

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 Hancock 12-21-4-1W								
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT MONUMENT BUTTE								
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) FEE			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>								
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Henderson Ranches LLC						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-646-3397								
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') Rt 3 Box 3671, Myton, UT 84052						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')								
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>								
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN		
LOCATION AT SURFACE		2050 FNL 130 FWL		SWNW		21		4.0 S		1.0 W		U		
Top of Uppermost Producing Zone		1986 FSL 661 FWL		NWSW		21		4.0 S		1.0 W		U		
At Total Depth		1986 FSL 661 FWL		NWSW		21		4.0 S		1.0 W		U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 661			23. NUMBER OF ACRES IN DRILLING UNIT 40								
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1802			26. PROPOSED DEPTH MD: 6267 TVD: 6090								
27. ELEVATION - GROUND LEVEL 5148			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			
SURF	12.25	8.625	0 - 1000	24.0	J-55 ST&C	8.3	Class G		459	1.17	15.8			
PROD	7.875	5.5	0 - 6267	15.5	J-55 LT&C	8.3	Premium Lite High Strength		295	3.26	11.0			
							50/50 Poz		363	1.24	14.3			
ATTACHMENTS														
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES														
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN								
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER								
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP								
NAME Mandie Crozier				TITLE Regulatory Tech				PHONE 435 646-4825						
SIGNATURE				DATE 05/22/2013				EMAIL mcrozier@newfield.com						
API NUMBER ASSIGNED 43013521870000				APPROVAL  Permit Manager										

NEWFIELD PRODUCTION COMPANY
HANCOCK 12-21-4-1W
AT SURFACE: SW/NW SECTION 21, T4S R1W
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 1935'
Green River	1935'
Wasatch	5840'
Proposed TD	6090' (TVD) 6267' (MD)

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation (Oil) 1935' – 5840'

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO ₃) (mg/l)
Dissolved Bicarbonate (NaHCO ₃) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO ₄) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

4. **PROPOSED CASING PROGRAM****a. Casing Design: HANCOCK 12-21-4-1W**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	1000'	24.0	J-55	STC	2,950 5.26	1,370 4.31	244,000 10.17
Prod casing 5-1/2"	0'	6267'	15.5	J-55	LTC	4,810 2.41	4,040 2.03	217,000 2.23

Assumptions:

- 1) Surface casing max anticipated surface press (MASP) = Frac gradient – gas gradient
- 2) Prod casing MASP (production mode) = Pore pressure – gas gradient
- 3) All collapse calculations assume fully evacuated casing w/ gas gradient
- 4) All tension calculations assume air weight

Frac gradient at surface casing shoe = 13.0 ppg
 Pore pressure at surface casing shoe = 8.33 ppg
 Pore pressure at prod casing shoe = 8.33 ppg
 Gas gradient = 0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

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

b. Cementing Design: HANCOCK 12-21-4-1W

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft ³ /sk)
			ft ³			
Surface casing	1000'	Class G w/ 2% CaCl	459	30%	15.8	1.17
			537			
Prod casing Lead	4,267'	Prem Lite II w/ 10% gel + 3% KCl	295	30%	11.0	3.26
			961			
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363	30%	14.3	1.24
			451			

*Actual volume pumped will be 15% over the caliper log

- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours

- Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to ± 1000 feet will be drilled with an air/mist system. The air rig is equipped with a 6 1/2" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about ± 1000 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 1000' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated

bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

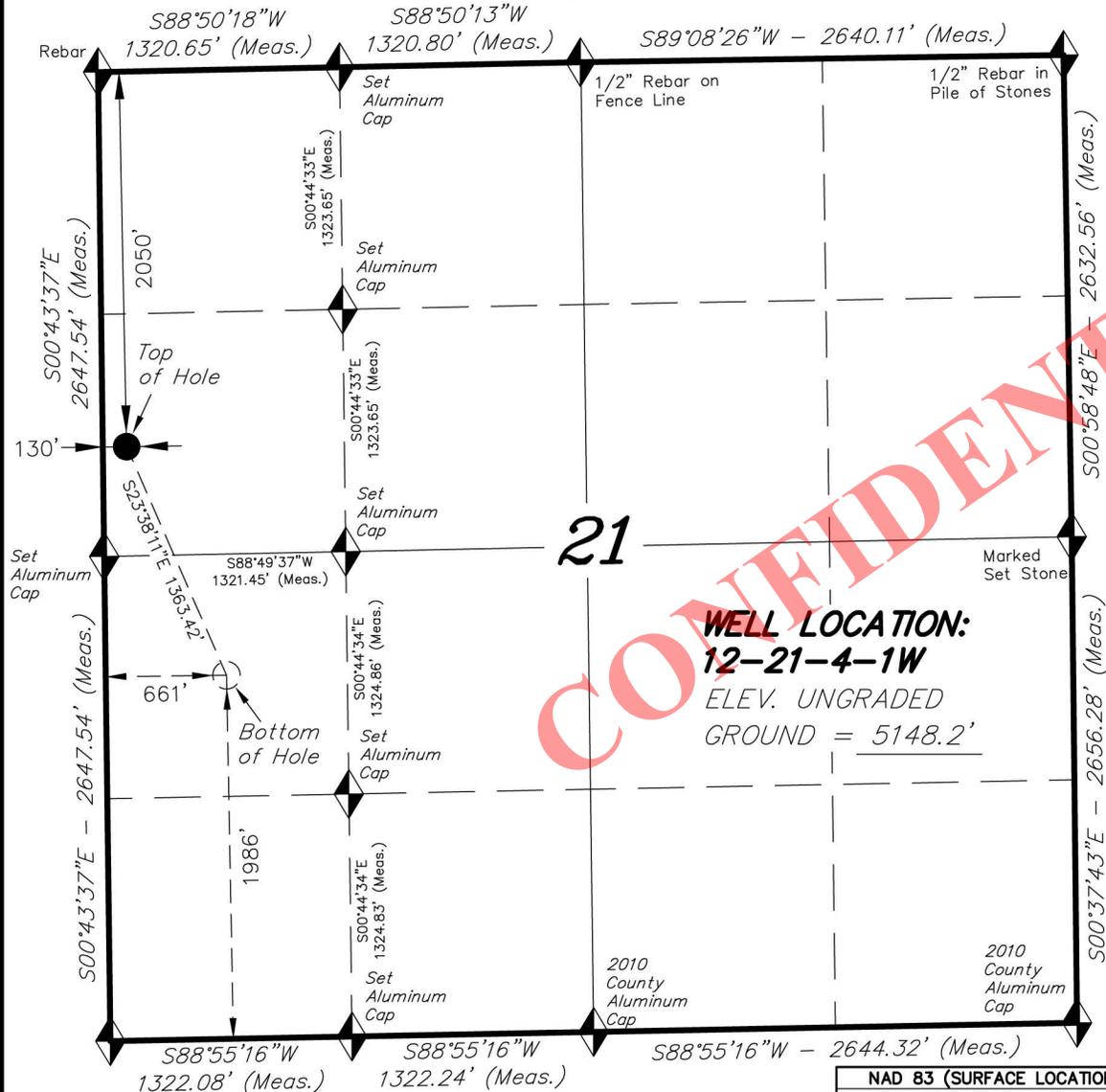
10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the third quarter of 2013, and take approximately seven (7) days from spud to rig release.

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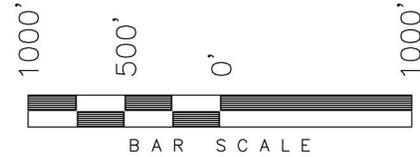
T4S, R1W, U.S.B.&M.

NEWFIELD EXPLORATION COMPANY



WELL LOCATION, 12-21-4-1W, LOCATED AS SHOWN IN THE SW 1/4 NW 1/4 OF SECTION 21, T4S, R1W, U.S.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, 12-21-4-1W, LOCATED AS SHOWN IN THE NW 1/4 SW 1/4 OF SECTION 21, T4S, R1W, U.S.B.&M. DUCHESNE COUNTY, UTAH.



NOTES:

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

◆ = SECTION CORNERS LOCATED

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

REGISTERED LAND SURVEYOR
 No. 189377
 02-05-13
 STACY W. STEWART
 REGISTERED LAND SURVEYOR
 REGISTRATION No. 189377
 STATE OF UTAH

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21
WELL LOCATION:
12-21-4-1W
 ELEV. UNGRADED
 GROUND = 5148.2'

NAD 83 (SURFACE LOCATION)
LATITUDE = 40°07'19.79"
LONGITUDE = 110°00'37.66"
NAD 27 (SURFACE LOCATION)
LATITUDE = 40°07'19.93"
LONGITUDE = 110°00'35.12"
NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 40°07'07.36"
LONGITUDE = 110°00'30.89"
NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 40°07'07.50"
LONGITUDE = 110°00'28.35"

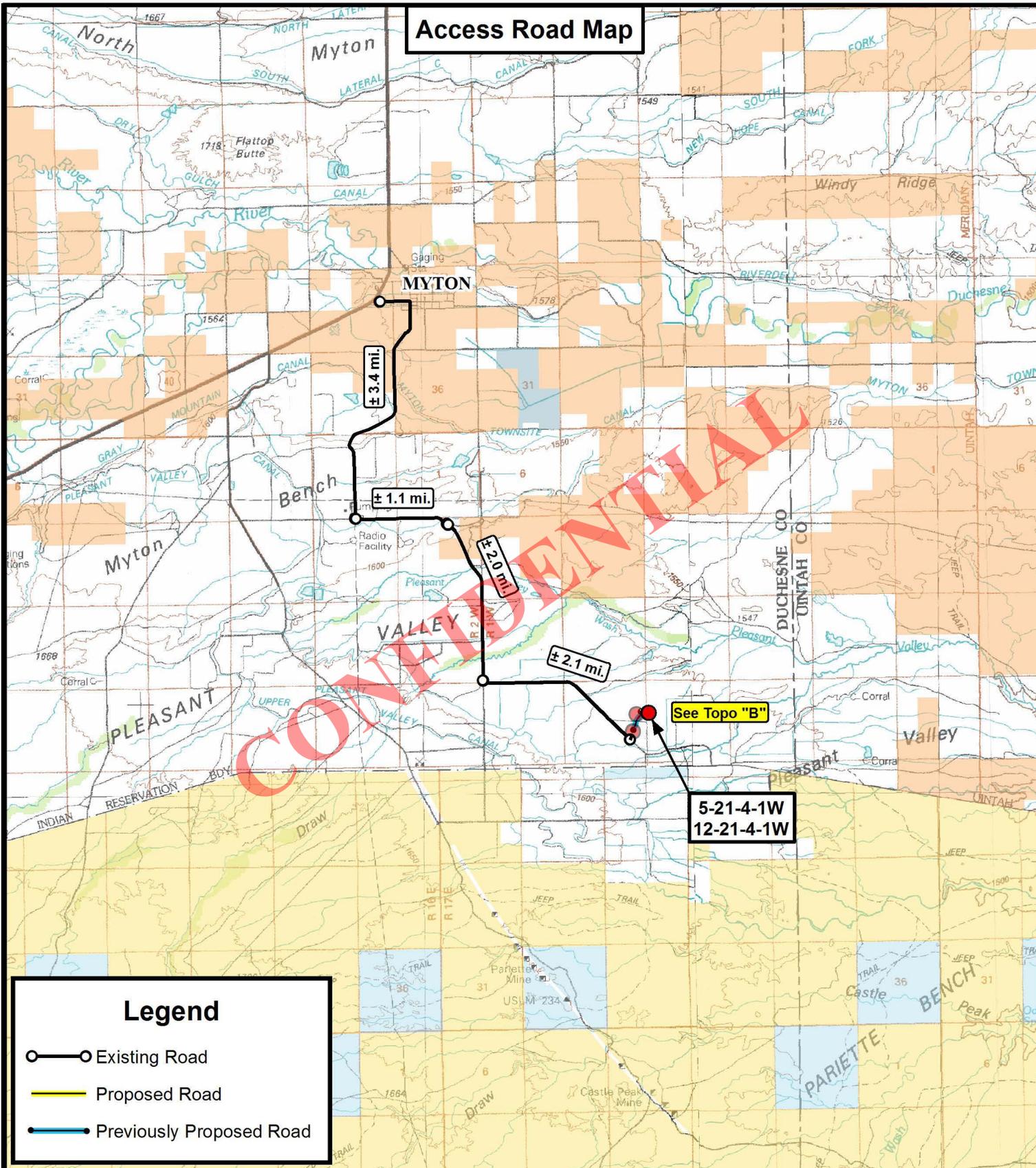
TRI STATE LAND SURVEYING & CONSULTING
 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
 (435) 781-2501

DATE SURVEYED: 02-04-13	SURVEYED BY: S.V.	VERSION:
DATE DRAWN: 02-05-13	DRAWN BY: V.H.	V1
REVISED:	SCALE: 1" = 1000'	

Set Aluminum Cap
 (Position Calculated
 from Corner Tie
 Sheets)

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

Access Road Map



Legend

- Existing Road
- Proposed Road
- Previously Proposed Road

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

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



NEWFIELD EXPLORATION COMPANY

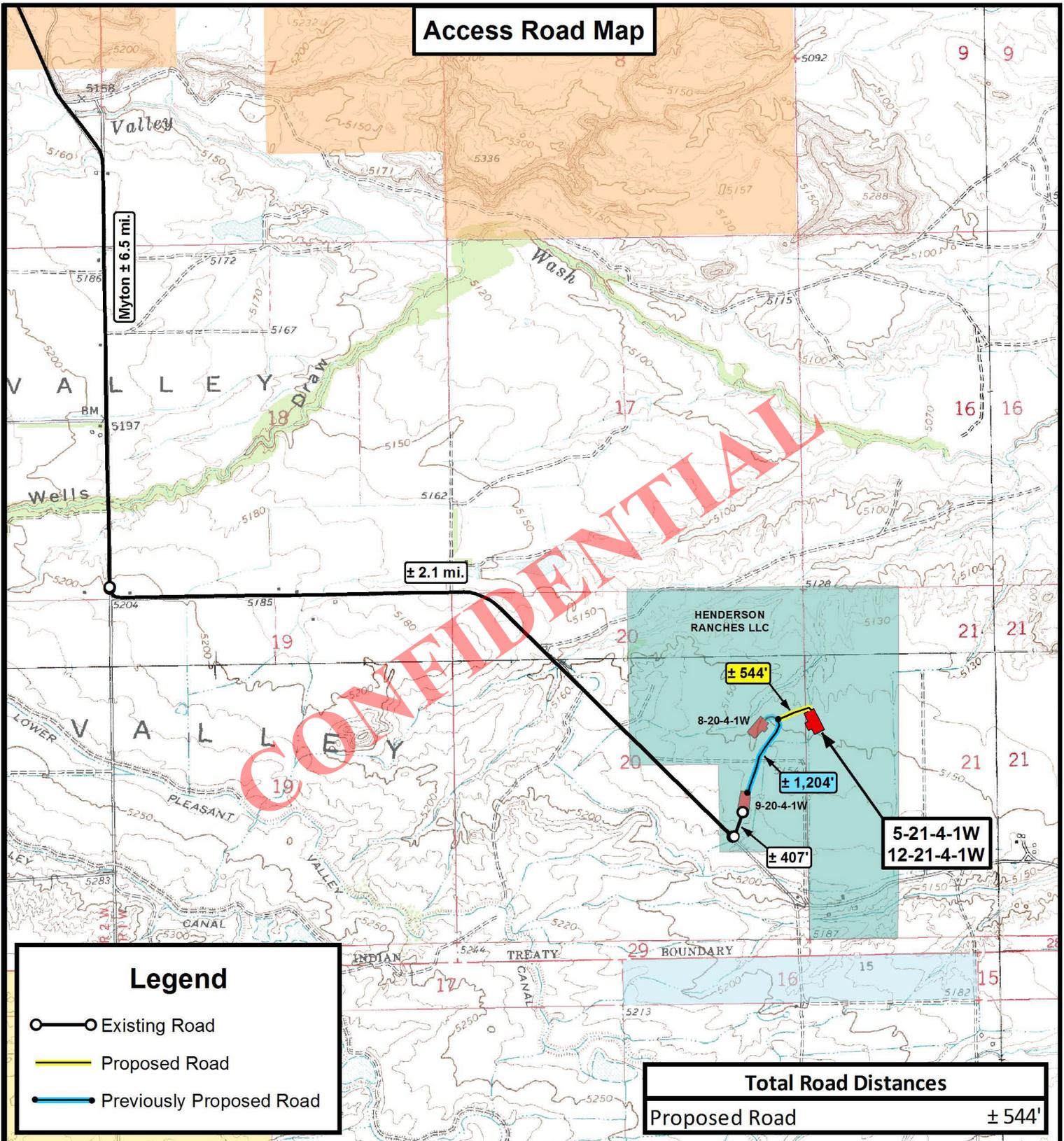
5-21-4-1W
 12-21-4-1W
 SEC. 21, T4S, R1W, U.S.B.&M.
 Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	02-07-2013		V1
SCALE:	1:100,000		

