

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 Emerald Phoenix 15-31-2-1W | | | | | | | |
|--|-----------|-------------------|---|---|----------------|--|----------------------------|-------------------------|-------|-------|--------|----------|--|
| 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 UNDESIGNATED | | | | | | | |
| 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 mcozler@newfield.com | | | | | | | |
| 10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Patented | | | 11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> | | | 12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> | | | | | | | |
| 13. NAME OF SURFACE OWNER (if box 12 = 'fee') Claude L. Mathews, Trustee | | | | | | 14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-722-3062 | | | | | | | |
| 15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') RR 3 Box 3860, Roosevelt, UT 84066 | | | | | | 16. SURFACE OWNER E-MAIL (if box 12 = 'fee') | | | | | | | |
| 17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') | | | 18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/> | | | 19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/> | | | | | | | |
| 20. LOCATION OF WELL | | FOOTAGES | | QTR-QTR | | SECTION | | TOWNSHIP | | RANGE | | MERIDIAN | |
| LOCATION AT SURFACE | | 366 FSL 2039 FEL | | SW/SE | | 31 | | 2.0 S | | 1.0 W | | U | |
| Top of Uppermost Producing Zone | | 366 FSL 2039 FEL | | SW/SE | | 31 | | 2.0 S | | 1.0 W | | U | |
| At Total Depth | | 1270 FSL 2006 FEL | | SW/SE | | 31 | | 2.0 S | | 1.0 W | | U | |
| 21. COUNTY DUCHESNE | | | 22. DISTANCE TO NEAREST LEASE LINE (Feet) 666 | | | 23. NUMBER OF ACRES IN DRILLING UNIT 40 | | | | | | | |
| 27. ELEVATION - GROUND LEVEL 5119 | | | 25. DISTANCE TO NEAREST WELL IN SAME POOL (Approved For Drilling or Completed) 0 | | | 26. PROPOSED DEPTH MD: 11176 TVD: 11100 | | | | | | | |
| | | | 28. BOND NUMBER B001834 | | | 29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 437478 | | | | | | | |
| Hole, Casing, and Cement Information | | | | | | | | | | | | | |
| String | Hole Size | Casing Size | Length | Weight | Grade & Thread | Max Mud Wt. | Cement | | Sacks | Yield | Weight | | |
| COND | 17.5 | 14 | 0 - 60 | 37.0 | H-40 ST&C | 0.0 | Class G | | 35 | 1.17 | 15.8 | | |
| SURF | 12.25 | 9.625 | 0 - 1000 | 36.0 | J-55 LT&C | 0.0 | Premium Lite High Strength | | 51 | 3.53 | 11.0 | | |
| | | | | | | | Class G | | 154 | 1.17 | 15.8 | | |
| I1 | 8.75 | 7 | 0 - 8916 | 26.0 | P-110 LT&C | 11.5 | Premium Lite High Strength | | 299 | 3.53 | 11.0 | | |
| | | | | | | | 50/50 Poz | | 254 | 1.24 | 14.3 | | |
| L1 | 6.125 | 4.5 | 8716 - 11176 | 11.6 | P-110 LT&C | 11.5 | 50/50 Poz | | 208 | 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 Don Hamilton | | | | TITLE Permitting Agent | | | | PHONE 435 719-2018 | | | | | |
| SIGNATURE | | | | DATE 03/08/2012 | | | | EMAIL starpoint@etv.net | | | | | |
| API NUMBER ASSIGNED 43013512900000 | | | | APPROVAL  Permit Manager | | | | | | | | | |

**Newfield Production Company
Emerald Phoenix 15-31-2-1W
SW/SE Section 31, T2S, R1W
Duchesne County, UT**

Drilling Program

| | | |
|--------------------------|---------|---------|
| 1. Formation Tops | TVD | MD |
| Uinta | surface | surface |
| Green River | 4,160' | 4,200' |
| Garden Gulch member | 7,095' | 7,171' |
| Wasatch | 9,395' | 9,471' |
| TD | 11,100' | 11,176' |

| | | |
|---|--------|----------------|
| 2. Depth to Oil, Gas, Water, or Minerals | TVD | |
| Base of moderately saline | 3,019' | (water) |
| Green River | 7,095' | - 9,395' (oil) |
| Wasatch | 9,395' | - TD (oil) |

3. Pressure Control

| | |
|----------------|------------------------|
| <u>Section</u> | <u>BOP Description</u> |
| Surface | 12-1/4" diverter |

Interm/Prod The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system.

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

4. Casing

| Description | Interval (MD) | | Weight (ppf) | Grade | Coup | Pore Press @ Shoe | MW @ Shoe | Frac Grad @ Shoe | Safety Factors | | |
|---------------------|---------------|---------|--------------|-------|------|-------------------|-----------|------------------|----------------|----------|---------|
| | Top | Bottom | | | | | | | Burst | Collapse | Tension |
| Conductor 14 | 0' | 60' | 37 | H-40 | Weld | -- | -- | -- | -- | -- | -- |
| Surface 9 5/8 | 0' | 1,000' | 36 | J-55 | LTC | 8.33 | 8.33 | 12 | 3,520 | 2,020 | 394,000 |
| Intermediate 7 | 0' | 8,916' | 26 | P-110 | LTC | 9 | 9.5 | 15 | 6.27 | 6.35 | 10.94 |
| Production 4 1/2 | 8,716' | 11,176' | 11.6 | P-110 | LTC | 11 | 11.5 | -- | 9,960 | 6,210 | 693,000 |
| | | | | | | | | | 2.37 | 1.77 | 2.99 |
| | | | | | | | | | 10,690 | 7,560 | 279,000 |
| | | | | | | | | | 2.03 | 1.36 | 2.15 |

Assumptions:

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

Intermediate casing MASP = (reservoir pressure) - (gas gradient)

Production casing MASP = (reservoir pressure) - (gas gradient)

All collapse calculations assume fully evacuated casing with a gas gradient

All tension calculations assume air weight of casing

Gas gradient = 0.1 psi/ft

All casing shall be new.

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

5. Cement

| Job | Hole Size | Fill | Slurry Description | ft ³ | OH excess | Weight (ppg) | Yield (ft ³ /sk) |
|-------------------|-----------|--------|---|-----------------|-----------|--------------|-----------------------------|
| | | | | sacks | | | |
| Conductor | 17 1/2 | 60' | Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake | 41 | 15% | 15.8 | 1.17 |
| | | | | 35 | | | |
| Surface Lead | 12 1/4 | 500' | Premium Lite II w/ 3% KCl + 10% bentonite | 180 | 15% | 11.0 | 3.53 |
| | | | | 51 | | | |
| Surface Tail | 12 1/4 | 500' | Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake | 150 | 15% | 15.8 | 1.17 |
| | | | | 154 | | | |
| Intermediate Lead | 8 3/4 | 6,095' | Premium Lite II w/ 3% KCl + 10% bentonite | 1054 | 15% | 11.0 | 3.53 |
| | | | | 299 | | | |
| Intermediate Tail | 8 3/4 | 1,821' | 50/50 Poz/Class G w/ 3% KCl + 2% bentonite | 315 | 15% | 14.3 | 1.24 |
| | | | | 254 | | | |
| Production Tail | 6 1/8 | 2,460' | 50/50 Poz/Class G w/ 3% KCl + 2% bentonite | 258 | 15% | 14.3 | 1.24 |
| | | | | 208 | | | |

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

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

6. Type and Characteristics of Proposed Circulating Medium

Interval

Description

Surface - 1,000'

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

1,000' - TD

A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

Anticipated maximum mud weight is 11.5 ppg.

7. Logging, Coring, and Testing

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

Cores: As deemed necessary.

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

8. Anticipated Abnormal Pressure or Temperature

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

$$11,176' \times 0.57 \text{ psi/ft} = 6393 \text{ psi}$$

No abnormal temperature is expected. No H₂S is expected.

9. Other Aspects

This is planned as a vertical well.

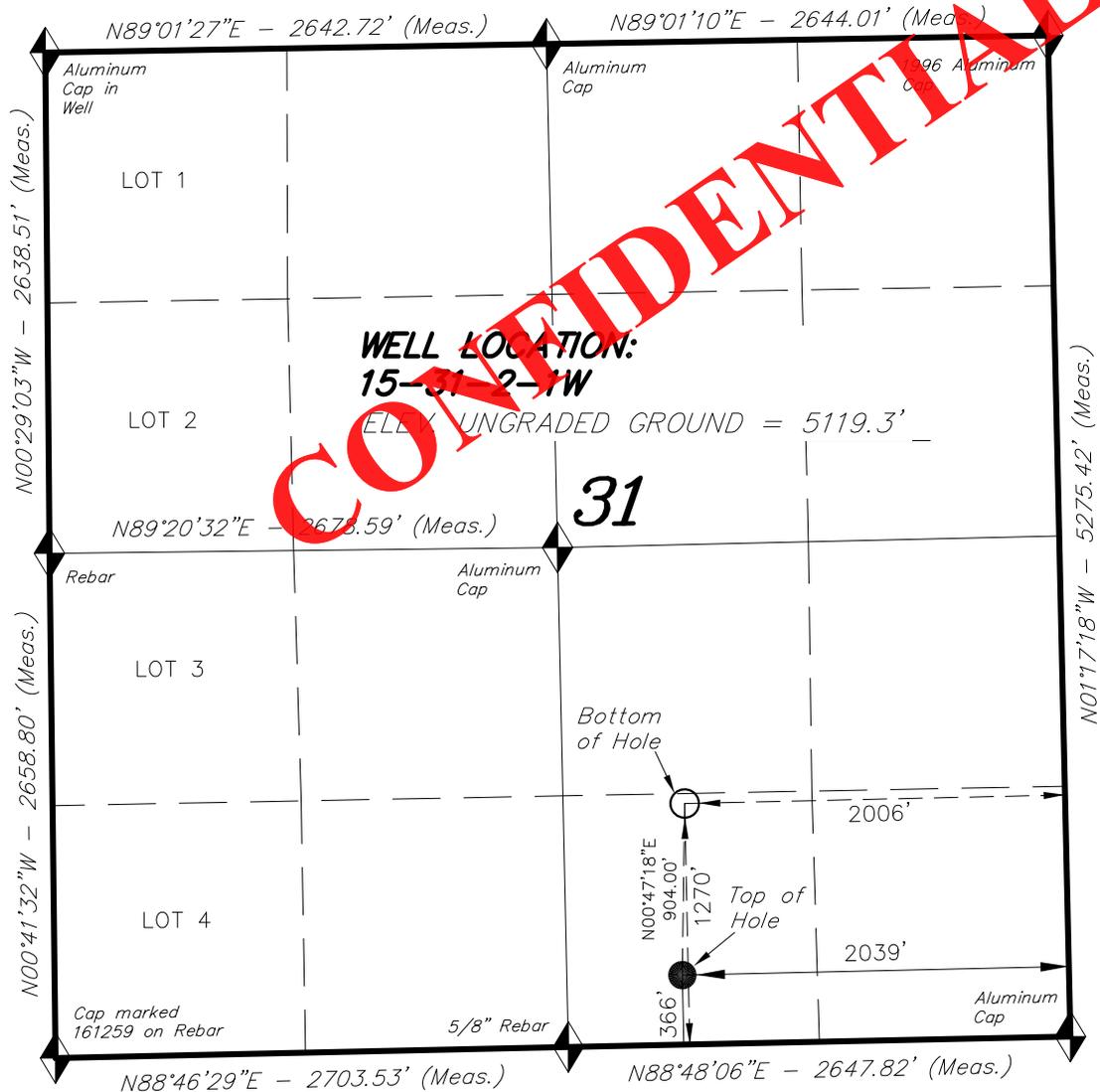
Newfield requests the following variances from Onshore Order #2:

