name	Top Meas. Depth
GARDEN GULCH	7053'
GARDEN GULCH 2	7496'
CASTLE PEAK	8967'
UTELAND BUTTE	9263'
WASATCH	9399'

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 Activity 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)* Heather Calder Title Regulatory Technician

Signature Heather Calder Date 01/14/2014

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)

RECEIVED: Jan. 14, 2014

Survey Report

Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
Project:	DUCHESNE COUNTY, UT (NAD 83)	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 68 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 68 (KB= 18'))
Well:	4-11-3-2WH	**North Reference:**	True
Wellbore:	4-11-3-2WH STATE	**Survey Calculation Method:**	Minimum Curvature
Design:	4-11-3-2WH STATE (Actual)	**Database:**	EDM 5000.1 Lynn Db

Project DUCHESNE COUNTY, UT (NAD 83),

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

Site CENTRAL BASIN (NAD 83)

Site Position:		**Northing:**	7,255,843.21 usft	**Latitude:**	40° 13' 50.461 N
From:	Map	**Easting:**	2,033,280.24 usft	**Longitude:**	110° 5' 34.149 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	20 "	**Grid Convergence:**	0.90 °

Well 4-11-3-2WH, Sec. 2,- Sec. 11, T3S-R2W,

Well Position	**+N/-S**	0.00 usft	**Northing:**	7,261,653.51 usfl	**Latitude:**	40° 14' 47.460 N
	+E/-W	0.00 usft	**Easting:**	2,035,944.72 usfl	**Longitude:**	110° 4' 58.610 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	5,446.00 usfl	**Ground Level:**	5,464.00 usfl

Wellbore 4-11-3-2WH STATE

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	BGGM2013	10/11/2013	11.14	65.88	52,063

Design 4-11-3-2WH STATE (Actual)

Audit Notes:

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

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.00	0.00	0.00	180.00

Survey Program **Date** 11/9/2013

From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
20.00	1,556.00	VES GYRO Surveys 0'- 1,556' MD (4-11-3	Gyroscope	Gyroscope
1,651.00	9,831.00	LEAM MWD Survey (1556' MD) 1,651'- 9,(	LEAM MWD-ADJ	MWD - Standard
9,849.00	14,195.00	Pathfinder MWD (9831)9849'-13,870'MD(T	MWD-ISCWSA	MWD - Standard

Survey

Measured Depth (usft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Vertical Section (usft)**	**Dogleg Rate (°/100usft)**	**Build Rate (°/100usft)**	**Turn Rate (°/100usft)**
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	0.08	52.10	120.00	0.04	0.06	-0.04	0.08	0.08	0.00
220.00	0.53	249.58	220.00	-0.07	-0.32	0.07	0.61	0.44	-162.53
320.00	0.60	266.14	319.99	-0.27	-1.26	0.27	0.18	0.07	16.57
420.00	0.87	269.75	419.99	-0.30	-2.54	0.30	0.28	0.27	3.61

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Survey Report

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Project:	DUCHESNE COUNTY, UT (NAD 83)	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 68 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 68 (KB= 18'))
Well:	4-11-3-2WH	**North Reference:**	True
Wellbore:	4-11-3-2WH STATE	**Survey Calculation Method:**	Minimum Curvature
Design:	4-11-3-2WH STATE (Actual)	**Database:**	EDM 5000.1 Lynn Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
520.00	1.16	254.80	519.97	-0.57	-4.28	0.57	0.39	0.29	-14.95
620.00	2.12	248.06	619.93	-1.53	-6.97	1.53	0.97	0.96	-6.74
720.00	3.01	251.07	719.83	-3.07	-11.17	3.07	0.90	0.89	3.00
820.00	3.14	260.93	819.68	-4.36	-16.36	4.36	0.54	0.13	9.86
920.00	2.66	259.89	919.56	-5.20	-21.35	5.20	0.48	-0.48	-1.04
1,020.00	3.08	261.39	1,019.43	-6.01	-26.29	6.01	0.43	0.43	1.50
1,120.00	3.13	261.15	1,119.28	-6.83	-31.65	6.83	0.05	0.05	-0.25
1,220.00	3.11	246.61	1,219.14	-8.33	-36.84	8.33	0.79	-0.02	-14.53
1,320.00	3.89	242.83	1,318.95	-10.95	-42.34	10.95	0.81	0.78	-3.78
1,420.00	3.64	242.72	1,418.73	-13.95	-48.18	13.95	0.25	-0.25	-0.11
1,520.00	3.98	235.75	1,518.51	-17.36	-53.86	17.36	0.57	0.34	-6.97
1,556.00	4.16	239.02	1,554.42	-18.73	-56.01	18.73	0.82	0.50	9.10
VES GYRO Surveys 0'- 1,556' MD									
1,651.00	4.60	231.60	1,649.15	-22.87	-61.95	22.87	0.76	0.47	-7.81
1,840.00	5.50	244.10	1,837.42	-31.54	-76.04	31.54	0.75	0.48	6.61
1,902.00	3.70	236.30	1,899.21	-33.94	-80.38	33.94	3.07	-2.90	-12.58
1,965.00	3.00	224.50	1,962.11	-36.25	-83.22	36.25	1.55	-1.11	-18.73
2,028.00	1.50	216.50	2,025.06	-38.09	-84.87	38.09	2.43	-2.38	-12.70
2,091.00	1.10	202.40	2,088.04	-39.31	-85.59	39.31	0.81	-0.63	-22.38
2,154.00	1.20	106.90	2,151.03	-40.06	-85.19	40.06	2.70	0.16	-151.59
2,217.00	1.40	90.90	2,214.02	-40.26	-83.79	40.26	0.65	0.32	-25.40
2,280.00	1.30	86.90	2,277.00	-40.24	-82.31	40.24	0.22	-0.16	-6.35
2,343.00	1.40	92.20	2,339.98	-40.23	-80.82	40.23	0.25	0.16	8.41
2,406.00	1.40	102.30	2,402.96	-40.42	-79.30	40.42	0.39	0.00	16.03
2,469.00	1.50	94.60	2,465.94	-40.65	-77.73	40.65	0.35	0.16	-12.22
2,532.00	1.40	110.70	2,528.92	-40.99	-76.19	40.99	0.66	-0.16	25.56
2,595.00	1.10	103.70	2,591.91	-41.40	-74.88	41.40	0.53	-0.48	-11.11
2,657.00	1.10	110.20	2,653.90	-41.75	-73.74	41.75	0.20	0.00	10.48
2,720.00	1.40	128.10	2,716.88	-42.43	-72.57	42.43	0.78	0.48	28.41
2,782.00	1.30	131.60	2,778.86	-43.37	-71.45	43.37	0.21	-0.16	5.65
2,845.00	1.60	131.90	2,841.84	-44.43	-70.26	44.43	0.48	0.48	0.48
2,907.00	1.40	128.00	2,903.82	-45.47	-69.02	45.47	0.36	-0.32	-6.29
2,970.00	1.60	118.40	2,966.80	-46.37	-67.64	46.37	0.51	0.32	-15.24
3,033.00	1.20	116.70	3,029.78	-47.08	-66.27	47.08	0.64	-0.63	-2.70
3,095.00	1.50	123.10	3,091.77	-47.82	-65.01	47.82	0.54	0.48	10.32
3,158.00	1.20	115.80	3,154.75	-48.55	-63.73	48.55	0.55	-0.48	-11.59
3,221.00	1.80	135.00	3,217.73	-49.54	-62.44	49.54	1.23	0.95	30.48
3,284.00	3.20	148.90	3,280.67	-51.75	-60.83	51.75	2.41	2.22	22.06
3,347.00	3.80	148.80	3,343.55	-55.04	-58.84	55.04	0.95	0.95	-0.16
3,410.00	4.30	153.90	3,406.39	-58.94	-56.72	58.94	0.98	0.79	8.10
3,472.00	5.40	155.80	3,468.17	-63.69	-54.50	63.69	1.79	1.77	3.06
3,535.00	6.70	160.50	3,530.82	-69.86	-52.06	69.86	2.21	2.06	7.46

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Well:	4-11-3-2WH	**North Reference:**	True
Wellbore:	4-11-3-2WH STATE	**Survey Calculation Method:**	Minimum Curvature
Design:	4-11-3-2WH STATE (Actual)	**Database:**	EDM 5000.1 Lynn Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,598.00	7.60	160.10	3,593.32	-77.24	-49.41	77.24	1.43	1.43	-0.63
3,661.00	8.30	163.00	3,655.72	-85.51	-46.66	85.51	1.28	1.11	4.60
3,724.00	8.80	170.30	3,718.02	-94.61	-44.52	94.61	1.90	0.79	11.59
3,786.00	9.60	178.10	3,779.22	-104.45	-43.55	104.45	2.39	1.29	12.58
3,849.00	10.70	185.00	3,841.24	-115.53	-43.89	115.53	2.60	1.75	10.95
3,911.00	11.00	185.30	3,902.13	-127.15	-44.94	127.15	0.49	0.48	0.48
3,974.00	10.90	185.70	3,963.98	-139.06	-46.08	139.06	0.20	-0.16	0.63
4,037.00	11.00	186.70	4,025.84	-150.96	-47.37	150.96	0.34	0.16	1.59
4,100.00	11.10	185.10	4,087.67	-162.97	-48.62	162.97	0.51	0.16	-2.54
4,163.00	11.20	184.60	4,149.48	-175.11	-49.65	175.11	0.22	0.16	-0.79
4,226.00	10.30	190.20	4,211.38	-186.75	-51.13	186.75	2.19	-1.43	8.89
4,289.00	9.60	189.60	4,273.43	-197.47	-53.01	197.47	1.12	-1.11	-0.95
4,351.00	10.20	191.60	4,334.51	-207.95	-54.97	207.95	1.12	0.97	3.23
4,414.00	10.30	192.10	4,396.50	-218.92	-57.28	218.92	0.21	0.16	0.79
4,476.00	10.00	192.00	4,457.53	-229.61	-59.56	229.61	0.48	-0.48	-0.16
4,539.00	9.80	192.20	4,519.59	-240.20	-61.83	240.20	0.32	-0.32	0.32
4,602.00	10.20	194.20	4,581.63	-250.84	-64.33	250.84	0.84	0.63	3.17
4,665.00	10.90	194.80	4,643.57	-262.01	-67.22	262.01	1.12	1.11	0.95
4,727.00	10.60	194.00	4,704.48	-273.21	-70.09	273.21	0.54	-0.48	-1.29
4,788.00	10.00	193.60	4,764.50	-283.80	-72.70	283.80	0.99	-0.98	-0.66
4,851.00	10.60	194.50	4,826.48	-294.73	-75.43	294.73	0.99	0.95	1.43
4,914.00	10.40	194.20	4,888.43	-305.85	-78.28	305.85	0.33	-0.32	-0.48
4,977.00	9.60	194.40	4,950.47	-316.45	-80.98	316.45	1.27	-1.27	0.32
5,040.00	10.40	193.70	5,012.51	-327.07	-83.63	327.07	1.28	1.27	-1.11
5,102.00	10.40	193.90	5,073.49	-337.94	-86.30	337.94	0.06	0.00	0.32
5,165.00	9.70	194.60	5,135.53	-348.59	-89.01	348.59	1.13	-1.11	1.11
5,228.00	10.50	192.70	5,197.55	-359.33	-91.61	359.33	1.38	1.27	-3.02
5,291.00	10.10	193.80	5,259.53	-370.29	-94.19	370.29	0.71	-0.63	1.75
5,353.00	9.20	192.30	5,320.66	-380.41	-96.54	380.41	1.51	-1.45	-2.42
5,416.00	9.80	192.20	5,382.79	-390.58	-98.75	390.58	0.95	0.95	-0.16
5,479.00	9.30	189.40	5,444.92	-400.84	-100.71	400.84	1.08	-0.79	-4.44
5,542.00	10.50	192.40	5,506.98	-411.47	-102.78	411.47	2.07	1.90	4.76
5,605.00	10.90	191.10	5,568.88	-422.92	-105.15	422.92	0.74	0.63	-2.06
5,668.00	10.30	187.80	5,630.81	-434.35	-107.07	434.35	1.35	-0.95	-5.24
5,731.00	10.10	192.80	5,692.82	-445.31	-109.05	445.31	1.44	-0.32	7.94
5,793.00	9.60	195.30	5,753.90	-455.60	-111.62	455.60	1.06	-0.81	4.03
5,856.00	9.50	195.70	5,816.03	-465.67	-114.42	465.67	0.19	-0.16	0.63
5,919.00	9.90	190.60	5,878.13	-476.00	-116.82	476.00	1.50	0.63	-8.10
5,981.00	10.70	188.60	5,939.13	-486.93	-118.66	486.93	1.41	1.29	-3.23
6,044.00	10.80	191.10	6,001.02	-498.51	-120.67	498.51	0.76	0.16	3.97
6,107.00	10.50	187.80	6,062.94	-509.99	-122.59	509.99	1.08	-0.48	-5.24
6,170.00	9.20	185.30	6,125.01	-520.69	-123.83	520.69	2.17	-2.06	-3.97

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Design:	4-11-3-2WH STATE (Actual)	**Database:**	EDM 5000.1 Lynn Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,232.00	9.90	186.70	6,186.15	-530.92	-124.91	530.92	1.19	1.13	2.26
6,295.00	10.30	186.60	6,248.17	-541.89	-126.19	541.89	0.64	0.63	-0.16
6,358.00	10.50	193.90	6,310.14	-553.06	-128.22	553.06	2.11	0.32	11.59
6,421.00	10.60	193.90	6,372.08	-564.26	-130.99	564.26	0.16	0.16	0.00
6,483.00	11.60	192.50	6,432.92	-575.88	-133.71	575.88	1.67	1.61	-2.26
6,547.00	11.30	191.00	6,495.64	-588.31	-136.30	588.31	0.66	-0.47	-2.34
6,609.00	10.60	193.60	6,556.51	-599.82	-138.80	599.82	1.38	-1.13	4.19
6,671.00	10.20	194.40	6,617.49	-610.68	-141.50	610.68	0.69	-0.65	1.29
6,735.00	10.20	192.90	6,680.48	-621.69	-144.18	621.69	0.42	0.00	-2.34
6,797.00	10.70	193.30	6,741.46	-632.64	-146.73	632.64	0.81	0.81	0.65
6,860.00	11.00	193.70	6,803.33	-644.18	-149.49	644.18	0.49	0.48	0.63
6,923.00	10.80	192.70	6,865.19	-655.77	-152.22	655.77	0.44	-0.32	-1.59
6,986.00	11.10	197.50	6,927.05	-667.31	-155.34	667.31	1.52	0.48	7.62
7,049.00	10.30	198.60	6,988.95	-678.44	-158.96	678.44	1.31	-1.27	1.75
7,111.00	10.90	196.70	7,049.89	-689.31	-162.41	689.31	1.12	0.97	-3.06
7,174.00	10.70	194.80	7,111.78	-700.66	-165.62	700.66	0.65	-0.32	-3.02
7,237.00	11.10	195.60	7,173.64	-712.16	-168.74	712.16	0.68	0.63	1.27
7,299.00	11.10	195.70	7,234.48	-723.65	-171.96	723.65	0.03	0.00	0.16
7,362.00	10.90	198.10	7,296.32	-735.15	-175.45	735.15	0.79	-0.32	3.81
7,425.00	10.40	198.30	7,358.24	-746.21	-179.09	746.21	0.80	-0.79	0.32
7,488.00	10.90	197.60	7,420.15	-757.29	-182.67	757.29	0.82	0.79	-1.11
7,551.00	10.90	195.10	7,482.02	-768.72	-186.03	768.72	0.75	0.00	-3.97
7,613.00	10.50	196.00	7,542.94	-779.81	-189.11	779.81	0.70	-0.65	1.45
7,676.00	11.30	195.40	7,604.80	-791.28	-192.33	791.28	1.28	1.27	-0.95
7,739.00	11.20	196.30	7,666.59	-803.10	-195.69	803.10	0.32	-0.16	1.43
7,802.00	10.70	197.00	7,728.44	-814.57	-199.12	814.57	0.82	-0.79	1.11
7,864.00	10.20	197.70	7,789.41	-825.30	-202.47	825.30	0.83	-0.81	1.13
7,928.00	10.40	196.20	7,852.38	-836.25	-205.80	836.25	0.52	0.31	-2.34
7,991.00	10.50	195.90	7,914.34	-847.23	-208.96	847.23	0.18	0.16	-0.48
8,054.00	10.90	196.60	7,976.24	-858.46	-212.24	858.46	0.67	0.63	1.11
8,116.00	10.70	197.30	8,037.14	-869.57	-215.62	869.57	0.39	-0.32	1.13
8,179.00	10.50	199.00	8,099.07	-880.58	-219.23	880.58	0.59	-0.32	2.70
8,242.00	10.20	199.00	8,161.04	-891.28	-222.92	891.28	0.48	-0.48	0.00
8,305.00	10.10	198.30	8,223.06	-901.80	-226.47	901.80	0.25	-0.16	-1.11
8,368.00	9.70	199.10	8,285.12	-912.06	-229.94	912.06	0.67	-0.63	1.27
8,431.00	9.50	200.10	8,347.24	-921.96	-233.46	921.96	0.41	-0.32	1.59
8,493.00	9.10	201.10	8,408.42	-931.34	-236.98	931.34	0.70	-0.65	1.61
8,556.00	9.10	203.40	8,470.63	-940.56	-240.76	940.56	0.58	0.00	3.65
8,619.00	9.10	193.90	8,532.84	-949.97	-243.93	949.97	2.38	0.00	-15.08
8,681.00	8.30	184.10	8,594.13	-959.19	-245.43	959.19	2.71	-1.29	-15.81
8,744.00	6.50	176.30	8,656.60	-967.29	-245.52	967.29	3.27	-2.86	-12.38

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Survey Report

Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
Project:	DUCHESNE COUNTY, UT (NAD 83)	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 68 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 68 (KB= 18'))
Well:	4-11-3-2WH	**North Reference:**	True
Wellbore:	4-11-3-2WH STATE	**Survey Calculation Method:**	Minimum Curvature
Design:	4-11-3-2WH STATE (Actual)	**Database:**	EDM 5000.1 Lynn Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,807.00	5.80	178.00	8,719.24	-974.03	-245.18	974.03	1.15	-1.11	2.70
8,843.00	5.90	177.60	8,755.05	-977.69	-245.04	977.69	0.30	0.28	-1.11
8,893.00	5.50	179.30	8,804.81	-982.66	-244.91	982.66	0.87	-0.80	3.40
8,895.00	5.42	179.44	8,806.80	-982.85	-244.90	982.85	4.22	-4.17	6.87
9-5/8" Casing (8895' MD)									
8,956.00	2.90	187.40	8,867.63	-987.26	-245.07	987.26	4.22	-4.13	13.05
9,019.00	2.60	187.40	8,930.56	-990.26	-245.46	990.26	0.48	-0.48	0.00
9,081.00	2.30	182.20	8,992.50	-992.89	-245.69	992.89	0.60	-0.48	-8.39
9,144.00	2.40	185.70	9,055.45	-995.47	-245.87	995.47	0.28	0.16	5.56
9,207.00	2.60	182.20	9,118.39	-998.21	-246.06	998.21	0.40	0.32	-5.56
9,239.00	5.20	171.70	9,150.31	-1,000.37	-245.88	1,000.37	8.39	8.13	-32.81
9,270.00	7.90	163.50	9,181.11	-1,003.80	-245.07	1,003.80	9.20	8.71	-26.45
9,302.00	9.60	169.30	9,212.74	-1,008.53	-243.95	1,008.53	5.98	5.31	18.13
9,330.00	12.00	174.00	9,240.24	-1,013.72	-243.21	1,013.72	9.12	8.57	16.79
9,365.00	14.40	176.60	9,274.31	-1,021.69	-242.57	1,021.69	7.06	6.86	7.43
9,394.00	16.10	176.00	9,302.29	-1,029.30	-242.08	1,029.30	5.89	5.86	-2.07
9,428.00	19.60	177.50	9,334.65	-1,039.70	-241.50	1,039.70	10.38	10.29	4.41
9,457.00	22.90	179.90	9,361.67	-1,050.21	-241.28	1,050.21	11.77	11.38	8.28
9,491.00	28.50	181.60	9,392.30	-1,064.94	-241.49	1,064.94	16.61	16.47	5.00
9,518.00	33.40	181.50	9,415.45	-1,078.82	-241.87	1,078.82	18.15	18.15	-0.37
9,552.00	38.30	180.50	9,443.00	-1,098.72	-242.20	1,098.72	14.51	14.41	-2.94
9,581.00	40.40	179.10	9,465.42	-1,117.11	-242.13	1,117.11	7.86	7.24	-4.83
9,614.00	43.60	178.70	9,489.94	-1,139.18	-241.71	1,139.18	9.73	9.70	-1.21
9,644.00	46.90	177.40	9,511.06	-1,160.47	-240.98	1,160.47	11.42	11.00	-4.33
9,677.00	50.10	176.80	9,532.92	-1,185.15	-239.72	1,185.15	9.79	9.70	-1.82
9,706.00	54.10	177.90	9,550.74	-1,208.01	-238.67	1,208.01	14.11	13.79	3.79
9,740.00	58.10	179.20	9,569.70	-1,236.21	-237.97	1,236.21	12.18	11.76	3.82
9,769.00	60.60	180.10	9,584.48	-1,261.16	-237.82	1,261.16	9.02	8.62	3.10
9,802.00	64.80	180.80	9,599.61	-1,290.47	-238.05	1,290.47	12.87	12.73	2.12
9,831.00	67.10	180.30	9,611.43	-1,316.95	-238.30	1,316.95	8.09	7.93	-1.72
LEAM MWD Surveys (1556') 1,651'- 9,831' MD - LEAM MWD - 9831' MD									
9,849.00	68.68	180.65	9,618.20	-1,333.63	-238.44	1,333.63	8.96	8.78	1.94
9,883.00	72.81	180.19	9,629.41	-1,365.72	-238.67	1,365.72	12.21	12.15	-1.35
9,912.00	75.18	179.80	9,637.41	-1,393.59	-238.67	1,393.59	8.27	8.17	-1.34
9,945.00	78.79	178.94	9,644.84	-1,425.74	-238.32	1,425.74	11.23	10.94	-2.61
9,975.00	80.99	178.19	9,650.11	-1,455.26	-237.58	1,455.26	7.74	7.33	-2.50
10,008.00	82.92	178.22	9,654.72	-1,487.92	-236.55	1,487.92	5.85	5.85	0.09
10,036.00	84.15	177.91	9,657.88	-1,515.72	-235.61	1,515.72	4.53	4.39	-1.11
10,071.00	86.61	177.69	9,660.70	-1,550.58	-234.27	1,550.58	7.06	7.03	-0.63
10,100.00	87.76	178.16	9,662.12	-1,579.53	-233.23	1,579.53	4.28	3.97	1.62
10,163.00	87.85	177.79	9,664.53	-1,642.44	-231.00	1,642.44	0.60	0.14	-0.59
10,197.00	88.46	178.15	9,665.63	-1,676.40	-229.80	1,676.40	2.08	1.79	1.06