TOPOGRAPHIC MAP

SHEET
A

Access Road Map



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Legend

- Existing Road
- Proposed Road
- Previously Proposed Road

Total Road Distances	
Proposed Road	± 544'

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



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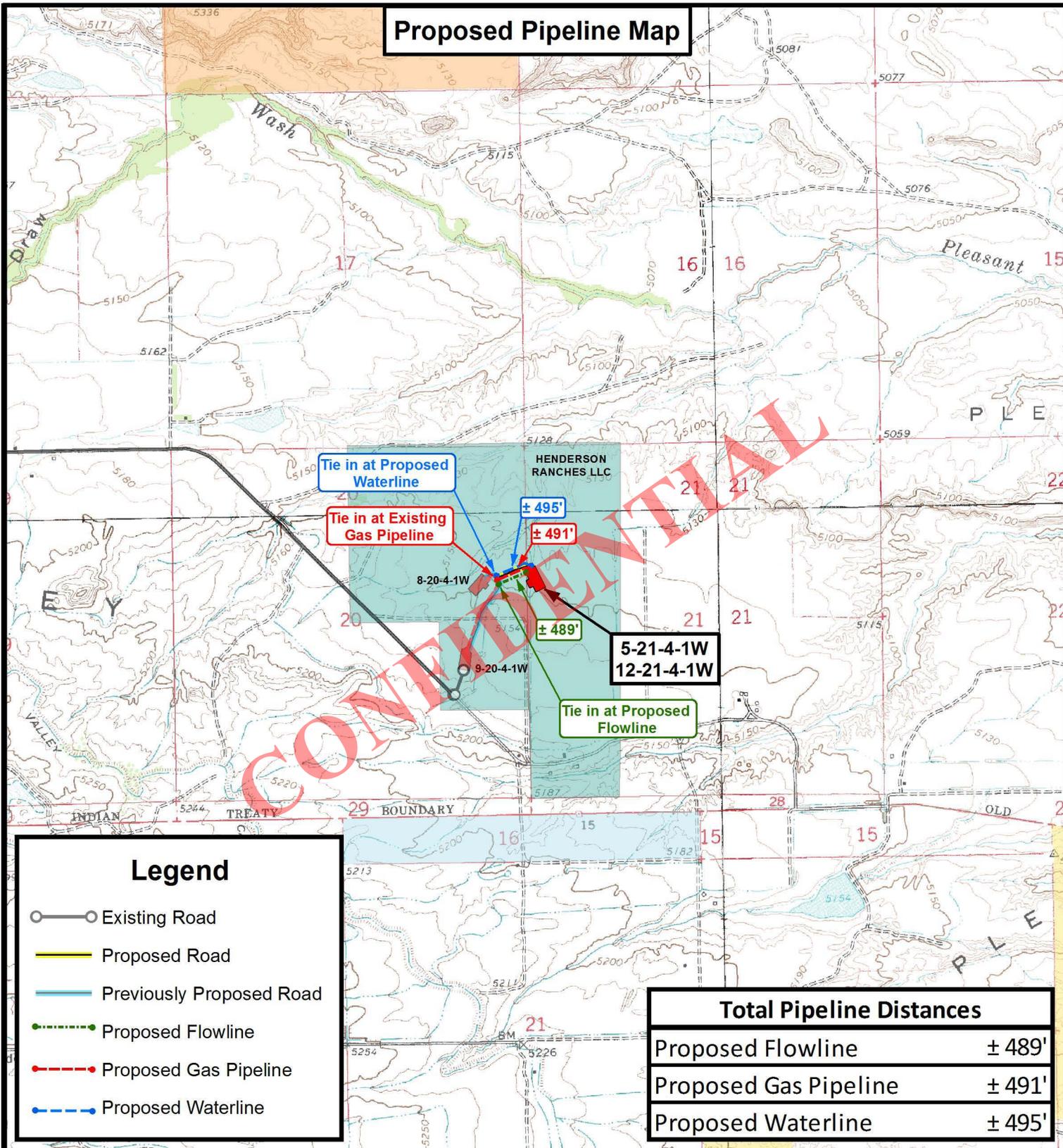
5-21-4-1W
12-21-4-1W
SEC. 21, T4S, R1W, U.S.B.&M.
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	02-07-2013		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
B

Proposed Pipeline Map



Legend

- Existing Road
- Proposed Road
- Previously Proposed Road
- Proposed Flowline
- Proposed Gas Pipeline
- Proposed Waterline

Total Pipeline Distances

Proposed Flowline	± 489'
Proposed Gas Pipeline	± 491'
Proposed Waterline	± 495'

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NEWFIELD EXPLORATION COMPANY

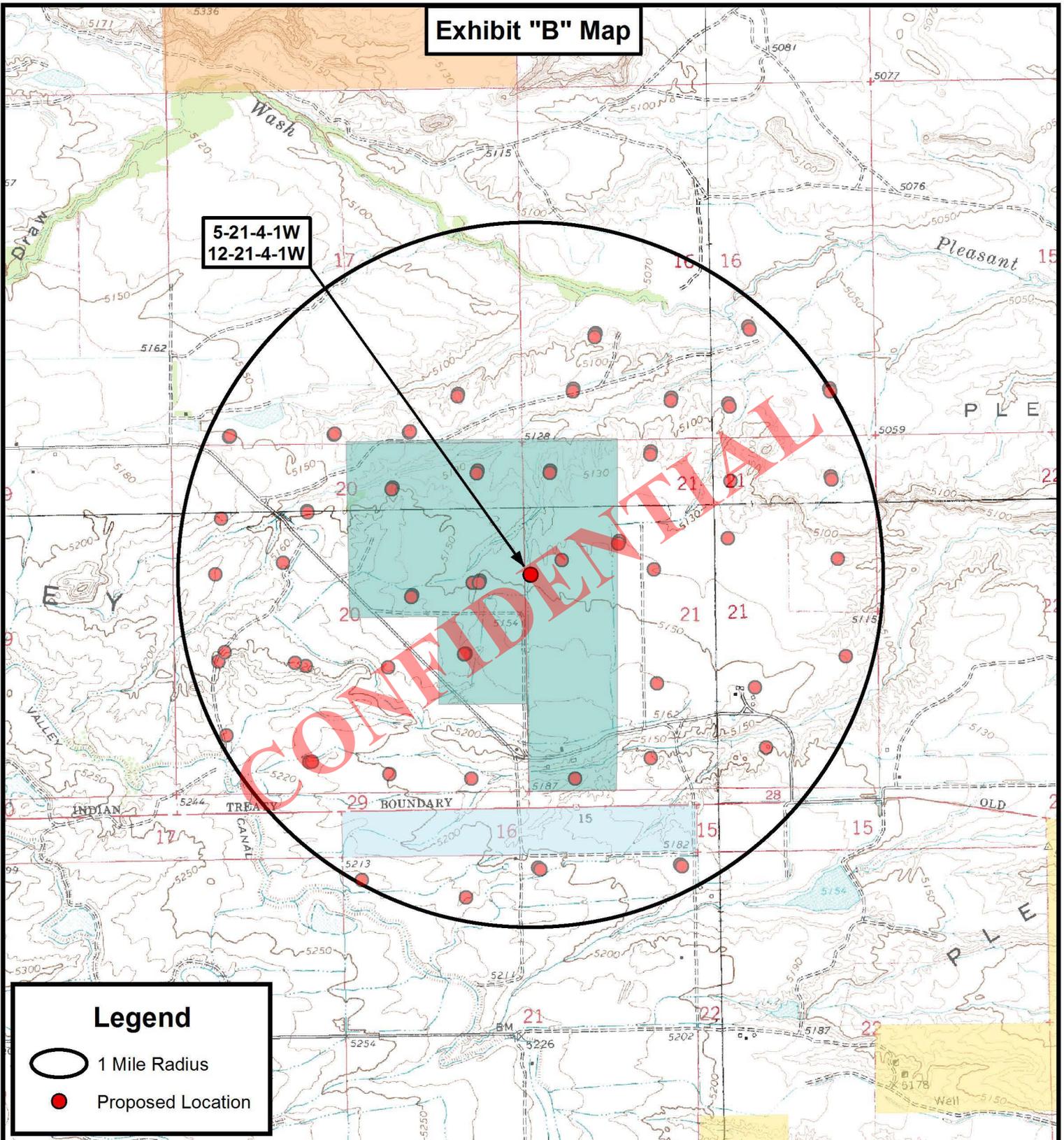
5-21-4-1W
12-21-4-1W
SEC. 21, T4S, R1W, U.S.B.&M.
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	02-07-2013		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
C

Exhibit "B" Map



5-21-4-1W
12-21-4-1W

Legend

-  1 Mile Radius
-  Proposed Location

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Land Surveying, Inc.**
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NEWFIELD EXPLORATION COMPANY

5-21-4-1W
12-21-4-1W
SEC. 21, T4S, R1W, U.S.B.&M.
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	02-07-2013		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
D



NEWFIELD EXPLORATION

USGS Myton SW (UT)
SECTION 21 T4S, R1W
12-21-4-1W

Wellbore #1

Plan: Design #1

Standard Planning Report

14 May, 2013

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Payzone Directional
Planning Report



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well 12-21-4-1W
Company:	NEWFIELD EXPLORATION	TVD Reference:	Mean Sea Level
Project:	USGS Myton SW (UT)	MD Reference:	12-21-4-1W @ 5158.2ft (Original Well Elev)
Site:	SECTION 21 T4S, R1W	North Reference:	True
Well:	12-21-4-1W	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	SECTION 21 T4S, R1W				
Site Position:		Northing:	7,216,690.84 ft	Latitude:	40° 7' 19.790 N
From:	Lat/Long	Easting:	2,056,929.56 ft	Longitude:	110° 0' 37.660 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.95 °

Well	12-21-4-1W, SHL LAT: 40 07 19.79 LONG: -110 00 37.66					
Well Position	+N/-S	0.0 ft	Northing:	7,216,690.83 ft	Latitude:	40° 7' 19.790 N
	+E/-W	0.0 ft	Easting:	2,056,929.56 ft	Longitude:	110° 0' 37.660 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	5,158.2 ft	Ground Level:	5,148.2 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	5/14/2013	(°)	(°)	(nT)
			11.06	65.82	52,133

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	-5,158.2	0.0	0.0	156.36

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD Below System (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,621.5	15.32	156.36	1,609.4	-124.4	54.4	1.50	1.50	0.00	156.36	
6,267.3	15.32	156.36	6,090.0	-1,249.0	546.7	0.00	0.00	0.00	0.00	12-21-4-1W TGT



Payzone Directional
Planning Report



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well 12-21-4-1W
Company:	NEWFIELD EXPLORATION	TVD Reference:	Mean Sea Level
Project:	USGS Myton SW (UT)	MD Reference:	12-21-4-1W @ 5158.2ft (Original Well Elev)
Site:	SECTION 21 T4S, R1W	North Reference:	True
Well:	12-21-4-1W	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD Below System (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	156.36	700.0	-1.2	0.5	1.3	1.50	1.50	0.00
800.0	3.00	156.36	799.9	-4.8	2.1	5.2	1.50	1.50	0.00
900.0	4.50	156.36	899.7	-10.8	4.7	11.8	1.50	1.50	0.00
1,000.0	6.00	156.36	999.3	-19.2	8.4	20.9	1.50	1.50	0.00
1,100.0	7.50	156.36	1,098.6	-29.9	13.1	32.7	1.50	1.50	0.00
1,200.0	9.00	156.36	1,197.5	-43.1	18.9	47.0	1.50	1.50	0.00
1,300.0	10.50	156.36	1,296.1	-58.6	25.6	64.0	1.50	1.50	0.00
1,400.0	12.00	156.36	1,394.2	-76.5	33.5	83.5	1.50	1.50	0.00
1,500.0	13.50	156.36	1,491.7	-96.7	42.3	105.5	1.50	1.50	0.00
1,600.0	15.00	156.36	1,588.6	-119.2	52.2	130.2	1.50	1.50	0.00
1,621.5	15.32	156.36	1,609.4	-124.4	54.4	135.8	1.50	1.50	0.00
1,700.0	15.32	156.36	1,685.1	-143.4	62.8	156.5	0.00	0.00	0.00
1,800.0	15.32	156.36	1,781.5	-167.6	73.4	182.9	0.00	0.00	0.00
1,900.0	15.32	156.36	1,878.0	-191.8	84.0	209.4	0.00	0.00	0.00
2,000.0	15.32	156.36	1,974.4	-216.0	94.6	235.8	0.00	0.00	0.00
2,100.0	15.32	156.36	2,070.9	-240.2	105.1	262.2	0.00	0.00	0.00
2,200.0	15.32	156.36	2,167.3	-264.4	115.7	288.6	0.00	0.00	0.00
2,300.0	15.32	156.36	2,263.7	-288.6	126.3	315.1	0.00	0.00	0.00
2,400.0	15.32	156.36	2,360.2	-312.8	136.9	341.5	0.00	0.00	0.00
2,500.0	15.32	156.36	2,456.6	-337.0	147.5	367.9	0.00	0.00	0.00
2,600.0	15.32	156.36	2,553.1	-361.3	158.1	394.3	0.00	0.00	0.00
2,700.0	15.32	156.36	2,649.5	-385.5	168.7	420.8	0.00	0.00	0.00
2,800.0	15.32	156.36	2,746.0	-409.7	179.3	447.2	0.00	0.00	0.00
2,900.0	15.32	156.36	2,842.4	-433.9	189.9	473.6	0.00	0.00	0.00
3,000.0	15.32	156.36	2,938.9	-458.1	200.5	500.0	0.00	0.00	0.00
3,100.0	15.32	156.36	3,035.3	-482.3	211.1	526.5	0.00	0.00	0.00
3,200.0	15.32	156.36	3,131.8	-506.5	221.7	552.9	0.00	0.00	0.00
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4,000.0	15.32	156.36	3,903.3	-700.2	306.5	764.3	0.00	0.00	0.00
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4,200.0	15.32	156.36	4,096.2	-748.6	327.7	817.1	0.00	0.00	0.00
4,300.0	15.32	156.36	4,192.7	-772.8	338.3	843.6	0.00	0.00	0.00
4,400.0	15.32	156.36	4,289.1	-797.0	348.9	870.0	0.00	0.00	0.00
4,500.0	15.32	156.36	4,385.5	-821.2	359.5	896.4	0.00	0.00	0.00
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5,200.0	15.32	156.36	5,060.7	-990.6	433.6	1,081.4	0.00	0.00	0.00