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

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

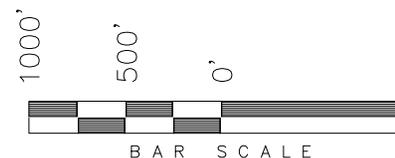
T2S, R1W, U.S.B.&M.

NEWFIELD EXPLORATION COMPANY



WELL LOCATION, 15-31-2-1W, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 31, T2S, R1W, U.S.B.&M. DUCHESNE COUNTY, UTAH.

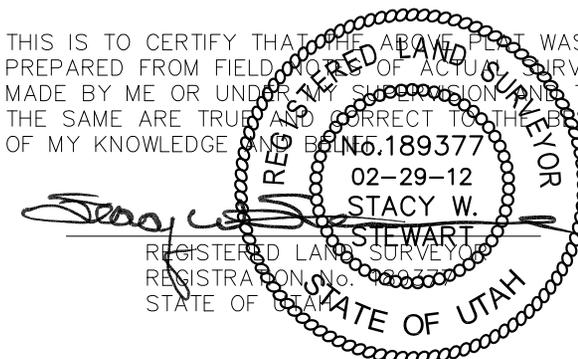
TARGET BOTTOM HOLE, 15-31-2-1W, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 31, T2S, R1W, U.S.B.&M. DUCHESNE COUNTY, UTAH.



NOTES:

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

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



◆ = SECTION CORNERS LOCATED

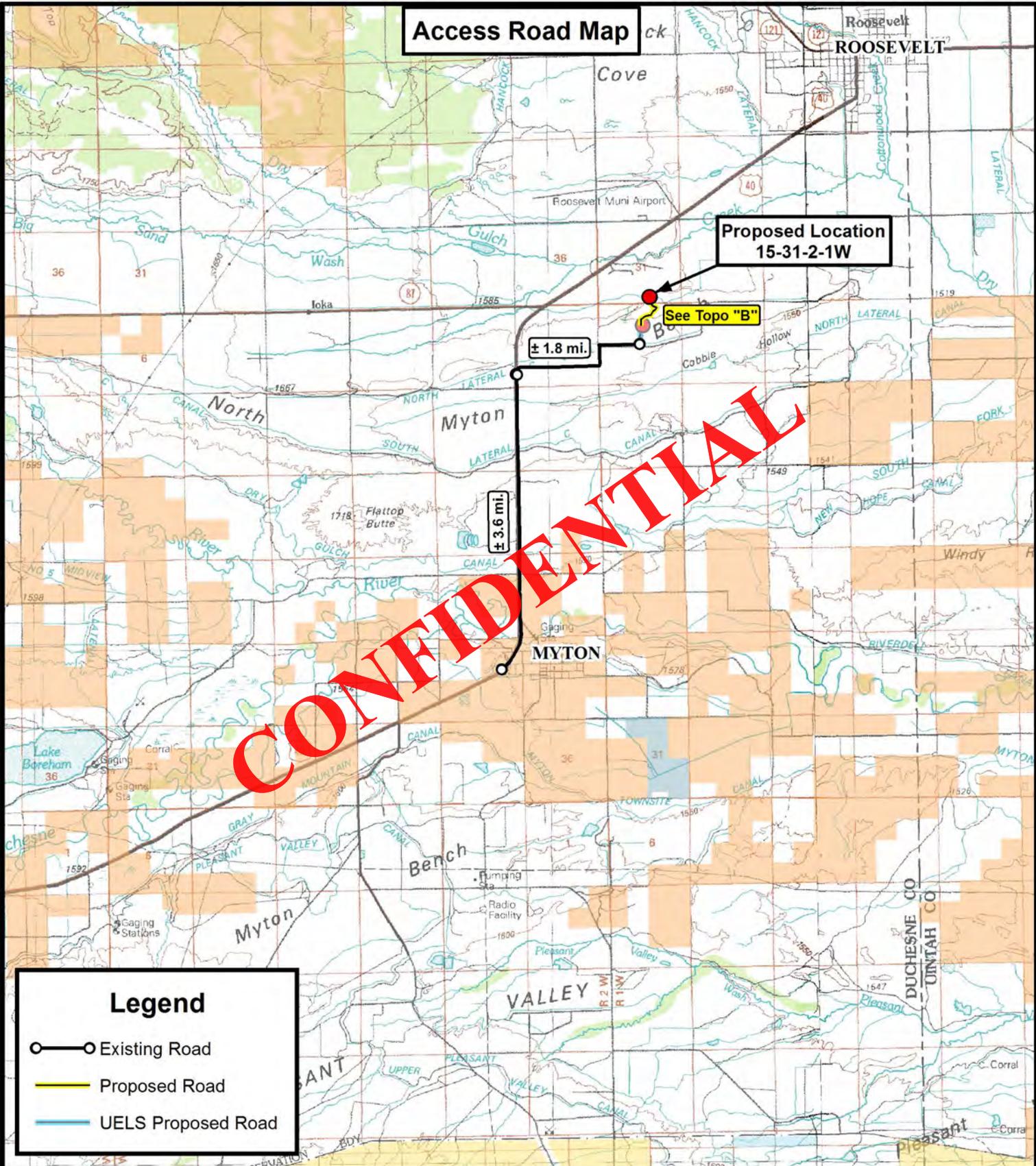
BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

15-31-2-1W
(Surface Location) NAD 83
LATITUDE = 40° 15' 34.59"
LONGITUDE = 110° 02' 12.30"

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

| | | |
|-----------------------------|-------------------|----------|
| DATE SURVEYED: 12-22-11 | SURVEYED BY: D.P. | VERSION: |
| DATE DRAWN: 01-18-12 | DRAWN BY: M.W. | V3 |
| REVISED: 02-29-12 R.B.T. | SCALE: 1" = 1000' | |

Access Road Map



Proposed Location
15-31-2-1W

See Topo "B"

± 1.8 mi.

± 3.6 mi.

Legend

- Existing Road
- Proposed Road
- UELS Proposed Road

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

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



NEWFIELD EXPLORATION COMPANY

15-31-2-1W
SEC. 31, T2S, R1W, U.S.B.&M.
Duchesne County, UT.

| | | | | | |
|-----------|------------|----------|-----------------|-----------|--|
| DRAWN BY: | D.C.R. | REVISED: | 02-29-12 D.C.R. | VERSION: | |
| DATE: | 01-20-2012 | | | V3 | |
| SCALE: | 1:100,000 | | | | |

TOPOGRAPHIC MAP

SHEET
A

Access Road Map

**Proposed Location
15-31-2-1W**

CONFIDENTIAL

MATHEWS
CLAUDE L
TRUSTEE
± 390'

FARMER
FAMILY
PARTNERSHIP
± 159'

MATHEWS
KERRY D
± 2,089'

7-6-3-1W
WHITE
DOUGLAS H
CO TRUSTEE
± 316'

Myton ± 5.4 mi.