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Survey Report

Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
Project:	DUCHESNE COUNTY, UT (NAD 83)	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 68 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 68 (KB= 18'))
Well:	4-11-3-2WH	**North Reference:**	True
Wellbore:	4-11-3-2WH STATE	**Survey Calculation Method:**	Minimum Curvature
Design:	4-11-3-2WH STATE (Actual)	**Database:**	EDM 5000.1 Lynn Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,226.00	88.37	178.32	9,666.43	-1,705.38	-228.90	1,705.38	0.66	-0.31	0.59
10,259.00	88.46	178.99	9,667.34	-1,738.35	-228.13	1,738.35	2.05	0.27	2.03
10,288.00	88.11	178.13	9,668.21	-1,767.33	-227.40	1,767.33	3.20	-1.21	-2.97
10,351.00	89.25	178.82	9,669.66	-1,830.29	-225.73	1,830.29	2.12	1.81	1.10
10,414.00	91.10	178.56	9,669.47	-1,893.27	-224.28	1,893.27	2.97	2.94	-0.41
10,477.00	91.89	179.11	9,667.83	-1,956.24	-223.00	1,956.24	1.53	1.25	0.87
10,539.00	93.56	181.07	9,664.88	-2,018.16	-223.10	2,018.16	4.15	2.69	3.16
10,602.00	92.07	181.25	9,661.78	-2,081.07	-224.37	2,081.07	2.38	-2.37	0.29
10,664.00	90.57	179.79	9,660.36	-2,143.05	-224.94	2,143.05	3.38	-2.42	-2.35
10,727.00	89.87	179.83	9,660.11	-2,206.05	-224.73	2,206.05	1.11	-1.11	0.06
10,790.00	89.25	178.62	9,660.60	-2,269.04	-223.88	2,269.04	2.16	-0.98	-1.92
10,853.00	91.80	177.54	9,660.02	-2,331.99	-221.77	2,331.99	4.40	4.05	-1.71
10,916.00	92.15	177.08	9,657.85	-2,394.89	-218.81	2,394.89	0.92	0.56	-0.73
10,978.00	92.15	176.99	9,655.52	-2,456.76	-215.61	2,456.76	0.15	0.00	-0.15
11,041.00	92.42	176.56	9,653.01	-2,519.61	-212.06	2,519.61	0.81	0.43	-0.68
11,105.00	92.95	178.51	9,650.01	-2,583.48	-209.32	2,583.48	3.15	0.83	3.05
11,167.00	94.09	179.89	9,646.21	-2,645.35	-208.45	2,645.35	2.88	1.84	2.23
11,231.00	93.30	176.94	9,642.08	-2,709.19	-206.68	2,709.19	4.76	-1.23	-4.61
11,294.00	93.74	177.04	9,638.21	-2,771.98	-203.38	2,771.98	0.72	0.70	0.16
11,356.00	95.14	179.04	9,633.41	-2,833.75	-201.27	2,833.75	3.93	2.26	3.23
11,419.00	95.50	179.80	9,627.57	-2,896.48	-200.63	2,896.48	1.33	0.57	1.21
11,482.00	95.32	179.59	9,621.63	-2,959.20	-200.30	2,959.20	0.44	-0.29	-0.33
11,545.00	95.76	181.09	9,615.55	-3,021.90	-200.67	3,021.90	2.47	0.70	2.38
11,609.00	96.02	180.37	9,608.98	-3,085.56	-201.48	3,085.56	1.19	0.41	-1.13
11,672.00	94.70	181.12	9,603.10	-3,148.27	-202.30	3,148.27	2.41	-2.10	1.19
11,735.00	93.03	183.63	9,598.85	-3,211.07	-204.90	3,211.07	4.78	-2.65	3.98
11,798.00	93.21	184.43	9,595.42	-3,273.82	-209.32	3,273.82	1.30	0.29	1.27
11,860.00	93.65	185.28	9,591.71	-3,335.49	-214.56	3,335.49	1.54	0.71	1.37
11,923.00	93.47	186.46	9,587.80	-3,398.03	-220.99	3,398.03	1.89	-0.29	1.87
11,985.00	95.06	188.16	9,583.19	-3,459.36	-228.86	3,459.36	3.75	2.56	2.74
12,048.00	92.95	185.33	9,578.79	-3,521.76	-236.24	3,521.76	5.59	-3.35	-4.49
12,082.00	92.15	186.38	9,577.27	-3,555.54	-239.70	3,555.54	3.88	-2.35	3.09
12,111.00	93.83	188.42	9,575.76	-3,584.26	-243.43	3,584.26	9.11	5.79	7.03
12,174.00	95.41	188.80	9,570.69	-3,646.35	-252.83	3,646.35	2.58	2.51	0.60
12,237.00	92.86	185.16	9,566.14	-3,708.70	-260.46	3,708.70	7.04	-4.05	-5.78
12,299.00	89.60	180.52	9,564.81	-3,770.59	-263.53	3,770.59	9.14	-5.26	-7.48
12,362.00	89.43	176.63	9,565.34	-3,833.55	-261.96	3,833.55	6.18	-0.27	-6.17
12,426.00	91.63	175.10	9,564.75	-3,897.38	-257.35	3,897.38	4.19	3.44	-2.39
12,488.00	92.42	174.03	9,562.56	-3,959.06	-251.48	3,959.06	2.14	1.27	-1.73
12,551.00	92.33	172.90	9,559.95	-4,021.59	-244.32	4,021.59	1.80	-0.14	-1.79
12,614.00	92.15	173.27	9,557.49	-4,084.09	-236.74	4,084.09	0.65	-0.29	0.59
12,677.00	92.42	173.11	9,554.98	-4,146.59	-229.27	4,146.59	0.50	0.43	-0.25

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Survey Report

Company:	NEWFIELD EXPLORATION ROCKY MOUNTAINS	**Local Co-ordinate Reference:**	Well 4-11-3-2WH
Project:	DUCHESNE COUNTY, UT (NAD 83)	**TVD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 68 (KB= 18'))
Site:	CENTRAL BASIN (NAD 83)	**MD Reference:**	WELL(5446'+18'= 5464' MSL) @ 5464.00usft (Pioneer 68 (KB= 18'))
Well:	4-11-3-2WH	**North Reference:**	True
Wellbore:	4-11-3-2WH STATE	**Survey Calculation Method:**	Minimum Curvature
Design:	4-11-3-2WH STATE (Actual)	**Database:**	EDM 5000.1 Lynn Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,740.00	92.42	172.96	9,552.32	-4,209.07	-221.64	4,209.07	0.24	0.00	-0.24
12,803.00	94.18	174.74	9,548.69	-4,271.60	-214.90	4,271.60	3.97	2.79	2.83
12,866.00	93.30	175.09	9,544.58	-4,334.22	-209.33	4,334.22	1.50	-1.40	0.56
12,929.00	92.68	174.10	9,541.29	-4,396.85	-203.40	4,396.85	1.85	-0.98	-1.57
12,992.00	94.00	175.75	9,537.62	-4,459.50	-197.84	4,459.50	3.35	2.10	2.62
13,055.00	93.91	176.62	9,533.28	-4,522.21	-193.66	4,522.21	1.39	-0.14	1.38
13,118.00	93.91	177.10	9,528.98	-4,584.96	-190.22	4,584.96	0.76	0.00	0.76
13,181.00	93.91	177.01	9,524.69	-4,647.74	-186.99	4,647.74	0.14	0.00	-0.14
13,244.00	93.47	177.17	9,520.63	-4,710.52	-183.79	4,710.52	0.74	-0.70	0.25
13,306.00	93.83	177.44	9,516.69	-4,772.33	-180.89	4,772.33	0.73	0.58	0.44
13,370.00	92.77	177.00	9,513.00	-4,836.15	-177.79	4,836.15	1.79	-1.66	-0.69
13,432.00	91.45	175.42	9,510.72	-4,897.97	-173.69	4,897.97	3.32	-2.13	-2.55
13,495.00	92.42	177.21	9,508.59	-4,960.80	-169.64	4,960.80	3.23	1.54	2.84
13,558.00	92.07	177.09	9,506.12	-5,023.67	-166.51	5,023.67	0.59	-0.56	-0.19
13,620.00	92.51	176.46	9,503.65	-5,085.52	-163.03	5,085.52	1.24	0.71	-1.02
13,683.00	93.47	178.95	9,500.36	-5,148.38	-160.51	5,148.38	4.23	1.52	3.95
13,746.00	93.74	178.32	9,496.40	-5,211.24	-159.01	5,211.24	1.09	0.43	-1.00
13,808.00	94.00	178.25	9,492.21	-5,273.07	-157.16	5,273.07	0.43	0.42	-0.11
13,870.00	93.12	178.31	9,488.36	-5,334.92	-155.30	5,334.92	1.42	-1.42	0.10
Pathfinder MWD 9849'- 13870' MD									
14,195.00	93.12	178.31	9,470.67	-5,659.30	-145.73	5,659.30	0.00	0.00	0.00
Projected to T.D.= 14195' MD- 9470.67' TVD									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
8,895.00	8,806.80	9-5/8" Casing (8895' MD)	9-5/8	9-5/8

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,556.00	1,554.42	-18.73	-56.01	VES GYRO Surveys 0'- 1,556' MD
9,831.00	9,611.43	-1,316.95	-238.30	LEAM MWD Surveys (1556') 1,651'- 9,831' MD
9,831.00	9,611.43	-1,316.95	-238.30	LEAM MWD - 9831' MD
13,870.00	9,488.36	-5,334.92	-155.30	Pathfinder MWD 9849'- 13870' MD
14,195.00	9,470.67	-5,659.30	-145.73	Projected to T.D.= 14195' MD- 9470.67' TVD

Checked By: _____ Approved By: _____ Date: _____

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NEWFIELD

Summary Rig Activity

Well Name: State 4-11-3-2WH

Job Category	Job Start Date	Job End Date

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
11/21/2013	11/22/2013	NU BOP stack, prep loc for completion operatios.

Start Time	End Time	Comment
13:00	14:00	Blade location and set up office trailer
14:00	16:00	MIRU and NU 10K 11" x 7 1/16" tubing head prepped for 7" casing with dual, double 1 13/16" outlets. 10K 7 1/16" HCR valve and tested all as to Newfield's test procedures.
16:00	00:00	MIRU FMC and NU 10K 7 1/16"HCR valve (already installed on well head and tested) 10K 7 1/16" BOP's with shear rams and 2 3/8" pipe rams, with double valve choke/kill outlet, 10K 7 1/16" Flowcross with dual, double valved 2 1/16" outlets, 10K 7 1/16" Single pipe ram BOP with 2 3/8" pipe rams installed, 5K 7 1/16" Annular Hydrill bag, All tested as per Newfield's pressure testing Guidelines, 250 Psi low/10,000 Psi high.

Report Start Date	Report End Date	24hr Activity Summary
11/22/2013	11/23/2013	NU BOP stack, prep loc for completion operatios.

Start Time	End Time	Comment
00:00	04:00	Continue to NU and test 10K 7 1/16" BOP's with shear rams and 2 3/8" pipe rams, with double valve choke/kill outlet, 10K 7 1/16" Flowcross with dual, double valved 2 1/16" outlets, 10K 7 1/16" Single pipe ram BOP with 2 3/8" pipe rams installed, 5K 7 1/16" Annular Hydrill bag, All tested as per Newfield's pressure testing Guidelines, 250 Psi low/10,000 Psi high.
04:00	06:00	Wait on daylight.
06:00	11:00	Prep location for frac tanks. Set frac tanks.
11:00	19:00	NU and test flow back equipment per Newfield flowback standard.
19:00	00:00	Hauling off oil base drilling mud from upright tanks on location for drilling rig. Continue location prep.

Report Start Date	Report End Date	24hr Activity Summary
11/23/2013	11/24/2013	prep loc for completion operatios. MIRU WOR Fish RBP.

Start Time	End Time	Comment
00:00	06:00	Hauling off oil base drilling mud from upright tanks on location for drilling rig. Continue location prep. Haul in brine and 3% KCL water and store in work tanks.
06:00	12:00	Haul mud tanks off location. Continue site prep.
12:00	22:00	MIRU Nabors Rig #1420. Move in 2 3/8" WS. Clean and drift WS. Spot in FB tanks.
22:00	00:00	PUMU BHA as follows: retrieving head, 2 7/8 EUE x 2 3/8 IF crossover (PxB), MBS 3 ¾ OD, Jars 3 ¾ OD, 2 3/8 IF x 2 3/8 PH-6 crossover, 10' 2 3/8 PH-6 pup jt, RN Nipple, 1 jt 2 3/8 PH-6 , R Nipple, tbg to surface.

Report Start Date	Report End Date	24hr Activity Summary
11/24/2013	11/25/2013	PUMU 2 3/8 PH-6 tbg and BHA and fish RBP

Start Time	End Time	Comment
00:00	06:00	PUMU 2 3/8 PH-6 workstring and BHA to retreive RBP from 7" casing.

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Summary Rig Activity

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Start Time	End Time	Comment
06:00	06:30	Pre-tour safety meeting.
06:30	09:30	PU 225 jts 2 3/8", 5.95#, P110, PH6 WS. Tie back on single line. Swivel up.
09:30	10:30	Break circulation with 25 bbl 3% KCl water. Engage RBP at 7,078'. Open equalizer, no pressure. Release RBP with 5 pts over string wt. Lay down power swivel.
10:30	17:00	LD 60 jts WS. Change to dbl line fast. Finish LD 167 jts 2 3/8" PH6 tbg, BHA, and RBP.
17:00	19:30	RD rig floor. Move out power swivel, pipe racks, and catwalk. Displace all lines and manifolds with brine. ND annular preventer.
19:30	00:00	MIRU JW/ WL, PUMU 6.125 gauge ring, Pressure test lubricator to 5,000 Psi , RIH to 0,000', POH w/same, PUMU Casing Inspection Log, and CBL tool, Pressure test lubricator 5,000 Psi,

Report Start Date	Report End Date	24hr Activity Summary
11/25/2013	11/26/2013	PUMU Casing Inspection Log, and CBL tool, Pressure test lubricator 5,000 Psi, RIH

Start Time	End Time	Comment
00:00	10:00	PUMU Casing Inspection Caliper Log, and CBL tool, Pressure test lubricator 5,000 Psi, RIH. Run 40 arm caliper, magnetic thickness tool, and CBL with 1500 psi on pipe. All tools recovered.RDMO WL trk.
10:00	12:00	RD MO WOR.
12:00	18:00	MIRU HES frac equipment.
18:00	23:30	Pressure test casing to 5,000 Psi for 5 mins, 50 Psi loss, Pump into well and went to 8,000 Psi, Pressure holding, Bled off pressure to 3,000 psi, run pressure up to 7,000 psi, held, walk up to 7,500 psi, held, walk up to 8,000 psi, held, Bled off pressure to 3,000 psi, run pressure up to 7,000 psi at 3.5 bpm, held, walked up to 8,000 psi, holding10 mins. Bled off pressure to 3,000 psi, run pressure up to 7,000 psi at 8.5 bpm, held, walked up to 8,000 psi, holding15 mins. Holding, Called in and told to take to 8,500 psi, Run up to 7,000 psi at 5.5 bpm, held, walked to 8,000 psi, held, walked up to 8,537 psi, straight line drop to 4,400 psi, Pumped into toe at 5 bbls increments, to 15 bpm at 5,665 psi, called in and reported break, shut down Howco and install Oil State's isolation tool.
23:30	00:00	MIRU Oil State's isolation tool on well,

Report Start Date	Report End Date	24hr Activity Summary
11/26/2013	11/27/2013	Frac well, 20 stage job

Start Time	End Time	Comment
00:00	12:00	MIRU Oil State's isolation tool on well, NU and test HES and flow back lines. RU WL trk.
12:00	19:00	Waiting KCl slurry to be loaded into transfer tanks. We will have a minimum of 1000 bbls in frac tanks before pumping down Stage #1.
19:00	21:00	Picking up guns and pump down and perf stage #1, Perf's13,978'-80', 13,926-28', 13,864-66', No plug on stage #1 guns.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
21:00	00:00	Perforate Stage #1 with NO PLUG as follows: Three 1.5' x 2 7/8" 6spf, 60 degree phase w/ 16gram Titan EXP guns. Well pressure: 3942psi. RIH to marker joint w/13.5' correction, RIH to liner top w/0.5' correction. Pump rate 3-6-9-12-15bpm@5860psi. Top line speed@191fps and 1076 tension through lateral. Lost weight @ 14,000' and could not pull free. Called office and decided to bleed well back from 7200psi to 3800psi through adjustable choke, broke free at 3800psi and pulled to shot depths of 13,978-79.5, 13,926-27.5 and 13,864-65.5. All shots fired, POOH. Total water used 350bbls.

Report Start Date	Report End Date	24hr Activity Summary
11/27/2013	11/28/2013	

Start Time	End Time	Comment
00:00	01:00	POOH wireline with CCL/guns. All tools recovered and shots fired. Close WHIT.
01:00	04:00	Wait on fluid to to heated and transfered to working frac tanks from transfer tanks.
04:00	06:30	Frac stage 1. No pressure issues. All flush pumped as designed
06:30	09:30	RIH and pump down plug at 9.7 bpm, 1100# tens, 201 ft/min, and max pressure 5570 psi. Line tension 1600 before setting plug/1480 after set. 44 seconds to set. Set Halliburton 4 ½" 10K Obsidian plug w/ Baker 10 setting tool and slow burning charges at 13,848'. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 13,805'-07', 13736'-38', and 13,684'-86'. POOH.
09:30	12:00	Treatment summary for Stage #2 as follows: PJSM. Test lines to 9900 psi Globals set to 8800 psi. Initial pressure - 4200 psi.. Max pressure 8265 psi, Min pressure 5840 psi, Avg pressure 7290 psi. Max rate 61 bpm, Avg rate 55 bpm. HHP 9845. ISDP- 4980 psi, 1-Min SIP 4760 psi, 4-Min SIP 4685 psi 15-Min SIP n/a, Gradient .933. Total Proppant- 149,840 lbs, Total Volume 3467 bbls, Recoverable load 3065 bbls. Pumpdown Volume- 277 bbls. Total Cost 47,093.709.
12:00	14:30	Stage #3 RIH and pump down plug at 9.7 bpm, 1100# tens, 201 ft/min, and max pressure 5570 psi. Line tension 1600 before setting plug/1480 after set. 44 seconds to set. Set Halliburton 4 ½" 10K Obsidian plug w/ Baker 10 setting tool and slow burning charges at 13,848'. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 13,805'-07', 13736'-38', and 13,684'-86'. POOH.
14:30	16:00	Treatment summary for Stage #3 as follows: PJSM. Test lines to 9900 psi Globals set to 8800 psi. Initial pressure - 4250 psi.. Max pressure 8225 psi, Min pressure 6190 psi, Avg pressure 7265 psi. Max rate 61 bpm, Avg rate 58 bpm. HHP 10,292. ISDP- 4835 psi, 1-Min SIP 4750 psi, 4-Min SIP 4625 psi 15-Min SIP n/a, Gradient .955. Total Proppant- 151,180 lbs, Total Volume 3416 bbls, Recoverable load 3022 bbls. Pumpdown Volume- 207 bbls. Total Cost 46,925.87.
16:00	18:30	Stage #4 RIH and pump down plug at 9.6 bpm, 1180# tens, 220 ft/min, and max pressure 5180 psi. Line tension 1771 before setting plug/1680 after set. 47 seconds to set. Set Halliburton 4 ½" 10K Obsidian plug w/ Baker 10 setting tool and slow burning charges at 13,452'. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 13,426'-427.5', 13378'-79.5', and 13,318'-19.5'. POOH.
18:30	20:00	Treatment summary for Stage #4 as follows: PJSM. Test lines to 9400 psi Globals set to 8800 psi. Initial pressure 4250 psi.. Max pressure 7691 psi, Min pressure 6440psi, Avg pressure 6927 psi. Max rate 59 bpm, Avg rate 55 bpm. HHP 9270. ISDP- 4937 psi, 1-Min SIP 5404 psi, 10-Min SIP 4452 psi 15-Min SIP 4416, Gradient .966. Total Proppant- 151,000. lbs, Total Volume 2867 bbls, Recoverable load 3256 bbls. Pumpdown Volume- 175 bbls. Total Cost 47,171.39.

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Summary Rig Activity

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Start Time	End Time	Comment
20:00	22:30	Stage #5 RIH and pump down plug at 9.9 bpm, 1233# tens, 230 ft/min, and max pressure 4970 psi. Line tension 1656 before setting plug/1556 after set. 35 seconds to set. Set Halliburton 4 ½" 10K Obsidian plug w/ Baker 10 setting tool and slow burning charges at 13,292'. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 13,282'- 83.5', 13,242'- 43.5', and 13,161'-62.5', POOH, All shots fired, all tools recovered , Ball dropped.
22:30	00:00	Treatment summary for Stage #5 as follows: PJSM. Test lines to 9400 psi Globals set to 8800 psi. Initial pressure - 4,260 psi.. Max pressure 7,917 psi, Min pressure 6,548 psi, Avg pressure 7,255 psi. Max rate 61 bpm, Avg rate 53 bpm. HHP 9,442. ISDP- 4,889 psi, 1-Min SIP 4,427 psi, 4-Min SIP 4,362 psi 15-Min SIP 4,363, Gradient ..961, Total Proppant- 149,700 lbs, Total Volume 2,975 bbls, Recoverable load 2,588 bbls. Pumpdown Volume- 176 bbls. Total Cost 47,213.16.

Report Start Date	Report End Date	24hr Activity Summary
11/28/2013	11/29/2013	Frac well, 20 stage job

Start Time	End Time	Comment
00:00	02:30	Stage #6 RIH and pump down plug at 9.6 bpm, 1180# tens, 220 ft/min, and max pressure 5180 psi. Line tension 1634 before setting plug/1535 after set. 1 min 26 seconds to set. Set Halliburton 4 ½" 10K Obsidian plug w/ Baker 10 setting tool and slow burning charges at 13,119. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 13,103'- 04.5', 13,030'- 31.5', and 12,951'- 52.5', POOH, All shots fired, all tools recovered , Ball dropped.
02:30	04:30	Treatment summary for Stage #6 as follows: PJSM. Test lines to 9400 psi Globals set to 8800 psi. Initial pressure - 4,325 psi.. Max pressure 7,454 psi, Min pressure 6,493 psi, Avg pressure 7,034 psi. Max rate 60 bpm, Avg rate 57 bpm. HHP 9,861. ISDP- 5,084 psi, 1-Min SIP 4,576 psi, 4-Min SIP 4,465 psi 15-Min SIP 4,413, Gradient .981, Total Proppant- 147,900 lbs, Total Volume 2,538 bbls, Recoverable load 2,922 bbls. Pumpdown Volume- 160 bbls. Total Cost 47,052.97.
04:30	06:30	Stage #7 RIH and pump down plug at 9.6 bpm, 1180# tens, 220 ft/min, and max pressure 5180 psi. Line tension 1771 before setting plug/1680 after set. 47 seconds to set. Set Halliburton 4 ½" 10K Obsidian plug w/ Baker 10 setting tool and slow burning charges at 13,133. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 13,103'- 04.5', 13,030'- 31.5', and 12,951'- 52.5', POOH, All shots fired, all tools recovered , Ball dropped.
06:30	08:30	Treatment summary for Stage #7 as follows: PJSM. Test lines to 9400 psi Globals set to 8800 psi. Initial pressure - 4,257 psi.. Max pressure 7,770 psi, Min pressure 6,060 psi, Avg pressure 7,025 psi. Max rate 61 bpm, Avg rate 58 bpm. HHP 9,935. ISDP- 5,315 psi, 1-Min SIP 4,743 psi, 4-Min SIP 4,619 psi Gradient ..961, Total Proppant- 155,000 lbs, Total Volume 2,560 bbls, Recoverable load 2,941 bbls. Pumpdown Volume- 176 bbls. Total Cost 45,944.22.
08:30	10:00	Stage #8 RIH and pump down plug at 9.7 bpm, 1170# tens, 220 ft/min, and max pressure 5050 psi. Line tension 1701 before setting plug/1590 after set. 50 seconds to set. Set Halliburton 4 ½" 10K Obsidian plug w/ Baker 10 setting tool and slow burning charges at 12,716'. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 12,676'- 77.5', 12,612'- 13.5', and 12,538'- 39.5', POOH, All shots fired, all tools recovered , Ball dropped.
10:00	12:00	Treatment summary for Stage #8 as follows: PJSM. Test lines to 9400 psi Globals set to 8800 psi. Initial pressure - 4,310 psi.. Max pressure 7,350 psi, Min pressure 5,765 psi, Avg pressure 6,830 psi. Max rate 60 bpm, Avg rate 60 bpm. HHP 9,994. ISDP- 4,825 psi, 1-Min SIP 4,755 psi, 4-Min SIP 4,610 psi Gradient ..954, Total Proppant- 149,400 lbs, Total Volume 2,484 bbls, Recoverable load 2,871 bbls. Pumpdown Volume- 148 bbls. Total Cost 44,481.24.