Payzone Directional
Planning Report



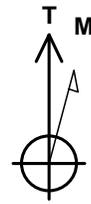
Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well 12-21-4-1W
Company:	NEWFIELD EXPLORATION	TVD Reference:	Mean Sea Level
Project:	USGS Myton SW (UT)	MD Reference:	12-21-4-1W @ 5158.2ft (Original Well Elev)
Site:	SECTION 21 T4S, R1W	North Reference:	True
Well:	12-21-4-1W	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD Below System (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	15.32	156.36	5,157.1	-1,014.9	444.2	1,107.8	0.00	0.00	0.00
5,400.0	15.32	156.36	5,253.6	-1,039.1	454.8	1,134.2	0.00	0.00	0.00
5,500.0	15.32	156.36	5,350.0	-1,063.3	465.4	1,160.7	0.00	0.00	0.00
5,600.0	15.32	156.36	5,446.4	-1,087.5	476.0	1,187.1	0.00	0.00	0.00
5,700.0	15.32	156.36	5,542.9	-1,111.7	486.6	1,213.5	0.00	0.00	0.00
5,800.0	15.32	156.36	5,639.3	-1,135.9	497.2	1,239.9	0.00	0.00	0.00
5,900.0	15.32	156.36	5,735.8	-1,160.1	507.8	1,266.4	0.00	0.00	0.00
6,000.0	15.32	156.36	5,832.2	-1,184.3	518.4	1,292.8	0.00	0.00	0.00
6,100.0	15.32	156.36	5,928.7	-1,208.5	529.0	1,319.2	0.00	0.00	0.00
6,200.0	15.32	156.36	6,025.1	-1,232.7	539.6	1,345.6	0.00	0.00	0.00
6,267.3	15.32	156.36	6,090.0	-1,249.0	546.7	1,363.4	0.00	0.00	0.00

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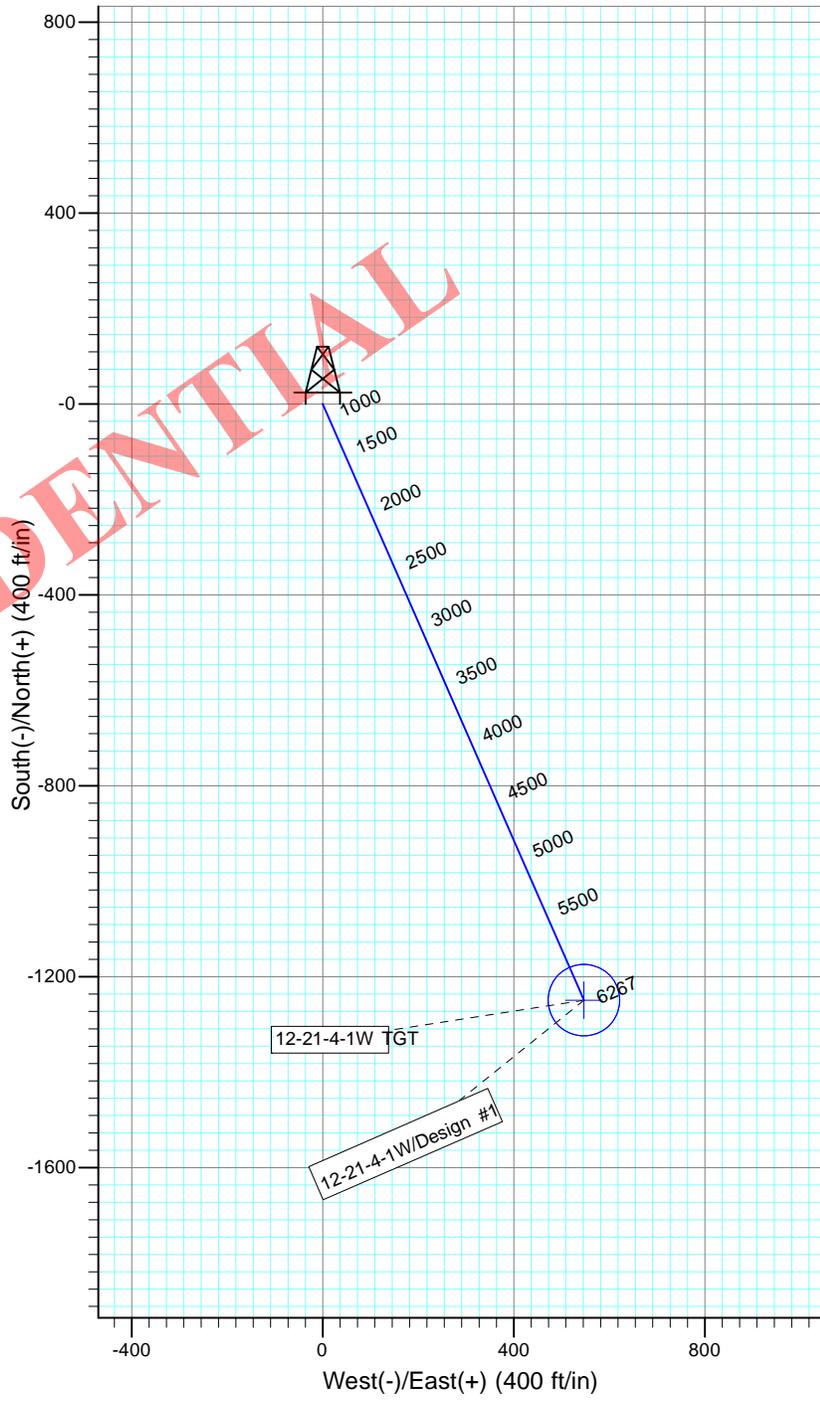
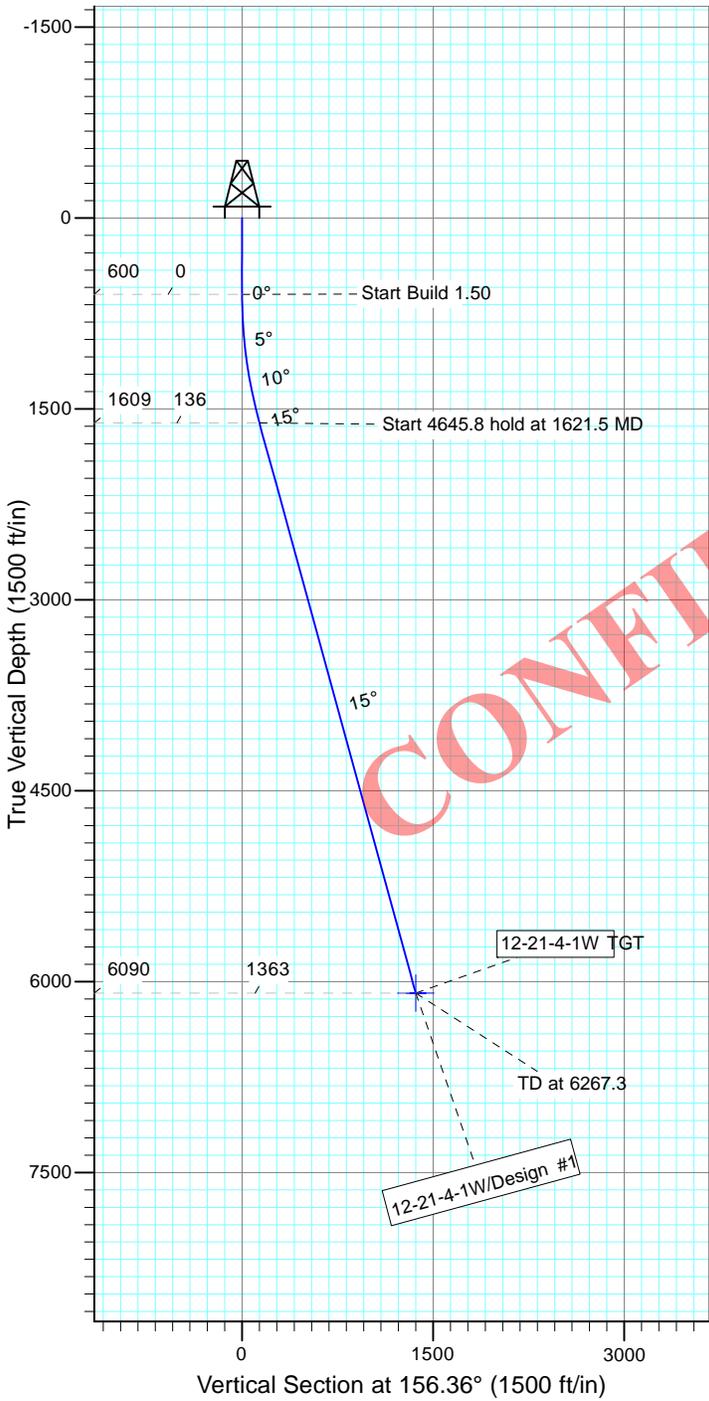


Project: USGS Myton SW (UT)
 Site: SECTION 21 T4S, R1W
 Well: 12-21-4-1W
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.06°

Magnetic Field
 Strength: 52133.5snT
 Dip Angle: 65.82°
 Date: 5/14/2013
 Model: IGRF2010



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
12-21-4-1W TGT	6090.0	-1249.0	546.7	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1621.5	15.32	156.36	1609.4	-124.4	54.4	1.50	156.36	135.8	
4	6267.3	15.32	156.36	6090.0	-1249.0	546.7	0.00	0.00	1363.4	12-21-4-1W TGT



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 Landman for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 (“Newfield”).
2. Newfield is the Operator of the proposed Hancock 5-21-4-1W well with surface location to be positioned in the SWNW of Section 21, Township 4 South, Range 1 West, Duchesne County, Utah (the “Drillsite Location”). The surface owner of the Drillsite Location is Henderson Ranches, LLC, whose address is Rt. 3, Box 3671, Myton, UT 84052 (“Surface Owner”).
3. Newfield and the Surface Owner have agreed upon an Easement, Right-of-Way and Surface Use Agreement dated May 7, 2013 covering the Drillsite Location, access to the Drillsite Location, and pipeline route.

FURTHER AFFIANT SAYETH NOT.

Peter Burns

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ACKNOWLEDGEMENT

STATE OF COLORADO §
 §
COUNTY OF DENVER §

Before me, a Notary Public, in and for the State, on this 9th day of May, 2013, 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:



**NEWFIELD PRODUCTION COMPANY
HANCOCK 12-21-4-1W
AT SURFACE: SW/NW SECTION 21, T4S, R1W
DUCHESNE COUNTY, UTAH**

MULTI-POINT SURFACE USE & OPERATIONS PLAN

The onsite inspection for this pad will need to be set up as soon as the APD is received by the State of Utah DOGM. This is a new pad with one proposed vertical well and one proposed directional well.

1. EXISTING ROADS

- a) To reach Newfield Production Company well location site Hancock 12-21-4-1W, proceed in a southerly direction out of Myton, approximately 3.4 miles to it's junction with an existing road to the east; proceed in a southeasterly direction approximately 3.1 miles to it's junction with road to the east; proceed in a southeasterly direction approximately 2.1 miles to it's junction with an existing road to the north; proceed in a northerly direction approximately 407' passing through the 9-20-4-1W location; continue along a segment or previously proposed road in a northeasterly direction approximately 1204' to it's junction with the beginning of the proposed access road to the east; proceed in a northeasterly direction along the proposed access road approximately 544' to the proposed well location.
- b) The proposed location is approximately 9.0 miles southeast of Myton, Utah
- c) Existing native surface roads in the area range from clays to a sandy-clay shale material.
- d) Access roads will be maintained at the standards required by UDOT, Duchesne County or other controlling agencies. This maintenance will consist of some minor grader work for road surfacing and snow removal. Any necessary fill material for repair will be purchased and hauled from private sources.

2. PLANNED ACCESS ROAD

- a) Approximately 544 feet of access road trending southwest is planned. The planned access consists of entirely new disturbance across entirely private surface. See attached Topographic Map "B".
- b) The planned access road will consist of a 20-foot permanent running surface crowned and ditched in order to handle any run-off from any precipitation events. The maximum grade will be 10% or less.
- c) Adequate drainage structures, where necessary, would be incorporated into the construction of the access road to prevent soil erosion and accommodate all-weather traffic.

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

3. LOCATION OF EXISTING WELLS

- a) Refer to Topographic Map "D".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- a) There are no existing facilities that will be utilized.

- b) It is anticipated that this well will be a producing oil well with some associated natural gas.
- c) Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.
- d) Tank batteries will be built to Federal Gold Book specifications.
- e) All permanent above-ground structures would be painted a flat, non-reflective covert green color, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation (weather permitting). Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- f) Newfield Production Company propose 491' of proposed gas pipeline, 495' of proposed buried water line, and 489' of proposed flowline. The proposed pipeline corridor across entirely Fee surface connecting existing pipeline corridor on Fee surface. See attached Topographic Map "C".
- g) Where parallel corridors exist the disturbed area will be 60 feet wide to allow for construction of the proposed access road and pipeline corridor. The pipeline corridor will consist of a 12-inch or smaller natural gas pipeline, a 6-inch or smaller fuel gas line and an 8-inch or smaller produced water pipeline.
- h) The pipelines will tie in to the existing Newfield pipeline infrastructure. The proposed pipelines will be buried 4-feet deep or greater in a trench constructed with a trencher, trackhoe or backhoe for the length of the proposal. The construction phase of the planned access road, proposed pipelines will last approximately (10) days.
- i) The centerline of the proposed route will be staked prior to installation. Pipelines shall be placed as close to existing roads as possible without interfering with normal road travel or road maintenance activities. Due to the proximity of existing facilities, no temporary use or construction/storage areas are anticipated.
- j) Lengths of pipe will be strung out in the borrow ditch, welded together, and rolled or dragged into place with heavy equipment. For pipelines that are installed cross-country, travel along the lines will be infrequent and for maintenance needs only. No installation activities will be performed during periods when the soil is too wet to adequately support installation equipment. If such equipment creates ruts in excess of four (4) inches deep, the soil will be deemed too wet to adequately support the equipment.

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

- a) Newfield Production will transport water by truck from nearest water source. The available water sources are as follows:
 - Johnson Water District (Water Right : 43-7478)
 - Maurice Harvey Pond (Water Right: 47-1358)
 - Neil Moon Pond (Water Right: 43-11787)
 - Newfield Collector Well (Water Right: 47-1817 - A30414DVA, contracted with the Duchesne County Conservancy District).

6. **SOURCE OF CONSTRUCTION MATERIALS**

- a) Construction material for this access road will be borrowed material accumulated during construction of the access road. If any additional borrow or gravel is required, it would be obtained from a local supplier having a permitted source of materials within the general area.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

- a) A small pit (80 feet x 120 feet x 8 feet deep, or less) will be constructed inboard of the pad area. The pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM.
- b) 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. 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.
- c) A portable toilet will be provided for human waste.
- d) A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.
- e) After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.
- f) All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

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

8. **ANCILLARY FACILITIES**

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

9. **WELL SITE LAYOUT**

- a) See attached Location Layout Sheet.

Fencing Requirements

- a) All pits will be fenced or have panels installed consistent with the following minimum standards:
 1. The wire shall be no more than two (2) inches above the ground. If barbed wire is utilized it will be installed three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
 2. Corner posts shall be centered and/or braced in such a manner to keep tight and upright at all times
 3. Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- b) The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. PLANS FOR RESTORATION OF SURFACE:

- a) Producing Location
 1. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.
 2. The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting; the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.
- b) Dry Hole Abandoned Location
 1. At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. SURFACE OWNERSHIP

- a) Henderson Ranches LLC.

12. OTHER ADDITIONAL INFORMATION

- a) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On federal administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- b) A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Location and Reserve Pit Reclamation

Please refer to the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

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

Representative

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

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #12-21-4-1W, Section 21, Township 4S, Range 1W: Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Nationwide Bond #B001834.