Legend

-  Existing Road
-  Proposed Road
-  UELS Proposed Road

| Total Road Distances | |
|----------------------|----------|
| Proposed Road | ± 2,639' |

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



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NEWFIELD EXPLORATION COMPANY

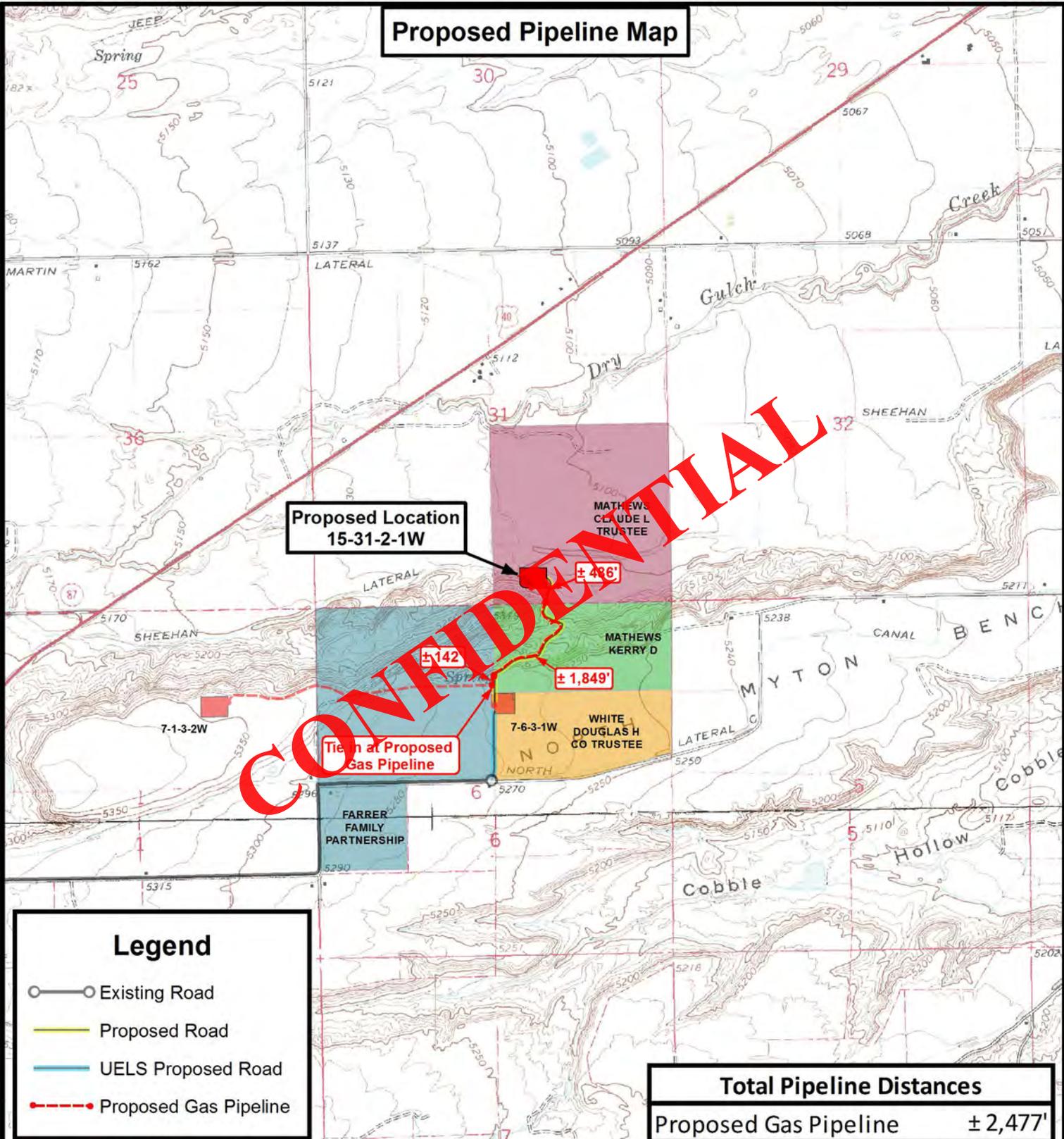
15-31-2-1W
SEC. 31, T2S, R1W, U.S.B.&M.
Duchesne County, UT.

| | | | | | |
|-----------|-------------|----------|-----------------|-----------|--|
| DRAWN BY: | D.C.R. | REVISED: | 02-29-12 D.C.R. | VERSION: | |
| DATE: | 01-04-2012 | | | V3 | |
| SCALE: | 1" = 2,000' | | | | |

TOPOGRAPHIC MAP

SHEET **B**

Proposed Pipeline Map



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Legend

- Existing Road
- Proposed Road
- UELES Proposed Road
- Proposed Gas Pipeline

| Total Pipeline Distances | |
|--------------------------|----------|
| Proposed Gas Pipeline | ± 2,477' |

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NEWFIELD EXPLORATION COMPANY

15-31-2-1W
SEC. 31, T2S, R1W, U.S.B.&M.
Duchesne County, UT.

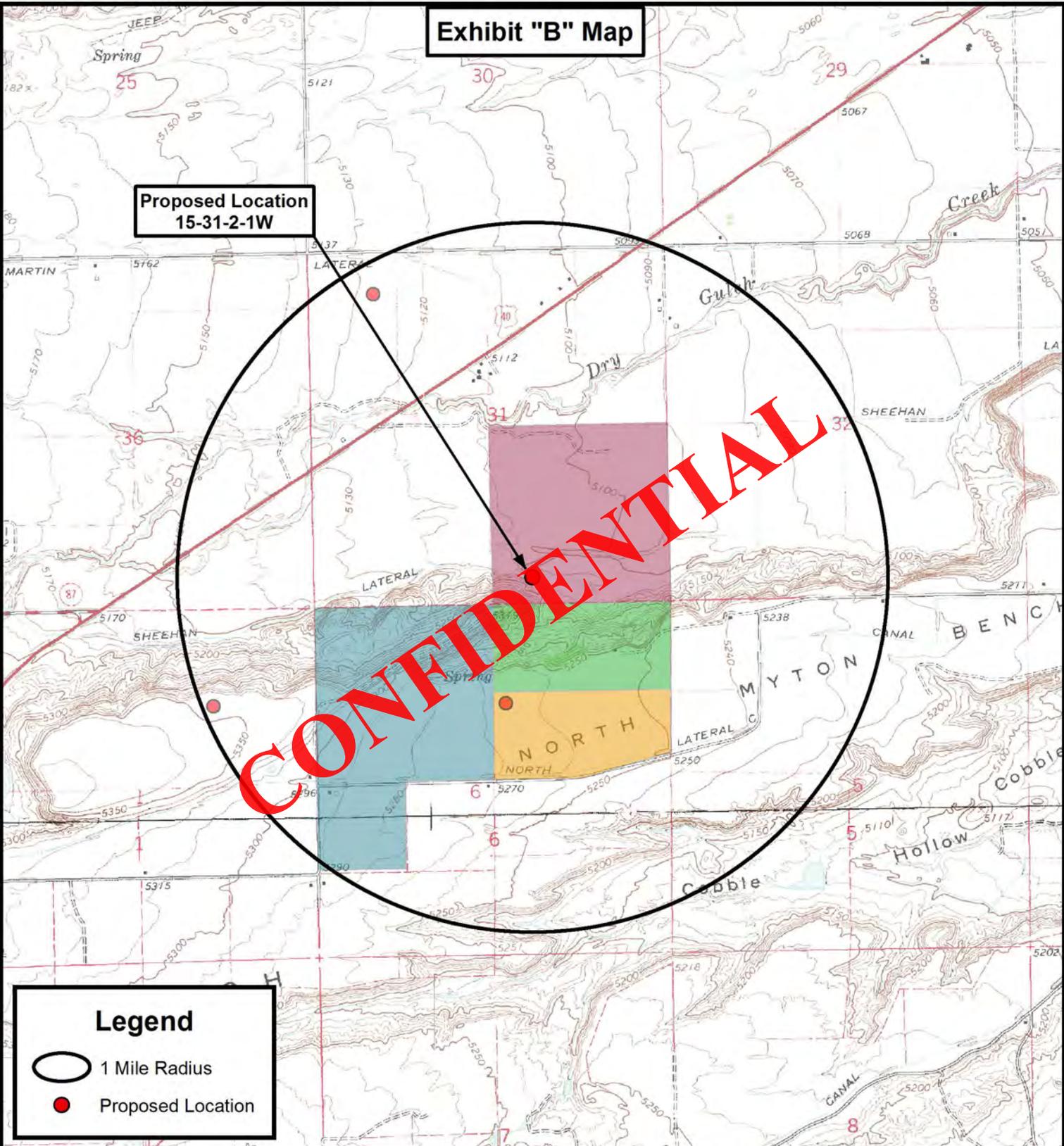
| | | | | | |
|-----------|-------------|----------|-----------------|-----------|--|
| DRAWN BY: | D.C.R. | REVISED: | 02-29-12 D.C.R. | VERSION: | |
| DATE: | 01-04-2012 | | | V3 | |
| SCALE: | 1" = 2,000' | | | | |

TOPOGRAPHIC MAP

SHEET **C**

Exhibit "B" Map

**Proposed Location
15-31-2-1W**



Legend

-  1 Mile Radius
-  Proposed Location

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NEWFIELD EXPLORATION COMPANY

15-31-2-1W
SEC. 31, T2S, R1W, U.S.B.&M.
Duchesne County, UT.

| | | | | | |
|-----------|-------------|----------|-----------------|-----------|--|
| DRAWN BY: | D.C.R. | REVISED: | 02-29-12 D.C.R. | VERSION: | |
| DATE: | 01-20-2012 | | | V3 | |
| SCALE: | 1" = 2,000' | | | | |

TOPOGRAPHIC MAP

SHEET **D**

Newfield Production Company

Utah

Emerald Phoenix 15-31-2-1W

Emerald Phoenix 15-31-2-1W

Wellbore #1

Plan: Design #1

Standard Planning Report

05 March, 2012

CONFIDENTIAL

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------------------|
| Database: | EDM 5000.1 Update | Local Co-ordinate Reference: | Site Emerald Phoenix 15-31-2-1W |
| Company: | Newfield Production Company | TVD Reference: | RKB @ 5137.3ft |
| Project: | Utah | MD Reference: | RKB @ 5137.3ft |
| Site: | Emerald Phoenix 15-31-2-1W | North Reference: | Grid |
| Well: | Emerald Phoenix 15-31-2-1W | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

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

| | | | | | |
|------------------------------|----------------------------|---------------------|----------------|--------------------------|------------------|
| Site | Emerald Phoenix 15-31-2-1W | | | | |
| Site Position: | | Northing: | 2,214,873.09 m | Latitude: | 40° 15' 34.590 N |
| From: | Lat/Long | Easting: | 624,463.35 m | Longitude: | 110° 2' 12.300 W |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | 0.94 ° |

| | | | | | | |
|-----------------------------|----------------------------|--------|----------------------------|----------------|----------------------|------------------|
| Well | Emerald Phoenix 15-31-2-1W | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 2,214,873.09 m | Latitude: | 40° 15' 34.590 N |
| | +E/-W | 0.0 ft | Easting: | 624,463.35 m | Longitude: | 110° 2' 12.300 W |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | | Ground Level: | 5,119.3 ft |

| | | | | | |
|------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination | Dip Angle | Field Strength |
| | IGRF200510 | 3/5/2012 | (°) | (°) | (nT) |
| | | | 11.22 | 65.97 | 52,363 |