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Summary Rig Activity

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Start Time	End Time	Comment
12:00	13:30	Stage #9 RIH and pump down plug at 9.6 bpm, 1175# tens, 225 ft/min, and max pressure 5067 psi. Line tension 1770 before setting plug/1680 after set. Set Halliburton 4 ½" 10K Obsidian plug w/ Baker 10 setting tool and slow burning charges at 12,510'. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T (RDX) charges. Perfs at 12,496'- 97.5', 12,464'- 65.5', and 12,418'- 19.5', POOH, All shots fired, all tools recovered , Ball dropped
13:30	15:30	Treatment summary for Stage #9 as follows: PJSM. Test lines to 9400 psi Globals set to 8800 psi. Initial pressure - 4,325 psi.. Max pressure 8,235 psi, Min pressure 6,075 psi, Avg pressure 6,945 psi. Max rate 61 bpm, Avg rate 59 bpm. HHP 10,111. ISDP- 4,840 psi, 1-Min SIP 4,760 psi, 4-Min SIP 4,630 psi Gradient .936, Total Proppant- 158,500 lbs, Total Volume 2,536 bbls, Recoverable load 2,919 bbls. Pumpdown Volume- 383 bbls. Total Cost 48,016.10.
15:30	17:30	Stage #10 RIH and pump down plug at 9.7 bpm, 1175# tens, 220 ft/min, and max pressure 5335 psi. Line tension 1698 before setting plug/1585 after set. Set Halliburton 4 ½" 10K Obsidian plug w/ Baker 10 setting tool and slow burning charges at 12,388'. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 12,346'- 47.5', 12,304'- 05.5', and 12,222'- 23.5', POOH, All shots fired, all tools recovered , Ball dropped.
17:30	20:00	Treatment summary for Stage #11 as follows: PJSM. Test lines to 9400 psi Globals set to 8800 psi. Initial pressure- 4,325 psi.. Max pressure 8,235 psi, Min pressure 6,075 psi, Avg pressure 6,945 psi. Max rate 61 bpm, Avg rate 59 bpm. HHP 10,111. ISDP- 4,840 psi, 1-Min SIP 4,760 psi, 4-Min SIP 4,630 psi Gradient .936, Total Proppant- 158,500 lbs, Total Volume 2,536 bbls, Recoverable load 2,919 bbls. Pump down Volume- 383 bbls. Total Cost 48,016.10.
20:00	22:00	Stage #11 RIH and pump down plug at 9.5 bpm, 1136# tens, 175 ft/min, and max pressure 5435 psi. Line tension 1670 before setting plug/1570 after set. Set Halliburton 4 ½" 10K Obsidian plug w/ Baker 10 setting tool and slow burning charges at 12,185'. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 12,154'- 55.5', 12,106'- 07.5', and 12,030'- 31.5', POOH, All shots fired, all tools recovered , Ball dropped.
22:00	00:00	Treatment summary for Stage #11 as follows: PJSM. Test lines to 9400 psi Globals set to 8800 psi. Initial pressure- 4,247 psi.. Max pressure 8,033 psi, Min pressure 6,616 psi, Avg pressure 7,523 psi. Max rate 59 bpm, Avg rate 45 bpm. HHP 8,224. ISDP- 4,946 psi, 5-Min SIP 4,551 psi, 10-Min SIP 4,489 psi, 15-Min SIP 4,460 psi, Gradient .966, Total Proppant- 155,700 lbs, Total Volume 2,563 bbls, Recoverable load 2,943 bbls. Pump down Volume- 155 bbls. Total Cost 46,432.76.

Report Start Date	Report End Date	24hr Activity Summary
11/29/2013	11/30/2013	Frac well, 20 stage job

Start Time	End Time	Comment
00:00	03:00	Stage #12 RIH and pump down plug at 9.5 bpm, 1059# tens, 222 ft/min, and max pressure 4960 psi. Line tension 1721 before setting plug/1652 after set. Set Halliburton 4 ½" 10K Obsidian plug w/ Baker 10 setting tool and slow burning charges at 12,016'. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 11,983'- 84.5', 11,916'- 17.5', and 11,848'- 49.5', POOH, All shots fired, all tools recovered , Ball dropped.
03:00	05:00	Treatment summary for Stage #12 as follows: PJSM. Test lines to 9400 psi Globals set to 8800 psi. Initial pressure- 4,285 psi.. Max pressure 7,971 psi, Min pressure 6,768 psi, Avg pressure 7,376 psi. Max rate 62 bpm, Avg rate 49 bpm. HHP 8,931. ISDP- 5,165 psi, 1-Min SIP 4,864 psi, 4-Min SIP 4,819 psi Gradient .956, Total Proppant- 147,200 lbs, Total Volume 2,468 bbls, Recoverable load 2,860 bbls. Pump down Volume- 362 bbls. Total Cost 44,811.19.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
05:00	07:00	Stage 13 - RIH and pump down plug at 9.4 bpm. 1050 line tension, 180 ft/min, and 5400 psi. at 11,100' plug stuck.
07:00	15:00	Work plug free. POOH with WL tools. Found plug was not on tools. Setting tool had not stroked, but had sheared pins. All perf guns and setting tool recovered. Pump 20 bbl gel sweep and 603.5 bbl water. Avg rate 23.5 bpm, Avg press 8170 psi. Rehead WL. PU 3.63" x 1.0' pump down sub, 2.75" x 5' sinker bar, 2.75" x 1.96' CCL, 2-2.75" x 5' sinker bars, .79" x 2.0' top sub(ttl length 19.00'). RIH and pump down to 11,126' WL measurement. Tag plug. Rate 11.3 bpm, line speed 30 ft/min, line tension 900, pressure 6550 psi. POOH. All tools recovered.
15:00	20:00	RD WL trk and lubricator. ND HES lines. ND isolation tool.
20:00	22:30	Wait on Cudd Coil tubing unit to arrive.
22:30	00:00	MIRU Cudd Coil Tubing unit.

Report Start Date	Report End Date	24hr Activity Summary
11/30/2013	12/1/2013	MIRU Cudd coil tbg unit, C/O to 11,840', RU howco and continue frac job

Start Time	End Time	Comment
00:00	06:00	MIRU Cudd coil tbg unit.
06:00	11:00	Test CTU BOP stack per Newfield standards.
11:00	13:30	PU & MU 2 7/8" OD x .563" ID x 3.55' coil connector and motor head assembly with hydraulic disconnect. Pull test to 25K. Pressure test tools to 3,000 psi. OK. PU 2 7/8" x 1.0" ID x 6.80' jars, 2 7/8" OD x .50" ID x 2.27' disconnect, 2 7/8" OD x 1.125" ID x .60' ported sub, 2 7/8" OD x 1.250" ID x 10.53' motor, and 3.750" OD x 1.250" ID x 1.6' concave inserted mill.
13:30	15:00	Test stripper, dual bpv on BHA, and shell test riser on flow back.
15:00	00:00	RIH with coil tbg. 80 fpm, 5500 psi on pmp. WH 4200 on 13/64 choke. Pump rate 1 bpm, 1 bpm returns. At 8,000' increase pump rate to 2 bpm/2bpm out on 14/64" choke. Pump pressure5500 psi, WH 4200 psi, 70 ft/min. Decreas to 30 fpm at 8550', enter TOL at 8572'. Continue in hole with coil tbg and BHA. Tagged plug at 11,148', drilled out plug in 22 mins, Continue in hole with coil tbg and BHA. Tagged plug at 11,148', drilled out plug in 22 mins, Pump 20 bbl sweep at 11,840', Pumping at 31/2 bpm in/31/2 bpm out 4,100 Psi returns, 4,400 Psi on pump, Pump sweep with 40 bbl spacer, Short trip coil while sweep hits end of tbg, Start out of hole with coil, sweeping while POH, Samples showing no sand after #2 sweep, Out of hole with coil tbg.

Report Start Date	Report End Date	24hr Activity Summary
12/1/2013	12/2/2013	L/D BHA, RIH W/Plug&guns, Set plug,perf,POH W/L, RDMO Cudd, MIRU frac equip, Frac well

Start Time	End Time	Comment
00:00	04:00	Lay down 2 7/8" OD x .563" ID x 3.55' coil connector and motor head assembly with hydraulic disconnect. Pull test to 25 K. Pressure test tools to 3,000 psi. OK. PU 2 7/8" x 1.0" ID x 6.80' jars, 2 7/8" OD x .50" ID x 2.27' disconnect, 2 7/8" OD x 1.125" ID x .60' ported sub, 2 7/8" OD x 1.250" ID x 10.53' motor, and 3.750" OD x 1.250" ID x 1.6' concave inserted mill. All tools recovered, Blow coil tbg dry, RD of Cudd's lubricator and BOP and stand back on side of well, RD cudd's craine, and pump truck,
04:00	13:00	MIRU JW wireline unit . RU HES lines. NU and test lines and lubricator. RIH to 9995', 75 fpm. 6200 psi, 6 bpm. Line tension 900. Stuck plug at 9995'. Worked attempting to get plug loose. Set plug at 9995'. Line tens 1770/1475. POOH. No grit or sand on setting tool. RD WL trk.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
13:00	19:00	Spot in Cudd CTU equipment. JSA and safety meeting. RU CTU. Shell test bop stack to 250 psi and 10,000 psi, OK. PU 2 7/8" x 1.0" ID x 6.80' jars, 2 7/8" OD x .50" ID x 2.27' disconnect, 2 7/8" OD x 1.125" ID x .60' ported sub, 2 7/8" OD x 1.250" ID x 10.53' motor, and 3.750" OD x 1.250" ID x 1.6' concave inserted mill. Function test motor on surface, OK. NU stripper. Test stripper and dual back pressure valves to 250 psi and 10, 000 psi, OK.
19:00	00:00	SICP 4,100 Psi, Open well, energize flowback lines and start in hole with Cudd's 2" coil tbg, 2 7/8" x 1.0" ID x 6.80' jars, 2 7/8" OD x .50" ID x 2.27' disconnect, 2 7/8" OD x 1.125" ID x .60' ported sub, 2 7/8" OD x 1.250" ID x 10.53' motor, and 3.750" OD x 1.250" ID x 1.6' concave inserted mill. Tagged plug at 10,022' (CTM), drilled out plug in 10 mins, Pumped 10 bbl sweep, Chasing plug to 12, 016', Continue in hole and tagged up at 11,850' and drilled on plug reminisces from other two plugs, Milled thru and begin to wash down to plug at 12,016' (WLM) and tagged at 12,026' (CTM) pumped 10 bbl sweep, short trip to 11,850', trip to 12,026' pump 10 bbl sweep, short trip gain and pump 10 bbl sweep, Pumping at 31/2 bpm in and 31/2 bpm out, holding positive pressure on well bore, Start out of hole with tbg and continue to pumps sweeps while coming out of hole.

Report Start Date	Report End Date	24hr Activity Summary
12/2/2013	12/3/2013	L/D BHA, RIH W/Plug&guns, Set plug,perf,POH W/L, RDMO Cudd, MIRU frac equip, Frac well

Start Time	End Time	Comment
00:00	05:00	continue to pumps sweeps while coming out of hole. Shut in well, SICP 4,150 Psi. Lay down 2 7/8" OD x .563" ID x 3.55' coil connector and motor head assembly with hydraulic disconnect. Pull test to 25K. Pressure test tools to 3,000 psi. OK. PU 2 7/8" x 1.0" ID x 6.80' jars, 2 7/8" OD x .50" ID x 2.27' disconnect, 2 7/8" OD x 1.125" ID x .60' ported sub, 2 7/8" OD x 1.250" ID x 10.53' motor, and 3.750" OD x 1.250" ID x 1.6' concave inserted mill. All tools recovered, Blow coil tbg dry,
05:00	08:00	RD of Cudd's lubricator and BOP and stand back on side of well, RD Cudd's crane and pump truck,
08:00	10:00	PJSM. Test lines to 9,400psi Equalize and open HCR. Injection test and wellbore flush. Opening pressure- 3,623psi, start injection with linear gel rates- 25.0bpm @ 7,474psi for 100bbls. Stop linear sweep go to friction reducer with additives, rates 27.5bpm @ 7,400psi, 32.6bpm @ 7,755bpm, 34.4bpm @7,963psi with final injection of 38.1bpm @ 8,366psi. Total volume pumped- 875 bbls.
10:00	11:30	RU JW Wireline onto BOP stack. Re-head wireline before RIH. Halliburton 4 ½" 10K Obsidian plug w/ Baker 10 setting tool and slow burning charges, 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T (RDX) charges.
11:30	14:30	Wireline BHA stuck @ 10,680' T.O.P. @ 10,715.' RIH 9400' 3bpm @ 4,300psi with 130fpm/1290 tension. 10,000' 8.1 @ 6,100psi with 126fpm/1150 tension. 10,300' 8.1bpm @ 6,300psi with 80fpm/1180 tension. At 10,680' the line speed ran away. No extra rate or rapid build in pressure was made before depth of 10,680.' Verified tool communication and seems to be normal. Could not pull free, established a 3.0bpm rate and pressure built to 7,000psi with no tension change.
14:30	19:00	Wireline stuck depth of 10,680.' Wellhead pressure- 4,200psi. Bled down pressure with adjustable choke slowly, BHA came free at around 3,800psi, pulled up to 7" casing with well flowing @ 2.0bpm. POOH with wireline. Wireline at surface with no Halliburton 10k Obsidian plug in BHA but Baker 10 sleeve and rest of BHA recovered. RDMO JW Wireline off BOP stack.

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Start Time	End Time	Comment
19:00	00:00	Spot in Cudd CTU equipment. JSA and safety meeting. PU & MU 2 7/8" OD x .563" ID x 3.55' coil connector and motor head assembly with hydraulic disconnect. Pull test to 25K. Shell test stack to 250 psi and 10,000 psi, OK. PU 2 7/8" x 1.0" ID x 6.80' jars, 2 7/8" OD x .50" ID x 2.27' disconnect, 2 7/8" OD x 1.125" ID x .60' ported sub, 2 7/8" OD x 1.250" ID x 10.53' motor, and 3.750" OD x 1.250" ID x 1.6' concave inserted mill. Function test motor on surface, OK. NU stripper. Test stripper and dual back pressure valves to 250 psi and 10,000 psi, OK. Open well, energize flowback lines and start in hole with Cudd's 2" coil tbg, 2 7/8" x 1.0" ID x 6.80' jars, 2 7/8" OD x .50" ID x 2.27' disconnect, 2 7/8" OD x 1.125" ID x .60' ported sub, 2 7/8" OD x 1.250" ID x 10.53' motor, and 3.750" OD x 1.250" ID x 1.6' concave inserted mill.

Report Start Date	Report End Date	24hr Activity Summary
12/3/2013	12/4/2013	L/D BHA, RIH W/Plug&guns, Set plug,perf,POH W/L, RDMO Cudd, MIRU frac equip, Frac well

Start Time	End Time	Comment
00:00	06:30	SICP 4,100 Psi, RIH with tbg, 30 fpm in 41/2", tag plug at10,737' (CTM) 10,680' (WLM), PU CT increase pump rate to 3.25 bpm at 6,500 psi, WH 3,700 Psi, start drilling on plug, stalling out, PU CT 80', start down tag and stall out, PU CT and plug following up hole total of (279') 10,458', able to tag and drill on plug, drilled on plug 40 mins, plug gave way and chased plug to 12,016', No issues chasing plug to 12,016'. pumped 10 bbl sweep, short trip 200', pumped 10 bbl sweep, short trip 200', pumped 10 bbl sweep, pump rate to 3.25 bpm at 6,500 psi, WH 3,800 Psi, Start out of hole with CT at 20 fpm in 4 ½" and 50 fpm in 7", pumping 10 bbl sweeps while coming out of hole.
06:30	08:30	Coil depth 2,000' @ under 50 ft/min. Rates- tbg 3.25 bpm, chk 3.25 bpm.
08:30	11:00	Lay down 2 7/8" OD x .563" ID x 3.55' coil connector and motor head assembly with hydraulic disconnect. 2 7/8" x 1.0" ID x 6.80' jars, 2 7/8" OD x .50" ID x 2.27' disconnect, 2 7/8" OD x 1.125" ID x .60' ported sub, 2 7/8" OD x 1.250" ID x 10.53' motor, and 3.750" OD x 1.250" ID x 1.6' concave inserted mill. All tools recovered, Blow coil tbg dry, RD of Cudd's lubricator and BOP and stand back on side of well, RD Cudd's crane and pump truck.
11:00	12:00	RU Halliburton 1002 4" Quad port wireline/frac head with adapter spool on 7 1/16 10k BOP stack. PJSM with Halliburton before injection test/well flush. Pressure test treating line to 9,500psi. Max pressure for pump 9,000psi.
12:00	13:00	Injection and Wellbore Flush: SICP- 3,922psi. 26.6 bpm @ 8,234psi. 31.5 bpm @ 8,644 with 260bbls away 15cp linear. 31.6 bpm @ 9,030psi w/ 357bbls away. 28.2 bpm @ 8,942psi. 33.7 bpm @ 9,000psi crosslink start 523bbls away. 35.8 bpm @ 8,972psi w/714bbls away. 37.0 bpm @ 8,921psi w/880bbls away. Final Injection- 9.6bpm @ 6,200psi. Total Volume- 1,250bbls
13:00	20:00	JW Wireline RU for dummy plug to 11,830.' BHA as follows: Plug HES 2' Length x 3.62" OD, Baker 10 Sleeve 6.0' Length x 2.75" OD, Quick Change 0.25' Length x 3.13" OD, Weight Bar 5.0' Length x 2.75" OD, CCL 1.96' Length x 2.75" OD, Weight Bar 5.0' Length x 2.75" OD, Weight Bar 5.0' Length x 2.75" OD, Top Sub 0.79' Length x 2.00" OD. Total Length 27.5' and total weight 503lbs.
20:00	00:00	Stage #13 RIH and pump down plug at 9.5 bpm, 1,123 L/T, 170 ft/min, and max pressure 6,067 psi. Line tension 2,165 before setting plug/2,070 after set. Set Weatherford 4 ½" 10K plug w/ Baker 10 setting tool and slow burning charges at 11,838'. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T (RDX) charges. Perfs at 11,806'- 07.5', 11,746'- 47.5', and 11,665'- 66.5', POOH, All shots fired, all tools recovered, RDMO JW Wireline unit,

Report Start Date	Report End Date	24hr Activity Summary
12/4/2013	12/5/2013	RDMO Cudd, MIRU frac equip, Frac well

Start Time	End Time	Comment
00:00	05:00	RDMO JW wireline, Cudd coil tbg unit, Wait on stinger and spot Halliburton frac equipment,

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Summary Rig Activity

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Start Time	End Time	Comment
05:00	09:00	Halliburton will be leaving yard in daylight conditions. Roads are noted to be very bad at this point, expecting delays throughout the morning and possible day. Oil States spot and RU isolation tool on 7 1/16" 10k Knight stack.
09:00	14:00	Oil States International has stung in well with 4,300psi, installing their frac head and will test per NFX guidelines. Hot oilers are continuing to heat transfer tanks. Torque and pressure test isolation tool as per Newfield guidelines.
14:00	17:00	Halliburton trying to get equipment ready for downhole. Cold weather delaying progress.
17:00	19:00	Stage #13 as follows: PJSM. Test lines to 9400 psi Globals set to 8800 psi. Initial pressure- 4,120 psi.. Max pressure 8,435 psi, Min pressure 6,245 psi, Avg pressure 7,540 psi. Max rate 55 bpm, Avg rate 49 bpm. HHP 9,111, ISDP- 5,300 psi, 5-Min SIP 4,755 psi, 10-Min SIP 4,585 psi Gradient 1.004, Total Proppant- 153,700 lbs, Total Volume 6,189 bbls, Recoverable load 6,554 bbls. Pump down Volume- 140 bbls. Total Cost 45,458.59.
19:00	22:00	MUPU wireline's lubricator, make up guns and setting tool, rehead rope socket, before going in to P&P stage #14.
22:00	00:00	Testing lubricator and goat head, having problems getting a test on all equipment.

Report Start Date	Report End Date	24hr Activity Summary
12/5/2013	12/6/2013	P&P frac stages

Start Time	End Time	Comment
00:00	06:30	Continue trying to get stack and lubricator tested, Continues to have leak on Oil States goat head on the same cap, tried heating seals up before putting in head, Heating water to have to pump and heat up stack, Stacked tarped and heaters on, Oil States checking on another head if needed, Stack leaked in three different places, down to only one at present. Stacked tested good earlier in day.
06:30	12:00	Adler Hot Oil on location to pull on a load of water for steaming the wellhead. Isolation tool covered and heater line ran underneath. Heavy brine tank has currently 200bbls, loads will be brought to top off and heat to 100+ degrees. Steam master valves and flow line off isolation tool. Tank valves on heavy brine tank are frozen, manifold to hot oiler also frozen, continue to try to establish flow to heat. Opened top master valve with line going into flowback, established flow through iron, close flowback, tested to 5,000psi, open wellhead and pressure dropped to SICP. RU JW Wireline to RIH.
12:00	16:00	Wireline approx. 6,000' in hole our pack off on top of lubricator could not establish a good seal from the cold weather. We will have to POOH and change grease and make sure the grease pump unit is ready to continue on. We will pump another brine cap in well and continue to keep pumping side from freezing until ready.
16:00	19:00	Stage #14 RIH and pump down plug at 8.5 bpm, 1120# tens, 190 ft/min, and max pressure 6,150psi psi. Line tension 1291 before setting plug/702 after set. Set Weatherford4 ½" 10K frac plug w/ Baker 10 setting tool and slow burning charges at 11,648'. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 11,598'- 99.5', 11,520'- 21.5', and 11,471'- 72.5', POOH, All shots fired, all tools recovered , Ball dropped.
19:00	20:00	Started frac stage #14, Had to shut down stage due to water lines from tanks to manifold on supply tanks frozen.
20:00	00:00	Changing out frozen hoses on water supply tanks and water manifold, Working on getting water to frac row.