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

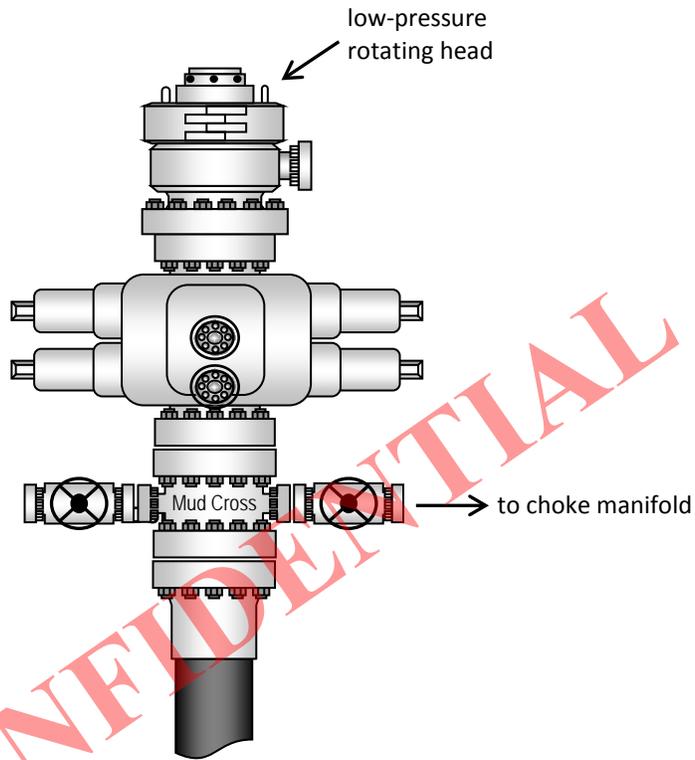
5/22/13

Date

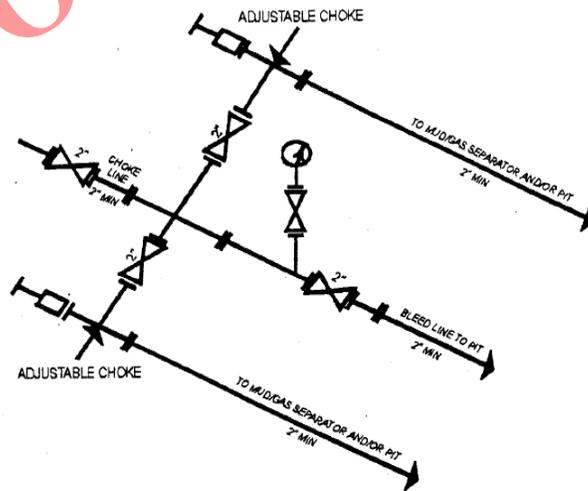
Mandie Crozier
Regulatory Analyst
Newfield Production Company

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Typical 2M BOP stack configuration



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2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

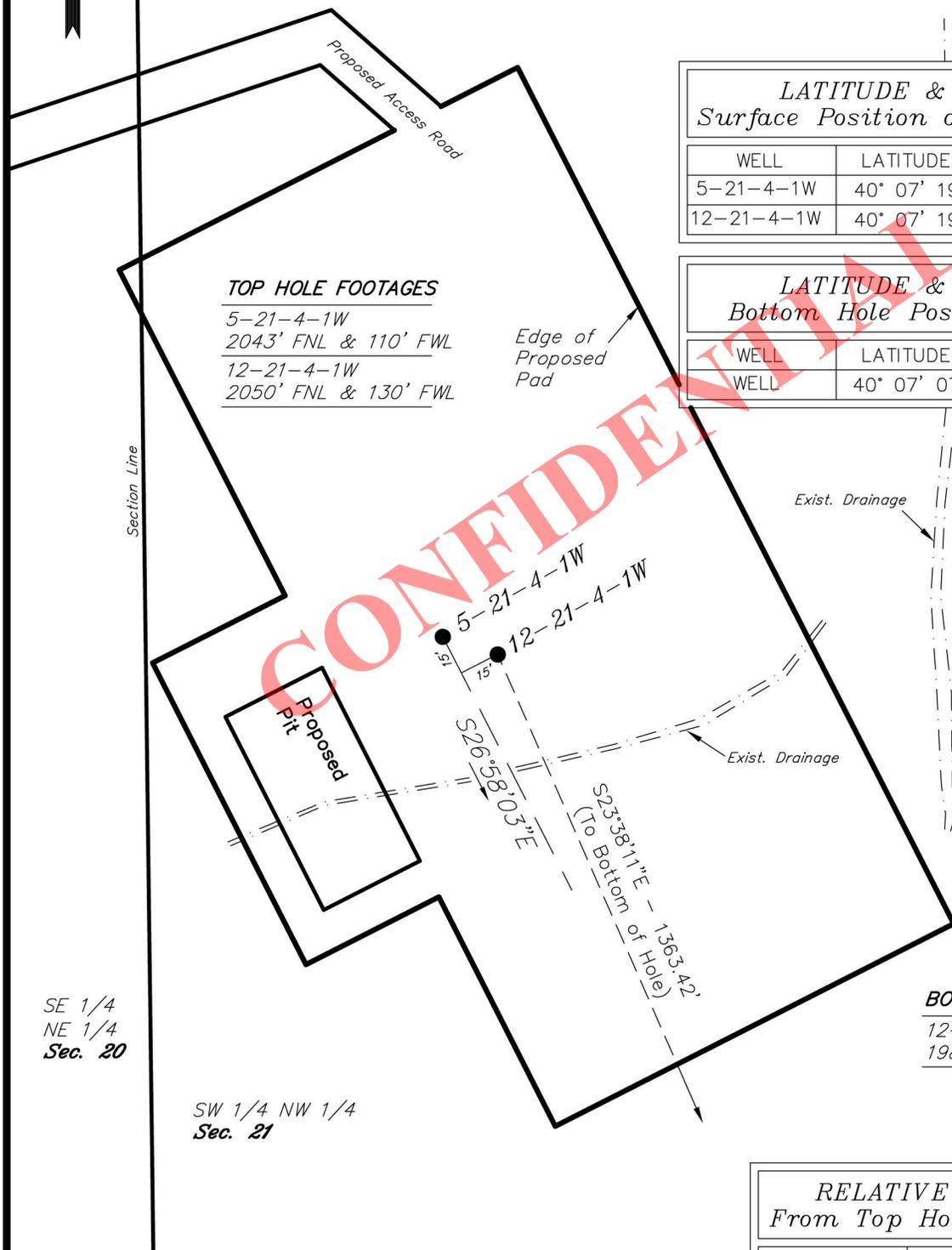
NEWFIELD EXPLORATION COMPANY

WELL PAD INTERFERENCE PLAT

5-21-4-1W

12-21-4-1W

Pad Location: SWNW Section 21, T4S, R1W, U.S.B.&M.



TOP HOLE FOOTAGES

5-21-4-1W
2043' FNL & 110' FWL
12-21-4-1W
2050' FNL & 130' FWL

LATITUDE & LONGITUDE
Surface Position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
5-21-4-1W	40° 07' 19.86"	110° 00' 37.92"
12-21-4-1W	40° 07' 19.79"	110° 00' 37.66"

LATITUDE & LONGITUDE
Bottom Hole Position (NAD 83)

WELL	LATITUDE	LONGITUDE
WELL	40° 07' 07.36"	110° 00' 30.89"

Proposed Pit

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SE 1/4
NE 1/4
Sec. 20

SW 1/4 NW 1/4
Sec. 21

BOTTOM HOLE FOOTAGES
12-21-4-1W
1986' FSL & 661' FWL

RELATIVE COORDINATES
From Top Hole to Bottom Hole

WELL	NORTH	EAST
12-21-4-1W	-1,249'	547'

Note:
Bearings are based on GPS Observations.

SURVEYED BY: S.V.	DATE SURVEYED: 02-04-13	VERSION: V1
DRAWN BY: V.H.	DATE DRAWN: 02-05-13	
SCALE: 1" = 60'	REVISED:	

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

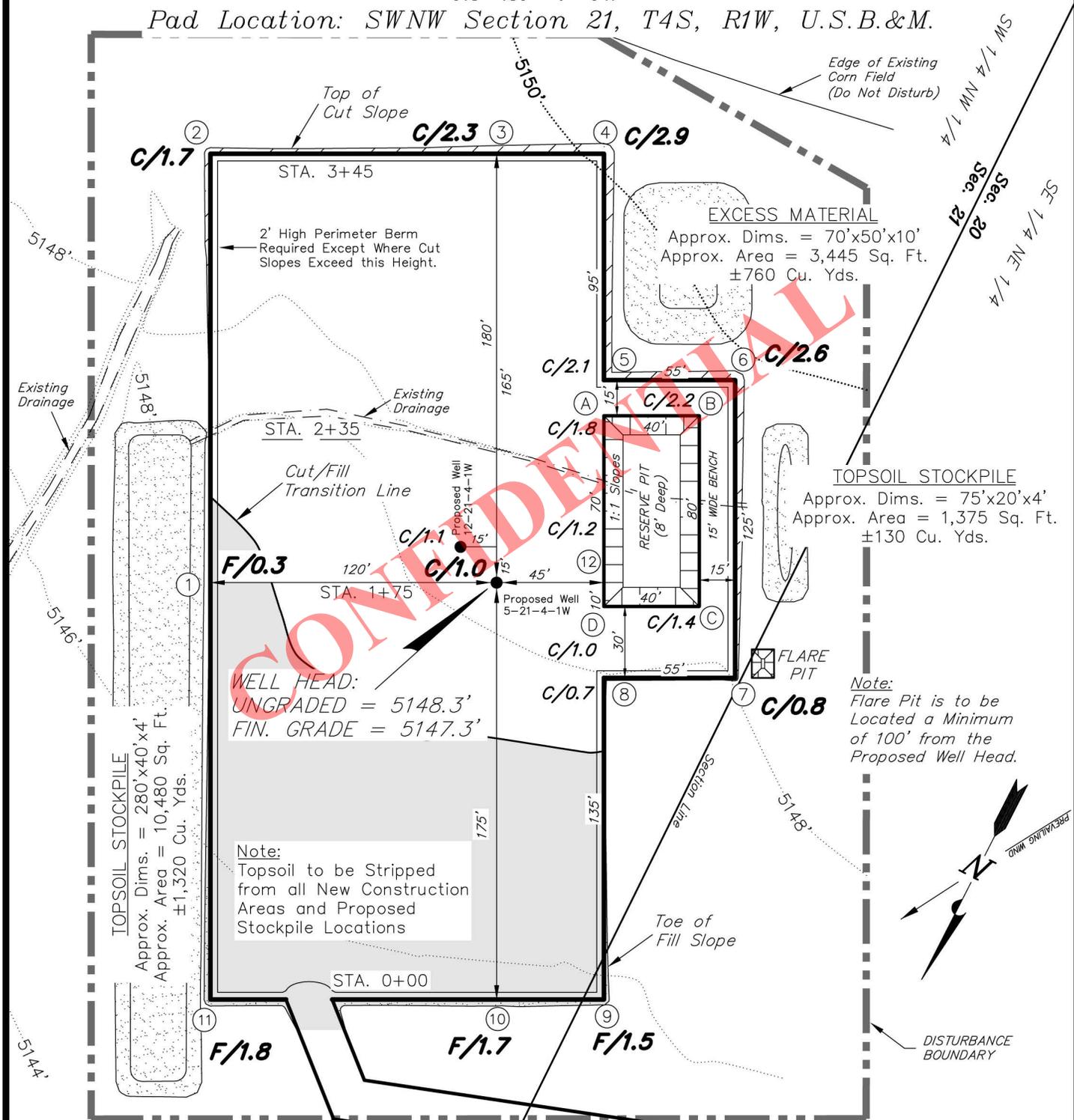
NEWFIELD EXPLORATION COMPANY

PROPOSED LOCATION LAYOUT

5-21-4-1W

12-21-4-1W

Pad Location: SWNW Section 21, T4S, R1W, U.S.B.&M.



WELL HEAD:
 UNGRADED = 5148.3'
 FIN. GRADE = 5147.3'

Note:
 Topsoil to be Stripped
 from all New Construction
 Areas and Proposed
 Stockpile Locations

EXCESS MATERIAL
 Approx. Dims. = 70'x50'x10'
 Approx. Area = 3,445 Sq. Ft.
 ±760 Cu. Yds.

TOPSOIL STOCKPILE
 Approx. Dims. = 75'x20'x4'
 Approx. Area = 1,375 Sq. Ft.
 ±130 Cu. Yds.

TOPSOIL STOCKPILE
 Approx. Dims. = 280'x40'x4'
 Approx. Area = 10,480 Sq. Ft.
 ±1,320 Cu. Yds.

Note:
 Flare Pit is to be
 Located a Minimum
 of 100' from the
 Proposed Well Head.

REFERENCE POINTS

- 170' NORTHEASTERLY = 5146.7'
- 220' NORTHEASTERLY = 5145.0'
- 230' SOUTHEASTERLY = 5149.9'
- 280' SOUTHEASTERLY = 5150.6'

NOTE:
 The topsoil & excess material areas are calculated as being mounds containing 2,210 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

SURVEYED BY: S.V.	DATE SURVEYED: 02-04-13	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 12-20-10	V1
SCALE: 1" = 60'	REVISED: V.H. 02-05-13	

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

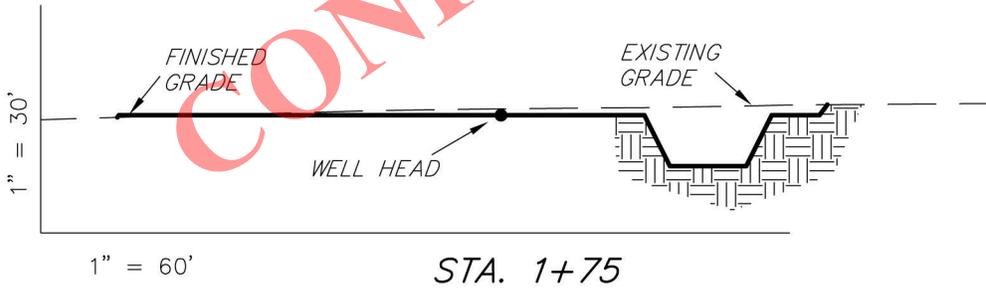
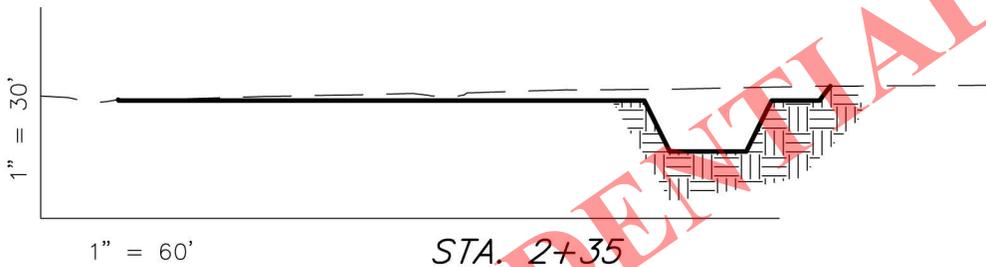
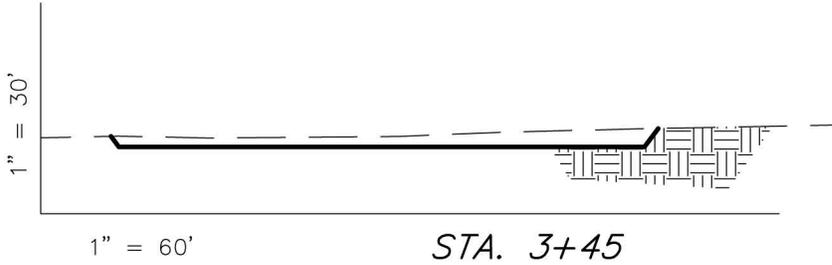
NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS

5-21-4-1W

12-21-4-1W

Pad Location: SWNW Section 21, T4S, R1W, U.S.B.&M.