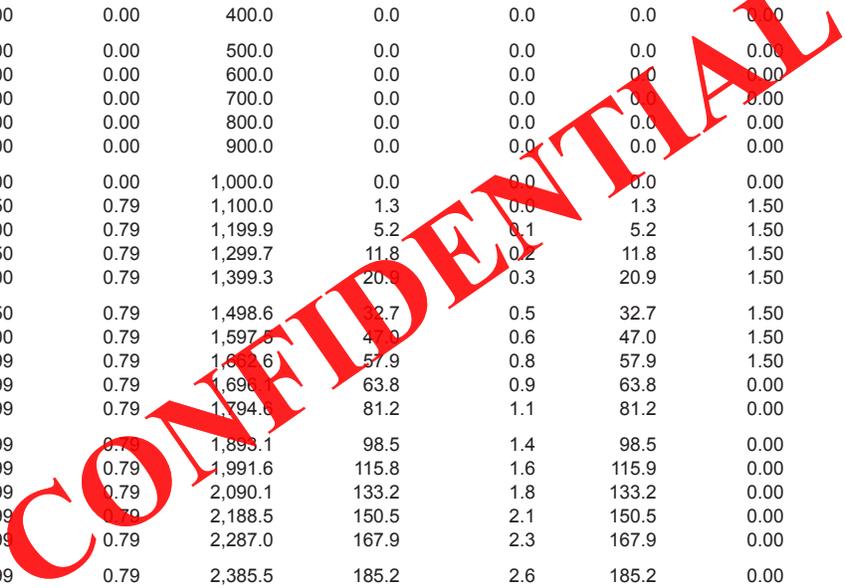
| | | | | |
|--------------------------|-------------------------|--------------|----------------------|------------------|
| Design | Design #1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) | +N/-S | +E/-W | Direction |
| | (ft) | (ft) | (ft) | (°) |
| | 0.0 | 0.0 | 0.0 | 0.79 |

| Plan Sections | | | | | | | | | | |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,666.0 | 9.99 | 0.79 | 1,662.6 | 57.9 | 0.8 | 1.50 | 1.50 | 0.00 | 0.79 | |
| 6,209.7 | 9.99 | 0.79 | 6,137.4 | 846.0 | 11.7 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,875.6 | 0.00 | 0.00 | 6,800.0 | 903.9 | 12.5 | 1.50 | -1.50 | 0.00 | 180.00 | |
| 11,175.6 | 0.00 | 0.00 | 11,100.0 | 903.9 | 12.5 | 0.00 | 0.00 | 0.00 | 0.00 | 15-31-2-1W |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------------------|
| Database: | EDM 5000.1 Update | Local Co-ordinate Reference: | Site Emerald Phoenix 15-31-2-1W |
| Company: | Newfield Production Company | TVD Reference: | RKB @ 5137.3ft |
| Project: | Utah | MD Reference: | RKB @ 5137.3ft |
| Site: | Emerald Phoenix 15-31-2-1W | North Reference: | Grid |
| Well: | Emerald Phoenix 15-31-2-1W | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,100.0 | 1.50 | 0.79 | 1,100.0 | 1.3 | 0.0 | 1.3 | 1.50 | 1.50 | 0.00 |
| 1,200.0 | 3.00 | 0.79 | 1,199.9 | 5.2 | 0.1 | 5.2 | 1.50 | 1.50 | 0.00 |
| 1,300.0 | 4.50 | 0.79 | 1,299.7 | 11.8 | 0.2 | 11.8 | 1.50 | 1.50 | 0.00 |
| 1,400.0 | 6.00 | 0.79 | 1,399.3 | 20.0 | 0.3 | 20.9 | 1.50 | 1.50 | 0.00 |
| 1,500.0 | 7.50 | 0.79 | 1,498.6 | 32.7 | 0.5 | 32.7 | 1.50 | 1.50 | 0.00 |
| 1,600.0 | 9.00 | 0.79 | 1,597.5 | 47.0 | 0.6 | 47.0 | 1.50 | 1.50 | 0.00 |
| 1,666.0 | 9.99 | 0.79 | 1,663.6 | 57.9 | 0.8 | 57.9 | 1.50 | 1.50 | 0.00 |
| 1,700.0 | 9.99 | 0.79 | 1,696.6 | 63.8 | 0.9 | 63.8 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 9.99 | 0.79 | 1,794.6 | 81.2 | 1.1 | 81.2 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 9.99 | 0.79 | 1,893.1 | 98.5 | 1.4 | 98.5 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 9.99 | 0.79 | 1,991.6 | 115.8 | 1.6 | 115.9 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 9.99 | 0.79 | 2,090.1 | 133.2 | 1.8 | 133.2 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 9.99 | 0.79 | 2,188.5 | 150.5 | 2.1 | 150.5 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 9.99 | 0.79 | 2,287.0 | 167.9 | 2.3 | 167.9 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 9.99 | 0.79 | 2,385.5 | 185.2 | 2.6 | 185.2 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 9.99 | 0.79 | 2,484.0 | 202.6 | 2.8 | 202.6 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 9.99 | 0.79 | 2,582.5 | 219.9 | 3.0 | 219.9 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 9.99 | 0.79 | 2,681.0 | 237.3 | 3.3 | 237.3 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 9.99 | 0.79 | 2,779.4 | 254.6 | 3.5 | 254.6 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 9.99 | 0.79 | 2,877.9 | 271.9 | 3.7 | 272.0 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 9.99 | 0.79 | 2,976.4 | 289.3 | 4.0 | 289.3 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 9.99 | 0.79 | 3,074.9 | 306.6 | 4.2 | 306.7 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 9.99 | 0.79 | 3,173.4 | 324.0 | 4.5 | 324.0 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 9.99 | 0.79 | 3,271.9 | 341.3 | 4.7 | 341.4 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 9.99 | 0.79 | 3,370.3 | 358.7 | 4.9 | 358.7 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 9.99 | 0.79 | 3,468.8 | 376.0 | 5.2 | 376.1 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 9.99 | 0.79 | 3,567.3 | 393.4 | 5.4 | 393.4 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 9.99 | 0.79 | 3,665.8 | 410.7 | 5.7 | 410.7 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 9.99 | 0.79 | 3,764.3 | 428.1 | 5.9 | 428.1 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 9.99 | 0.79 | 3,862.8 | 445.4 | 6.1 | 445.4 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 9.99 | 0.79 | 3,961.2 | 462.7 | 6.4 | 462.8 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 9.99 | 0.79 | 4,059.7 | 480.1 | 6.6 | 480.1 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 9.99 | 0.79 | 4,158.2 | 497.4 | 6.9 | 497.5 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 9.99 | 0.79 | 4,256.7 | 514.8 | 7.1 | 514.8 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 9.99 | 0.79 | 4,355.2 | 532.1 | 7.3 | 532.2 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 9.99 | 0.79 | 4,453.7 | 549.5 | 7.6 | 549.5 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 9.99 | 0.79 | 4,552.1 | 566.8 | 7.8 | 566.9 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 9.99 | 0.79 | 4,650.6 | 584.2 | 8.1 | 584.2 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 9.99 | 0.79 | 4,749.1 | 601.5 | 8.3 | 601.6 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 9.99 | 0.79 | 4,847.6 | 618.8 | 8.5 | 618.9 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 9.99 | 0.79 | 4,946.1 | 636.2 | 8.8 | 636.3 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 9.99 | 0.79 | 5,044.6 | 653.5 | 9.0 | 653.6 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 9.99 | 0.79 | 5,143.1 | 670.9 | 9.3 | 670.9 | 0.00 | 0.00 | 0.00 |



Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------------------|
| Database: | EDM 5000.1 Update | Local Co-ordinate Reference: | Site Emerald Phoenix 15-31-2-1W |
| Company: | Newfield Production Company | TVD Reference: | RKB @ 5137.3ft |
| Project: | Utah | MD Reference: | RKB @ 5137.3ft |
| Site: | Emerald Phoenix 15-31-2-1W | North Reference: | Grid |
| Well: | Emerald Phoenix 15-31-2-1W | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| Planned Survey | | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | |
| 5,300.0 | 9.99 | 0.79 | 5,241.5 | 688.2 | 9.5 | 688.3 | 0.00 | 0.00 | 0.00 | |
| 5,400.0 | 9.99 | 0.79 | 5,340.0 | 705.6 | 9.7 | 705.6 | 0.00 | 0.00 | 0.00 | |
| 5,500.0 | 9.99 | 0.79 | 5,438.5 | 722.9 | 10.0 | 723.0 | 0.00 | 0.00 | 0.00 | |
| 5,600.0 | 9.99 | 0.79 | 5,537.0 | 740.3 | 10.2 | 740.3 | 0.00 | 0.00 | 0.00 | |
| 5,700.0 | 9.99 | 0.79 | 5,635.5 | 757.6 | 10.4 | 757.7 | 0.00 | 0.00 | 0.00 | |
| 5,800.0 | 9.99 | 0.79 | 5,734.0 | 775.0 | 10.7 | 775.0 | 0.00 | 0.00 | 0.00 | |
| 5,900.0 | 9.99 | 0.79 | 5,832.4 | 792.3 | 10.9 | 792.4 | 0.00 | 0.00 | 0.00 | |
| 6,000.0 | 9.99 | 0.79 | 5,930.9 | 809.6 | 11.2 | 809.6 | 0.00 | 0.00 | 0.00 | |
| 6,100.0 | 9.99 | 0.79 | 6,029.4 | 827.0 | 11.4 | 827.1 | 0.00 | 0.00 | 0.00 | |
| 6,200.0 | 9.99 | 0.79 | 6,127.9 | 844.3 | 11.6 | 844.4 | 0.00 | 0.00 | 0.00 | |
| 6,209.7 | 9.99 | 0.79 | 6,137.4 | 846.0 | 11.7 | 846.1 | 0.00 | 0.00 | 0.00 | |
| 6,300.0 | 8.63 | 0.79 | 6,226.6 | 860.6 | 11.9 | 860.7 | 1.50 | -1.50 | 0.00 | |
| 6,400.0 | 7.13 | 0.79 | 6,325.6 | 874.3 | 12.1 | 874.4 | 1.50 | -1.50 | 0.00 | |
| 6,500.0 | 5.63 | 0.79 | 6,425.0 | 888.5 | 12.2 | 885.5 | 1.50 | -1.50 | 0.00 | |
| 6,600.0 | 4.13 | 0.79 | 6,524.6 | 894.0 | 12.3 | 894.1 | 1.50 | -1.50 | 0.00 | |
| 6,700.0 | 2.63 | 0.79 | 6,624.4 | 900.9 | 12.4 | 900.0 | 1.50 | -1.50 | 0.00 | |
| 6,800.0 | 1.13 | 0.79 | 6,724.4 | 903.2 | 12.5 | 903.3 | 1.50 | -1.50 | 0.00 | |
| 6,875.6 | 0.00 | 0.00 | 6,800.0 | 903.9 | 12.5 | 904.0 | 1.50 | -1.50 | 0.00 | |
| 6,900.0 | 0.00 | 0.00 | 6,824.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 7,000.0 | 0.00 | 0.00 | 6,924.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 7,100.0 | 0.00 | 0.00 | 7,024.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 7,200.0 | 0.00 | 0.00 | 7,124.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 7,300.0 | 0.00 | 0.00 | 7,224.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 7,400.0 | 0.00 | 0.00 | 7,324.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 7,500.0 | 0.00 | 0.00 | 7,424.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 7,600.0 | 0.00 | 0.00 | 7,524.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 7,700.0 | 0.00 | 0.00 | 7,624.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 7,800.0 | 0.00 | 0.00 | 7,724.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 7,900.0 | 0.00 | 0.00 | 7,824.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 8,000.0 | 0.00 | 0.00 | 7,924.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 8,100.0 | 0.00 | 0.00 | 8,024.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 8,200.0 | 0.00 | 0.00 | 8,124.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 8,300.0 | 0.00 | 0.00 | 8,224.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 8,400.0 | 0.00 | 0.00 | 8,324.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 8,500.0 | 0.00 | 0.00 | 8,424.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 8,600.0 | 0.00 | 0.00 | 8,524.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 8,700.0 | 0.00 | 0.00 | 8,624.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 8,800.0 | 0.00 | 0.00 | 8,724.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 8,900.0 | 0.00 | 0.00 | 8,824.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 9,000.0 | 0.00 | 0.00 | 8,924.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 9,100.0 | 0.00 | 0.00 | 9,024.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 9,200.0 | 0.00 | 0.00 | 9,124.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 9,300.0 | 0.00 | 0.00 | 9,224.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 9,400.0 | 0.00 | 0.00 | 9,324.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 9,500.0 | 0.00 | 0.00 | 9,424.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 9,600.0 | 0.00 | 0.00 | 9,524.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 9,700.0 | 0.00 | 0.00 | 9,624.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 9,800.0 | 0.00 | 0.00 | 9,724.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 9,900.0 | 0.00 | 0.00 | 9,824.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 10,000.0 | 0.00 | 0.00 | 9,924.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 10,100.0 | 0.00 | 0.00 | 10,024.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 10,200.0 | 0.00 | 0.00 | 10,124.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 10,300.0 | 0.00 | 0.00 | 10,224.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |
| 10,400.0 | 0.00 | 0.00 | 10,324.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 | |

CONFIDENTIAL

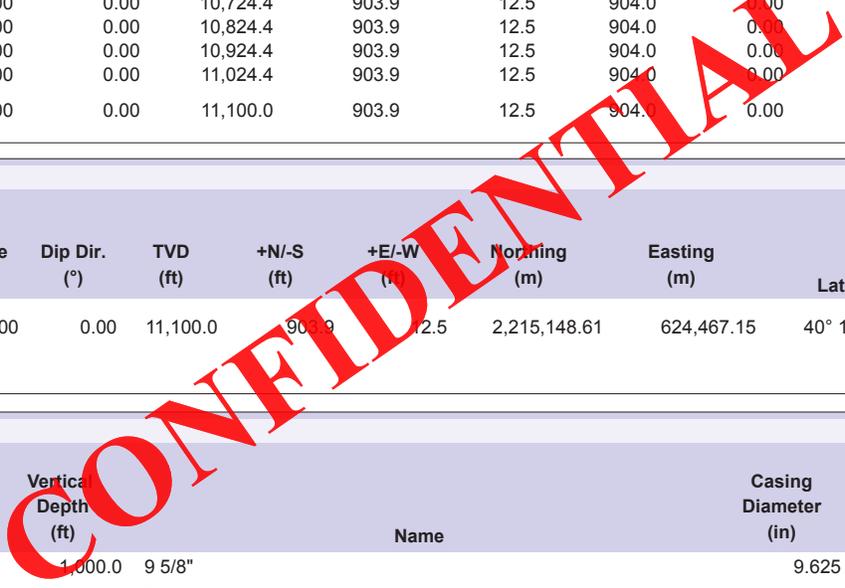
Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------------------|
| Database: | EDM 5000.1 Update | Local Co-ordinate Reference: | Site Emerald Phoenix 15-31-2-1W |
| Company: | Newfield Production Company | TVD Reference: | RKB @ 5137.3ft |
| Project: | Utah | MD Reference: | RKB @ 5137.3ft |
| Site: | Emerald Phoenix 15-31-2-1W | North Reference: | Grid |
| Well: | Emerald Phoenix 15-31-2-1W | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 10,500.0 | 0.00 | 0.00 | 10,424.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 0.00 | 0.00 | 10,524.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 0.00 | 0.00 | 10,624.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 0.00 | 0.00 | 10,724.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 0.00 | 0.00 | 10,824.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 0.00 | 0.00 | 10,924.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 0.00 | 0.00 | 11,024.4 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 |
| 11,175.6 | 0.00 | 0.00 | 11,100.0 | 903.9 | 12.5 | 904.0 | 0.00 | 0.00 | 0.00 |

| Design Targets | | | | | | | | | |
|---|---------------|--------------|----------|------------|------------|--------------|-------------|------------------|------------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Norming (m) | Easting (m) | Latitude | Longitude |
| 15-31-2-1W - hit/miss target - Shape - Point | 0.00 | 0.00 | 11,100.0 | 903.9 | 12.5 | 2,215,148.61 | 624,467.15 | 40° 15' 43.520 N | 110° 2' 11.948 W |

| Casing Points | | | | | |
|---------------------|---------------------|--------|----------------------|--------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (in) | Hole Diameter (in) | |
| 1,000.0 | 1,000.0 | 9 5/8" | 9.625 | 12.250 | |
| 8,915.6 | 8,840.0 | 7" | 7.000 | 8.750 | |



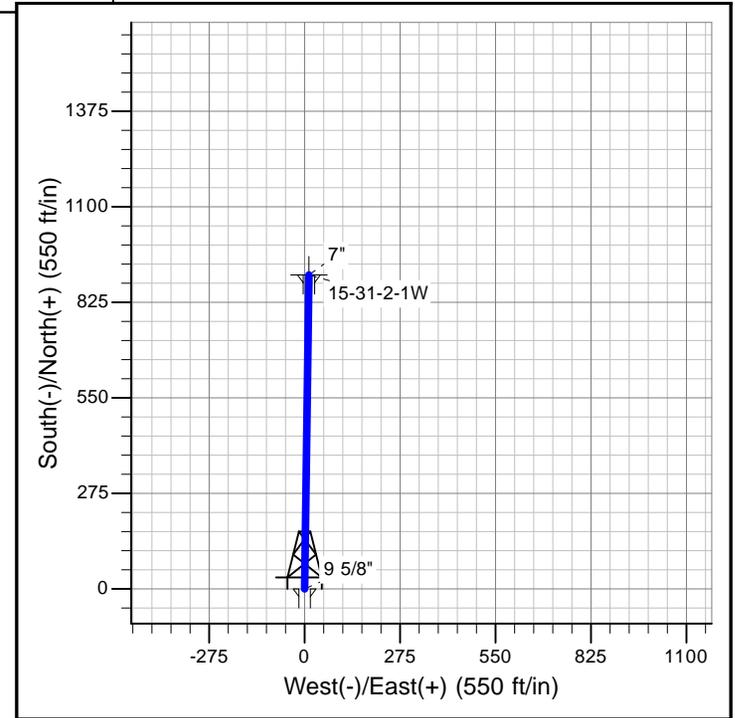
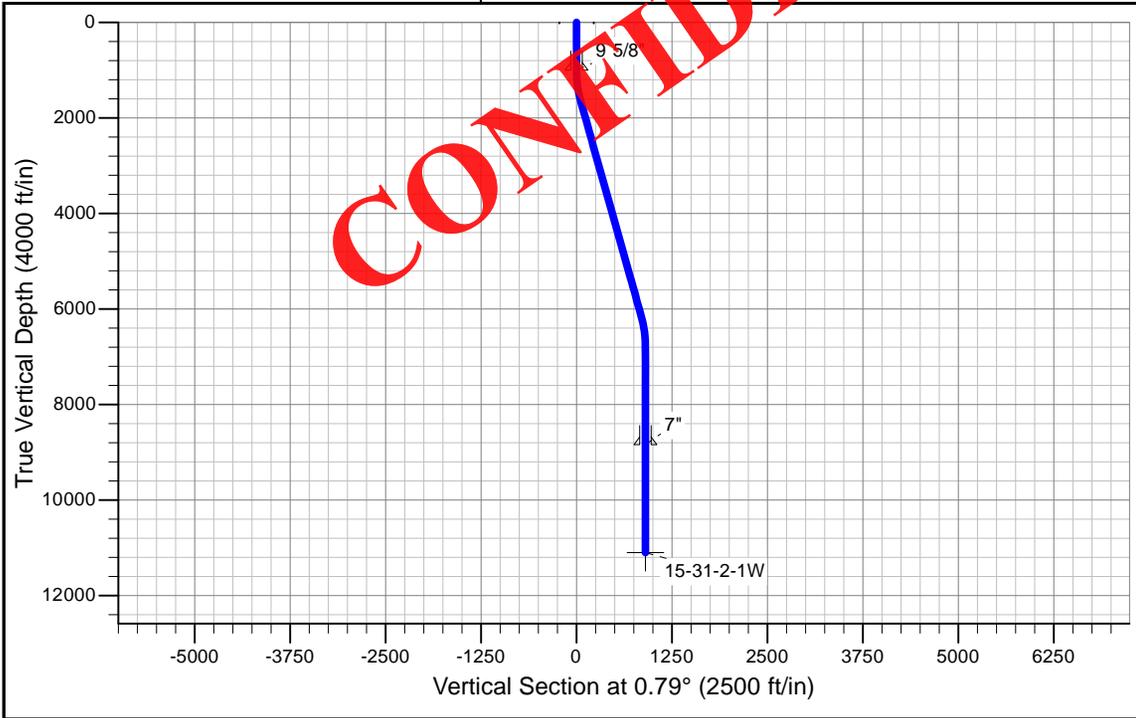