Report Start Date	Report End Date	24hr Activity Summary
12/6/2013	12/7/2013	Frac Stage #14 and P & P #15

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Summary Rig Activity

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Start Time	End Time	Comment
00:00	02:30	Changing out frozen hoses on water supply tanks and water manifold, Working on getting water to frac row. Pumping water to frac row.
02:30	06:30	Weatherford's FracGuard Series plugs (CBP-45-FRAC10K-PD-SEG1) Stage #15 RIH and pump down plug at 9.7 bpm, 1180# tens, 170 ft/min, and max pressure 5,350psi psi. Line tension 1328 before setting plug/1230 after set w/ 20sec. Set Weatherford's FracGuard series 4 ½" 10K frac plug w/ Baker 10 setting tool and slow burning charges at 11,445'. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 11,410'- 11.5', 11,340'- 41.5', and 11,169'- 70.5', POOH, All shots fired, all tools recovered , Ball dropped.
06:30	07:30	Stage #14 as follows: PJSM. Test lines to 9400 psi Globals set to 8800 psi. Initial pressure- 4,055 psi.. Max pressure 8,643 psi, Min pressure 6,818 psi, Avg pressure 7,638 psi. Max rate 60 bpm, Avg rate 51 bpm. HHP 9,529. ISDP- 5,769 psi, 5-Min SIP 4,461 psi, 10-Min SIP 4,408 psi Gradient 1.054, Total Proppant- 152,460 lbs, Total Volume 6,190 bbls, Recoverable load 6,190 bbls. Pump down Volume- 184 bbls. Total Cost 42,866.72.
07:30	15:00	Due to very cold weather several trucking companies have been delayed. Location is short on heavy brine which two loads have been ordered, also KCl slurry with water trucks due to arrive.
15:00	18:00	Started transferring heated frac water through Rockwater manifold.
18:00	19:30	Stage #15 as follows: PJSM. Test lines to 9400 psi Globals set to 8800 psi. Initial pressure- 4,080 psi.. Max pressure 8,735 psi, Min pressure 6,947 psi, Avg pressure 7,642 psi. Max rate 49 bpm, Avg rate 47 bpm. HHP 9,149. ISDP- 5,960 psi, 5-Min SIP 4,675 psi, 10-Min SIP 4,521 psi Gradient 1.074, Total Proppant- 142,730 lbs, Total Volume 2,511 bbls, Recoverable load 2,868 bbls. Pump down Volume- 86 bbls. Total Cost 42,010.31. 1. Global Kick Outs set at 8800 psi. Pressure tested to 9400 psi. Job pumped with 3% KCl w/ Produced water. 2. Calculated 15 holes open, 968 psi perf friction, 1190 psi NWB as per Fracpro. 3. Saw good washing at perfs when acid reached bottom. Able to work rate up to 48bpm during xlink pad. 4. Had good pressure relief when sand reached bottom. 5. Pressure increased during the 6ppg CRC stage, cut prop and went to flush. 6. Had to work rate down to 42bpm during flush to line out pressure but were able to flush well completely.
19:30	23:00	Weatherford's FracGuard Series plugs (CBP-45-FRAC10K-PD-SEG1) Stage #16 RIH and pump down plug at 8.7 bpm, 1220# tens, 88 ft/min, and max pressure 6,820 max psi. Line tension 1405 before setting plug/1315 after set w/ 22sec. Set Weatherford's FracGuard series 4 ½" 10K frac plug w/ Baker 10 setting tool and slow burning charges at 11,123'. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 11,030'- 31.5', 10,906'- 07.5', and 10,819'- 20.5', POOH, All shots fired, all tools recovered , Ball dropped.
23:00	00:00	Wait on frac water. Water pump from staging pad's water line frozen, Unable to get required amount of trucks to haul water.

Report Start Date	Report End Date	24hr Activity Summary
12/7/2013	12/8/2013	Equipment issues

Start Time	End Time	Comment
00:00	01:00	Wait on frac water. Water pump from staging pad's water line frozen, Unable to get required amount of trucks to haul water. 4,500 bbls in frac row, and heating more.

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Summary Rig Activity

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Start Time	End Time	Comment
01:00	13:00	Halliburton's growler down, Working to get it fixed. 5,900 bbls water heated, treated& ready,1,200 treated being heated, all KCL needed in tanks, 350 bbls brine in tank, more trucks lined out to be here hauling today.
13:00	20:00	Caterpillar mechanic arrived to look at Halliburton equipment down. Water for transfer pad has four tanks left to fill before twenty-seven useable tanks full. Hot oilers are heating brine and water continually. Once starting down hole the load caused the Halliburton unit to drop power, a back-up unit was tested in the yard, due to head towards location at 16:45.
20:00	23:00	Try to frac stage #16, Figured 50% or less of holes are open. After pumping two stages of acid, Still unable to get rate for frac, Called and talked with Eric and decided to reshot and perforate zone, Having JW Wireline get ring to run on guns for pump down, Pump down guns if we can get down and pass first two sets of holes, May be unable to pump pass first perforations at 10,819' with guns.
23:00	00:00	PUMU guns and pump down ring on guns, Take off setting tool and frac plug, RIH with guns and pump down ring only.

Report Start Date	Report End Date	24hr Activity Summary
12/8/2013	12/9/2013	Unsuccessful frac of Stage #16, flowback and P & P Stage #17

Start Time	End Time	Comment
00:00	05:30	Try to frac stage #16, Figured 50% or less of holes is open. After pumping two stages of acid, still unable to get rate for frac, called and talked with Eric and decided to reshoot and perforate zone, , Pump down guns if we can get down and pass first two sets of holes, May be unable to pump pass first perforations at 10,819' with guns. 23:00 – 00:00 Take off setting tool and frac plug, replace with pump down dummy plug and weight bar, RIH to reshoot stage #16 perf's. Stage #16 Added Perfs RIH and pump down dummy plug at 15.2 bpm, 950# tens, 44 ft/min, and max pressure 7,860 max psi. 460 bbls RW used for pump downPerforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 10,806'- 07.5', and 10810,'- 11.5', POOH, All shots fired, all tools recovered. Perforating depths and cluster amounts were approved by Eric Romberg
05:30	08:30	Halliburton had some chemical pumps frozen before going downhole, once ready we pressure tested to 9,400psi. Stg #16 Attempt: Reached 30.0bpm before step-down. Started with 0.75lb/gal concentration, as sand hit perfs pressure climbed to max, dropped rate and achieved 8,800 @ 3.2bpm. Dropped pumps, pressure dropped to 7,800psi tried to establish rate again with pressure climbing to max again. Approx 4,500lbs in formation, 8,100lbs in casing and 64bbls of flush.
08:30	11:30	Flowback well through adjustable choke. SICP- 6,300psi. Wellbore Volume- 350bbls. Flowed @ 5.0bpm with 2,500psi through 30/64 choke. Volume recovered 660bbls with clean samples taken.
11:30	12:30	Injection Test: At 195bbls away we seen the ball re-seat and achieved 33.3bpm @ 8,440psi for the duration. Dropped to 12.0bpm @ 6,522psi. All looked well and finished with 625 bbls total pumped.
12:30	15:30	Weatherford's FracGuard Series plugs (CBP-45-FRAC10K-PD-SEG1) Stage #17 SICP- 4231 RIH and pump down plug at 9.0 bpm, 1200# tens, 170 ft/min, and max pressure 6,750psi psi. Line tension 1463 before setting plug/1630 after set w/ 20sec and 3.0bpm held while set. Set Weatherford's FracGuard series 4 ½" 10K frac plug w/ Baker 10 setting tool and slow burning charges at 10,789'. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 10,778'- 79.5', 10,727'- 28.5', and 10,670'- 71.5', POOH, All shots fired, all tools recovered , Ball dropped. Plug and bottom cluster were adjusted by engineer.

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Summary Rig Activity

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Start Time	End Time	Comment
15:30	18:30	Treatment summary for Stage #17 as follows: PJSM. Test lines to 9400 psi Globals set to 8800 psi. Initial pressure- 4,225 psi.. Max pressure 8,045 psi, Min pressure 5,840 psi, Avg pressure 7,645 psi. Max rate 59 bpm, Avg rate 57 bpm. HHP 9,877, ISDP- 5,115 psi, 5-Min SIP 4,645 psi, 10-Min SIP 4,485 psi, 15-Min SIP 4,430 psi, Gradient ..985, Total Proppant- 167,8000 lbs, Total Volume 3,234 bbls, Recoverable load 3,589 bbls. Pumpdown Volume- 80 bbls. Total Cost 49,357.12. 1. Global Kick Outs set at 8800 psi. Pressure tested to 9400 psi. Job pumped with 3% KCl w/ Produced water. 2. Calculated 22 holes open, 410 psi perf friction, 528 psi NWB as per Fracpro. 3. Pressures much lower than seen on stg 16, able to get to designed rate with no trouble. 4. Ran extra Sand and CRC, left over from previous stages that were cut short. 5. Pressure start to increase in the 6ppg CRC stage and into flush, but rolled over part way thru flush. Able to flush completely.
18:30	21:30	Stage #18 RIH and pump down plug at 9.4 bpm, 1240# tens, 215 ft/min, and max pressure 5,269 psi. Line tension 1445 before setting plug/1281 after set w/ 20sec. Set Weatherford's FracGuard series 4 ½" 10K frac plug w/ Baker 10 setting tool and slow burning charges at 10,526'. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 10,606'- 07.5', 10,538'- 39.5', and 10,505'- 06.5', POOH, All shots fired, all tools recovered , Ball dropped.
21:30	23:00	Treatment summary for Stage #18 as follows: PJSM. Test lines to 9400 psi Globals set to 8800 psi. Initial pressure- 4,150 psi.. Max pressure 8,134 psi, Min pressure 5,483 psi, Avg pressure 6,618 psi. Max rate 57 bpm, Avg rate 53 bpm. HHP 8,587. ISDP- 4,635 psi, 5-Min SIP 4,359 psi, 10-Min SIP 4,333 psi, 15-Min SIP 4,316 psi, Gradient .934, Total Proppant- 115,000 lbs, Total Volume 2,441 bbls, Recoverable load 2,812 bbls. Pumpdown Volume- 176 bbls. Total Cost 35,334.28. 1. Global Kick Outs set at 8800 psi. Pressure tested to 9400 psi. Job pumped with 3% KCl w/ Produced water. 2. Calculated 22 holes open, 642 psi perf friction, 138 psi NWB as per Fracpro. 3. Had trouble getting CL-31 going. Extended pad until good crosslink was confirmed. 4. Had low crosslink pH and high linear pH so both buffers were raised during the job. 5. Cut proppant during 6 ppg with due to pressure rise. Pumped 115,000 / 150,000 lbs for 77% placed. 6. Well was successfully flushed followed by a brine cap.
23:00	00:00	Stage #19 RIH to pump down plug and perf,

Report Start Date	Report End Date	24hr Activity Summary
12/9/2013	12/10/2013	frac stages 19-20, RDMO Howco, set kill plugs, RDMO equipment, prep for WOR.

Start Time	End Time	Comment
00:00	01:30	Stage #19 RIH and pump down plug at 98.5 bpm, 1135# tens, 180 ft/min, and max pressure 5,062 psi. Line tension 1,400 before setting plug/1,268 after set w/ 20sec. Set Weatherford's FracGuard series 4 ½" 10K frac plug w/ Baker 10 setting tool and slow burning charges at 10,487'. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 10,466'- 67.5', 10,430'- 31.5', and 10,376'- 77.5', POOH, All shots fired, all tools recovered, Ball dropped.
01:30	11:30	Wait on water from Rockwater's transfer line, not receiving any water as of yet. 2 trucks to hauling water tonight, all trucks were released today, non for night were called, lined up total of 4 trucks to haul water for last two stages only 2 trucks available, Transfer line still not in service, Load of brine night crew ordered arrived and will unload after pump down of stage #19. will shut down and wait on water after pump down on P&P stage#19.
11:30	14:30	Rockwater transfer line frozen and trucks have been moved over from the Thompson location to start filling tanks here.

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Summary Rig Activity

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Start Time	End Time	Comment
14:30	19:00	Water on location is approximately 4,500bbls treated with KCl and heated to proper temperature. Start to rig-in manifold to transfer water to frac tanks, it will take a while to transfer and move hoses to another set of tanks while pumping. Usable fluid is little more than 3,600bbls which we will strap before starting the stage.
19:00	20:30	Treatment summary for Stage 19 as follows: PJSM. Test lines to 9400 psi Globals set to 8800 psi. Initial pressure - 4,025 psi. Max pressure 7,678 psi, Min pressure 6,332 psi, Avg pressure 7,080 psi. Max rate 61 bpm, Avg rate 54 bpm. HHP 9,440. ISDP- 5,252 psi, 1-Min SIP 4,868 psi, 10-Min SIP N/A psi Gradient .1.061, Total Proppant- 148,600 lbs, Total Volume 3,227 bbls, Recoverable load 3,576 bbls. Pumpdown Volume- 55 bbls. Total Cost 42,149.41. 1. Global Kick Outs set at 8800 psi. Pressure tested to 9400 psi. Job pumped with 3% KCl w/ Produced water. 2. Did not have a good indication of the ball seating. 3. Calculated 21 holes open, 614 psi perf friction, 596 psi NWB as per Fracpro. 4. Increased buffer loadings to compensate for fluid conditions. 5. Blender died twice during 5 ppg white sand. Ramped proppant back up both times. 6. Blender died a third time with 1,400 lbs of CRC remainin. 7. Well was successfully flushed followed by a brine cap. 8. Well was shut prior to obtaining 4, 5, 10, & 15 minute shut in pressures.
20:30	23:00	Stage #20 RIH and pump down plug at 8.4 bpm, 1133# tens, 172 ft/min, and max pressure 5,100 psi. Line tension 1470 before setting plug/1300 after set w/ 20sec. Set Weatherford's FracGuard series 4 ½" 10K frac plug w/ Baker 10 setting tool and slow burning charges at 10,347'. Perforated with 3 x 2 7/8", 6 SPF, 60 degree phasing, 16 gram Titan EXP-2716-321T(RDX) charges. Perfs at 10,328' - 29.5', 10,252'- 53.5', and 10,206'- 07.5', POOH, All shots fired, all tools recovered, Ball dropped.
23:00	00:00	Wait on Halliburton for Chemical to pump stage #20 (BA 40)

Report Start Date	Report End Date	24hr Activity Summary
12/10/2013	12/11/2013	frac 20, set kill plugs, RDMO frac equipment.

Start Time	End Time	Comment
00:00	09:00	Halliburton's chemical truck froze while coming back from Vernal, trying to thaw and pump stage #20. Had several issues pressure testing iron, replaced 1002 4" union seals on goat head.
09:00	10:30	Stage #20 pumped very well until we reached 5.0 ppg at formation when it instantly climbed to kick-out pressure. No indication was shown on pressure. We let pressure bleed down to 5,400psi, tried to re-establish rate to flush and reached max pressure again. Flushed brine fluid through treating iron before turning over to flowback.
10:30	15:30	Started to flowback well. Established 2,100psi @ 5.0bpm.Have 770bbls flowed back and shut in to offload fluid. Opened back up with pressure holding 3,600psi with clean samples taken and when frac tanks topped with consolidated fluid we will shut-in choke to frac stage #20 again. Program has been designed within volumes on location. Total recovered 1,100bbls.
15:30	17:00	
17:00	20:00	Set kill plug as follows, #1 plug set in middle of third casing jt below 4.5 liner top @8,700', SICP 2,200 Psi, Bled of well pressure and plug holding SICP 0 Psi, #2 kill plug set in middle of second casing jt below 4.5 liner top @ 8,660', SICP 2,200 Psi,
20:00	00:00	RDMO JW wireline unit, Halliburton frac equipment, Oil State's isolation tool.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

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Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
12/11/2013	12/12/2013	MIRU Mountain States WOR and auxilliary equipment. Clean and drift 2/38" workstring tbg.

Start Time	End Time	Comment
00:00	06:00	Finish RD Oil States Stinger and NU KOT 7 1/16" x 5K Hydrill.
06:00	09:30	Pressure test 7 1/16" Annular as per NFX guidelines. Halliburton has a few pieces of equipment that would not start. Move 500bbl tank that was used for coil tubing drillout in the middle of location. Mountain States is having problems starting the motor on the rig so a heater was sent to their staging area to warm engine block. 4-C Reclamation is consolidating tanks on drill out tanks.
09:30	11:00	Mountain States rig engine will not crank over in this weather. A mechanic is coming from Rock Springs to access the issue. They will bring everything else to start rigging up as flat beds.
11:00	16:00	Mountain States has worked on the issue with the mechanic over the phone and was able to start the unit. Zubiate is loading rig pump and other equipment to be moved in. Two swab tanks coming in, a load of tubing arrived, location smoothed and graded, Baker Hughes picked up Scalesorb trailer. CSI Inspection here to start cleaning and drifting 2 3/8" PH-6 workstring and off-loading Runners Inc. pipe loads.
16:00	18:00	The 2 3/8" PH-6 workstring arrived with ice and scale through the ID of the pipe, several would not drift right from the start. Outback Rentals had canvas tarps available, they were hot shot out to location from Vernal to lay on top of pipe racks and run heater lines under.
18:00	18:30	Pre tour safety meeting.
18:30	00:00	Continue to rig up Mountain States WOR and equipment. Move in pipe wrangler. Continue to thaw tubing so that it can be cleaned and drifted.

Report Start Date	Report End Date	24hr Activity Summary
12/12/2013	12/13/2013	MU CO BHA. MIH filling tbg every 30 jts. WOR broke down and was down for 15.5 hrs. Rig repairs. Continue MIH with 268 jts.

Start Time	End Time	Comment
00:00	01:00	MU Weatherford 4 blade slightly concaved 3.75" OD Mill, Dual BPV, 1 joint of 2 3/8" 5.95# P-110 PH6, RN Nipple and MIH with 30 joints 2 3/8" 5.95# P-110 PH6 tubing. RU to circulate.
01:00	04:00	Pressure test surface lines to 4,000 psi. Fill tubing and circulate 4 bbls to clear BPV's. Continue MIH filling tubing every 1,000'. 66 jts in hole at time of update.Load pipe rack and tally tubing.
04:00	11:30	When it was time to go in the hole the WOR died and has been down since 0410 hrs. Shut down for repairs, engine is tarped in with heaters and mechanic is coming from Rock Springs. CSI Inspection continues to drift and inspect pipe with day crew. At 10:35am the mechanic found an issue with the fuel return so they will repair it and start. A total of 26 jnts of workstring were rejected by CSI Inspection crew so a replacement of 50 jnts were brought out.
11:30	14:30	RIH with 2 3/8" PH-6 workstring. Filling hole every 30 jnts and during load and tally racks. At 198 jts in hole the rig went down again.
14:30	22:30	Down for repairs. Mountain States believes that they have found the problem, a crack in the fuel line going to the fuel pump. Changed out fuel line and WOR is warming up to start running tubing in the hole to TOL. We will evaluate rig performance before entering into liner.

RECEIVED: Jan. 14, 2014

NEWFIELD

Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
22:30	00:00	Mountain States believes that they have found the problem, a crack in the fuel line going to the fuel pump. Changed out fuel line and WOR is warming up to start running tubing in the hole to TOL. We will evaluate rig performance before entering into liner.

Report Start Date	Report End Date	24hr Activity Summary
12/13/2013	12/14/2013	DO 2 kill plugs and 14 frac plugs

Start Time	End Time	Comment
00:00	03:00	Continue MIH with 2 3/8" work string tubing. 275 jts in hole. Tie back tbg line. RU power swivel. Verified that both torque gauges on power swivel matched and were set to 2,800 psi.
03:00	05:30	Finish rigging up to drill out plugs. Lower mill and tag first plug @ 8,660'. Fire up pump and circulate at 3.0 bpm in/out, pump pressure @ 3,000 psi. first plug took 32 min to drill. Up weight 78k, neutral wt 70k, down wt 65k. Free torque was 1,300 and drill torque was at 1,500. Tag 2nd kill p[lug @ 8,700'. Plug took 9 min to drill out. 2.0 bpm in and 4 bpm out on a 25/64's choke, pump pressure @ 4,750 psi. Annular pressure @ 3,300 psi. Up weight 72k, neutral wt 70k, down wt 66k. Free torque was 1,500 and drill torque was at 1,700.
05:30	07:00	Taking heavy gas cut returns. Circulate, Tubing- 1.5bpm @ 4,400psi, Annular- 3.5bpm @ 3,350psi on 26/64 adjustable. Gas volume decreased and continue to RIH to CFTP#19.
07:00	11:30	RIH with workstring to CFTP#19 @ 10,347.' Annular 4.3bpm @ 3,100psi.
11:30	14:30	Tag plug #19 @ Jnt #334 EOT- 10,340.76' with 4' stick, WLM- 10,347-49'. Up weight- 60k, Neutral weight 56k, Down weight 52k, 6-8K WOB. Circulate tbg- 1.5bpm @ 4,400psi, Choke- 3.0bpm @ 3,300psi #24/64 adjustable. Free torque- 2000, Drilling- 2500. FR 10bbl sweep before/after milling plug. Time @ 11 minutes. Tag plug #18 @ Jnt #339 EOT- 10,470.00' with 29' stick, WLM- 10,487-49'. Up weight- 60k, Neutral weight 56k, Down weight 52k, 6-8K WOB. Circulate tbg- 1.8bpm @ 4,400psi, Choke- 3.0bpm @ 3,300psi #25/64 adjustable. Free torque- 2000, Drilling- 2500. FR 10bbl sweep before/after milling plug. Time@8minutes. Tag plug #17 @ Jnt #343 EOT- 10,616' with 6' stick, WLM- 10,626-28'. Up weight- 60k, Neutral weight 56k, Down weight 52k, 6-8K WOB. Circulate tbg- 1.8bpm @ 4,400psi, Choke- 3.0bpm @ 3,300psi #25/64 adjustable. Free torque- 2000, Drilling- 2500. FR 10bbl sweep before/after milling plug. Time@12minutes. Tag plug #16 @ Jnt #349 EOT- 10,787.5' with 20' stick, WLM- 10,789-91'. Up weight- 60k, Neutral weight 56k, Down weight 54k, 6-8K WOB. Circulate tbg- 1.8bpm @ 4,400psi, Choke- 3.0bpm @ 3,300psi #25/64 adjustable. Free torque- 2000, Drilling- 2500. FR 10bbl sweep before/after milling plug. Time@8minutes.
14:30	17:30	Tag plug #15 @ Jnt #360 EOT- 11,131.5' with 15' stick, WLM- 11,123-25'. Up weight- 62k, Neutral weight 56k, Down weight 54k, 6-8K WOB. Circulate tbg- 1.8bpm @ 4,400psi, Choke- 3.0bpm @ 3,300psi #25/64 adjustable. Free torque- 2000, Drilling- 2500. FR 10bbl sweep before/after milling plug. Time@9minutes. Tag plug #14 @ Jnt #374 EOT- 11,560.5' with 20' stick, WLM- 11,445-47'. Up weight- 62k, Neutral weight 56k, Down weight 54k, 6-8K WOB. Circulate tbg- 1.8bpm @ 4,300psi, Choke- 3.0bpm @ 3,200psi #25/64 adjustable. Free torque- 2000, Drilling- 2500. FR 10bbl sweep before/after milling plug. Time@14minutes. Tag plug #13 @ Jnt #376 EOT- 11,617.5' with 25' stick, WLM- 11,648-50'. Up weight- 60k, Neutral weight 58k, Down weight 54k, 6-8K WOB. Circulate tbg- 1.8bpm @ 4,300psi, Choke- 3.0bpm @ 3,200psi #25/64 adjustable. Free torque- 2000, Drilling- 2500. FR 10bbl sweep before/after milling plug. Time@8minutes.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
17:30	21:00	Tag plug #12 @ Jnt #385 EOT- 11,821', WLM- 11,838'. Up weight- 62k, Neutral weight 52k, Down weight 57k, 6-8K WOB. Circulate tbg- 1.8bpm @ 4,300psi, Choke- 3.5bpm @ 3,400psi #25/64 adjustable. Free torque- 2100, Drilling- 2500. FR 10bbl sweep before/after milling plug. Time@26minutes. Tag plug #11 @ Jnt #388 EOT- 12,169', WLM- 12,185'. Up weight- 60k, Neutral weight 56k, Down weight 48k, 6-8K WOB. Circulate tbg- 1.8bpm @ 4,400psi, Choke- 3.5bpm @ 3,300psi #25/64 adjustable. Free torque- 1800, Drilling- 2800. FR 10bbl sweep before/after milling plug. Time@14minutes.
21:00	00:00	2018 Tag plug #10 @ Jnt #393 EOT- 12,169', WLM- 12,185'. Up weight- 60k, Neutral weight 56k, Down weight 46k, 4-6K WOB. Circulate tbg- 1.8bpm @ 4,200psi, Choke- 4.25bpm @ 3,400psi #20/64 adjustable. Free torque- 1800, Drilling- 2300. FR 10bbl sweep before/after milling plug. Time@22minutes. 2120 Tag plug #9 @ Jnt #400 EOT- 12,374', WLM- 12,388'. Up weight- 62k, Neutral weight 56k, Down weight 47k, 4-6K WOB. Circulate tbg- 1.7bpm @ 4,300psi, Choke- 4.25bpm @ 3,400psi #20/64 adjustable. Free torque- 1700, Drilling- 2300. Polymer 10bbl sweep before/after milling plug. Time@15minutes. 2204 Tag plug #8 @ Jnt #404 EOT- 12,498', WLM- 12,510'. Up weight- 62k, Neutral weight 56k, Down weight 46k, 4-6K WOB. Circulate tbg- 1.7bpm @ 4,500psi, Choke- 4.25bpm @ 3,500psi #20/64 adjustable. Free torque- 1800, Drilling- 2300. Polymer 10bbl sweep before/after milling plug. Time@17minutes. 2305 Tag plug #7 @ Jnt #411 EOT- 12,707', WLM- 12,716'. Up weight- 63k, Neutral weight 56k, Down weight 46k, 4-6K WOB. Circulate tbg- 1.5bpm @ 4,300psi, Choke- 4.7bpm @ 3,500psi #25/64 adjustable. Free torque- 1900, Drilling - 2400. Polymer 10bbl sweep before/after milling plug. Time@17minutes.