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

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

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	1,130	1,130	Topsoil is not included in Pad Cut Volume	0
PIT	690	0		690
TOTALS	1,820	1,130	1,320	690

SURVEYED BY: S.V.	DATE SURVEYED: 02-04-13	VERSION: V1
DRAWN BY: F.T.M.	DATE DRAWN: 12-20-10	
SCALE: 1" = 60'	REVISED: V.H. 02-05-13	

(435) 781-2501

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

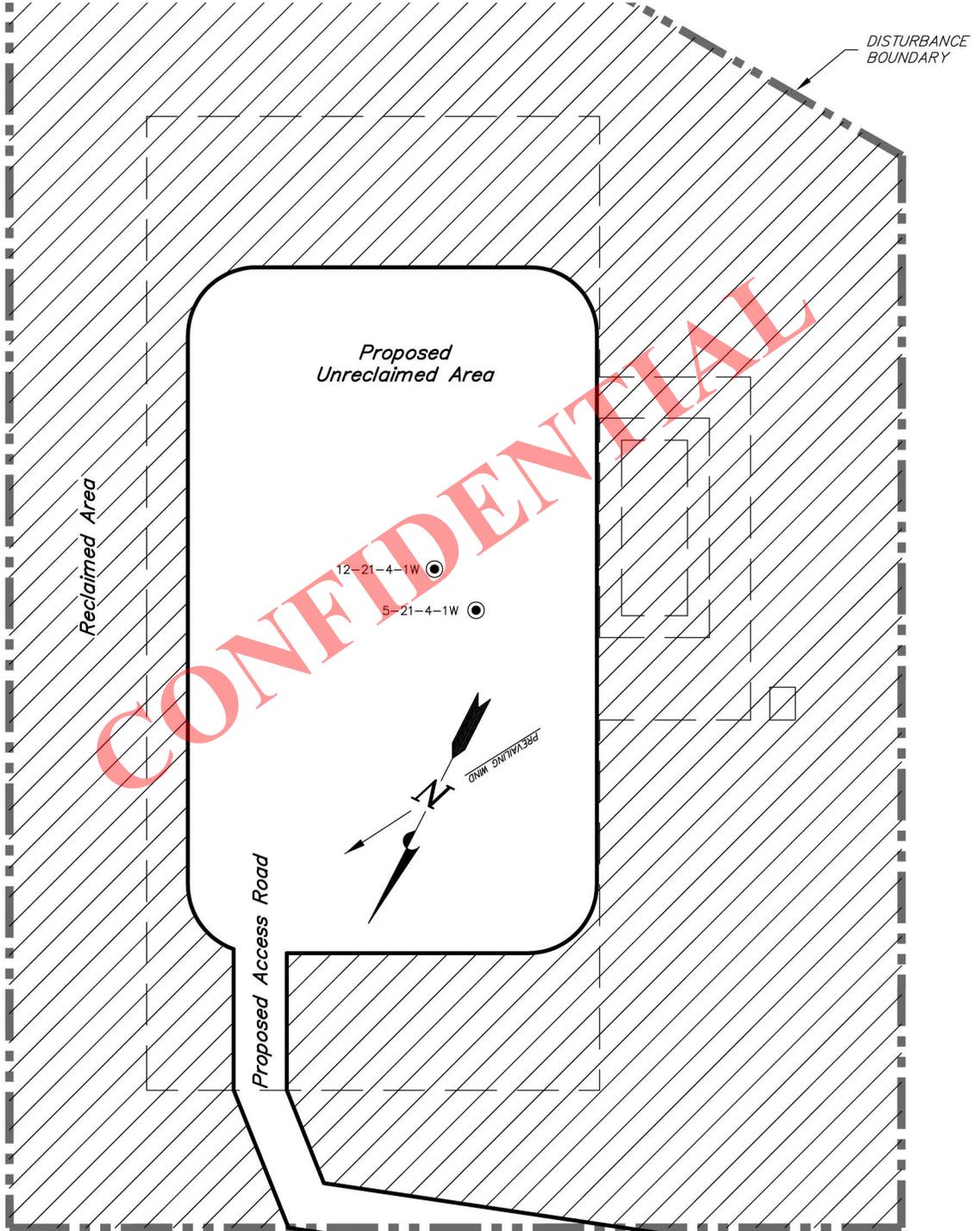
NEWFIELD EXPLORATION COMPANY

RECLAMATION LAYOUT

5-21-4-1W

12-21-4-1W

Pad Location: SWNW Section 21, T4S, R1W, U.S.B.&M.



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Notes:

1. Reclaimed Area to Include Seeding of Approved Vegetation and Sufficient Storm Water Management System.
2. Actual Equipment Layout and Reclaimed Pad Surface Area May Change due to Production Requirements or Site Conditions.

DISTURBED AREA:

TOTAL DISTURBED AREA = 3.31 ACRES
 TOTAL RECLAIMED AREA = 2.40 ACRES
 UNRECLAIMED AREA = 0.91 ACRES

SURVEYED BY: S.V.	DATE SURVEYED: 02-04-13	VERSION:
DRAWN BY: V.H.	DATE DRAWN: 02-05-13	V1
SCALE: 1" = 60'	REVISED:	

(435) 781-2501

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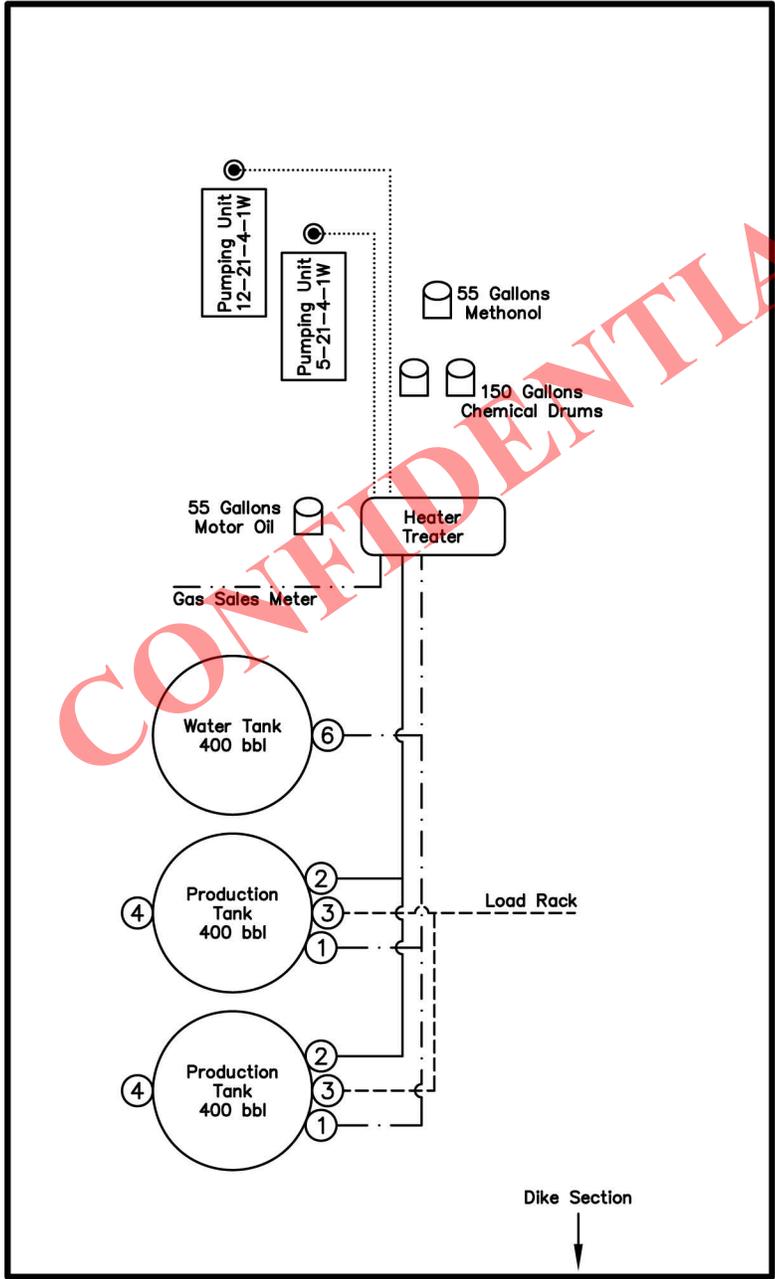
NEWFIELD EXPLORATION COMPANY

PROPOSED SITE FACILITY DIAGRAM

5-21-4-1W FEE MINERAL

12-21-4-1W FEE MINERAL

*Pad Location: SWNW Section 21, T4S, R1W, U.S.B.&M.
Duchesne County, Utah*



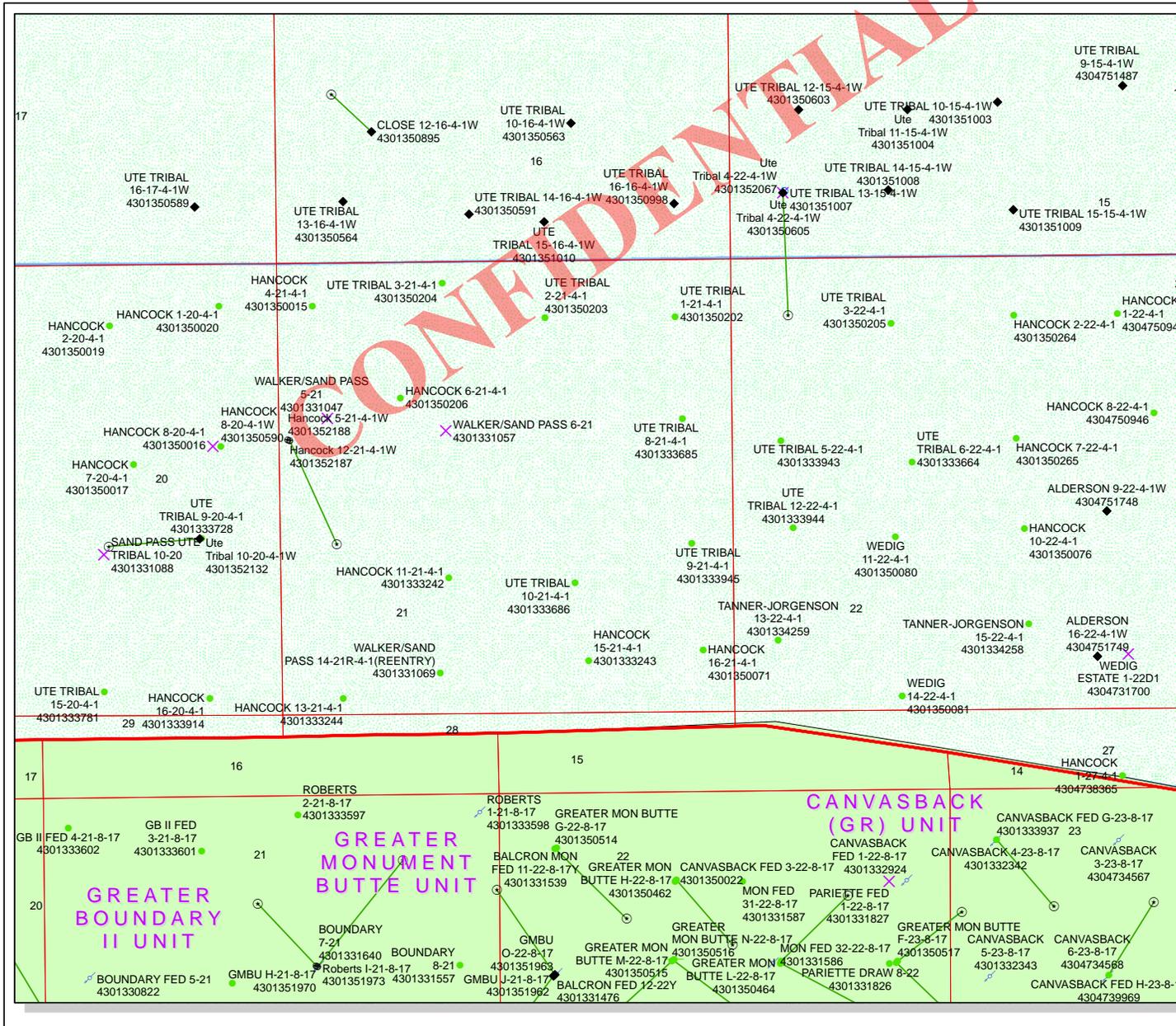
Legend

Emulsion Line
Load Rack	-----
Water Line
Gas Sales
Oil Line	_____

NOT TO SCALE

SURVEYED BY: S.V.	DATE SURVEYED: 02-04-13	VERSION:
DRAWN BY: V.H.	DATE DRAWN: 02-05-13	V1
SCALE: NONE	REVISED:	

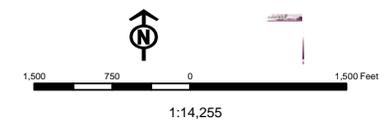
Tri State (435) 781-2501
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078



API Number: 4301352187
Well Name: Hancock 12-21-4-1W
Township T04.0S Range R01.0W Section 21
Meridian: UBM
Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
 Map Produced by Diana Mason

- Units STATUS**
- ACTIVE
 - EXPLORATORY
 - GAS STORAGE
 - PP OIL
 - PP GAS
 - PP GEOTHERMAL
 - PP OIL
 - SECONDARY
 - TERMINATED



NEWFIELD



VIA ELECTRONIC DELIVERY

Newfield Exploration Company

1001 17th Street | Suite 2000

Denver, Colorado 80202

PH 303-893-0102 | FAX 303-893-0103

May 28, 2013

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

RE: Directional Drilling
Hancock 12-21-4-1W

Surface Hole: T4S-R1W Section 21: SWNW
2050' FNL 130' FWL

At Target: T4S-R1W Section 21: NWSW
1986' FSL 661' FWL

Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 5/22/2013, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

NPC is permitting this well as a directional well in order to avoid direct impact to farmland and irrigation system.

Please note the surface hole and target locations of this well and all surrounding acreage within a four hundred sixty (460') foot radius is fee acreage and the leasehold is owned 100% by NPC

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4121 or by email at lburget@newfield.com. Your consideration in this matter is greatly appreciated.

Sincerely,
Newfield Production Company

A handwritten signature in cursive script that reads "Leslie Burget".

Leslie Burget
Land Associate

Well Name	NEWFIELD PRODUCTION COMPANY Hancock 12-21-4-1W 43013521			
String	SURF	PROD		
Casing Size(")	8.625	5.500		
Setting Depth (TVD)	1000	6090		
Previous Shoe Setting Depth (TVD)	0	1000		
Max Mud Weight (ppg)	8.3	8.4		
BOPE Proposed (psi)	500	2000		
Casing Internal Yield (psi)	2950	4810		
Operators Max Anticipated Pressure (psi)	2695	8.5		

Calculations	SURF String	8.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	432		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	312	YES	air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	212	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	212	NO	OK
Required Casing/BOPE Test Pressure=		1000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient	

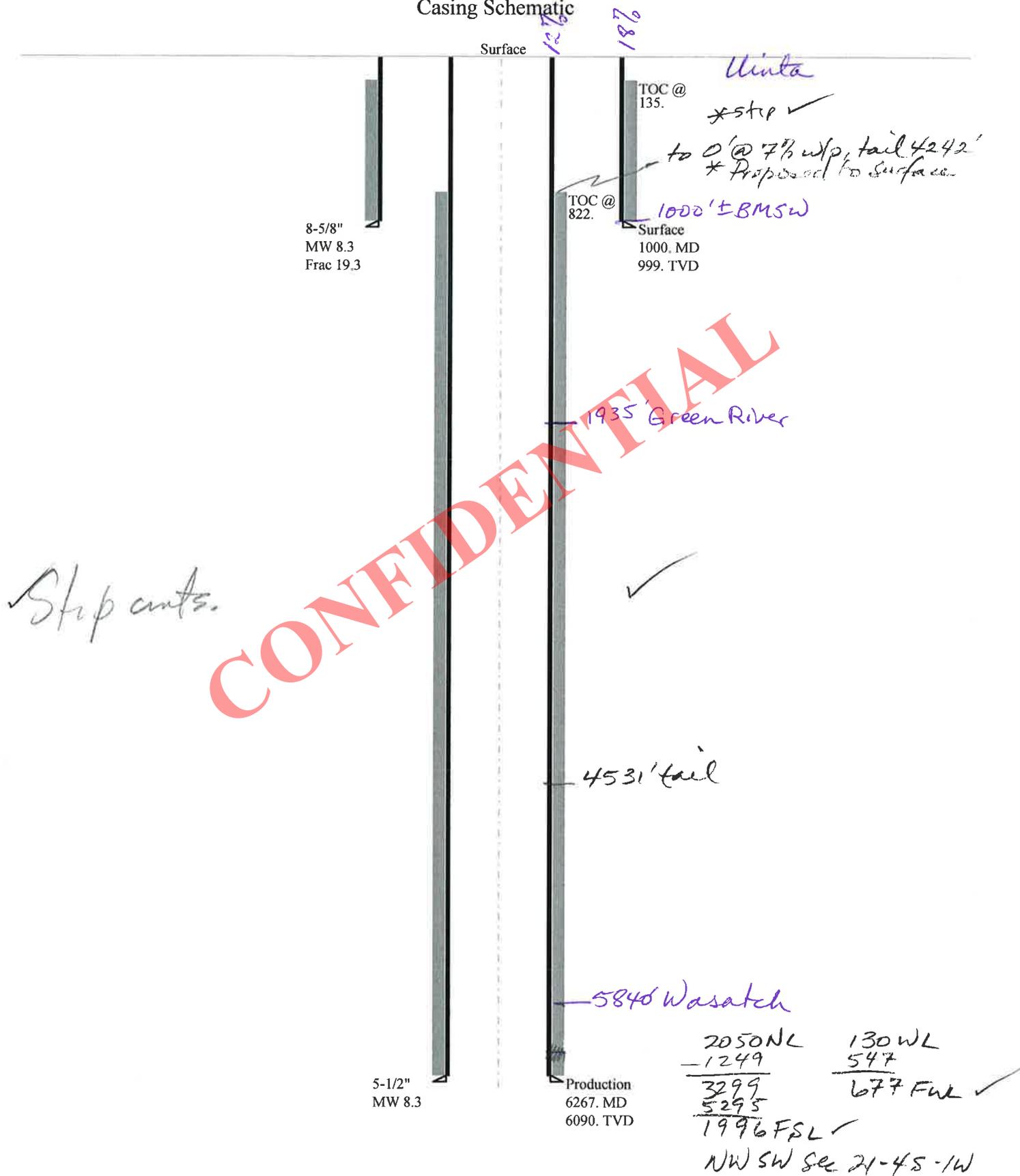
Calculations	PROD String	5.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	2660		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1929	YES	2M BOPE, FW mud
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1320	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1540	NO	OK
Required Casing/BOPE Test Pressure=		2000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		1000	psi *Assumes 1psi/ft frac gradient	