Newfield Production Company

Project: Utah
Site: Emerald Phoenix 15-31-2-1W
Well: Emerald Phoenix 15-31-2-1W
Wellbore: Wellbore #1
Design: Design #1

Azimuths to Grid North
 True North: -0.94°
 Magnetic North: 10.28°

Magnetic Field
 Strength: 52362.9snT
 Dip Angle: 65.97°
 Date: 3/5/2012
 Model: IGRF200510



SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Target |
|-----|---------|------|------|---------|-------|-------|------|--------|-------|------------|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 1000.0 | 0.00 | 0.00 | 1000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 1666.0 | 9.99 | 0.79 | 1662.6 | 57.9 | 0.8 | 1.50 | 0.79 | 57.9 | |
| 4 | 6209.7 | 9.99 | 0.79 | 6137.4 | 846.0 | 11.7 | 0.00 | 0.00 | 846.1 | |
| 5 | 6875.6 | 0.00 | 0.00 | 6800.0 | 903.9 | 12.5 | 1.50 | 180.00 | 904.0 | |
| 6 | 11175.6 | 0.00 | 0.00 | 11100.0 | 903.9 | 12.5 | 0.00 | 0.00 | 904.0 | 15-31-2-1W |

PROJECT DETAILS: Utah

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

System Datum: Mean Sea Level

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

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

1. My name is Roxann Eveland. 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 Emerald Phoenix 15-31-2-1W, to be located in the SWSE of Section 31, Township 2 South, Range 1 West, Duchesne County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is Claude L. Mathews, Trustee of the Claude L. Mathews Trust, whose address is RR 3 Box 3860, Roosevelt, UT 84066, and Anna Lee T. Mathews, Trustee of the Anna Lee T. Mathews Trust, whose address is RR 3 Box 3860, Roosevelt, UT 84066 ("Surface Owner").
3. Newfield and the Surface Owner have agreed upon an Easement, Right-of-Way and Surface Use Agreement dated February 2, 2012 covering the Drillsite Location and access to the Drillsite Location.

FURTHER AFFIANT SAYETH NOT.

CONFIDENTIAL

Roxann Eveland

ACKNOWLEDGEMENT

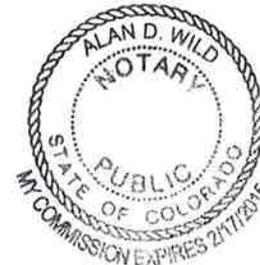
STATE OF COLORADO §
 §
COUNTY OF DENVER §

Before me, a Notary Public, in and for the State, on this 29th day of February, 2012, personally appeared Roxann Eveland, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that she executed the same as her own free and voluntary act and deed for the uses and purposes therein set forth.

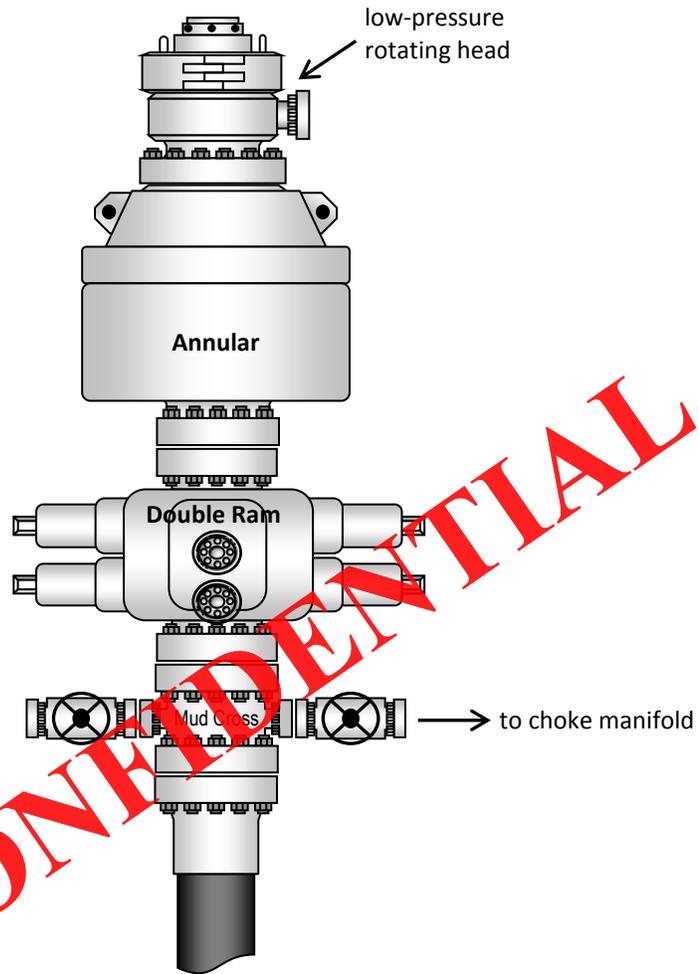
[Signature]

NOTARY PUBLIC

My Commission Expires:

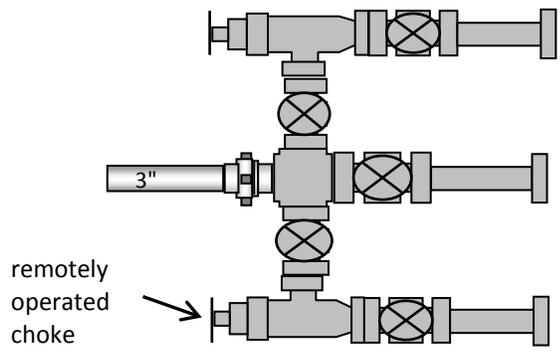


Typical 5M BOP stack configuration



CONFIDENTIAL

Typical 5M choke manifold configuration





February 29, 2012

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

RE: **Emerald Phoenix 15-31-2-1W**
Township 2 South, Range 1 West
Section 31: SWSE
Duchesne County, Utah

Dear Ms. Mason;

Attached herewith is Newfield Production Company's ("Newfield") Application for Permit to Drill the Emerald Phoenix 15-31-2-1W. This proposed location falls within the lands covered by Cause No. 139-42, an order that provides for 640 acre spacing units with setbacks of 660' from the exterior boundary of the unit. Newfield's preferred location within this section is the NWSE. However; to place a location within the NWSE would have negatively impacted the current agricultural use of the land. At the request of the surface owner, Newfield agreed to drill the well in the SWSE and directionally drill to comply with the 660' setback.

Pursuant to R649-3-11, no well may be intentionally deviated unless the operator shall first file application and obtain approval from the division. Newfield owns 75% of the leasehold within 460' of the entire directional wellbore. Newfield respectfully requests the Division waive the requirement to obtain written consent from all owners within 460' of the entire directional wellbore based upon the following:

1. Newfield has moved the location of the well from its preferred location to accommodate the surface owner and to reduce any negative impacts to the current surface use.
2. Newfield has chosen to drill directionally to adhere to the 660' setbacks from the exterior unit boundary as required by Cause No. 139-42. Due to topography and the existence of power lines, Newfield could not place a well location in the SWSE that would adhere to the aforementioned 660' setbacks.
3. Newfield will not produce from the subject wellbore until the directional wellbore is at least 660' from the exterior boundary of the unit.
4. Leasehold ownership is common throughout the entire southwest quarter of 2S 1W Section 31.
5. Newfield will pool all of Section 31, Township 2 South, Range 1 West so that ownership in the Emerald Phoenix 15-31-2-1W would be the same regardless of where the well is located within the section.

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

Sincerely,

Roxann Eveland

Roxann Eveland
Landman

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NEWFIELD EXPLORATION COMPANY

Existing Powerline

WELL PAD INTERFERENCE PLAT

15-31-2-1W (Proposed Well)

Pad Location: SWSE section 31, T2S, R1W, U.S.B.&M.



Existing Trench

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TOP HOLE FOOTAGES

15-31-2-1W (PROPOSED)
366' FSL & 2039' FEL

BOTTOM HOLE FOOTAGES

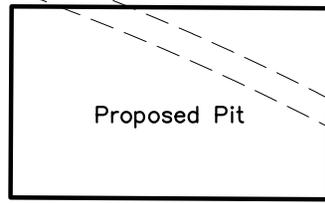
15-31-2-1W (PROPOSED)
1270' FSL & 2006' FEL

15-31-2-1W (PROPOSED)

N00°47'18"E - 904.00'
(To Bottom Hole)

S89°39'18"E

Edge of Proposed Pad



Existing 2-Track Road

Proposed Access

Note:

Bearings are based on GPS Observations.