Report Start Date	Report End Date	24hr Activity Summary
12/14/2013	12/15/2013	Finish DO all frac plugs and circulate hole clean. POOH to vertical.

API Well Number: 43013519230000

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
00:00	04:30	0107 Tag plug #5 @ Jt #424 EOT- 13,113', WLM- 13,119'. Up weight- 63k, Neutral weight 56k, Down weight 44k, 4-6K WOB. Circulate tbg- 1.5bpm @ 4300psi, Choke- 4.0bpm @ 3,500psi #28/64 adjustable. Free torque- 1900, Drilling - 2500. Polymer 10bbl sweep before/after milling plug. Time@23minutes. 0201 Tag plug #4 @ Jt #430 EOT- 13,292', WLM- 13,292'. Up weight- 63k, Neutral weight 56k, Down weight 44k, 5K WOB. Circulate tbg- 1.5bpm @ 4300psi, Choke- 4.0bpm @ 3,500psi #28/64 adjustable. Free torque- 1900, Drilling - 2400. Polymer 10bbl sweep before/after milling plug. Time@19minutes. 0244 Tag plug #3 @ Jt #434 EOT- 13,431', WLM- 13,452'. Up weight- 63k, Neutral weight 56k, Down weight 44k, 6K WOB. Circulate tbg- 1.5bpm @ 4300psi, Choke- 4.2bpm @ 3,400psi #26/64 adjustable. Free torque- 1900, Drilling - 2700. Polymer 10bbl sweep before/after milling plug. Time@10minutes. 0331 Tag plug #2 @ Jt #441 EOT- 13,630', WLM- 13,648'. Up weight- 64k, Neutral weight 56k, Down weight 44k, 6K WOB. Circulate tbg- 1.5bpm @ 4200psi, Choke- 3.9bpm @ 3,500psi #24/64 adjustable. Free torque- 2000, Drilling - 2700. Polymer 10bbl sweep before/after milling plug. Time@14minutes. 0419 Tag plug #1 @ Jt #447 EOT- 13,828', WLM- 13,850'. Up weight- 64k, Neutral weight 56k, Down weight 45k, 6K WOB. Circulate tbg- 1.5bpm @ 4500psi, Choke- 3.7bpm @ 3,450psi #24/64 adjustable. Free torque- 2000, Drilling - 2600. Polymer 10bbl sweep before/after milling plug. Time@7minutes.
04:30	05:30	Lower mill to RSI @ 14,020'. Pump a 20 bbls polymer sweep followed with 20 bbls 3% KCL then chased with a 10 bbl polymer sweep.
05:30	09:00	Circulate hole clean with 184bbls away Tubing- 1.5bpm @ 4,400psi, Casing- 3.7bpm @ 3,400psi, rotating and working pipe. Circulated hole with Tbg- 1.8bpm @ 4,400psi, Csg- 3.7bpm @ 3,400psi. 400bbls pumped, worked and rotated pipe.
09:00	12:00	Start POOH with power swivel rotating OOH, RD power swivel @ Jnt 449 joints(power swivel broke down), POOH with elevators. At Jnt #416 Weights Up weight- 70 Down weight- 56 Neutral weight- 40. Flowing still Csg- 3.7bpm @ 3,400psi, trace sand, 70/30 Water/oil cuts.
12:00	14:30	Circulate hole. We have 356 jnts in hole. Up weight- 66k Down weight- 42k Neutral weight- 42k. Casing- 3.5bpm @ 3,400psi w/ 31/64 adjustable, taking mostly water for returns. Finished circulating a volume. Tbg- 3.0bpm @4,700psi, Csg- 3.5bpm @ 3,400psi with mostly water for returns. First load of production tubing arrived and CSI Inspection here to inspect. Off-loading roughly three loads of oil into production tanks.
14:30	18:00	POOH with 260 jnts in the hole. Prepare to RU snubbing unit. Install hanger and wash BOP's and tubing head bowl with 30 bbls of 105 degree water. Water was not hot enough to melt paraffin left in BOP's. Pull tbg hanger above spider and found TC-1A Rubber folded over and torn.
18:00	20:00	When we went to remove TWCV from hanger we found that the Cameron well head reprasentative did not have a "T" bar to relieve pressure and back out TWCV. We are down waiting on a hot oil truck and a "T" bar from Cameron Well Head division.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

API Well Number: 4301351923000 0

Start Time	End Time	Comment
20:00	21:30	Tools from Cameron arrived. Removed TWCV and there was very little pressure below it. Replaced rubber ring on hanger and re-installed TWCV, checking it periodically and no pressure is building. Hot Oiler has arrived and is heating water to flush BOP's and tubing head bowl before attempting to re-land hanger.
21:30	23:00	80 bbls of brine heated to 180 degrees. Bullheaded 30 bbls down through BOP's and into wellbore. Pumped heated brine through all flowback iron. Equalized pressure and landed tubing hanger into tubing head. Run in lock down pins and preparing to NU & test snubbing unit.
23:00	00:00	Pressure test hanger. Note: 550 bbls oil transferred from flowback tanks to production tank battery.

Report Start Date	Report End Date	24hr Activity Summary
12/15/2013	12/16/2013	Install and pressure test snubbing unit. POOH with drill out assembly LD al 2 3/8" PH-6 WS. MU and snub in hole with production BHA and 105 jts 2 3/8" L-80 tbg

Start Time	End Time	Comment
00:00	01:30	Finish pressure testing hanger 300 psi for 5 min and 10,000 psi for 10 min, zero leak off. ND Hydrill.
01:30	04:30	Rig up snubbing unit. When attempting to function test snubbing unit Mountain States had trouble keeping hydraulic pressure. Snubbing unit appears to be working good now.
04:30	08:30	Pressure test snubbing unit.Start pressure testing snubbing unit. Replaced Shaffer element on snubbing unit. All tested as per Newfield/AOI procedures.
08:30	09:30	Un-seat Cameron hanger from tubing spool.
09:30	15:30	Start POOH with 2 3/8" PH-6 workstring, 260 joints left in hole before landing Cameron hanger and RU snubbing unit. SICP- 3,800psi and stabilized, bled to 3,500psi for annular while tripping.
15:30	17:00	OOH with 2 3/8" PH-6 workstring with Weatherford 3.72" Concave Mill. Shut-in and monitor SICP. Off-load workstring from pipe racks to ship and load/tally 2 3/8" L-80 EUE production string. Loading and hauling flowback from all tanks.
17:00	18:30	Production BHA as follows: 6.12' x 2.375" Mule shoe with 6' Pup, 0.80' x 2.375" 10k Ceramic Burst Disc, 6.10' x 2.375" 6' Pup, 2.375" x 1.23' XN-Nipple, Joint 2.375" L-80, 1.14' x 2.375" X-Nipple, 2.375" L-80 to surface.
18:30	00:00	Using Mountain States Snubbing Unit we staged tbg in hole with well shut in. Approx. 105 jts in the hole. Well had 3,900 psi on casing. Stopped to fill tbg every 1,000'.

Report Start Date	Report End Date	24hr Activity Summary
12/16/2013	12/16/2013	Continue SIH with production BHA and 2 3/8" L-80 production tbg.

Start Time	End Time	Comment
00:00	05:30	Using Mountain States Snubbing Unit we staged tbg in hole with well shut in. Well had 3,900 psi on casing. Stopped to fill tbg every 1,000'. A total of 257 jts is in the hole.
05:30	07:45	Rotax valve on equalize/bleed loop on snubbing unit leaked by. Replaced internals and continue to RIH.
07:45	09:45	Staged in hole and continue RIH with 2 3/8" L-80 production tubing. Filling every 30 jnts with open line to ensure we don't overpressure.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
09:45	12:00	Prepare to land hanger. Cameron technician on location with production extended neck hanger to land, redressed and with TWCV in hanger. MU on jnt #302, land with #303, bowl wash with 50bbls heated fluid before landing. Land hanger, lock pins and measure.
12:00	13:00	Test hanger with Cameron as per procedure 250psi low/10,000psi high against blind. Good test, bleed off.
13:00	15:00	Start RD Mountain States snubbing unit. Load truck with 2 3/8" PH-6 workstring on location to yard for inspection. ND 7 1/16" 10K Knight BOP stack. Production facilities are ready for a shipment of crude from completion operations. Basic Energy hydraulic catwalk released to the Thompson 4-24-3-4.
15:00	18:00	Cameron production wellhead was built backwards, Newfield production was notified and instructions were to re-assemble to the right direction needed. Cameron brought out replacement ring gaskets to rebuild. Select Rentals loader flat tire down stopping pipe off-loading and part of rig down. Western Chemicals is loading tote of friction reducer for the Thompson.
18:00	22:30	Pressure test void in well head flange to 10K, test good. Shell test production tree to 10K, test good. Load 80 bbls clean unused 3% KCL at 30 degrees. Heat the 80 bbls to 70 degrees and rig up to pump down tubing. Fill and pressure tubing with 7.1 bbls 3% KCL and rupture disk @ 4,400 psi. Pump a total of 76 bbls through tubing (2 tbg volumes) at a rate of 2.5 bpm at 4,200 psi. RD mud pump and turn well over to production. SITP – 3,500 psi SICP – 3,800 psi Well opened to production at 2200 hrs Heat/melt paraffin in WOR flat tank and transfer to flowback tanks. SDFN

API Well Number: 4301351923000

RECEIVED: Jan. 14, 2014

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-51676

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER: State 4-11-3-2WH

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013519230000

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

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0913 FSL 0945 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSW Section: 02 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

- ☐ NOTICE OF INTENT
  Approximate date work will start:
- ✓ SUBSEQUENT REPORT
  Date of Work Completion: 11/18/2013
- ☐ SPUD REPORT
  Date of Spud:
- ☐ DRILLING REPORT
  Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Daily Drilling Reports

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

As per our conversation with Dustin Doucet, attached find the Daily Drilling Reports for the above mentioned well.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
January 22, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Mandie Crozier	435 646-4825	Regulatory Tech

SIGNATURE	DATE
N/A	1/21/2016

RECEIVED: Jan. 21, 2016

NEWFIELD

Summary Rig Activity

Well Name: State 4-11-3-2WH

Job Category	Job Start Date	Job End Date

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
8/10/2013	8/11/2013	Set 60' of 20" conductor pipe.

Start Time	End Time	Comment
00:00	00:00	Pete Martin Rig #16 spudded 26" hole on 08/09/2013 and drilled to 12' GL. Hole started falling in with cobble rocks from surface. Filled hole with 12.0 PPG fresh water mud on 08/10/2013. Finished drilling hole to 60' GL. Set 20", 52.78# (0.250" wall), SA53B conductor pipe at 60' GL and cemented to surface with Pro Petro Cementers on 08/10/2013. Cement Job: Pumped 10 bbls fresh water flush ahead of cement. Mixed and pumped 450 sacks (92 bbls) of Premium Class G Cement with 2% CaCl2, and 1/4 lb/sk flocele. Mixed cement @ 15.8 ppg with yield of 1.15 cf/sk. Displaced cement with 18 bbls fresh water. Finished pumping @ 21:30 PM on 08/10/2013. 10 bbls cement to surface. Shut in well after pumping stopped. Hole stood full after pumping stopped. Kylan Cook notified UDOGM and BLM by e-mail @ 18:45 PM on 08/08/2013 to spud conductor hole on 08/09/2013. Ready for surface rig.

Report Start Date	Report End Date	24hr Activity Summary
8/11/2013	8/12/2013	MIRU Pro Petro Rig #10.

Start Time	End Time	Comment
00:00	00:00	MIRU Pro Petro Rig #10.

Report Start Date	Report End Date	24hr Activity Summary
8/12/2013	8/13/2013	Finish rigging up. Spud 17.50" hole. Drill from 60' GL to 850' GL.

Start Time	End Time	Comment
00:00	01:00	Finish rigging up Pro Petro Rig #10.
01:00	02:30	Start picking up BHA. Trip in hole to 60' GL.
02:30	04:30	Spud 17.50" hole @ 02:30 AM on 08/12/2013. Drill from 60' GL to 160' GL. Lost about 75% returns at 130' GL.
04:30	07:30	Trip off bottom. Wait for water.
07:30	08:00	Trip back to bottom.
08:00	09:30	Drill from 160' GL to 280' GL. Getting about 95% returns back.
09:30	10:00	Circulate for survey. Take Single Shot survey @ 220' GL = 0.75 Degrees.
10:00	11:00	Drill from 280' GL to 370' GL.
11:00	11:30	Change rubber size in rotating head.
11:30	12:00	Drill from 370' GL to 400' GL.
12:00	12:30	Fix rod washer on pump.
12:30	13:30	Drill from 400' GL to 490' GL.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
13:30	14:00	Circulate for survey. Take Single Shot survey @ 430' GL = 0.75 Degrees.
14:00	19:00	Drill from 490' GL to 760' GL. Water flow at 620' GL. Well flowing 120 gallons per minute.
19:00	20:30	Circulate for survey. Take Single Shot survey @ 700' GL = 3.00 Degrees. Ran survey twice to ensure accuracy. Have been running 10K on bit. Will back off to 5K, drill another 90', and take next survey.
20:30	00:00	Drill from 760' GL to 850' GL.

Report Start Date	Report End Date	24hr Activity Summary
8/13/2013	8/14/2013	Drill from 850' GL to 1270' GL.

Start Time	End Time	Comment
00:00	01:00	Circulate for survey. Take Single Shot survey @ 790' GL = 3.00 Degrees.
01:00	04:30	Drill from 850' GL to 940' GL.
04:30	05:30	Circulate for survey. Take Single Shot survey @ 880' GL = 2.75 Degrees.
05:30	06:30	Drill from 940' GL to 970' GL.
06:30	07:30	Change swabs on pump.
07:30	09:30	Drill from 970' GL to 1030' GL.
09:30	10:00	Circulate for survey. Take Single Shot survey @ 970' GL = 3.50 Degrees.
10:00	15:30	Drill from 1030' GL to 1120' GL.
15:30	17:30	Circulate and ream hole. Wait for survey machine.
17:30	18:00	Take Single Shot survey @ 1060' GL = 3.50 Degrees.
18:00	21:00	Drill from 1120' GL to 1210' GL.
21:00	21:30	Circulate for survey. Take Single Shot survey @ 1150' GL = 3.50 Degrees.
21:30	00:00	Drill from 1210' GL to 1270' GL.

Report Start Date	Report End Date	24hr Activity Summary
8/14/2013	8/15/2013	Drill from 1270' GL to 1626' GL. TD 17.50" hole @ 15:00 PM on 08/14/2013. Rig Repair. Replace hydraulic pump on rig.

Start Time	End Time	Comment
00:00	00:30	Drill from 1270' GL to 1300' GL.
00:30	01:30	Circulate for survey. Take Single Shot survey @ 1240' GL = 3.25 Degrees.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
01:30	04:30	Drill from 1300' GL to 1390' GL.
04:30	05:30	Circulate for survey. Take Single Shot survey @ 1330' GL = 3.50 Degrees.
05:30	08:30	Drill from 1390' GL to 1480' GL.
08:30	09:00	Circulate for survey. Take Single Shot survey @ 1420' GL = 3.50 Degrees.
09:00	12:00	Drill from 1480' GL to 1570' GL.
12:00	12:30	Circulate for survey. Take Single Shot survey @ 1510' GL = 3.50 Degrees.
12:30	15:00	Drill from 1570' GL to 1626' GL. TD 17.50" hole @ 15:00 PM on 08/14/2013.
15:00	00:00	Replace hydraulic pump on rig. Had to wait for additional parts.

Report Start Date	Report End Date	24hr Activity Summary
8/15/2013	8/16/2013	Finish replacement of hydraulic pump on rig. Start short trip. Developed leak in hydraulic seal. Trip out of hole. Wait for and rig up spare rig. Trip back in hole. Circulate. Trip out. Start running surface casing.

Start Time	End Time	Comment
00:00	00:30	Finish replacement of hydraulic pump on rig.
00:30	01:00	Take Single Shot survey @ 1570' GL = 4.25 Degrees.
01:00	04:00	Start making short trip. While tripping rig developed a leak in a hydraulic seal. Replacement of hydraulic seal could take up to two days. Decided to trip out of hole while rig would still operate and use a spare rig to run casing.
04:00	10:00	Wait for and rig up spare rig.
10:00	15:00	Trip back in hole. Had to wash and ream last 300' back to bottom.
15:00	16:00	Circulate to trip out of hole and run casing.
16:00	19:30	Trip out of hole to run surface casing.
19:30	20:30	Rig up to run surface casing. Well flowing 12 gallons per minute at the start of running casing.
20:30	00:00	Start running surface casing. Casing details will be on next report.

Report Start Date	Report End Date	24hr Activity Summary
8/16/2013	8/17/2013	Finish running surface casing. Cement surface casing. Wait on cement, clean pits, and rig down. Release rig @ 17:00 PM on 08/16/2013.

Start Time	End Time	Comment
00:00	04:00	Run 38 joints (1607.41') of 13 3/8", 54.5#, J-55, BT&C casing with Top-Co guide shoe and float collar. 14 centralizers spaced 10' from the shoe, on top of joints #2 and #3 then every 3rd collar to surface. Landed @ 1607.41' GL, Float Collar @ 1562.09' GL. Had to wash last 7 joints of casing down.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
04:00	05:00	Circulate with casing on bottom.
05:00	06:00	Weld top cap from casing to conductor pipe.
06:00	06:30	Circulate casing with rig pump. Rig up Pro Petro Cementers.
06:30	08:30	Cement Job: Pumped 15 bbls fresh water & 40 bbls gelled water flush ahead of cement. Lead: Mixed and pumped 550 sacks (280 bbls) of Type V Cement with 16% Gel, 10 #/sk Gilsonite, 2#/sk Gr3, 3% Salt, and 1/4 #/sk Flocele. Mixed cement @ 12.0 ppg with yield of 2.86 cf/sk. Tail: Mixed and pumped 675 sacks (138 bbls) of Premium Class G Cement with 2% CaCl2, and 1/4 #/sk Flocele. Mixed cement @ 15.8 ppg with yield of 1.15 cf/sk. Displaced cement with 242 bbls fresh water. Bumped plug with 1070# @ 08:25 AM on 08/16/2013. Floats held. 75 bbls cement to surface. Shut in well after pumping stopped. Kylan Cook notified UDOGM and BLM of the surface casing & cement job via e-mail on 08/14/2013 @ 05:45 AM.
08:30	17:00	Wait on cement, clean pits, and rig down. Release rig @ 17:00 PM on 08/16/2013.

Report Start Date	Report End Date	24hr Activity Summary
10/2/2013	10/3/2013	Finish preparation of location for drilling rig.

Start Time	End Time	Comment
00:00	00:00	08/19/2013 - Run Gyro. GYRO SURVEY DEPTHS ARE GROUND LEVEL. 08/22/2013 - Drill Mouse Hole for Pioneer #44. 10/02/2013 - Pull 10' cellar ring and install 8' cellar. Cut mouse hole liner off 10' below ground level. Back fill remaining mouse hole. Install 10' of 14" mouse hole liner at 4' 10" to fit Pioneer #68. Will weld on wellhead and cement cellar floor. GYRO SURVEY DEPTHS ARE GROUND LEVEL. Location is ready for drilling rig.

Report Start Date	Report End Date	24hr Activity Summary
10/4/2013	10/5/2013	PJSM, RDRT, move camps, pipe tubs, pits to State 4-11-3-2WH

Start Time	End Time	Comment
08:00	18:30	PJSM w/ JD Field services, RDRT, TD and move camps, pipe tubs, pits, total of 33 loads with 7 haul truks, 2 beds, 2 poles, 2 forklifts and 1 70 ton crane. Derrick down @ 17:00 hrs
18:30	00:00	Wait on daylight

Report Start Date	Report End Date	24hr Activity Summary
10/5/2013	10/6/2013	PJSM, move sub and derrick f/Unca Sam to State 4-11-3-2WH and rig up on State 4-11-3-2WH

Start Time	End Time	Comment
00:00	07:00	Wait on daylight
07:00	10:00	Finish moving off Unca Sam 7-16-3-3W to State 4-11-3-2WH

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
10:00	10:30	At 09:45,While using crane to put service loop into carrier for moving, the driller was guiding it in when the 19 pin plug hung on a hand rail pin pocket, when it came loose it swung approximately 6' and hit Matt in the chin. Safety stand down to determine cause of incident. Determined that cause was, lack of communication and not being aware of surroundings and whereabouts of others.
10:30	19:30	Finish moving off Unca Sam 7-16-3-3W to State 4-11-3-2WH and rig up on State 4-11-3-2WH with 7 haul truks, 2 beds, 2 pole, 2 forklifts, 1 crane, set skid rails, sub, mud boat, carrier, Peak, gas buster, generator, fuel tank.
19:30	00:00	Rig up Y-base and prepare for raising derrick and general rig up. 13 5/8" BOP components on location.

Report Start Date	Report End Date	24hr Activity Summary
10/6/2013	10/7/2013	Rig up and prepare to raise derrick, raise derrick, rig up wind walls and floor, pick up top drive, nipple up BOP

Start Time	End Time	Comment
00:00	07:00	Rig up and prepare to raise derrick, break kill line and choke line assemblies off of 11" 5K BOP to use on 13 3/8" 5K BOP.
07:00	15:00	PJSM w/JD Field Services, rig crews and engaged management, set in front yard, raise derrick to full mast, set top drive and ST-80 on floor, set wind walls, service loop, string guy wires, air lines, electric lines. Released trucks at 14:00 hrs, crane at 15:00 hrs.
15:00	00:00	PJSM, Rig up top drive, service loop, Kelly hose, stand pipe manifold and hang rig tongs.