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

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

43013521870000 Hancock 12-21-4-1W

Casing Schematic



Well name:	43013521870000 Hancock 12-21-4-1W	
Operator:	NEWFIELD PRODUCTION COMPANY	
String type:	Surface	Project ID: 43-013-52187
Location:	DUCHESNE COUNTY	

Design parameters:

Collapse

Mud weight: 8.300 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 879 psi
Internal gradient: 0.120 psi/ft
Calculated BHP: 999 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 buoyed weight.
Neutral point: 875 ft

Environment:

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

Cement top: 135 ft

Directional well information:

Kick-off point: 600 ft
Departure at shoe: 21 ft
Maximum dogleg: 1.5 °/100ft
Inclination at shoe: 6 °

Re subsequent strings:

Next setting depth: 6,090 ft
Next mud weight: 8.300 ppg
Next setting BHP: 2,626 psi
Fracture mud wt: 19,250 ppg
Fracture depth: 999 ft
Injection pressure: 999 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	1000	8.625	24.00	J-55	ST&C	999	1000	7.972	5148
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	431	1350	3.133	999	2950	2.95	21	244	11.62 J

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

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

Date: September 5, 2013
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 999 ft, a mud weight of 8.3 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

Well name:	43013521870000 Hancock 12-21-4-1W	
Operator:	NEWFIELD PRODUCTION COMPANY	
String type:	Production	Project ID: 43-013-52187
Location:	DUCHESNE COUNTY	

Design parameters:

Collapse

Mud weight: 8.300 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 159 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft
Cement top: 822 ft

Burst

Max anticipated surface pressure: 1,286 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 2,626 psi

No backup mud specified.

Tension:

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

Tension is based on air weight.
Neutral point: 5,474 ft

Directional Info - Build & Hold

Kick-off point: 600 ft
Departure at shoe: 1363 ft
Maximum dogleg: 1.5 °/100ft
Inclination at shoe: 15.32 °

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	6267	5.5	15.50	J-55	LT&C	6090	6267	4.825	22129
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	2626	4040	1.539	2626	4810	1.83	94.4	217	2.30 J

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

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

Date: August 1, 2013
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 6090 ft, a mud weight of 8.3 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator NEWFIELD PRODUCTION COMPANY
Well Name Hancock 12-21-4-1W
API Number 43013521870000 **APD No** 8037 **Field/Unit** MONUMENT BUTTE
Location: 1/4,1/4 SWNW **Sec** 21 **Tw** 4.0S **Rng** 1.0W 2050 FNL 130 FWL
GPS Coord (UTM) 584317 4441786 **Surface Owner** Henderson Ranches LLC

Participants

Corie Miller, Mandie Crozier - NFX

Regional/Local Setting & Topography

This well location is located in Duchesne County in an area called Pleasant Valley between Windy Ridge and the Parriette Bench. The county line is approximately 1 1/2 mile East. The site is on productive farm land in the triangle between center pivot sprinkler paths. Cattle are grazed nearby. The location is surrounded by drainages both shallow and wide and may have been irrigation ditches. One such feature cuts across pad. Location was moved and shared with 5-21-4-1W to avoid impact with sprinkler path. The section is has an oil well on nearly every 40 acre parcel and most roads in the area serve that purpose. The soils are highly erodible clays with orchard grass the dominant vegetation type. The topography is relatively flat and may have been altered for agriculture as regionally the topography is better described as having deeply incised knolls with erosional features.

Surface Use Plan

Current Surface Use
Agricultural

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.1	Width 220 Length 360	Onsite	UNTA

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna
cultivated farmland

Soil Type and Characteristics
cultivated sandy clays

Erosion Issues Y

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N**Berm Required? Y****Erosion Sedimentation Control Required? N****Paleo Survey Run? N Paleo Potential Observed? N Cultural Survey Run? N Cultural Resources? N****Reserve Pit**

Site-Specific Factors	Site Ranking
Distance to Groundwater (feet) 100 to 200	5
Distance to Surface Water (feet)	20
Dist. Nearest Municipal Well (ft) >5280	0
Distance to Other Wells (feet)	20
Native Soil Type Mod permeability	10
Fluid Type Fresh Water	5
Drill Cuttings Normal Rock	0
Annual Precipitation (inches)	0
Affected Populations	
Presence Nearby Utility Conduits Not Present	0
Final Score	60 1 Sensitivity Level

Characteristics / Requirements

A 40' x 80' x 8' deep reserve pit is planned in an area of cut on the northwest side of the location. A pit liner is required. 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**

NFX has agreements with Hendesons to reclaim the pit and most of this site ASAP so they can have it back for farming. The location is located adjacent the center pivot path. Previous efforts have not been completed in a manner that allow crop production.

Water is likely to be sprinkled on pad. I think it may be appropriate to anticipate and prepare for site problems like stability

Once again...they want it noted that they have agreements on the placement of roads with culverts , gates and cattle guards that NFX has not honored on nearby pads on this farm

Chris Jensen
Evaluator

6/12/2013
Date / Time

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

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
8037	43013521870000	LOCKED	OW	P	No
Operator	NEWFIELD PRODUCTION COMPANY		Surface Owner-APD	Henderson Ranches LLC	
Well Name	Hancock 12-21-4-1W		Unit		
Field	MONUMENT BUTTE		Type of Work	DRILL	
Location	SWNW 21 4S 1W U 2050 FNL (UTM) 584319E 4441774N		130 FWL	GPS Coord	

Geologic Statement of Basis

Newfield proposes to set 300' of surface casing at this location. The the base of the moderately saline water at this location is estimated to be at a depth of 1,000'. A search of Division of Water Rights records shows 6 water wells within a 10,000 foot radius of the center of Section 21. All wells are privately owned. Depth is not listed for any of the wells. Water use is listed as irrigation, stock watering, and domestic use. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Surface casing should be extended to cover the estimated base of the moderately saline ground water.

Brad Hill
APD Evaluator

7/3/2013
Date / Time

Surface Statement of Basis

Wellis proposed in a good location although outside the spacing window proposed in the triangle between two center pivot sprinklers. Access road enters the pad from the North. The landowner and its representative were 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 but the likely introduction of water from the sprinkler does warrant additional consideration during design and construction of pad.

Usual construction standards of the Operator do not 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 and address irrigation water. I have added a felt subliner for protection of farmland as reserve pit will be constructed over an existing channel.

I recognize no special flora or animal species or cultural resources on site that the proposed action may harm. The location was previously surveyed for cultural and paleontological resources as the operator saw fit. I have advised the operator take all measures necessary to comply with ESA and MBTA and that actions insure no disturbance to species that may have not been seen during onsite visit.

The location should be bermed to prevent fluids from entering or leaving the confines of the pad. Fencing around the reserve pit will be necessary to prevent wildlife and livestock from entering. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit.

The surface owner wants it noted that they have agreements on the placement of roads

with culverts , gates and cattle guards that NFX has not honored on nearby pads on this farm.

Chris Jensen
Onsite Evaluator

6/12/2013
Date / Time

Conditions of Approval / Application for Permit to Drill

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

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WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/22/2013

API NO. ASSIGNED: 43013521870000

WELL NAME: Hancock 12-21-4-1W

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: SWNW 21 040S 010W

Permit Tech Review:

SURFACE: 2050 FNL 0130 FWL

Engineering Review:

BOTTOM: 1986 FSL 0661 FWL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.12206

LONGITUDE: -110.01044

UTM SURF EASTINGS: 584319.00

NORTHINGS: 4441774.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 4 - Fee

LEASE NUMBER: FEE

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingling Approved

LOCATION AND SITING:

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

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhill
 5 - Statement of Basis - bhill
 12 - Cement Volume (3) - hmacdonald
 15 - Directional - dmason
 23 - Spacing - dmason
 25 - Surface Casing - hmacdonald



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Hancock 12-21-4-1W
API Well Number: 43013521870000
Lease Number: FEE
Surface Owner: FEE (PRIVATE)
Approval Date: 9/25/2013

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 R649-3-11. 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

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

General:

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

Conditions of Approval:

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

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an

area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

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

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

Surface casing shall be cemented to the surface.

Additional Approvals:

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

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

Notification Requirements:

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

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

Contact Information:

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

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

Reporting Requirements:

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

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

Approved By:

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

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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.		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		8. WELL NAME and NUMBER: Hancock 12-21-4-1W
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052		9. API NUMBER: 43013521870000
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2050 FNL 0130 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 21 Township: 04.0S Range: 01.0W 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		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/30/2014	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

The above well was placed on production on 05/30/2014 at 12:15 hours. Production Start sundry sent late due to UDOGM ePermit site being unavailable at time of PWOP.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**
July 01, 2014

NAME (PLEASE PRINT) Jennifer Peatross	PHONE NUMBER 435 646-4885	TITLE Production Technician
SIGNATURE N/A	DATE 7/1/2014	

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

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other: _____	5. Lease Serial No. FEE 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. HANCOCK 12-21-4-1W
3. Address ROUTE #3 BOX 3630 MYTON, UT 84052	3a. Phone No. (include area code) Ph:435-646-3721
9. API Well No. 43-013-52187	

4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 2050' FNL 130' FWL (SW/NW) SEC 21 T4S R1W At top prod. interval reported below 2436' FSL 465' FWL (NW/SW) SEC 21 T4S R1W At total depth 2004' FSL 534' FWL (NW/SW) SEC 21 T4S R1W	10. Field and Pool or Exploratory 11. Sec., T., R., M., on Block and Survey or Area SEC 21 T4S R1W 12. County or Parish 13. State DUCHESNE UT
---	---

14. Date Spudded 04/16/2014	15. Date T.D. Reached 05/11/2014	16. Date Completed 05/30/2014 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.	17. Elevations (DF, RKB, RT, GL)* 5148' GL 5161' KB
--------------------------------	-------------------------------------	---	--

18. Total Depth: MD 7085' TVD 6921'	19. Plug Back T.D.: MD 7009' TVD	20. Depth Bridge Plug Set: MD TVD
---	--	---

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) DUAL IND GRD, SP, COMP. NEUTRON, GR, CALIPER, CMT BOND	22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24	0'	1020'		520 CLASS G			
7-7/8"	5-1/2" SB-80	17	0'	7056'		350 Econocem		0'	
						460Expandacem			

24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-7/8"	EOT@6893'	TA@6735'							

25. Producing Intervals				26. Perforation Record			
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status	
A) Green River	5015'	6945'	5015' - 6945' MD	0.34	94		
B)							
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, etc.	
Depth Interval	Amount and Type of Material
5015' - 6945' MD	Frac w/ 486,960#s of 20/40 white sand and 6,920#s of 100 Mesh in 4,885 bbls of Lightning 17 fluid, in 6 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
5/30/14	6/10/14	24	→	68	31	70			2.5 x 1.75 x 24' RHAC
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	

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

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

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.

31. Formation (Log) Markers
GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MARK GARDEN GULCH 1	4537' 4730'
				GARDEN GULCH 2 POINT 3	4854' 5153'
				X MRKR Y MRKR	5384' 5422'
				DOUGLAS CREEK MRK BI CARBONATE MRK	5555' 5835'
				B LIMESTONE MRK CASTLE PEAK	5986' 6416'
				BASAL CARBONATE WASATCH	6835' 6960'

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: Drilling daily activity

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 06/24/2014

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.



NEWFIELD EXPLORATION

**USGS Myton SW (UT)
SECTION 21 T4S, R1W
12-21-4-1W
Wellbore #1**

Design: Actual

End of Well Report

11 May, 2014





Payzone Directional
End of Well Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 21 T4S, R1W
Well: 12-21-4-1W
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well 12-21-4-1W
TVD Reference: 12-21-4-1W @ 5161.0usft (CAPSTAR 329)
MD Reference: 12-21-4-1W @ 5161.0usft (CAPSTAR 329)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA
Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: Utah Central Zone
System Datum: Mean Sea Level

Site SECTION 21 T4S, R1W
Site Position: Northing: 7,216,690.84 usft Latitude: 40° 7' 19.790 N
 Easting: 2,056,929.56 usft Longitude: 110° 0' 37.660 W
Position Uncertainty: Slot Radius: 13-3/16 " Grid Convergence: 0.95 °

Well 12-21-4-1W, SHL LAT: 40 07 19.79 LONG: -110 00 37.66
Well Position +N/-S 0.0 usft Northing: 7,216,690.83 usft Latitude: 40° 7' 19.790 N
 +E/-W 0.0 usft Easting: 2,056,929.56 usft Longitude: 110° 0' 37.660 W
Position Uncertainty Wellhead Elevation: 5,161.0 usft Ground Level: 5,148.0 usft

Wellbore Wellbore #1
Magnetics Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT)
 IGRF2010 4/24/2014 10.94 65.80 52,040

Design Actual
Audit Notes:
Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0
Vertical Section: Depth From (TVD) (usft) +N/-S (usft) +E/-W (usft) Direction (°)
 0.0 0.0 0.0 157.92

Survey Program From (usft) To (usft) Date 5/11/2014
 1,057.0 7,085.0 Survey #1 (Wellbore #1) Tool Name Description
 MWD MWD - Standard