RELATIVE COORDINATES
From Top Hole to Bottom Hole

| WELL | NORTH | EAST |
|------------|-------|------|
| 15-31-2-1W | 904' | 12' |

LATITUDE & LONGITUDE
Surface position of Wells (NAD 83)

| WELL | LATITUDE | LONGITUDE |
|------------|----------------|-----------------|
| 15-31-2-1W | 40° 15' 34.59" | 110° 02' 12.30" |

| | | |
|-------------------|--------------------------|----------|
| SURVEYED BY: D.P. | DATE SURVEYED: 12-22-11 | VERSION: |
| DRAWN BY: M.W. | DATE DRAWN: 01-18-12 | V3 |
| SCALE: 1" = 60' | REVISED: R.B.T. 02-29-12 | |

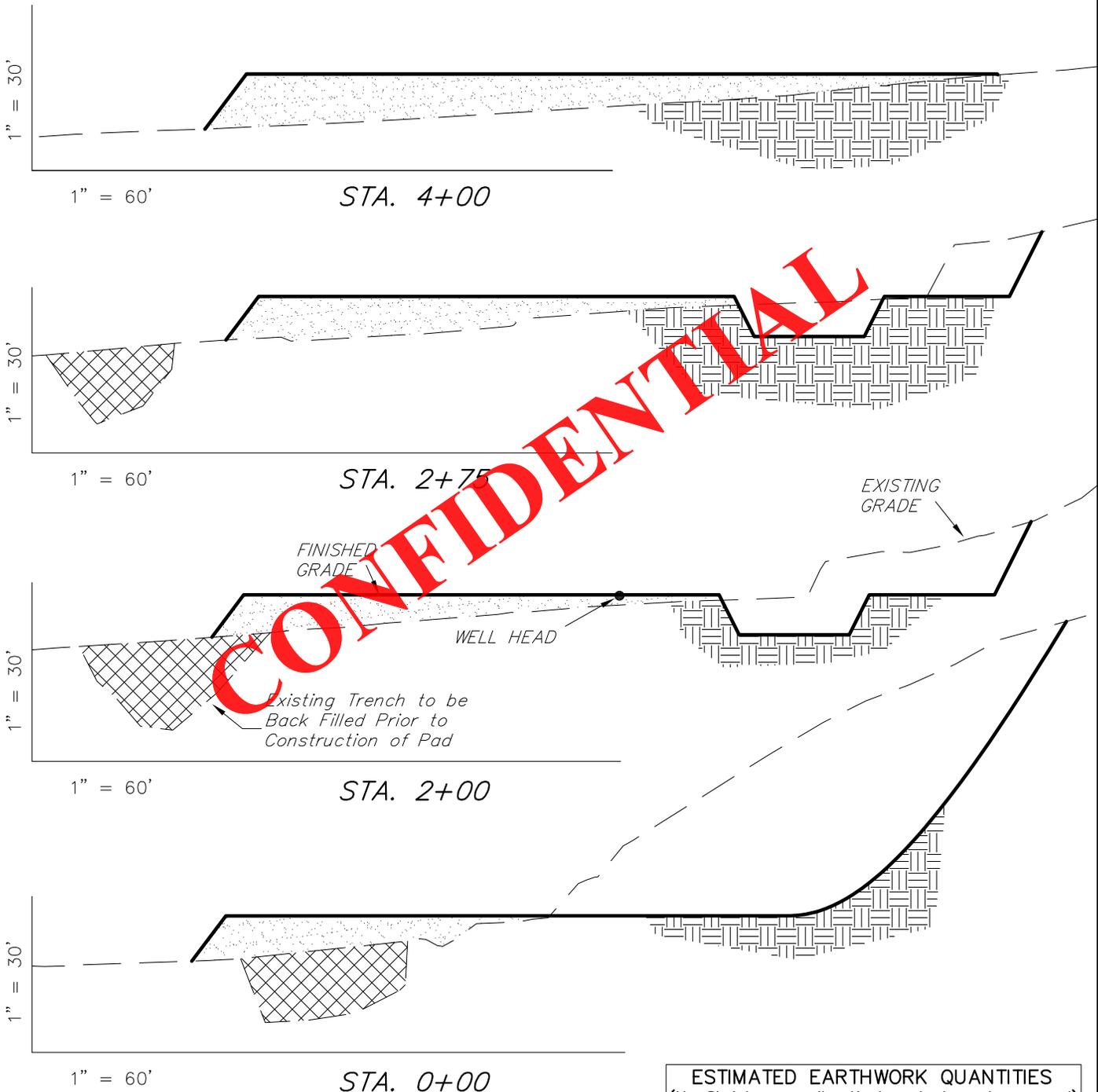
Tri State (435) 781-2501
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS

15-31-2-1W

Pad Location: SWSE Section 31, T2S, R1W, U.S.B.&M.



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

| ITEM | CUT | FILL | 6" TOPSOIL | EXCESS |
|---------------|---------------|---------------|---|--------------|
| PAD | 29,550 | 18,590 | Topsoil is not included in Pad Cut Volume | 10,960 |
| TRENCH | 0 | 11,000 | | -11,000 |
| PIT | 1,420 | 0 | | 1,420 |
| TOTALS | 30,970 | 29,590 | 2,580 | 1,380 |

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

| | | |
|-------------------|--------------------------|-------------|
| SURVEYED BY: D.P. | DATE SURVEYED: 12-22-11 | VERSION: V3 |
| DRAWN BY: F.T.M. | DATE DRAWN: 01-18-12 | |
| SCALE: 1" = 60' | REVISED: R.B.T. 02-29-12 | |

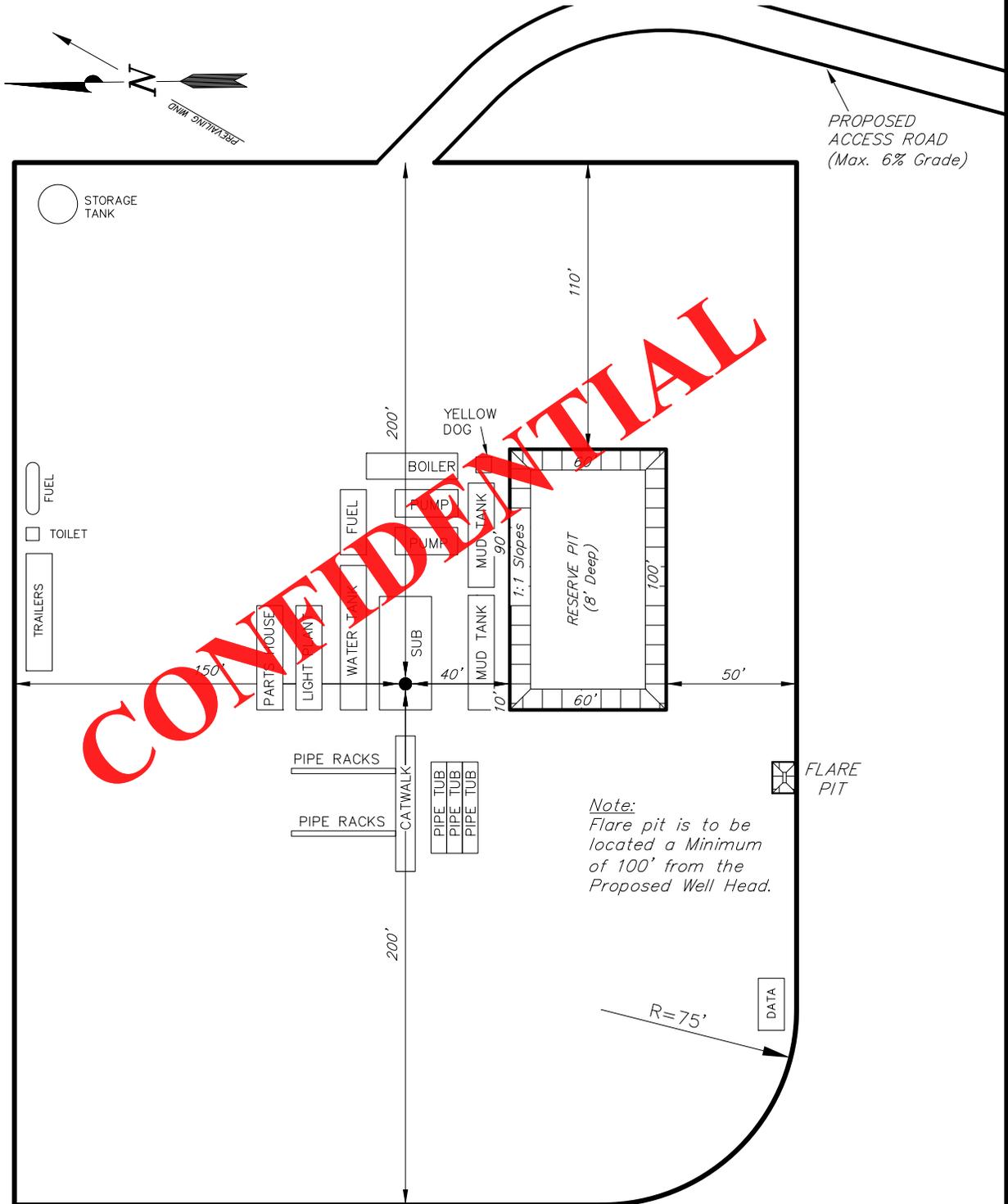
Tri State (435) 781-2501
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT

15-31-2-1W

Pad Location: SWSE Section 31, T2S, R1W, U.S.B.&M.