Report Start Date	Report End Date	24hr Activity Summary
10/7/2013	10/8/2013	PJSM, nipple up 13 5/8" and test BOP.

Start Time	End Time	Comment
00:00	17:30	Nipple up 13 5/8" BOP, torquing bolts while waiting on 16 bolts to arrive from Weatherford, installed and torqued bolts, reroute coke line and kill line using target tees, break hydraulic connections out of 11" stack for 13 5/8". Hook up flow line.
17:30	18:00	Rig Service
18:00	19:00	Hook up Hyd. lines and Function test BOP
19:00	00:00	Set V-door, PU bales and elevators, PU joint of DP to test floor valves and set test plug and Test BOP's: HSM/JSA RU B&C Quick Test.Test Upper and Lower Kelly Valve to 250 low and 5000 psi high. Test IBOP and full open Safety valves to 250 low and 5000 psi high. Install Test Plug and test well head Connection, Pipe Rams on 4" DP, kill and Choke line valves, HCR and inside Choke Manifold Valves to 250 psi low and 5000 psi high. Test Annular to 250 low and 3500 psi high. Pull Drill pipe and Test Blind rams and outside choke line valves to 250 low and 5000 high.

Report Start Date	Report End Date	24hr Activity Summary
10/8/2013	10/9/2013	Test BOP, install 29' mouse hole, pre spud inspection, PU BHA, drill out , FIT and drill 8 3/4" hole. f/1646' to 2077'.

Start Time	End Time	Comment
00:00	02:00	Test BOP, Test casing to 1500 psi. for 30 min. Test mud line back to pumps to 250 low and 4000 high.
02:00	05:30	Modify and install 29' mouse hole, pre spud inspection, PU BHA
05:30	06:00	Rig service
06:00	06:30	Top drive service
06:30	07:00	Install wear bushing.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
07:00	14:30	Change elevators and build X-over, Leam handling sub, is too big for 4.5" elevators. Pick up directional BHA and TIH with HWDP and DP. Tag @ 1560'
14:30	15:30	Leak in flow line, Readjust flow line
15:30	17:00	Drill shoe track and 13' of new hole to 1659'.
17:00	17:30	Circ bottoms up.
17:30	18:00	FIT to 293 PSI with 9.6 PPG Mub wt.13 PPG EMW
18:00	00:00	DRLG 1656' - 2077', 421' @ 70 FPH. WOB 18-28K, 509 GPM, 1900 SPP, 150-380 DIFF, RPM 75, MTR 147, TRPM 227. VIS 51, WT 9.5 PPG. Slides: 73'- 2 .0hr. = 36.5 fph.

Report Start Date	Report End Date	24hr Activity Summary
10/9/2013	10/10/2013	Drill 8 3/4" hole f/2077' to 4086'.

Start Time	End Time	Comment
00:00	03:30	DRLG 2077' - 2329', 252' @ 72' FPH. WOB 15-28K, 509 GPM, 1900 SPP, 150-380 DIFF, RPM 75, MTR 147, TRPM 227. VIS 51, WT 9.5 PPG.
03:30	04:00	Rig service
04:00	14:30	DRLG 2329' - 3521', 1192' @ 113.5' FPH. WOB 15-28K, 509 GPM, 1900 SPP, 150-380 DIFF, RPM 75, MTR 147, TRPM 227. VIS 51, WT 9.5 PPG.
14:30	15:00	Rig Service
15:00	15:30	Trouble shoot Pason
15:30	00:00	DRLG 3521' - 4086', 565' @ 66.47' FPH. WOB 15-28K, 509 GPM, 1900 SPP, 150-500 DIFF, RPM 75, MTR 147, TRPM 227. VIS 51, WT 9.5 PPG. Slides: 121'- 5 hr. = 24.2 fph.

Report Start Date	Report End Date	24hr Activity Summary
10/10/2013	10/11/2013	Drill 8 3/4" hole f/4086' to 5745'.

Start Time	End Time	Comment
00:00	03:00	DRLG 4086' - 4275', 189' @ 63 FPH. WOB 15-28K, 509 GPM, 1900 SPP, 150-500 DIFF, RPM 75, MTR 147, TRPM 227. VIS 51, WT 9.5 PPG.
03:00	03:30	Rig service, BOP Drill
03:30	13:00	DRLG 4275' - 5090', 815' @ 85.7 FPH. WOB 15-28K, 509 GPM, 1900 SPP, 150-500 DIFF, RPM 75, MTR 147, TRPM 227. VIS 51, WT 9.5 PPG.
13:00	13:30	Rig service, BOP Drill
13:30	00:00	DRLG 5090' - 5745', 655' @ 62.4 FPH. WOB 15-28K, 509 GPM, 1900 SPP, 150-500 DIFF, RPM 75, MTR 147, TRPM 227. VIS 51, WT 9.5 PPG. Slides: 175'- 8.25 hr. = 22.66 fph.

Report Start Date	Report End Date	24hr Activity Summary
10/11/2013	10/12/2013	Drill 8 3/4" hole from 5745' to 6416', slow rotary and pump rate for Mahogany Bench f/6100' to 7000'.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
00:00	01:00	DRLG 5745' - 5812', 67' @ 67 FPH. WOB 15-28K, 509 GPM, 3300 SPP, 150-500 DIFF, RPM 75, MTR 147, TRPM 227. VIS 51, WT 9.5 PPG
01:00	04:30	Work pipe and circulate with #1 pump, change out liner and wear plate in #2 pump.
04:30	05:00	Rig service and BOP drill
05:00	17:30	DRLG 5812' - 6281', 469' @ 37.5 FPH. WOB 15-28K, 509 GPM, 3300 SPP, 150-500 DIFF, RPM 75, MTR 147, TRPM 227. VIS 51, WT 9.5 PPG. Slow down bit and rotary f/ 6100' to 7000' for Mahogany Bench.
17:30	18:00	Rig service and BOP drill
18:00	00:00	DRLG 6281' - 6416', 132' @ 22.5 FPH. WOB 15-28K, 509 GPM, 2450 SPP, 150-500 DIFF, RPM 75, MTR 147, TRPM 227. VIS 51, WT 9.5 PPG. Slow down bit and rotary f/ 6100' to 7000'' for Mahogany Bench. Slides: 150' in 11 hrs = 13.63 fph.

Report Start Date	Report End Date	24hr Activity Summary
10/12/2013	10/13/2013	Drill, rotate/slide 8 3/4" hole from 6416' to 7102', slow rotary and pump rate for Mahogany Bench f/6100' to 7000'.

Start Time	End Time	Comment
00:00	04:00	DRLG 6416' - 6532', 116' @ 29 FPH. WOB 15-28K, 412 GPM, 2450 SPP, 150-500 DIFF, RPM 45, MTR 119, TRPM 164. VIS 51, WT 9.5 PPG. Slow down bit and rotary f/ 6100' to 7000' for Mahogany Bench.
04:00	04:30	Rig service, BOP drill, function test annular and choke
04:30	17:30	DRLG 6532' - 6871', 339' @ 26 FPH. WOB 15-28K, 412 GPM, 2450 SPP, 150-500 DIFF, RPM 45, MTR 119, TRPM 164. VIS 51, WT 9.5 PPG. Slow down bit and rotary f/ 6100' to 7000'' for Mahogany Bench.
17:30	18:00	Rig service, BOP drill, function test pipe rams and HCR
18:00	00:00	DRLG 6871' - 7102', 231' @ 38.5 FPH. WOB 15-28K, 490 GPM, 3540 SPP, 150-500 DIFF, RPM 75, MTR 142, TRPM 217. VIS 43, WT 9.6 PPG. Slides: 111' in 11.75 hrs = 9.4 fph.

Report Start Date	Report End Date	24hr Activity Summary
10/13/2013	10/14/2013	Drill, rotate/slide 8 3/4" hole from 7102' to 7725'.

Start Time	End Time	Comment
00:00	03:00	DRLG 7102' - 7160', 58' @ 19.3 FPH. WOB 15-28K, 490 GPM, 3540 SPP, 150-500 DIFF, RPM 75, MTR 142, TRPM 217. VIS 43, WT 9.6 PPG.
03:00	03:30	Rig service, BOP drill.
03:30	16:00	DRLG 7160' - 7536', 376' @ 30 FPH. WOB 15-28K, 510 GPM, 3540 SPP, 150-500 DIFF, RPM 75, MTR 148, TRPM 223. VIS 45, WT 9.8 PPG.
16:00	16:30	Rig service, BOP drill.
16:30	00:00	DRLG 7536' - 7725', 189' @ 25.2 FPH. WOB 15-28K, 485 GPM, 3440 SPP, 150-500 DIFF, RPM 75, MTR 141, TRPM 216. VIS 45, WT 9.8 PPG. Slides: 77' in 9 hrs = 8.55 fph.

Report Start Date	Report End Date	24hr Activity Summary
10/14/2013	10/15/2013	Drill, rotate/slide 8 3/4" hole from 7725' to 8099'. At 7907' gas peaked @ 7756U, holding 4000/5000U background gas w/ 8'/10' flare, increased mud wt to 10.5 ppg. Gas at 2270U w/no flare. At 22:30 Circulate to clean hole, mix and pump slug and POOH for bit and motor.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
00:00	02:00	DRLG 7725' - 7788', 63' @ 31.5 FPH. WOB 15-28K, 485 GPM, 3440 SPP, 150-500 DIFF, RPM 75, MTR 141, TRPM 216. VIS 45, WT 9.8 PPG.
02:00	02:30	Rig service/BOP drill
02:30	04:00	DRLG 7788' - 7819', 31' @ 20.7 FPH. WOB 15-28K, 485 GPM, 3440 SPP, 150-500 DIFF, RPM 75, MTR 141, TRPM 216. VIS 45, WT 9.8 PPG.
04:00	05:00	Circulate and work pipe, change out swab in # 1 pump
05:00	13:30	DRLG 7819' - 7991', 172' @ 20.2 FPH. WOB 15-28K, 485 GPM, 3440 SPP, 150-500 DIFF, RPM 75, MTR 141, TRPM 216. VIS 45, WT 9.8 PPG. At 7907' gas peaked @ 7756U, holding 4000/5000U w/ 8'/10' flare, increasing mud wt to 10.2 ppg.
13:30	14:00	Rig service/BOP drill, function test annular.
14:00	22:30	DRLG 7991' - 8099', 108' @ 12.7 FPH. WOB 15-28K, 485 GPM, 3440 SPP, 150-500 DIFF, RPM 75, MTR 141, TRPM 216. VIS 50, WT 9.8 PPG. Increased mud wt to 10.5 ppg. Gas @ 2070U w/ no flare. Slides: 20' in 1.5 hrs = 13.3 fph.
22:30	23:30	Circulate bottoms up to clear well bore, check flow, mix and pump drying slug.
23:30	00:00	PJSM,POOH f/8099', monitoring fill w/ trip tank

Report Start Date	Report End Date	24hr Activity Summary
10/15/2013	10/16/2013	PJSM, POOH f/bit and motor, back ream tight spot at 6100' ,4330' and 3998'. POOH to surface, wiping tight hole at 3992', 3650', 3555', 3175', 3060', 3051', 3029', and 2990'. POOH, change out BHA and bit, TIH, ream tight spots at 4060', 4250'and 4340', drill f/8099' to 8160'.

Start Time	End Time	Comment
00:00	11:00	PJSM, POOH, back ream tight spot at 6100' ,4330' and 3998'. POOH to surface, working tight hole at 3992', 3650', 3555', 3175', 3060', 3051', 3029', and 2990'. Monitoring trip tank.
11:00	14:00	Check flow, PJSM,Change out bit and motor, PU MM65D bit, 7:8 5.0 6 3/4" 1.83 adj. slick motor, and MWD, scribe tools
14:00	16:30	PJSM, TIH, install rotating rubber, test motor and MWD, TIH to 3194'. filling every 2000'
16:30	17:00	Rig service
17:00	22:00	TIH, filling every 2000', ream tight spots at 4060', 4250'and 4340', precautioary W/R last 190' to bottom.
22:00	00:00	DRLG 8099'' - 8160', 61' @ 30.5 FPH. WOB 15-28K, 485 GPM, 3440 SPP, 150-500 DIFF, RPM 65, MTR 141, TRPM 216. VIS 50, WT mud wt to 10.5 ppg. trip gas 8099U gas w/ 15'/20' flare.

Report Start Date	Report End Date	24hr Activity Summary
10/16/2013	10/17/2013	Drill f/ 8160' - 8631', 471' @ 21.4 FPH. WOB 15-30, vis 50, mud wt 10.6 ppg.

Start Time	End Time	Comment
00:00	00:30	Rig service, BOP drill, funcrion test pipe rams.
00:30	13:00	DRLG 8160' - 8461', 301' @ 37.6 FPH. WOB 15-30K, 435 GPM, 3440 SPP, 150-500 DIFF, RPM 80, MTR 126, TRPM 206. VIS 50, WT mud wt to 10.56 ppg.
13:00	14:00	Change out two swab in #1 pump

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
14:00	14:30	Rig service, BOP drill, function test pipe rams
14:30	00:00	DRLG 8461' - 8631', 170' @ 17.9 FPH. WOB 15-30K, 435 GPM, 3440 SPP, 150-500 DIFF, RPM 80, MTR 126, TRPM 206. VIS 50, WT mud wt to 10.6 ppg. Slides: From 8603 to 8631 (31' in 5 Hrs.)

Report Start Date	Report End Date	24hr Activity Summary
10/17/2013	10/18/2013	Drill f/ 8631' - 8895', 264' @ 26.4 FPH. WOB 15-30, vis 50, mud wt 10.6 ppg. Raise mud wt. to 10.8 ppg, pump sweeps, check flow and POOH for logs work through tight hole from 4330 to 2000' then run back in and wash and ream from 3594 to 3724

Start Time	End Time	Comment
00:00	10:00	DRLG 8631' - 8895', 264' @ 26.4 FPH. WOB 15-30K, 435 GPM, 3440 SPP, 150-500 DIFF, RPM 80, MTR 126, TRPM 206. VIS 50, WT mud wt 10.6 ppg. Raising mud wt. to 10.8 ppg. for logging and casing run. Slides: From 8730' to 8750' (20' in 3 Hrs.)
10:00	13:00	Circulate at 470 gpm, 80 rpm and raise mud wt. to 10.8 ppg. around for logging and casing run.
13:00	15:00	Circ, pump 60 bbl 80 vis sweep, wait 30 min. and pump another 60 bbl 80 vis sweep, 1st sweep yielded 20% increase inn shaker coverage, the 2nd yielded 10% increase, shakers cleaned up afterwards, check flow, pump slug.
15:00	21:00	PJSM, POOH for logs, monitoring fill with trip tank. Pulled through tight spot at 4330 and worked through then continued to pull tight and work through very tight hole from 3760 to 2150 working back through every tight spot with drill string to wipe them out, pulled out to casing shoe.
21:00	21:30	Circulate at casing shoe and call superintendent and drilling engineer about hole condition.
21:30	23:00	Trip in hole to clean out well bore. Run in from 1550 to 3450 reaming through a section from 2997' to 3023' then tagged bridge at 3594
23:00	00:00	Wash and Ream from 3594 to 3724 with 200 diff and 5 K differential torque.

Report Start Date	Report End Date	24hr Activity Summary
10/18/2013	10/19/2013	Trip back in hole, wash and ream from 3724' to 4365', trip in hole to 8865 Then break circulation and wash to bottom, lubricate rig and TDS, circulate Bottoms up (6000 u gas and 5 ft flare) and pumped Sweep 60 bbl's 100 Vis. PJSM, POOH for logs. LD 4 1/2" SWDP and directional tools. Pull wear bushing, rig up loggers and log

Start Time	End Time	Comment
00:00	01:00	Wash and ream from 3724' to 4365' with 200 PSI diff and 5 K differential torque.
01:00	04:00	Trip in hole to 8865 Then break circulation and wash to bottom.
04:00	04:30	Lubricate rig and TDS system while circulating at 440 gpm
04:30	07:30	Circulate Bottoms up (6000 u gas and 5 ft flare) and pumped Sweep 60 bbls 100 Vis then circulate sweep up while conditioning mud treating slight CO2 contamination. Mix and pump slug (45 BBLS at 12 PPG)
07:30	11:30	PJSM, POOH for logs to 2845', monitoring fill with trip tank. @ 8356 pulled 22K over, wiped spot, no abnormal drag, @ 3580' pulled 30K over, wiped spot, no abnormal drag.
11:30	12:00	Flow check, rig service.
12:00	14:00	POOH for logs from 2845', monitoring fill with trip tank, no abnormal drag.
14:00	17:30	PJSM, Pull rotating rubber, change out elevators and lay down 4 1/2" SWDP and directional BHA.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
17:30	18:30	(JSA) Pick up Joint of drill pipe and remove wear Bushing
18:30	00:00	(JSA & PJSM) Spot in and rig up Halliburton Wire line and run in with Quad combo log. Bridged out going in hole at 5550' and 6860' worked through tight spots went to bottom at 8895' started logging out and encountered tight hole at 8750' to 8680' Logged up slowly (4 to 16 ft/min) to 8000' because of tight hole.

Report Start Date	Report End Date	24hr Activity Summary
10/19/2013	10/20/2013	Log (quad Combo) rig down loggers, PJSM, Change out Burn sub and PJSM, rig up casing crew. Run 7" 29# P-110 BTC casing, from surface to 3800' with Franks Casers and LOR consulting. Break circulation at 2.3 bpm and circulate surf to surf at 5550 & wash through bridge.

Start Time	End Time	Comment
00:00	05:30	Log (quad Combo) rig down loggers.
05:30	06:00	Rig service
06:00	09:30	PJSM, Change out burn sub, rig up tawg tool, change elevator bails.
09:30	15:30	PJSM, Make up shoe track and check floats, run 7" 29# P-110 BTC casing, from surface to 3800'' with Franks Casers and LOR consulting. Fill and break circulation at 926' to check tawg tool, then 3800'.
15:30	16:30	Fill pipe and attempt to break circulation at idle speed, broke circulation then lost returns, hole standing full, called engineer and was decided to run in hole slowly with casing while building LCM in pits.
16:30	20:00	Run casing from 3800' to 5550' with no returns. Bridged out on tight spot at 5550, sting in with TOG and fill pipe.
20:00	00:00	Fill Pipe with #1 Pump and cripple #2 pump to reduce circulation rate to 2.3 BPM break circulation and circulate 80 bbl LCM pill around, then spot 80 bbl. on back side.

Report Start Date	Report End Date	24hr Activity Summary
10/20/2013	10/21/2013	Cont. Run 7" 29# csg to 8675' and circulate at 2.3 Bpm, wash to land at 8885'. Cement Csg and Install pack off in well head. Clean tanks and prepare rig and tank system for OBM

Start Time	End Time	Comment
00:00	00:30	Continue to circulate casing with 2.3 bpm at 5550' then wash down to 5580'
00:30	04:00	Run 7", 29#, P-110 with Franks Westates from 5580' to 7500' filling pipe at 6500'
04:00	04:30	(JSA) Rig and top drive service, Inspect Service loop on TDS while filling casing
04:30	06:00	Continue to Run casing from 7500' to 8675'
06:00	09:30	(JSA) Begin washing casing down with 2.3 GPM and 550 PSI from 8675' and land at 8885'
09:30	11:30	Circulate at 2.5bpm to clear floats, at 166 bbl away raised pump rate to 4 GPM. w/ minimal losses rig down casing crew.
11:30	16:30	PJSM with Halliburton and rig crew, rig up Halliburton, test lines to 3000 psi and cement 7" casing. Mix and pump 20 BBL'S of tuned spacer mixed @ 11.2 PPG.@ 4 bpm. CEMENT: 790 sks / 353 bbl Econochem cement mixed @ 11.5 ppg & 2.51 yld. and 265 sks / 61 bbl Bondchem cement mixed @ 14.0 ppg & 1.3 yld @ 5 bpm. displaced with 314 bbl 13.8 ppg OBM, bumped plug with 440 psi @ 15:30 hrs., pressured to 2000 psi, held for 30 min. released, floats held, bled back 2.5 bbl. returned 0 bbl of tuned spacer and 0 bbl of cement to surface. full returns throughout the job. Flush out BOPE and rig down Cement Equipment.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
16:30	17:00	(JSA) Lubricate rig and Top Drive system.
17:00	18:00	(JSA) Break out and lay down Landing Joint, Rig down Casing Elevators and elevator links, Install regular elevator links and 4 1/2" elevators.
18:00	20:00	(JSA) Install "Weld-a-ment" and Bit guide in well head with Cameron well head Tech.
20:00	00:00	(JSA & PJSM) Clean Mud tanks with 4C Super-vac Crews. Function test Pipe and Blind rams, Function test HCR valve and Choke, Change Burn sub and install Pipe guide on TDS system. Load and Remove all Water mud product and materials from Location with Randy Vincent Trucking. Clean Rig floor and sub, Rig up pipe racks for BHA

Report Start Date	Report End Date	24hr Activity Summary
10/21/2013	10/22/2013	Clean and fill pits with OBM, PU directional assembly, TIH, slip and cut DL, PU singles to replace 4 1/2" HWDP. Drilled cement and FIT / LOT to 15.8 EMW then drill from 8905' to 8956'

Start Time	End Time	Comment
00:00	02:00	Continue to Clean Mud tanks with 4C Super Vac. Fill tanks with OBM from Storage Dress Shakers with 200 API screens, Circulate Mud with Gun lines to roll and condition mud. Prime up Mud Pumps.
02:00	05:00	(JSA) Pick up and adjust LEAM Mud motor (ser #: 4751-612) to 2.38 deg. Make up Security MM64 bit (ser #: 12215406). Then Pick up and Scribe Leam LWD- Directional Tools.
05:00	05:30	Make up first stand and circulate through BHA. Shallow test OK
05:30	06:00	Lubricate Rigf and Top Drive.
06:00	12:30	PJSM, TIH to 7900', filling every 2000'.
12:30	14:30	PJSM, Slip and cut 181' drilling line.
14:30	15:00	Top drive service
15:00	17:00	(JSA) Pick up DP singles and trip in hole, tag plug and float at 8794'
17:00	18:00	Drill Cement and 10' of hew formation to 8905' Drilled float collar at 8795' and shoe at 8885'. Perform BOP drill and close Pipe rams (all hands at stations and well secure in 60 seconds)
18:00	19:30	Circulate, clean hole and condition mud for FIT test. MW: 13.7 in and out.
19:30	20:30	(JSA) Perform FIT test with B&C Quick test to Leak off of to 980 psi for equivelent mud weight of 15.82 ppg
20:30	00:00	Drilled 51' of 6 1/8" hole from 8905' to 8956' at 14.5 FPH with 8 to 10 K WOB and 20 RPM with 300 PSI differential Max with 3200 Psi at 240 GPM Slide: From 8940' to 8956' (16' in 2 Hr.) MW: at 13.6 ppg

Report Start Date	Report End Date	24hr Activity Summary
10/22/2013	10/23/2013	Drilling from 8956 to 9207'. kick off and drill curve f/ 9207' to 9329' @ 7 fph avg.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
00:00	04:30	Drilled 114' of 6 1/8" hole from 8956' to 9070' at 14.5 FPH with 8 to 10 K WOB and 20 RPM with 300 PSI differential Max with 3200 Psi at 240 GPM Slide: From 9037' to 9044' (7' in 1.5 Hr.) MW: at 13.5 ppg
04:30	05:00	Rig service
05:00	08:30	Drilled 137' of 6 1/8" hole from 9070' to 9207' at 39 FPH with 10 to 20 K WOB and 20 RPM with 300/500 PSI differential Max with 3320 Psi at 240 GPM MW: at 13.5 ppg
08:30	13:00	Slide: From 9207' to 9255' (48' in 4.5 Hr.) at 11.8 FPH with 10 to 20 K WOB and 128 RPM at bit with 30/120 PSI differential Max with 3820 Psi at 280 GPM MW: at 13.7 ppg
13:00	13:30	(JSA) Service draw works and Top Drive system. Inspect TDS service loop.
13:30	00:00	Drilled 74' of 6 1/8" hole from 9255' to 9329' at 7 FPH with 10 to 20 K WOB and 128 RPM with 60 to 100 PSI differential with 3420 Psi at 270 GPM MW: at 13.7 ppg

Report Start Date	Report End Date	24hr Activity Summary
10/23/2013	10/24/2013	Drilling Curve from 9329' to 9424' @ 4.4 fph avg.