Payzone Directional
End of Well Report



Company: NEWFIELD EXPLORATION
Project: USGS Mylon SW (UT)
Site: SECTION 21 T4S, R1W
Well: 12-21-4-1W
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well 12-21-4-1W
TVD Reference: 12-21-4-1W @ 5161.0ust (CAPSTAR 329)
MD Reference: 12-21-4-1W @ 5161.0ust (CAPSTAR 329)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	1,057.0	0.10	177.30	1,057.0	0.9	-0.9	0.0	0.01	0.01	0.00
	1,101.0	0.40	151.00	1,101.0	1.1	-1.1	0.1	0.71	0.68	-59.77
	1,145.0	0.80	149.60	1,145.0	1.5	-1.5	0.3	0.91	0.91	-3.18
	1,189.0	1.40	169.60	1,189.0	2.3	-2.3	0.6	1.60	1.36	45.45
	1,231.0	2.30	173.10	1,231.0	3.7	-3.6	0.8	2.16	2.14	8.33
	1,275.0	3.00	171.30	1,274.9	5.6	-5.6	1.1	1.60	1.59	-4.09
	1,318.0	3.50	165.70	1,317.8	8.0	-8.0	1.6	1.38	1.16	-13.02
	1,361.0	3.30	163.00	1,360.8	10.6	-10.5	2.3	0.60	-0.47	-6.28
	1,405.0	3.50	158.00	1,404.7	13.2	-12.9	3.1	0.81	0.45	-11.36
	1,449.0	4.20	155.50	1,448.6	16.1	-15.7	4.3	1.64	1.59	-5.68
	1,493.0	4.90	157.20	1,492.5	19.6	-18.8	5.7	1.62	1.59	3.86
	1,535.0	5.70	161.60	1,534.3	23.5	-22.5	7.1	2.14	1.90	10.48
	1,579.0	6.40	164.50	1,578.0	28.1	-26.9	8.4	1.74	1.59	6.59
	1,623.0	7.30	164.30	1,621.7	33.3	-32.0	9.8	2.05	2.05	-0.45
	1,667.0	8.10	163.40	1,665.3	39.2	-37.6	11.5	1.84	1.82	-2.05
	1,710.0	8.80	162.20	1,707.9	45.5	-43.7	13.3	1.68	1.63	-2.79
	1,754.0	9.70	161.10	1,751.3	52.5	-50.4	15.6	2.08	2.05	-2.50
	1,798.0	10.40	161.70	1,794.6	60.2	-57.7	18.0	1.61	1.59	1.36
	1,842.0	11.20	163.30	1,837.8	68.4	-65.5	20.5	1.94	1.82	3.64
	1,886.0	11.80	162.80	1,880.9	77.1	-73.9	23.0	1.38	1.36	-1.14
	1,930.0	12.60	159.30	1,923.9	86.4	-82.7	26.1	2.48	1.82	-7.95
	1,973.0	13.60	160.30	1,965.8	96.2	-91.8	29.4	2.38	2.33	2.33
	2,017.0	14.50	160.40	2,008.5	106.8	-101.9	33.0	2.05	2.05	0.23
	2,061.0	15.20	157.80	2,051.0	118.1	-112.4	37.0	2.20	1.59	-5.91
	2,105.0	15.30	156.40	2,093.5	129.7	-123.1	41.5	0.87	0.23	-3.18
	2,149.0	14.80	156.40	2,136.0	141.1	-133.6	46.1	1.14	-1.14	0.00



Payzone Directional
End of Well Report



Company: NEWFIELD EXPLORATION
Project: USGS Mylon SW (UT)
Site: SECTION 21 T4S, R1W
Well: 12-21-4-1W
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well 12-21-4-1W
TVD Reference: 12-21-4-1W @ 5161.0usft (CAPSTAR 329)
MD Reference: 12-21-4-1W @ 5161.0usft (CAPSTAR 329)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User.Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	2,193.0	14.60	157.20	2,178.5	152.3	-143.8	50.5	0.65	-0.45	1.82
	2,236.0	14.10	153.40	2,220.2	162.9	-153.5	55.0	2.48	-1.16	-8.84
	2,279.0	14.30	151.30	2,261.9	173.4	-162.9	59.9	1.29	0.47	-4.88
	2,323.0	14.40	151.80	2,304.5	184.2	-172.4	65.1	0.36	0.23	1.14
	2,366.0	14.50	153.30	2,346.2	194.9	-182.0	70.0	0.90	0.23	3.49
	2,410.0	14.60	155.20	2,388.7	206.0	-191.9	74.8	1.11	0.23	4.32
	2,454.0	14.80	156.10	2,431.3	217.1	-202.1	79.4	0.69	0.45	2.05
	2,496.0	14.70	155.30	2,471.9	227.8	-211.8	83.8	0.54	-0.24	-1.90
	2,540.0	14.50	153.70	2,514.5	238.9	-221.8	88.6	1.02	-0.45	-3.64
	2,584.0	14.50	152.30	2,557.1	249.8	-231.7	93.6	0.80	0.00	-3.18
	2,628.0	14.20	153.00	2,599.7	260.7	-241.3	98.6	0.79	-0.68	1.59
	2,671.0	14.50	153.00	2,641.4	271.3	-250.8	103.4	0.70	0.70	0.00
	2,715.0	14.90	154.00	2,683.9	282.5	-260.8	108.4	1.08	0.91	2.27
	2,759.0	15.20	154.60	2,726.4	293.9	-271.1	113.4	0.77	0.68	1.36
	2,802.0	15.50	154.90	2,767.9	305.2	-281.4	118.2	0.72	0.70	0.70
	2,846.0	15.80	154.20	2,810.3	317.1	-292.1	123.3	0.81	0.68	-1.59
	2,889.0	16.20	153.60	2,851.6	328.9	-302.8	128.5	1.01	0.93	-1.40
	2,933.0	16.50	154.20	2,893.8	341.2	-313.9	134.0	0.78	0.68	1.36
	2,977.0	15.90	155.00	2,936.1	353.5	-325.0	139.2	1.45	-1.36	1.82
	3,021.0	15.40	155.30	2,978.4	365.4	-335.8	144.2	1.15	-1.14	0.68
	3,064.0	15.50	154.30	3,019.9	376.8	-346.1	149.1	0.66	0.23	-2.33
	3,108.0	16.20	154.80	3,062.2	388.8	-357.0	154.3	1.62	1.59	1.14
	3,151.0	17.30	156.20	3,103.4	401.2	-368.3	159.4	2.72	2.56	3.26
	3,195.0	17.90	157.20	3,145.3	414.5	-380.5	164.7	1.53	1.36	2.27
	3,238.0	17.90	156.60	3,186.3	427.7	-392.6	169.9	0.43	0.00	-1.40
	3,281.0	17.80	155.70	3,227.2	440.9	-404.7	175.2	0.68	-0.23	-2.09
	3,324.0	17.70	154.90	3,268.1	454.0	-416.6	180.7	0.61	-0.23	-1.86



Payzone Directional
End of Well Report



Company: NEWFIELD EXPLORATION
Project: USGS Mylon SW (UT)
Site: SECTION 21 T4S, R1W
Well: 12-21-4-1W
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well 12-21-4-1W
TVD Reference: 12-21-4-1W @ 5161.0usft (CAPSTAR 329)
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Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	3,368.0	17.20	154.20	3,310.1	467.1	-428.5	186.3	1.23	-1.14	-1.59
	3,412.0	16.30	153.60	3,352.2	479.8	-439.9	191.9	2.08	-2.05	-1.36
	3,455.0	14.90	153.40	3,393.7	491.3	-450.2	197.1	3.26	-3.26	-0.47
	3,499.0	13.80	154.40	3,436.3	502.2	-460.0	201.9	2.56	-2.50	2.27
	3,543.0	13.10	156.00	3,479.1	512.4	-469.3	206.2	1.80	-1.59	3.64
	3,587.0	12.60	158.00	3,522.0	522.2	-478.3	210.0	1.52	-1.14	4.55
	3,630.0	12.30	160.40	3,564.0	531.5	-487.0	213.3	1.39	-0.70	5.58
	3,674.0	12.40	162.40	3,607.0	540.8	-495.9	216.3	1.00	0.23	4.55
	3,717.0	12.70	163.50	3,648.9	550.2	-504.8	219.0	0.89	0.70	2.56
	3,760.0	13.40	163.50	3,690.8	559.8	-514.2	221.8	1.63	1.63	0.00
	3,803.0	14.30	159.20	3,732.6	570.1	-523.9	225.1	3.18	2.09	-10.00
	3,847.0	14.90	158.00	3,775.1	581.2	-534.2	229.1	1.53	1.36	-2.73
	3,891.0	14.30	157.90	3,817.7	592.3	-544.5	233.3	1.36	-1.36	-0.23
	3,934.0	13.80	157.80	3,859.4	602.7	-554.2	237.2	1.16	-1.16	-0.23
	3,977.0	13.90	156.70	3,901.2	613.0	-563.7	241.2	0.66	0.23	-2.56
	4,022.0	14.50	157.10	3,944.8	624.0	-573.8	245.5	1.35	1.33	0.89
	4,066.0	15.00	157.50	3,987.4	635.2	-584.2	249.9	1.16	1.14	0.91
	4,110.0	14.70	155.70	4,029.9	646.5	-594.5	254.3	1.25	-0.68	-4.09
	4,153.0	14.60	153.30	4,071.5	657.4	-604.3	259.0	1.43	-0.23	-5.58
	4,195.0	14.50	152.50	4,112.1	667.9	-613.7	263.8	0.53	-0.24	-1.90
	4,238.0	14.20	153.80	4,153.8	678.5	-623.2	268.6	1.02	-0.70	3.02
	4,281.0	14.20	154.90	4,195.5	689.0	-632.7	273.2	0.63	0.00	2.56
	4,325.0	14.20	155.40	4,238.1	699.8	-642.5	277.7	0.28	0.00	1.14
	4,367.0	14.50	157.10	4,278.8	710.2	-652.0	281.9	1.23	0.71	4.05
	4,410.0	14.70	159.30	4,320.4	721.0	-662.1	286.0	1.37	0.47	5.12
	4,453.0	14.80	158.70	4,362.0	732.0	-672.3	289.9	0.42	0.23	-1.40
	4,496.0	14.60	160.10	4,403.6	742.9	-682.5	293.7	0.95	-0.47	3.26



Payzone Directional
End of Well Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 21 T4S, R1W
Well: 12-21-4-1W
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well 12-21-4-1W
 12-21-4-1W @ 5161.0ust (CAPSTAR 329)
 12-21-4-1W @ 5161.0ust (CAPSTAR 329)
MD Reference: True
North Reference: Minimum Curvature
Survey Calculation Method: EDM 5000.1 Single User Db
Database:

Survey	MD (usft)	Inc (°)	Azi (azimuth)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	4,540.0	14.20	160.00	4,446.2	753.8	-692.8	297.5	0.91	-0.91	-0.23
	4,584.0	13.90	160.00	4,488.9	764.5	-702.9	301.1	0.68	-0.68	0.00
	4,627.0	13.80	160.60	4,530.7	774.8	-712.6	304.6	0.41	-0.23	1.40
	4,669.0	14.10	162.10	4,571.4	784.9	-722.1	307.8	1.12	0.71	3.57
	4,713.0	14.40	164.20	4,614.1	795.7	-732.5	310.9	1.36	0.68	4.77
	4,757.0	14.90	164.50	4,656.7	806.7	-743.2	313.9	1.15	1.14	0.68
	4,800.0	15.30	164.20	4,698.2	817.9	-754.0	317.0	0.95	0.93	-0.70
	4,843.0	15.70	164.40	4,739.6	829.3	-765.1	320.1	0.94	0.93	0.47
	4,887.0	15.90	164.00	4,781.9	841.2	-776.6	323.3	0.52	0.45	-0.91
	4,931.0	15.50	161.50	4,824.3	853.1	-788.0	326.9	1.79	-0.91	-5.68
	4,973.0	15.30	159.30	4,864.8	864.2	-798.5	330.6	1.47	-0.48	-5.24
	5,016.0	15.40	158.50	4,906.3	875.6	-809.1	334.7	0.54	0.23	-1.86
	5,060.0	15.10	158.60	4,948.7	887.2	-819.9	338.9	0.68	-0.68	0.23
	5,104.0	14.50	156.20	4,991.2	898.4	-830.2	343.3	1.95	-1.36	-5.45
	5,146.0	14.50	156.00	5,031.9	908.9	-839.9	347.5	0.12	0.00	-0.48
	5,190.0	14.50	153.00	5,074.5	919.9	-849.8	352.3	1.71	0.00	-6.82
	5,234.0	14.50	154.30	5,117.1	930.9	-859.7	357.1	0.74	0.00	2.95
	5,278.0	14.40	155.20	5,159.7	941.8	-869.6	361.8	0.56	-0.23	2.05
	5,322.0	14.50	156.90	5,202.3	952.8	-879.6	366.3	0.99	0.23	3.86
	5,364.0	14.90	157.70	5,242.9	963.5	-889.5	370.4	1.07	0.95	1.90
	5,408.0	14.90	159.60	5,285.5	974.8	-900.0	374.5	1.11	0.00	4.32
	5,452.0	14.50	159.20	5,328.0	985.9	-910.5	378.4	0.94	-0.91	-0.91
	5,496.0	14.40	157.40	5,370.6	996.9	-920.7	382.5	1.05	-0.23	-4.09
	5,540.0	14.50	155.70	5,413.2	1,007.9	-930.7	386.9	0.99	0.23	-3.86
	5,583.0	14.90	156.40	5,454.8	1,018.8	-940.7	391.3	1.02	0.93	1.63
	5,627.0	14.80	157.70	5,497.4	1,030.1	-951.1	395.7	0.79	-0.23	2.95
	5,671.0	14.60	157.10	5,539.9	1,041.2	-961.4	400.0	0.57	-0.45	-1.36



Payzone Directional
End of Well Report



Company: NEWFIELD EXPLORATION
Project: USGS Mylon SW (UT)
Site: SECTION 21 T4S, R1W
Well: 12-21-4-1W
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well 12-21-4-1W
TVD Reference: 12-21-4-1W @ 5161.0usft (CAPSTAR 329)
MD Reference: 12-21-4-1W @ 5161.0usft (CAPSTAR 329)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User.Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	5,715.0	14.30	156.60	5,582.5	1,052.2	-971.5	404.3	0.74	-0.68	-1.14
	5,757.0	14.20	155.70	5,623.2	1,062.6	-980.9	408.5	0.58	-0.24	-2.14
	5,800.0	14.00	156.80	5,664.9	1,073.0	-990.5	412.7	0.78	-0.47	2.56
	5,844.0	13.70	158.60	5,707.7	1,083.6	-1,000.3	416.7	1.19	-0.68	4.09
	5,888.0	12.60	158.60	5,750.5	1,093.6	-1,009.6	420.4	2.50	-2.50	0.00
	5,930.0	12.00	158.80	5,791.6	1,102.5	-1,017.9	423.6	1.43	-1.43	0.48
	5,973.0	11.60	159.20	5,833.6	1,111.3	-1,026.1	426.8	0.95	-0.93	0.93
	6,016.0	11.10	161.10	5,875.8	1,119.8	-1,034.1	429.6	1.45	-1.16	4.42
	6,059.0	10.90	160.40	5,918.0	1,127.9	-1,041.8	432.3	0.56	-0.47	-1.63
	6,102.0	10.40	160.40	5,960.3	1,135.9	-1,049.3	435.0	1.16	-1.16	0.00
	6,146.0	10.50	158.80	6,003.5	1,143.9	-1,056.8	437.8	0.70	0.23	-3.64
	6,190.0	11.20	162.40	6,046.8	1,152.1	-1,064.6	440.5	2.21	1.59	8.18
	6,233.0	11.40	160.60	6,088.9	1,160.5	-1,072.6	443.2	0.94	0.47	-4.19
	6,277.0	11.80	158.40	6,132.0	1,169.4	-1,080.9	446.3	1.36	0.91	-5.00
	6,319.0	11.40	158.40	6,173.2	1,177.8	-1,088.7	449.4	0.95	-0.95	0.00
	6,363.0	11.90	155.90	6,216.3	1,186.7	-1,096.9	452.9	1.61	1.14	-5.68
	6,407.0	12.20	154.70	6,259.3	1,195.9	-1,105.3	456.7	0.89	0.68	-2.73
	6,451.0	11.90	154.10	6,302.3	1,205.1	-1,113.6	460.7	0.74	-0.68	-1.36
	6,495.0	12.50	151.70	6,345.3	1,214.3	-1,121.8	464.9	1.79	1.36	-5.45
	6,539.0	13.30	153.50	6,388.2	1,224.1	-1,130.6	469.4	2.03	1.82	4.09
	6,581.0	13.80	155.90	6,429.0	1,233.9	-1,139.5	473.6	1.79	1.19	5.71
	6,624.0	14.40	157.70	6,470.8	1,244.4	-1,149.1	477.7	1.73	1.40	4.19
	6,667.0	14.50	162.40	6,512.4	1,255.1	-1,159.2	481.4	2.74	0.23	10.93
	6,709.0	14.40	163.70	6,553.1	1,265.5	-1,169.2	484.5	0.81	-0.24	3.10
	6,753.0	14.50	163.10	6,595.7	1,276.5	-1,179.7	487.6	0.41	0.23	-1.36
	6,797.0	13.90	163.50	6,638.3	1,287.2	-1,190.0	490.7	1.38	-1.36	0.91
	6,840.0	12.70	164.00	6,680.2	1,297.1	-1,199.5	493.5	2.80	-2.79	1.16