Start Time	End Time	Comment
00:00	05:30	Drilled 39' of 6 1/8" hole from 9329' to 9368' with 10 to 20 K WOB and 126 RPM with 60 to 500 PSI differential with 2820 Psi at 238 GPM MW: at 13.7 ppg Slides: 39' in 5.5 hrs= 7 fph.
05:30	06:00	(JSA) Routine rig service, Lubricate Draw works and top drive system. Inspect brakes and lincages.
06:00	17:30	Drilled 49' of 6 1/8" hole from 9368' to 9417' with 10 to 20 K WOB and 126 RPM with 60 to 500 PSI differential with 2820 Psi at 238 GPM MW: at 13.7 ppg Slides: 49' in 11.5 hrs= 4.3 fph.
17:30	18:00	Rig service
18:00	22:30	Drilled 7' of 6 1/8" hole from 9417' to 9424' with 10 to 20 K WOB and 126 RPM with 60 -70 PSI differential with 2660 Psi at 232 GPM MW: at 13.7 ppg Slides: 100% Slide 7' in 5.5 Hrs @ 1.2 FPH
22:30	23:30	(JSA) Back ream curve from 9424' to 9207' Then wash and ream curve section from 9207 to 9424 while filling trip tank and mixing pill
23:30	00:00	Pull out of hole to reconfigure Drilling Assembly and inspect bit and motor. Pump pill and pull out of the hole from 9424' to 9250'

Report Start Date	Report End Date	24hr Activity Summary
10/24/2013	10/25/2013	Change out BHA and TIH to 9195', W/R to bottom. Drill from 9424 to 9504 (100% Slide), Cut Mud weight back to 13.3 ppg

NEWFIELD

Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
00:00	05:30	Pull out of hole to reconfigure Drilling Assembly and inspect bit and motor. Pump pill and pull out of the hole from 9250' to surface. Break out and inspect bit and Motor Graded bit 0-1-ND
05:30	06:00	(JSA) Lubricate rig and TDS, Inspect rotary tongs and perform Blind ram Function test.
06:00	08:00	PJSM, LD 2.38° assembly and PU 2.12° assembly and Smith XR20T bit jetted with 3/18 TFA .745, scribe and test tools.
08:00	11:30	PJSM, TIH to 6081', filling every 2000'
11:30	12:00	Rig service, BOP drill, function test pipe rams
12:00	14:30	TIH from 6081' to 9207', filling every 2000'
14:30	15:30	W/R from 9195' to 9424', no noticeable fill.
15:30	00:00	Drilled 80' of 6 1/8" hole from 9424' to 9504' with 10 to 20 K WOB and 64 RPM with 60 -70 PSI differential with 3200 Psi at 260 GPM MW: Cut Mud weight from 13.7 ppg back to 13.3 ppg. Dressed Shakers with API 230 screens. Slides: 100% Slide 80' in 8.5 Hrs @ 9.4 FPH KREV on Bit = 33 K

Report Start Date	Report End Date	24hr Activity Summary
10/25/2013	10/26/2013	Drilling from 9504' to 9706'

Start Time	End Time	Comment
00:00	00:30	Drilled 5' of 6 1/8" hole from 9504' to 9509' with 18 to 28 K WOB and 69 RPM with 60 -70 PSI differential with 3200 Psi at 260 GPM MW: 13.3 ppg. Slides: 100% Slide 5' in .5 Hrs @ 10 FPH Total KREV on Bit = 35 K
00:30	01:00	(JSA) Routine rig service, Service and inspect TDS
01:00	17:30	Drilled 161' of 6 1/8" hole from 9509' to 9670' with 18 to 40 K WOB, TD rpm 30 and 69 bit RPM with 60 -120 PSI differential with 3200 Psi at 260 GPM MW: 13.2 ppg. Slides: 137' in 13.5 Hrs @ 10 FPH Total KREV on Bit = 109 K
17:30	18:00	Rig service, BOP drill, function test annular.
18:00	00:00	Drilled 36' of 6 1/8" hole from 9670' to 9706' with 18 to 40 K WOB, TD rpm 30 and 69 bit RPM with 60 -120 PSI differential with 3200 Psi at 260 GPM MW: 13.2 ppg. Slide:30' in 5.5 Hrs @ 5.45 fph Rotate: 6' in .5 Hrs @ 12 FPH Total KREV on Bit = 134 K

Report Start Date	Report End Date	24hr Activity Summary
10/26/2013	10/27/2013	Drilling from 9706' to 9896'

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
00:00	05:30	Drilled 52' of 6 1/8" hole from 9706' to 9758' with 18 to 28 K WOB, top drive rpm 30 and 69 bit RPM with 60 -120 PSI differential with 3200 Psi at 260 GPM MW: 13.2 ppg. Slide:31' in 4.5 Hrs @ 6.88 fph Rotate: 21' in 1 Hrs @ 21 FPH Total KREV on Bit = 159 K
05:30	06:00	(JSA) Rig service - Lubricate rig and top drive. inspect top drive and service loop.
06:00	12:00	Drilled 60' of 6 1/8" hole from 9758' to 9818' with 18 to 28 K WOB, top drive rpm 30 and 69 bit RPM with 60 -120 PSI differential with 3200 Psi at 260 GPM MW: 13.2 ppg. Slide:42' in 3.75 Hrs @ 11.2 fph Rotate: 18' in 1.5 Hrs @ 12 FPH Total KREV on Bit = 183 K
12:00	12:30	Rig service, BOP drill, function test pipe rams.
12:30	20:30	Drilled 78' of 6 1/8" hole from 9818' to 9896' with 18 to 28 K WOB, top drive rpm 30 and 69 bit RPM with 60 -120 PSI differential with 3200 Psi at 260 GPM MW: Raised Mud weight from13.2 to 13.8 ppg. Slide:49' in 6 Hrs @ 8.1 fph Rotate: 29' in 2 Hrs @ 14.5 FPH Total KREV on Bit = 220 K
20:30	22:30	Back ream out f/ 9896' to 9207',
22:30	23:00	Check flow, pump drying slug
23:00	00:00	POOH to change out bit and BHA, monitoring trip tank.

Report Start Date	Report End Date	24hr Activity Summary
10/27/2013	10/28/2013	Finish LD Leam tools, the TIB box to comunicate w/ IPZG was faulty, PU Pathfinder MWD, and Leam 1.83° motor and TIH, circ BU @ casing shoe, TIH, drill f/9896' to 9940'.

Start Time	End Time	Comment
00:00	04:30	Finish POOH for BHA, hole taking proper fill
04:30	05:30	LD Leam motor, MWD and tools, function test blind rams.
05:30	06:00	Rig service
06:00	11:00	PU Leam 1.5° adj motor and Pathfinder IPZG, TIB box to comunicate w/ IPZG was faulty, contacted engineer and decicion was made to run 1.83° motor and Pathfinder MWD and Gama tools to land curve and drill lateral. TIH 2 stds, install rotating head rubber and test MWD.
11:00	16:00	(JSA) TIH with lateral asembly to 2924', PU agitator and shock sub, test and TIH fill pipe at 4000', 6022', 8030, continue in hole to 8750'
16:00	16:30	(JSA) Pull out old Rotating head rubber and install a new Rubber.
16:30	17:00	(JSA) Rig service, Lubricate Blocks and crown as well as draw works and traveling assembly

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
17:00	17:30	Trip in hole from 8750' to 9206'
17:30	18:30	Circulate bottoms up and test MWD/LWD tools MW in: 13.8 / MW out:13.8 Trip Gas at bottoms up: 5470U with 15' Flare
18:30	19:30	PJSM, Trip in hole from 9206' to 9896' with no problems
19:30	00:00	Drilled 44' of 6 1/8" hole from 9896' to 9940' with 8 to 10 K WOB, top drive rpm 30 and 121 bit RPM with 80 -170 PSI differential with 3270 Psi at 230 GPM. BU from 9896' yieling 4480U w/ 20' flare lasting 15 min. MW: 13.8 ppg. 100% Slide:44' in 4.5 Hrs @ 9.8 fph

Report Start Date	Report End Date	24hr Activity Summary
10/28/2013	10/29/2013	Drill f/9940' to 10599'. Land curve @ 10,350' MD, 9669' TVD, 1830' VS, per/Geo-Link

Start Time	End Time	Comment
00:00	02:00	Drilled 31' of 6 1/8" hole from 9940' to 9971' with 8 to 20 K WOB, top drive rpm 40 and 121 bit RPM with 80 -170 PSI differential with 3270 Psi at 230 GPM. MW: 13.8 ppg. 100% Slide:31' in 2 Hrs @ 15.5 fph
02:00	02:30	Rig service
02:30	14:30	Drilled 379' of 6 1/8" hole from 9971' to 10350' with 8 to 20 K WOB, top drive rpm 40 and 121 bit RPM with 80 - 170 PSI differential with 3270 Psi at 230 GPM. Landed curve @ 10,350' MD, 9669' TVD, 1830' VS, per/Geo-Link. Raised Mud weight from 13.8 to 14.2 ppg Peak solids control equipment dissabled due to a control pannel issue. Current MW: 14.2 ppg. Slide:60' in 3.5 Hrs @ 17 fph
14:30	17:30	Drilled 61' of 6 1/8" hole from 10350' to 10411' with 8 to 20 K WOB, top drive rpm 60 and 121 bit RPM with 80 - 450 PSI differential with 3790 Psi at 230 GPM., Peak solids control equipment dissabled due to a control pannel issue. Current MW: 14.2 ppg. Slide:20' in 1 Hrs @ 20 fph
17:30	18:00	(JSA) Lubricate rig and top drive system, Inspect service loop on TDS
18:00	00:00	Drilled 188' of 6 1/8" hole from 10411' to 10599' with 8 to 20 K WOB, top drive rpm 40 and 121 bit RPM with 80 - 170 PSI differential with 3270 Psi at 230 GPM. Peak solids control equipment dissabled due to a control pannel issue. Current MW: 14.2 ppg. Slide:20' in 1 Hrs @ 20 fph

Report Start Date	Report End Date	24hr Activity Summary
10/29/2013	10/30/2013	Drill f/ 10599' to 11669'

Start Time	End Time	Comment
00:00	06:00	Drilled 251' of 6 1/8" hole from 10599' to 10850' with 8 to 20 K WOB, top drive rpm 60 and 121 bit RPM with 80 - 450 PSI differential with 3750 Psi at 230 GPM. Mud weight 14.2 ppg Peak solids control equipment dissabled due to a control pannel issue. Slide:37' in 2 Hrs @ 18.5 fph

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
06:00	06:30	Rig service
06:30	17:00	Drilled 516' of 6 1/8" hole from 10850' to 11416' with 8 to 20 K WOB, top drive rpm 60 and 121 bit RPM with 80 - 450 PSI differential with 3750 Psi at 230 GPM. Mud weight 14.2 ppg Slide:45' in 3.5 Hrs @ 12.8 fph
17:00	17:30	(JSA) Lubricate rig and top drive system, Inspect service loop on TDS
17:30	00:00	Drilled 253' of 6 1/8" hole from 11416' to 11669' with 8 to 20 K WOB, top drive rpm 60 and 121 bit RPM with 80 - 450 PSI differential with 3750 Psi at 230 GPM. Mud weight 14.2 ppg Slide:20' in 1.5 Hrs @ 13.3 fph

Report Start Date	Report End Date	24hr Activity Summary
10/30/2013	10/31/2013	Drill f/ 11769' to 12244'

Start Time	End Time	Comment
00:00	05:30	Drilled 125' of 6 1/8" hole from 11669' to 11794' with 8 to 20 K WOB, top drive rpm 60 and 121 bit RPM with 80 - 450 PSI differential with 3750 Psi at 230 GPM. Raised mud weight from 14.2 ppg to 14.4 ppg. Slide:20' in 3 Hrs @ 6.6 fph
05:30	06:00	(JSA) Rig service
06:00	16:00	Drilled 303' of 6 1/8" hole from 11794' to 12097' with 8 to 20 K WOB, top drive rpm 60 and 121 bit RPM with 80 - 450 PSI differential with 3750 Psi at 230 GPM. MW: 14.4 ppg. Slide:46' in 5.75 Hrs @ 8 fph
16:00	16:30	(JSA) Rig service
16:30	00:00	Drilled 147' of 6 1/8" hole from 12097' to 12244' with 8 to 20 K WOB, top drive rpm 60 and 121 bit RPM with 80 - 450 PSI differential with 3750 Psi at 230 GPM. MW: 14.4 ppg. Slide: 68' in 5.5 Hrs @ 12.4 fph

Report Start Date	Report End Date	24hr Activity Summary
10/31/2013	11/1/2013	Drlg f/ 12244 to 12789'

Start Time	End Time	Comment
00:00	05:30	Drilled 73' of 6 1/8" hole from 12244' to 12317' with 8 to 20 K WOB, top drive rpm 60 and 121 bit RPM with 80 - 450 PSI differential with 3750 Psi at 230 GPM. MW: 14.4 ppg. Slide: 52' in 4 Hrs @ 13 fph
05:30	06:00	PJSM,Rig service
06:00	15:30	Drilled 151' of 6 1/8" hole from 12317' to 12468' with 8 to 20 K WOB, top drive rpm 60 and 121 bit RPM with 80 - 450 PSI differential with 3750 Psi at 230 GPM. MW: 14.4 ppg. Slide: 57' in 6 Hrs @ 9.5 fph
15:30	16:00	(JSA) Lubricate rig and top drive system, Inspect service loop on TDS

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
16:00	00:00	Drilled 321' of 6 1/8" hole from 12468' to 12789' with 8 to 20 K WOB, top drive rpm 60 and 121 bit RPM with 80 - 450 PSI differential with 3750 Psi at 230 GPM. MW: 14.4 ppg. Slide: 18' in 1.5 Hrs @ 12 fph

Report Start Date	Report End Date	24hr Activity Summary
11/1/2013	11/2/2013	Drill f/ 12789' to 13618', trouble shoot MWD, circ BU, check flow, pump slug and POOH monitoring trip tank.

Start Time	End Time	Comment
00:00	05:30	Drilled 186' of 6 1/8" hole from 12789' to 12975' with 8 to 20 K WOB, top drive rpm 60 and 121 bit RPM with 80 - 450 PSI differential with 3850 Psi at 220 GPM. MW: 14.4 ppg. Slide: 22' in 2 Hrs @ 11 fph
05:30	06:00	PJSM, Rig service
06:00	16:00	Drilled 455' of 6 1/8" hole from 12975' to 13430' with 8 to 20 K WOB, top drive rpm 60 and 121 bit RPM with 80 - 450 PSI differential with 3850 Psi at 220 GPM. MW: 14.4 ppg. Slide: 14' in 1 Hrs @ 14 fph held rig evacuation drill.
16:00	16:30	(JSA) Lubricate rig and top drive system, Inspect service loop on TDS, Function test Crown-O-Matic and function test pipe rams.
16:30	00:00	Drilled 188' of 6 1/8" hole from 13430' to 13618' with 8 to 20 K WOB, top drive rpm 60 and 121 bit RPM with 80 - 450 PSI differential with 3850 Psi at 220 GPM. MW: 14.4 ppg. Slide: 29' in 3.5 Hrs @ 8.3 fph Trouble shoot MWD

Report Start Date	Report End Date	24hr Activity Summary
11/2/2013	11/3/2013	Trouble shoot MWD, Circulate and pull out of hole to 650' Stop work, secure well and evacuate rig due to structural issue.

Start Time	End Time	Comment
00:00	00:30	(JSA) Lubricate draw works and top drive systems.
00:30	02:30	Circulate and Trouble Shoot MWD tool failure. Circulate bottoms up and Build and pump slug
02:30	06:30	(JSA) Pull out of hole for MWD tool. Trip out from 13618' to 8800' pulling slowly to prevent swabbing with thick mud, monitor well on trip tank and record on trip sheet. Check well for flow at 12000', 10890', 9800' and break circulation at 8800'
06:30	08:30	Break circulation at 8800' and circulate bottoms up two times to ensure mud weight at 14.4+ mix and pump 30 bbl's slug
08:30	15:00	(Review JSA) Continue to pull out of hole slowly (60 fpm) to prevent swabbing. Pull to 645', with the derrick full of pipe the rig crew noticed a problem with the derrick and racking board.
15:00	17:00	Stop work, Structural issue reported to tool pusher and drilling forman at 14:55. Make assesment of issue and call Pioneer and Newfield superentendents and safety men. Secure well and evacuate rig and location at 15:00. perform risk assesment and creat a temporary risk mitigation plan.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
17:00	00:00	Hold safety meeting with crew and rig up off site command center and additional light towers. Monitor well for casing pressure. Started to see an increase in pressure at 22:00 with 6 PSI then by 00:00 it had raised to 27 PSI

Report Start Date	Report End Date	24hr Activity Summary
11/3/2013	11/4/2013	Monitor Pressure on well then perform risk assessment and hold safety meeting with rig and crane crew. Began rigging up Crane but work was stopped due to high winds. Monitor casing pressure and bleed off as needed.

Start Time	End Time	Comment
00:00	09:00	Monitor casing pressure, hold safety meeting with rig crew. hold JSA and Bleed pressure from 85 PSI down to 35 PSI.
09:00	11:30	Hold Safety meeting and JSA with J&C Crane, rig up crane and "weight test" man basket and prepare to move in and begin inspection of mast. The wind speed increased rapidly while preparing to move the crane so work was stopped untill weather conditionds improved. Rig up Pason monitor and pason choke remote at off sight command center.
11:30	00:00	Monitor casing pressure. bleed pressure down to 35 psi at 16:10, f/98 PSI to 20 PSI at 17:45, f/98 PSI to 20 PSI at 19:00, f/99 PSI to 24 PSI at 20:30, with no indication of fluids gain and no flame at flare line. Was decided to let casing pressure build to 300 PSI. From 20:30 to 00:00 pressure built to 118 PSI. With small stream of mud down the outside of DP.

Report Start Date	Report End Date	24hr Activity Summary
11/4/2013	11/5/2013	Continue to monitor casing pressure. Inspect derrick, racking board and sub, install additional guy wire, open well, check flow and TIH to circ and cond mud.

Start Time	End Time	Comment
00:00	08:00	Continue to monitor casing pressure. 05:00 to 06:00, increased f/128 psi to 130 psi, breaking back to 120 psi and fluctuating from 120 to 130 psi.
08:00	18:00	Hold Safety meeting with Rig crew and crane crew. Review JSA for Derrick inspection from Crane basket. Moved in and rigged up crane, hoisted DSI Inspector and Pioneer region manager in crane basket to inspect tubing board and upper mast and dog assembly (Found no damage to derrick board or upper mast). Inspect lower mast, racking board and sub base beams under floor (Determined that failure was possibly due to pipe racked improperly and board guy lines not adjusted correctly, this allowed the pipe to shift and when the weight of the racked pipe transferred to drillers side the board guy pulled tight but did not prevent the board and top section from twisting). Wait for Pioneer and DSI to engineer a solution while monitoring casing pressure (holding at 130 psi). DSI determined that the structure was "safe" but needed to be righted prior to tripping in the hole. Held conference call with Pioneer and Newfield management, Plan was engineered to attach a secondary guy wire to the tubing board and pull it to the pit side to take the twist out of upper mast. 15:00 Hold JSA with team. 15:30 Bleed casing pressure off (no mud returns) and set slips then make up top drive to drill pipe connection. Hold JSA with team and execute plan, secure pipe in derrick with ratchet straps, hoist rig manager in crane basket to attach a guy cable to pit side of derrick board, pull tension on cable to right top section and tubing board. Bleed pressure off and pump through kill line until returns were established to fill hole (2.4 BBLs). Open IBOP and circulate down drill string and out through choke to ensure circulation was possible. Check for flow (No flow) Open Hydrill and close HCR and super choke circulate 5 bbl's through drill string. Prepare to trip in hole.
18:00	21:00	PJSM, TIH to 4000' monitoring displacement to trip tank, check flow every 12 stands
21:00	22:00	Circulate two BU bring pump up slowly to 194 gpm, mud wt 14.5 ppg Vis 79 w/270U of gas.
22:00	23:00	TIH to 5400' monitoring displacement to trip tank, check flow every 12 stands
23:00	23:30	Rig service, lubricate TD, check TD electrical lines.

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Start Time	End Time	Comment
23:30	00:00	TIH to 6240' monitoring displacement to trip tank, check flow every 12 stands

Report Start Date	Report End Date	24hr Activity Summary
11/5/2013	11/6/2013	TIH to bottom, circ and cond, inspect derrick, POOH for MWD and directional tools to 12000', work on derrick board, TIH, wait for Pioneer to get board right.

Start Time	End Time	Comment
00:00	00:30	Circ BU @ 6240', mud wt 14.6 vis 73, 193U of gas
00:30	02:30	TIH to 6240' monitoring displacement to trip tank, check flow every 12 stands
02:30	03:30	Circ BU @ 8895', 192 gpm, mud wt 14.6 vis 70, 4889U of gas with 10' flare lasting 15 min.
03:30	05:30	Slip and cut 100' DL.
05:30	07:30	(JSA) Trip in from 8924' to 10826
07:30	10:00	Circulate Bottoms up on gas buster, 15' to 25' flare with 4670 U of gas
10:00	11:00	(JSA) Trip in from 10826' to 12201'
11:00	13:00	Circulate bottoms up on gas buster, 15' to 25' flare with 5000u of gas
13:00	13:30	(JSA) Trip in hole from 12201' to 13596'
13:30	17:30	Condition mud and circulate bottoms up 40' to 45' flare with 5770 u of gas, continue circulating with high rotation to clean up well bore and condition mud. Raise mud weight from 14.4+ to 14.6+
17:30	18:00	PJSM, Rig service
18:00	20:00	Condition mud and circulate with no flare, 435 u of gas, continue circulating with high rotation to clean up well bore and condition mud. mud weight @14.6+ in 14.6+ out. Mix drying slug, check flow, pump slug.
20:00	22:00	(JSA) Pull out of hole for MWD and directional tools. Trip out from 13618' to 12000' pulling slowly to prevent swabbing with thick mud, monitor well on trip tank and record on trip sheet. Check well for flow at 12800', 12000'.
22:00	00:00	With 25 stands racked on off driller's side of racking board, attempted to rack pipe on driller's side, pipe leaning too much to trip out safely, work pipe freely and attempt to tighten guy wires to straiten derrick board with no success, decision was made to trip back to bottom and circulate and wait on Pioneer's solution to the problem.

Report Start Date	Report End Date	24hr Activity Summary
11/6/2013	11/7/2013	TIH to 13618', Condition mud and circulate bottoms up 15' to 20' flare with 4570 u of gas, continue circulating with high rotation to clean up well bore and wait for Pioneer to hang guy wires to pull derrick board into position. ,Replace Guy wires on Derrick Board. Increase Mud weight from 14.6 to 14.9, Rig service, Check well for flow, (JSA) Trip out of hole, Pull out with Pump in at 178 GPM to reduce Swabbing. Pull out at 60' per minute, check for flow every ten stands From 13600' to 11710' with no abnormal drag,TOOH on elevators f/11,710' t/ 8900' , Circulate bottoms up @ casing shoe, pump slug and continue to TOOH f/8900' t/ 5,497'

Start Time	End Time	Comment
00:00	01:30	TIH to 13618'
01:30	05:30	Condition mud and circulate bottoms up 15' to 20' flare with 4570 u of gas, continue circulating with high rotation to clean up well bore and wait for Pioneer to hang guy wires to pull derrick board into position. Mud weight t/14.6+
05:30	06:00	(JSA) Rig service

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Start Time	End Time	Comment
06:00	11:30	(JSA) Condition mud and circulate, Replace Guy wires on Derrick Board. Increase Mud weight from 14.6 to 14.9, Check well for flow.
11:30	15:30	(JSA) Trip out of hole, Pull out with Pump in at 178 GPM to reduce Swabbing. Pull out at 60' per minute, check for flow every ten stands From 13600' to 11710' with no abnormal drag.
15:30	16:00	RE-Mix Slug and pump at 178 GPM
16:00	19:00	(JSA) Pull out of hole from 11710 to 8900', perform BOP drill during TOOH
19:00	21:30	Circulate bottoms up @ casing shoe, 80 SPM, max gas 4194 units, shut down pumps perform flow check ,
21:30	00:00	(JSA) pump trip slug and Continue to pull out of hole from 8900' t/ 5,497', while monitoring well at trip tank

Report Start Date	Report End Date	24hr Activity Summary
11/7/2013	11/8/2013	Trip out of hole change out directional BHA, test MWD and mud motor, TIH,Rig service, Circulate and condition mud cutting mud weight f/ 14.9 ppg t/ 14.6 ppg, while Tripping back in the hole Stopping every 4000' in casing and 2000' in open hole

Start Time	End Time	Comment
00:00	04:00	TOOH f/ 5,497' T/ Surface while monitoring well on trip tank
04:00	05:30	Drain mud motor, break bit, change out mud motor, and MWD,
05:30	06:00	(JSA) Rig service, Lubricate rig and top drive.
06:00	08:00	(JSA & PJSM) Pick up Mud motor (Leam 1.83 deg.) and make up bit (Rerun Bit #6), Pick up and scribe Schlumberger directional tools. Pick up 1 stand drill pipe and test tool.
08:00	11:00	(JSA) Trip in hole from 128' to 4000'
11:00	13:30	Circulate and condition Mud, Adding Diesel at 2 gpm and running Centerfudge to reduce weight to 14.7 ppg to reduce surge and swab Pressures.
13:30	17:00	Trip in hole from 4000' to 8800'
17:00	19:00	Circulate and condition mud, adding diesel @ 1 GMP and running centerfuge to reduce mud weight to a 14.6 ppg to reduce surging pressures
19:00	20:30	Trip in the hole f/ 8800' t/ 10,500'
20:30	22:00	Circulate and condition mud, at 10,500' circulate 1 1/2 bottoms up , while cutting mud weight to 14.6 ppg to reduce surging pressures, circulate @ 75 SPM, 3785 Units of gas , 5-8' flare
22:00	23:30	Trip in the hole f/ 10,500' t/ 12,000' hole took 28K @ 11,516' made up top drive and wash and reamed w/ 2K WOB worked through 2 times continue to TIH t/ 11,696' starting taking weight washed and reamed 2 times worked freely so continued to TIH t/ 12,000'
23:30	00:00	Circualte and condition mud, at 12,000' Circulate bottoms up and cut weight back to 14.6ppg @ 75 SPM, 3721 units of gas

Report Start Date	Report End Date	24hr Activity Summary
11/8/2013	11/9/2013	Circulate cut mud wt t/ 14.6 ppg, TIH f/ 12000' t/ 13174' , wash and ream f/13174' t/ 13555, relog gamma f/13555' t/ 13618' Drilled lateral f/ 13618' t/ 14195' , TD well 14,195 11-08-13 @ 15:50 pm, circulate clean up cycle while changing liners and swab in #1 mud pump, TOH f/ 14195' t/ 13255'

NEWFIELD

Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
00:00	01:30	Circualte and condition mud, at 12,000' Circulate bottoms up and cut weight back to 14.6ppg @ 75 SPM, 3721 units of gas
01:30	02:30	Trip in the hole f/ 12000' t/ 13,174', hole taking weight made up top drive and break circulation
02:30	04:00	Wash and ream f, 13,174' t/ 13,555' with 75 SPM, 45 RPM, wash and ream with no problems, Relog Gamma f/ 13,555' t/ 13,618' with 75 SPM, 50 RPM, @ 180' per hr
04:00	16:00	Drilled 577' of 6 1/8" hole from 13,618' to TD at 14,195' with 10 to 15 K WOB, top drive rpm 75 and 106 bit RPM with 320 -425 PSI differential with 3510 Psi at 205 GPM. MW: 14.6 ppg. We drilled across the 660 setback at MD 14055' then drilled 140 ft of rat hole for casing shoe track. TD at 14195' at 15:50 Pm on 11/8/2013
16:00	17:30	Circualte and condition mud perform clean up cycle 220 gpm, 80 RPM, rotating pipe up and reaming back down @ 6-7' per minute, while changing liners and swabs in the #1 mud pump to 4 1/2" liners
17:30	18:00	Routine rig service on crown , blocks , and top drive.
18:00	22:00	Continue to Circualte and condition mud perform clean up cycle 220 gpm, 80 RPM, rotating pipe up and reaming back down @ 6-7' per minute, while changing liners and swabs in the #1 mud pump to 4 1/2" liners, build 85 bbls of 16.5 ppg pill, maintain 14.6 ppg in active, fill trip tank, washed a module on #2 mud pump while circulating shut down pump
22:00	00:00	perform flow check (well static) Couldnt circulate due to washed module, and chaging liners and swabs, TOOH f/ 14,195' t/13255' to run logs with haliburton, pulling at 20 feet per minute monitoring well on trip tank

Report Start Date	Report End Date	24hr Activity Summary
11/9/2013	11/10/2013	POOH for logs f/ 13255' t/ surface , lay down directional tools, service rig, clean rig floor from OBM, rig up haliburton logging tools, TIH to 3000' Circualate out half of 16.5 ppg weight kill pill, TIH f/ 3000' t/ 5000'

Start Time	End Time	Comment
00:00	02:00	(JSA) Pump Two-Spot-Pill to add 200 PSI to bottom hole pressure and kill balance well (15 ppg emw). Line up pump suctions to pill tank and pump 959 strokes (42.5 bbl's) of 16.5 ppg mud,Switch to active and pump 5618 strokes (248 bbl's) of 14.6 ppg,Then pump 927 Strokes (41 bbl) 16.5 ppg, pump 180 stokes of 14.6 ppg to clear heavy mud in mud line. Weighted pill #1 spotted in annulus from 4000' to 2000'. Weighted pill #2 spotted in drill string from 4500' to 500'. Observed 4195 units of gas (3' flare) on bottoms up.
02:00	05:30	Continue to POOH for logs from 13,255' to 8700', while monitoring well on trip tank and recording with trip sheet.
05:30	06:00	(JSA) Lubricate Rig and top drive
06:00	13:00	(JSA) Pull out of hole for logs from 8700' to surface. Fill and monitor well with trip tank and record proper displacement with trip sheet. Ray Davis Derrick inspector with DSI on location to inspect derrick while racking pipe .
13:00	14:30	(JSA) Lay down and load out Directional and MWD tools. Break and inspect bit (0-1-WT-A-X-I-PN-TD) it had no abnormal wear or damage however it did have one plugged nozzle.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
14:30	15:30	Clean Rig Floor and move tools off catwalk and pipe rack area, Load out directional and MWD tools. Spot in Halliburton loggin truck and unload tools.
15:30	16:00	Hold Safety Meeting with Rig crew and Halliburton Logging.
16:00	19:00	Rig up quad combo logging tools with haliburton - Pick up and make up as followed, Bull nose SP ring, Array compensated true resistivity Sonde section and Instrument section,Flex joint - Pressure - compensated,Oil based imaging - Mandrel and Instrument, Regal standoff 6.75 " , WaveSonic Insite, Flex joint - Pressure compensated, Density Insite Pad, Spectral Density Tool, Dual Spaced Neutron, IQ Flex tool, Gamma Telemetry Tool, Downhole Tension Device, Flex joint - Pressure compensated, Regal standoff 6.75", Test- Total length 146.98'
19:00	21:00	Trip in the hole with logging tools @ 90' per min monitoring well at trip tank and recording on trip sheet to / 1000' fill pipe break circualtion, Continue to TIH f/1000' t/ 3000' monitoring well on trip tank and recording on trip sheet
21:00	22:00	Circulate bottoms up @ 3000' max trip gas 1287 units, circulating out half of 16.5 ppg weight kill pill from well
22:00	00:00	Trip in the hole f/ 3000' t/ 5000' @ 90' per min while monitoring well on trip tank recording displacment volumes on trip sheet

Report Start Date	Report End Date	24hr Activity Summary
11/10/2013	11/11/2013	Circulate kill pill out of hole @ 5000' , continue to TIH to casing shoe @ 8800' , circulate bottoms up , rig up side entry sub run in wireline and latch tools, rig service, TIH f/8800' t/ 11500' Circulate bottoms up , Continue to TIH f/ 11500' t/ 14195', Circulate 2x bottoms up , pump weighted kill pill flow check , attempt to open calipers on logging tools unsecsessful so trip out of hole to side entry sub to troubleshoot problem

Start Time	End Time	Comment
00:00	00:30	Circulate 16.5 ppg Weighted Kill Pill Out Of Hole @ 5000' with 74 SPM, 1089 Units of gas
00:30	03:30	Continue to Trip in the hole with logs @ 90' per minute f/ 5000' t/ 8800' whle monitoring well on trip tank recording displacment volumes on trip sheet
03:30	05:30	Circulate bottoms up @ casing shoe 8800' max gas units 1283 units , While rigging up wireline sheave in the derrick, side entry sub and run in with wireline.
05:30	06:00	(JSA) Lubricate rig and top drive system, Inspect service loop on TDS
06:00	07:30	Run in hole with wireline and latch up electronic wireline coupler.
07:30	12:00	(JSA) Trip in hole with side entry logging tools (Quad Combo) from 8830' to 11500' at 35 ft/minute.
12:00	13:30	(JSA ON WELL CONTROL) Circulate bottoms up with 200 gpm, 5500 U gas, No flair.
13:30	17:00	(JSA) Trip in hole with side entry logging tools (Quad Combo) from 11500' to 13500 at 35 ft/minute.
17:00	17:30	(JSA) Lubricate rig and top drive
17:30	22:00	Circualte bottoms up prior to POOH with logs. circulating with no rotating head rubber @ Half of bottoms up 8619 units of gas circulated through choke with (4' flare) till all gas was out of well bore , spotted 2000' (42 bbl) of 16.5 ppg weighted kill pill f/ 2000' t/ 4000' pumped 277 bbl of 14.6 ppg mud to spot pill , and 41 bbl of 16.5 ppg in drill pipe to pull dry, perform flow check (well static) set slips and checked guy wires (all good)

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
22:00	23:30	Attempt to open calipers on logging tools to start logging out of hole there was an interferance when powering up tool to open witch killed all power to tools, suspected leaking in the tool latch haliburton got with company rep confrence call was made with engineering and geoligist decision was made to pooh to side entry sub, and attempt to relatch for a better connection if the attempt fails pull the wireline out of hole and inspect and change latching spear
23:30	00:00	TOOH to troubleshoot haliburton logging tools f/ 14,195' t/13796 while monitoring well at trip tank recording on trip sheet

Report Start Date	Report End Date	24hr Activity Summary
11/11/2013	11/12/2013	TOOH to trouble shoot Halliburton logs F/ 13796' to 8800', Rig serv, Trouble shoot logging tools, POOH to logging tools & work on tools, Rig serv. R/D logging tools for clean out run, Halliburton dropped a half moon mud ring down hole. P/U new BHA & TIH for clean out run.

Start Time	End Time	Comment
00:00	05:30	TOOH to troubleshoot haliburton logging tools f/ 13,796' t/ 8800' while monitoring well at trip tank recording on trip sheet
05:30	06:00	(JSA) Lubricate rig and top drive
06:00	11:00	(JSA) Troubleshoot Wire Line Failure - Remove line clamps pull up 200' of wire line to uncouple Speer from logging tools, Slack off wire line and sting back in to tools to try to get a better connection (no success, Tool still unresponsive) Uncouple and pull out of hole, lay down side entry sub and replace Speer and re head electric line (no singes of connectivity issues) pick up side entry sub and Run wire line in to reconnect at 8800' sting in and tool is still similarly unresponsive (calipers will not open). Pull out of hole with wire line and rig down side entry sub and prepare for trip.
11:00	17:00	(JSA) Pull out of hole with drill string from 8800' to logging tools, Monitor trip tank to ensure proper fill of drill pipe displacement. Record on trip Sheet.
17:00	17:30	Work on logging tools.
17:30	18:00	Rig service.
20:30	00:00	Rig down Halliburton Toolpush logs, For clean out run. (Halliburton dropped a half moon mud ring off the swivel tool down hole 3" long by 1/2" wide.
18:00	20:30	P/U BHA & TIH for clean out F/ surface to 1987', filling pipe every 2000'.

Report Start Date	Report End Date	24hr Activity Summary
11/12/2013	11/13/2013	TIH W/ Clean out assembly, Circ heavy pill out @ 3229', TIH, Rig serv, TIH, Circ heavy kill pill out @ 5061', TIH, Circ btms up @ 8920'. TIH to 14070', Wash F/ 14070' to 14196', Circ F/ logs. Spot kill mud, TOOH.

Start Time	End Time	Comment
00:00	01:30	TIH W/ clean out assembly F/ 2036' to 3229', Filling pipe every 2000'.
01:30	02:00	Circ out heavy weighted pill @ 3229'.
02:00	02:30	TIH W/ clean out assembly F/ 3229' to 3500', Filling pipe every 2000'
02:30	03:00	Rig service.
03:00	04:00	TIH W/ clean out assembly F/ 3500' to 5061', Filling pipe every 2000'
04:00	05:00	Circ out heavy pill out @ 5061'

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
05:00	08:00	TIH W/ clean out assembly F/ 5061' to 8920', Filling pipe every 2000'
08:00	09:00	Circ btms up @ 8920'
09:00	13:30	Continue TIH F/ 8920' to 14070', Filling pipe every 2000', Hit tight spots @ 9947', 10047', 15K.
13:30	14:00	Wash F/ 14070' to 14196'.
14:00	16:30	Circ & Cond F/ logs, pumping 90 strks per min 176 gpm, Top drive rpms 85, working drill string.
16:30	17:00	Rig service, lubricate, top off hydraulic fluid.
17:00	18:00	Continue circ btms up @ 14,154'.
18:00	20:00	Circ condition mud @ 14,154', Begain spotting 42.5 bbl 16.6 kill mud, chaced by 277.5 bbl 14.6 active mud, Pump 41 bbls slug, Flow check well static.
20:00	00:00	Trip out of hole from 14,154' to 10,901', to run toolpusher logs with halliburton wireline, While monitoring well on trip tank.

Report Start Date	Report End Date	24hr Activity Summary
11/13/2013	11/14/2013	Continue POOH F/ 10901' to Surface, R/U loggers, TIH, Circ and cut drlg line. Began staging in hole braking circulation to 8800' , Prepare to pick up Halliburton wireline tools.

Start Time	End Time	Comment
00:00	08:00	Continue POOH F/ 10901' to 102', Checked flow @ 8885' 7" csg shoe & 2480'.
08:00	09:00	L/D clean out BHA & Clean floor.
09:00	11:30	Rig up quad combo logging tools with haliburton - Pick up and make up as followed, Bull nose SP ring, Array compensated true resistivity Sonde section and Instrument section,Flex joint - Pressure - compensated,Oil based imaging - Mandrel and Instrument, Regal standoff 6.75 " , WaveSonic Insite, Flex joint - Pressure compensated, Density Insite Pad, Spectral Density Tool, Dual Spaced Neutron, IQ Flex tool, Gamma Telemetry Tool, Downhole Tension Device, Flex joint - Pressure compensated, Regal standoff 6.75", Test- Total length 146.98'
11:30	14:00	Trip in the hole with logging tools @ 90' per min monitoring well at trip tank and recording on trip sheet to / 1000' fill pipe break circualtion, Continue to TIH f/1000' t/ 3220' monitoring well on trip tank and recording on trip sheet
14:00	15:30	Circ 1/2 of the heavy pill out @ 3220' & Cut and slip 130' of drlg line
15:30	16:00	Rig Service.
16:00	17:30	Continue TIH in the hole with logging tools @ 90' per min monitoring well at trip tank and recording on trip sheet F/ 3220' to 5042', Filling pipe every 1000' per halliburton.
17:30	18:00	Circulate bottoms up @ 5042'.
18:00	20:00	Trip in hole From 5044' to 6448' monitoring well on trip tank.
20:00	21:00	Circulate & condition mud @ 6448', Circulating 16.5 kill pill out of hole.
21:00	23:00	Continue TIH in the hole with logging tools @ 90' per min monitoring well at trip tank and recording on trip sheet F/ 6448' to 8800', Filling pipe every 1000' per halliburton.

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
23:00	00:00	Began circulating @ 8800' 85' from 7" cg shoe, Prepare to pick up Halliburton tools.

Report Start Date	Report End Date	24hr Activity Summary
11/14/2013	11/15/2013	Rig up side entry sub, latched logging tool, checked out tools at 8800',TIH, logging down from 8800' to 14082', circ gas out of well bore, pump mud cap and slug, POOH, logging @ 15 fpm from 14082' - 10940'

Start Time	End Time	Comment
00:00	02:30	Rig up side entry sub, on the 5th attempt latched logging tool, checked out tools at 8800'
02:30	11:30	TIH, logging down from 8800' to 14082' at +/- 30 ft/min. Washed through spot @ 12,887'. Held BOP drill whie tripping in hole, function test annular.
11:30	15:00	Circulate 2.5 BU @ 14078", Circulating Gas out of hole. Max gas 3360U @ 179 gpm due to Halliburton pressure limit.
15:00	15:30	PJSM with Halliburton logging crew and rig crews.
15:30	17:30	Pump 16.5 ppg mud cap and drying slug. @ 179 gpm due to Halliburton pressure limit.
17:30	00:00	POOH, logging @ 15 fpm from 14082' - 10940', monitoring well on trip tank

Report Start Date	Report End Date	24hr Activity Summary
11/15/2013	11/16/2013	POOH from 10940' - 147', LD logging tools, LD 200 jts DP, PJSM with Franks, run 4.5" 13.5# BTC XP casing

Start Time	End Time	Comment
00:00	04:00	Cont. logging @ 15-20 fpm from 10940' - 8800'
04:00	05:30	PJSM, Unlatch and retrieve wireline, LD side entry sub
05:30	06:00	Rig service
06:00	11:30	PJSM, LD 186 jts DP
11:30	13:00	Finish POOH
13:00	15:00	Lay down push logging tools
15:00	15:30	Rig service and clean floor
15:30	00:00	PJSM with Franks casing crew and rig crew, RU casing crew, MU and threadlock shoe track, run 120 of 137 jts 4.5" 13.5# BTC XP to depth of 4,902', monitoring well on trip tank

Report Start Date	Report End Date	24hr Activity Summary
11/16/2013	11/17/2013	TIH with liner, PJSM with Halliburton, pump cement

Start Time	End Time	Comment
00:00	08:00	Cont. run 4.5" 13.5# BTC XP casing, PU hanger, one stand dp, install rotating rubber, circ casing cap, pu 30 jts HWDP, TIH with liner at 90 ft/min. filling every 12 stands to 8847'
08:00	09:30	Circulate BU at 7" casing shoe, max gas 2257U, take PU and slack off weights and test casing rotation. 20 rpm at 2500 ft/lbs torque.
09:30	14:30	Continue TIH with liner at 90 ft/min, filling every 12 stands. to 14196'
14:30	17:30	Circulate gas out of well bore at 14196', max gas 4077U, 10'/12' flare and test casing rotation. 5/6K troque on and off, and mix spacer, final gas @ 880U

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Summary Rig Activity

Well Name: State 4-11-3-2WH

Start Time	End Time	Comment
17:30	18:00	PJSM with Halliburton liner rep, cement crews N2 crew and rig crew
18:00	00:00	Pick up 5' DP pup and Halliburton cement head, circulate through head and rig up Halliburton cementers, pressure test cement lines to 9000 psi, nitrogen lines to 10000 psi, pump 30 bbl 15 ppg tuned spacer, 77 bbl (235 sx) 17.3 ppg lead foamed with nitrogen to 15.5 ppg, 16.4 bbl (50 sx) 17.3 ppg tail, wash up and drop dart, displace with 10 bbl MMCR, 70 bbl 2% KCL, 4 bbl gel pill (problem pumping gel pill, cut it short), 10 bbl 14.3 ppg tuned spacer, 76 bbl 14.6 ppg OBM, 170 bbl total displacement, max 4100 psi while seating dart, FCP = 2462 psi, bump plug to 3469 psi and hold for 5 min, check floats - held with 2 bbl back, drop ball, close annular and monitor for flow through Halliburton's choke - 2-3 gpm, shut in well and wait 1 hour to allow ball to drop, no casing pressure after 1 hour

Report Start Date	Report End Date	24hr Activity Summary
11/17/2013	11/18/2013	Set liner hanger, CBU, 5 bbl cement to surface, pressure test liner top, displace OBM with KCL LDDP, LD Halliburton running tool, set retrievable bridge plug, ND BOPE

Start Time	End Time	Comment
00:00	05:00	Seat ball and pressure up to 4700 psi to inflate packer, pull test packer to 50K over string wt, shear pins and pull out of hanger, CBU, energized fluid to surface 130 bbl into BU, all of spacer and 5 bbl cement to surface, pressure test liner top to 3500 psi for 30 min, displace hole w/ 3% KCL with Magnacide 575.
05:00	07:30	Rig down Halliburton, LD cementing head
07:30	17:00	Flush, BOP, choke line, gas buster, and LDDP and setting tool.
17:00	17:30	TIH 7 stands and LDDP
17:30	18:00	Service rig
18:00	23:30	PJSM with J-W Wireline, RU and RIH with guage ring and junk basket, tag liner top at 8572', PU retrievable bridge plug and RIH to marker joint at 7078', plug stuck when coming up at 7078', decison made to set bridge plug at 7078', RD J-W Wireline
23:30	00:00	PJSM with B&C Quick Test ND crew and JD Field Services pole truck, complete ND of 13 5/8" BOPE to be returned to vendor

Report Start Date	Report End Date	24hr Activity Summary
11/18/2013	11/18/2013	Cont. ND BOPE, pull weldament and install night cap, release rig at 05:00 11/18/13. Rig down, move

Start Time	End Time	Comment
00:00	05:00	Cont. ND BOPE, pull weldament and install night cap, release rig at 05:00 11/18/13