Payzone Directional

End of Well Report

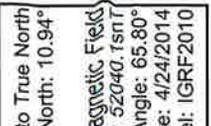


Company: NEWFIELD EXPLORATION
Project: USGS Mylon SW (UT)
Site: SECTION 21 T4S, R1W
Well: 12-21-4-1W
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well 12-21-4-1W
TVD Reference: 12-21-4-1W @ 5161.0usft (CAPSTAR 329)
MD Reference: 12-21-4-1W @ 5161.0usft (CAPSTAR 329)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

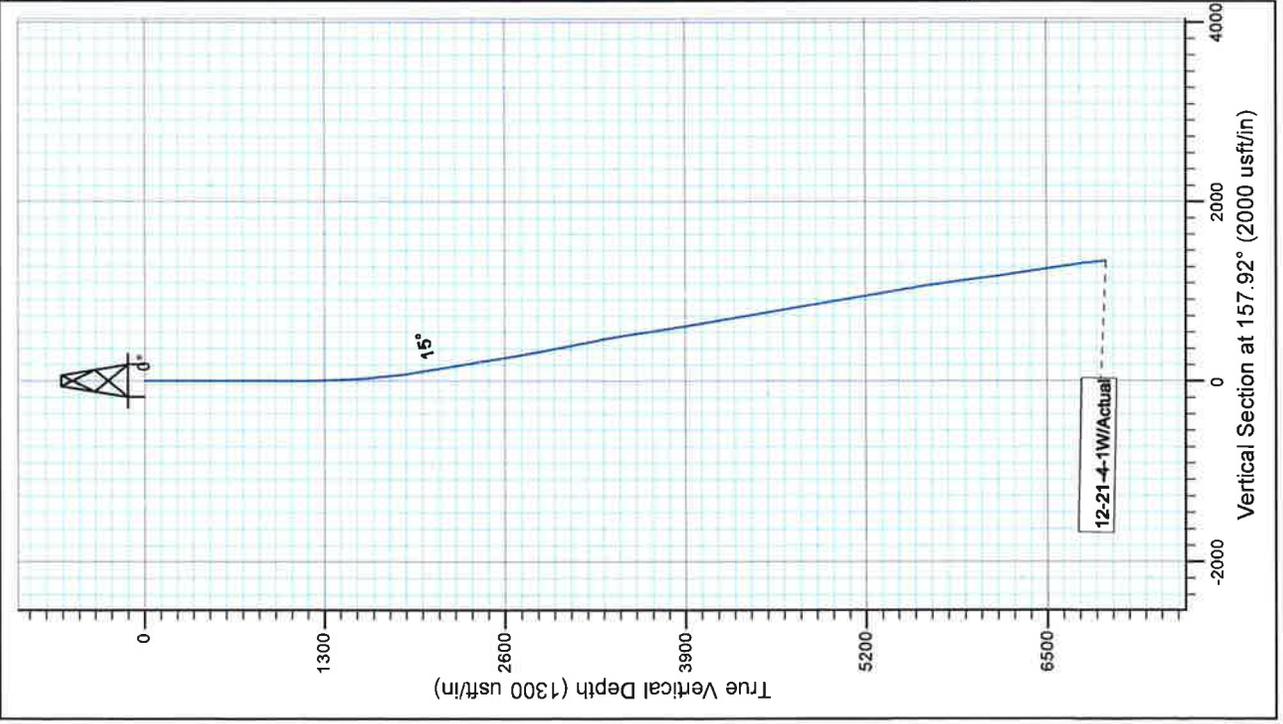
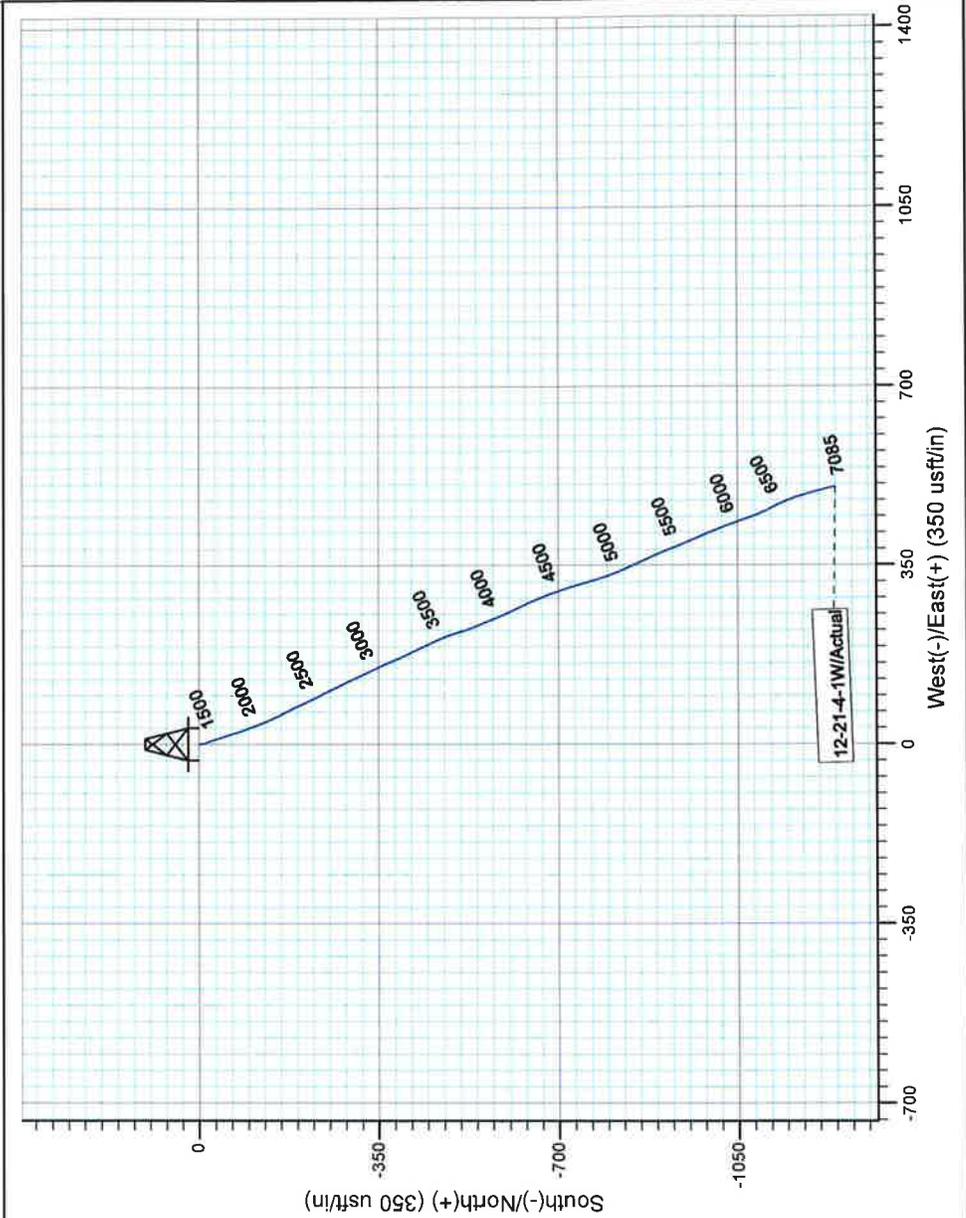
Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	6,884.0	11.40	165.10	6,723.2	1,306.2	-1,208.4	495.9	3.00	-2.95	2.50
	6,927.0	10.40	166.20	6,765.4	1,314.2	-1,216.3	497.9	2.38	-2.33	2.56
	6,971.0	9.50	167.40	6,808.8	1,321.8	-1,223.7	499.7	2.10	-2.05	2.73
	7,015.0	8.90	167.80	6,852.2	1,328.7	-1,230.5	501.2	1.37	-1.36	0.91
	7,025.0	8.90	167.80	6,862.1	1,330.2	-1,232.0	501.5	0.00	0.00	0.00
	7,085.0	8.90	167.80	6,921.4	1,339.4	-1,241.1	503.5	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____



 Azimuths to True North
 Magnetic North: 10.94°
 Magnetic Field
 Strength: 52040.7snT
 Dip Angle: 65.80°
 Date: 4/24/2014
 Model: IGRF2010

Project: USGS Myton SW (UT)
 Site: SECTION 21 T4S, R1W
 Well: 12-21-4-1W
 Wellbore: Wellbore #1
 Design: Actual



Design: Actual (12-21-4-1W/Wellbore #1)
 Created By: *Matthew London* Date: 20:41, May 11 2014
 THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA



Well Name: Hancock 12-21-4-1W

Summary Rig Activity

Job Category		Job Start Date	Job End Date
Daily Operations			
Report Start Date	Report End Date	24hr Activity Summary	
5/22/2014	5/23/2014	NU BOPs & Frac valve. Run CBL. Pressure test csg & well control stack. Perforate stage 1.	
Start Time	End Time	Comment	
06:00	08:00	NU Cameron 10K 5-1/4" wellhead isolation tool. NU Weatherford 10K frac valve & 10K blind rams.	
Start Time	End Time	Comment	
08:00	10:00	Run CBL from 6890' to surface under 0 psi. TOC @ surface.	
Start Time	End Time	Comment	
10:00	12:00	Pressure test csg to 6500 psi for 30 min. Pressure test well control stack & flowback lines to 10000 psi for 10 min. Low tests of 250-300 psi for 5 min.	
Start Time	End Time	Comment	
12:00	13:00	Perforate stage 1.	
Start Time	End Time	Comment	
13:00	00:00	SDFN	
Report Start Date	Report End Date	24hr Activity Summary	
5/23/2014	5/24/2014	Frac 6 stages & flowback well.	
Start Time	End Time	Comment	
00:00	05:00	SDFN	
Start Time	End Time	Comment	
05:00	06:30	RU frac equipment	
Start Time	End Time	Comment	
06:30	07:30	Wait for NCPS to finish rigging up frac equipment	
Start Time	End Time	Comment	
07:30	08:00	During pressure test there was a union found leaking. Replace and test lines again.	
Start Time	End Time	Comment	
08:00	08:24	Start pumping frac on 1st stage. During 1.25# stage there was a leak noticed coming from the flange between X-over spool & NCPS frac head. Flush wellbore with clean fluid.	
Start Time	End Time	Comment	
08:24	09:30	Flush sand away and tighten flange bolts. Pressure test lines.	
Start Time	End Time	Comment	
09:30	10:00	Pump remaining of stage #1.	
Start Time	End Time	Comment	
10:00	11:00	Set solid CBP @ 6850'. Perforate stg 2.	
Start Time	End Time	Comment	
11:00	11:48	Frac stg 2. Screened out 50 bbis short of flush. 26K #'s sand left in csg.	
Start Time	End Time	Comment	
11:48	14:30	Flow back to clean sand from wellbore.	
Start Time	End Time	Comment	
14:30	15:15	Set CFTP @ 6660' & perforate stg 3 perfs	
Start Time	End Time	Comment	
15:15	16:39	Frac stg 3	
Start Time	End Time	Comment	
16:39	17:30	Set CFTP @ 6240' & perf stage 4	
Start Time	End Time	Comment	
17:30	17:54	Frac stg 4	
Start Time	End Time	Comment	
17:54	18:48	Set CFTP @ 5770' & perf stg 5	
Start Time	End Time	Comment	
18:48	19:10	Frac stg 5	
Start Time	End Time	Comment	
19:10	20:00	Set CFTP @ 5160' & Perf stg 6	



Well Name: Hancock 12-21-4-1W

Summary Rig Activity

Start Time	20:00	End Time	20:30	Comment	Frac stg 6.
Start Time	20:30	End Time	00:00	Comment	Open well for flowback @ approx 4 bpm.
Report Start Date	5/24/2014	Report End Date	5/25/2014	24hr Activity Summary Continue flowback well. SDFN.	
Start Time	00:00	End Time	02:30	Comment	Continue flow well @ approx 4 BPM until dead. Trace of oil. Shut well in
Start Time	02:30	End Time	00:00	Comment	SDFN
Report Start Date	5/27/2014	Report End Date	5/28/2014	24hr Activity Summary Set 2 Kill plugs. ND frac stack. NU drill out stack & test. MIRUSU. PU mill & tbg.	
Start Time	00:00	End Time	06:00	Comment	SDFN
Start Time	06:00	End Time	09:00	Comment	Set kill plug @ 4970'. Set 2nd kill plug @ 4760'. RD WLT.
Start Time	09:00	End Time	10:00	Comment	MOVE FROM 1-34-8-17 TO 12-21-4-1E
Start Time	10:00	End Time	12:00	Comment	N.D FRAC STACK, N.U DRILL OUT STACK, TEST BOP'S
Start Time	12:00	End Time	13:30	Comment	SPOT RIG, PERP TO R.U, R.U, R.U FLOOR, R.U TONGS
Start Time	13:30	End Time	14:30	Comment	PREP, TALLY, DRIFT PIPE
Start Time	14:30	End Time	18:00	Comment	M.U & RIH W/ BIT, BIT SUB, 1 JOINT 2 7/8" L-80, 2 7/8" X.N, 153 JOINTS 2 7/8" L-80, TAGGED K.P @ 4960'
Start Time	18:00	End Time	19:30	Comment	R.U SWIVEL, PUMP & LINES
Start Time	19:30	End Time	20:00	Comment	SWI, CLEAN UP FOR THE NIGHT
Start Time	20:00	End Time	21:00	Comment	Crew travel
Start Time	21:00	End Time	00:00	Comment	SDFN
Report Start Date	5/28/2014	Report End Date	5/29/2014	24hr Activity Summary Drill out float collar & cement to 7035'.	
Start Time	00:00	End Time	06:00	Comment	SDFN
Start Time	06:00	End Time	07:00	Comment	Crew travel
Start Time	07:00	End Time	07:30	Comment	CSG 0 PSI, TBG 0 PSI, RIG MAINTAINANCE



Summary Rig Activity

Well Name: Hancock 12-21-4-1W

Start Time	07:30	End Time	17:00	Comment
Start Time	17:00	End Time	19:30	Comment
Start Time	19:30	End Time	20:00	Comment
Start Time	20:00	End Time	21:00	Comment
Start Time	21:00	End Time	00:00	Comment
Report Start Date	5/29/2014	Report End Date	5/30/2014	24hr Activity Summary
Start Time	00:00	End Time	06:00	Tag PBTD to check for fill. Round trip tbg. PU rods.
Start Time	06:00	End Time	07:00	Comment
Start Time	07:00	End Time	07:30	Comment
Start Time	07:30	End Time	08:00	Comment
Start Time	08:00	End Time	09:30	Comment
Start Time	09:30	End Time	11:30	Comment
Start Time	11:30	End Time	14:00	Comment
Start Time	14:00	End Time	16:00	Comment
Start Time	16:00	End Time	19:00	Comment
Start Time	19:00	End Time	20:00	Comment
Start Time	20:00	End Time	00:00	Comment
Report Start Date	5/30/2014	Report End Date	5/31/2014	24hr Activity Summary
Start Time	00:00	End Time	05:00	Continue PU rods. PWOP
Start Time	05:00	End Time	06:00	Comment



Summary Rig Activity

Well Name: Hancock 12-21-4-1W

Start Time	06:00	End Time	07:30	Comment
				Safety stand down and Newfield office
Start Time	07:30	End Time	08:00	Comment
				START RIG & EQUIP, CSG 300 PSI, TBG 0 PSI, RIG MAINTAINANCE
Start Time	08:00	End Time	09:00	Comment
				L.D POLISH ROD, P.U & RIH/W/ 70 7/8" 4 PER, 7/8" X 2', 6' 8' PONYs, 30' POLISH ROD
Start Time	09:00	End Time	10:00	Comment
				CLEAN UP AROUND W.H, TBG WAS FULL, S.T PUMP TO 800 PSI, 144 S.L, 5 SPM, PWO @ 10:00
Start Time	10:00	End Time	12:00	Comment
				PREP TO R.D, R.D, PREP RIG TO MOVE, RACK OUT PUMP
Start Time	12:00	End Time	13:00	Comment
				SERVICE RIG & EQUIP
Start Time	13:00	End Time	14:00	Comment
				Crew travel