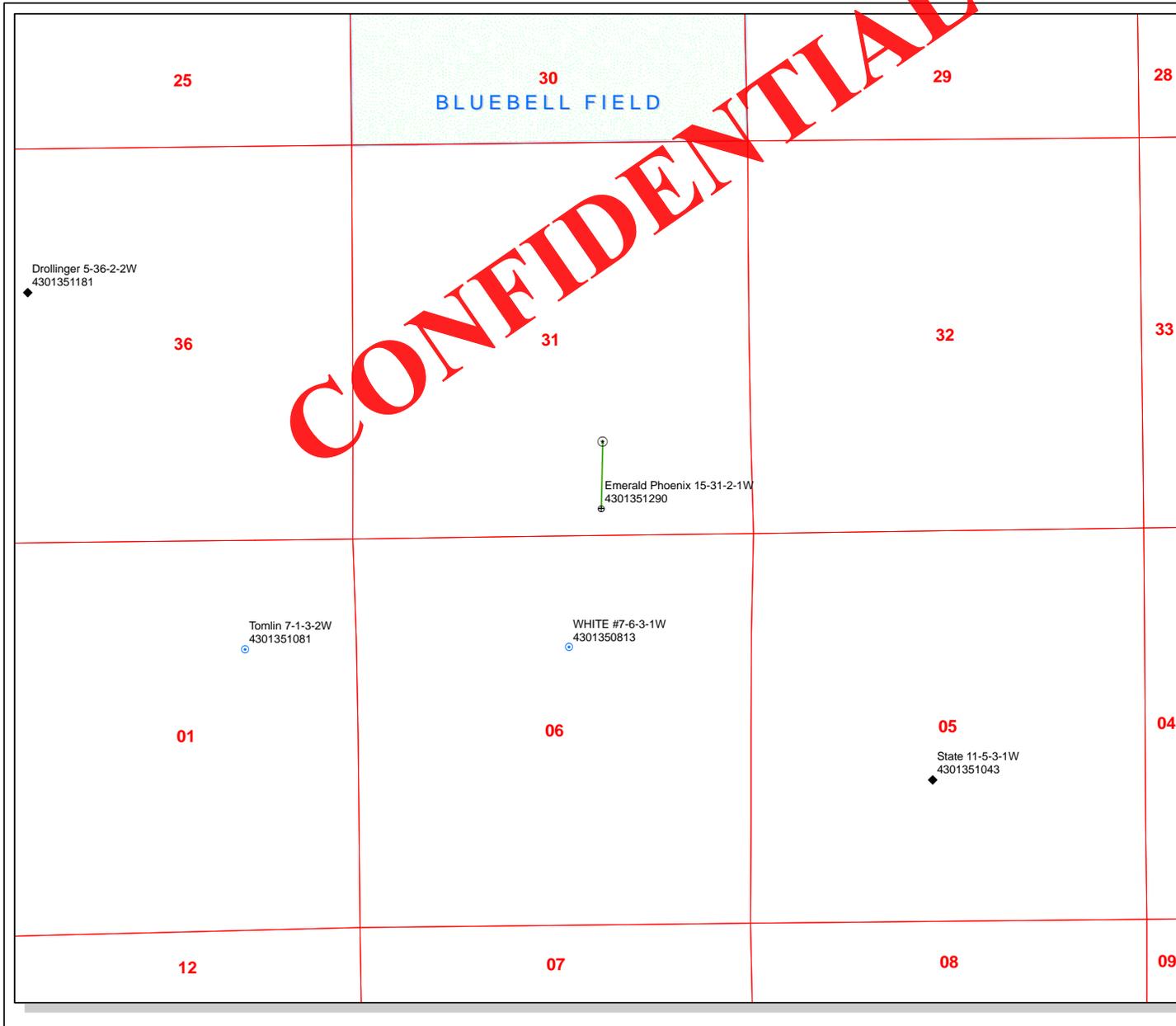
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Note:
Flare pit is to be located a Minimum of 100' from the Proposed Well Head.

Existing Powerline

X
Existing Stackyard

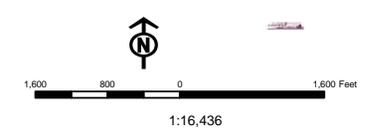
| | | | | |
|-------------------|--------------------------|----------|----|--|
| SURVEYED BY: D.P. | DATE SURVEYED: 12-22-11 | VERSION: | V3 | Tri State Land Surveying, Inc. 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 (435) 781-2501 |
| DRAWN BY: F.T.M. | DATE DRAWN: 01-18-12 | | | |
| SCALE: 1" = 60' | REVISED: R.B.T. 02-29-12 | | | |



API Number: 4301351290
Well Name: Emerald Phoenix 15-31-2-1W
Township T0.2 . Range R0.1 . Section 31
Meridian: UBM
 Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
 Map Produced by Diana Mason

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



| | | | | |
|--|--|-------|-------|-------|
| Well Name | NEWFIELD PRODUCTION COMPANY Emerald Phoenix 15-31-2-1W 4 | | | |
| String | COND | SURF | I1 | L1 |
| Casing Size(") | 14.000 | 9.625 | 7.000 | 4.500 |
| Setting Depth (TVD) | 60 | 1000 | 8916 | 11176 |
| Previous Shoe Setting Depth (TVD) | 0 | 60 | 1000 | 8916 |
| Max Mud Weight (ppg) | 8.3 | 8.3 | 11.5 | 11.5 |
| BOPE Proposed (psi) | 0 | 500 | 5000 | 5000 |
| Casing Internal Yield (psi) | 1000 | 3520 | 9950 | 10690 |
| Operators Max Anticipated Pressure (psi) | 6393 | | | 11.0 |

| | | | |
|---|--|--------|---|
| Calculations | COND String | 14.000 | " |
| Max BHP (psi) | .052*Setting Depth*MW= | 26 | |
| | | | BOPE Adequate For Drilling And Setting Casing at Depth? |
| MASP (Gas) (psi) | Max BHP-(0.12*Setting Depth)= | 19 | NO |
| MASP (Gas/Mud) (psi) | Max BHP-(0.22*Setting Depth)= | 13 | NO |
| | | | *Can Full Expected Pressure Be Held At Previous Shoe? |
| Pressure At Previous Shoe | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 13 | NO |
| Required Casing/BOPE Test Pressure= | | 60 | psi |
| *Max Pressure Allowed @ Previous Casing Shoe= | | 0 | psi *Assumes 1psi/ft frac gradient |

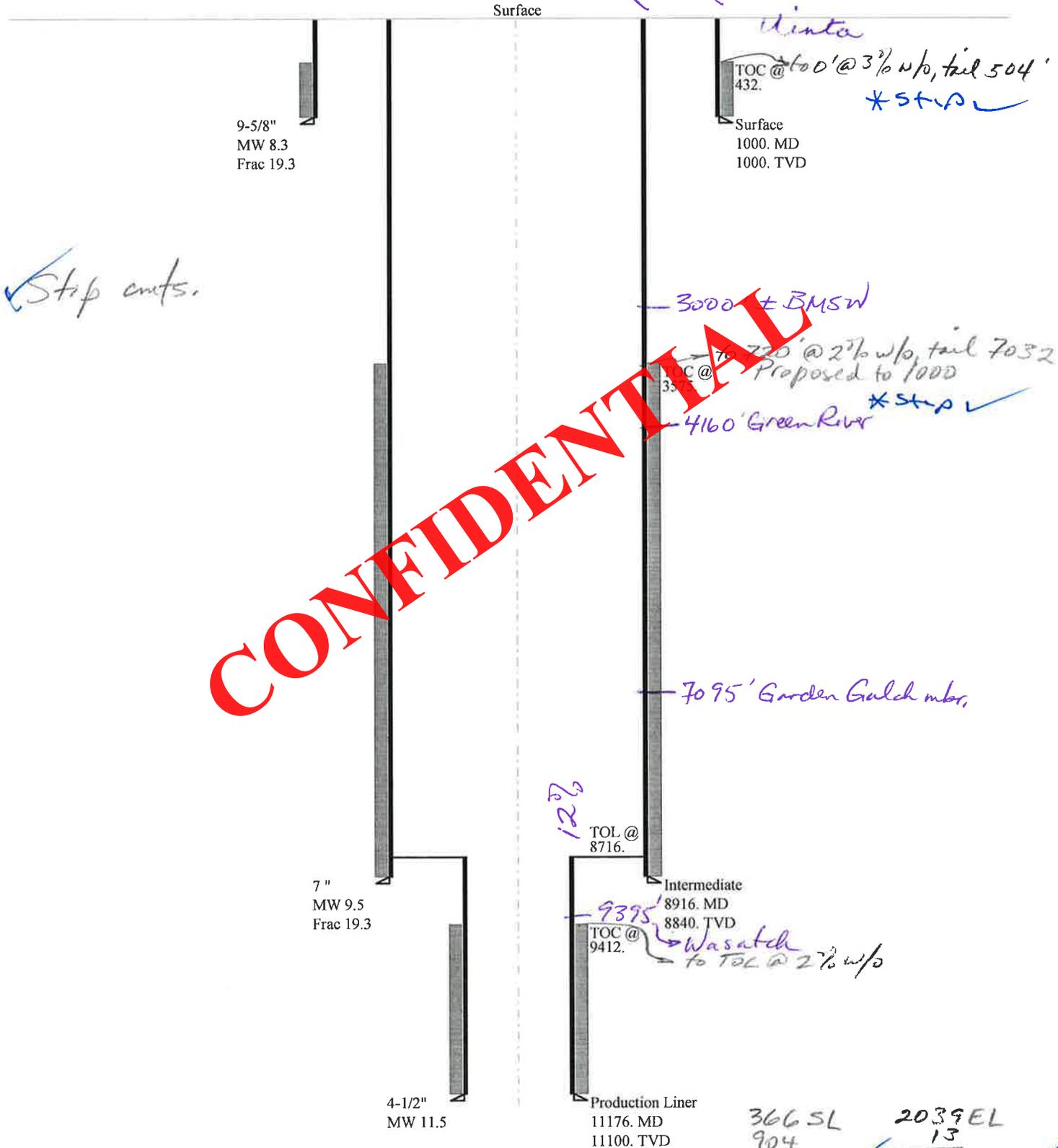
| | | | |
|---|--|-------|---|
| Calculations | SURF String | 9.625 | " |
| Max BHP (psi) | .052*Setting Depth*MW= | 43 | |
| | | | BOPE Adequate For Drilling And Setting Casing at Depth? |
| MASP (Gas) (psi) | Max BHP-(0.12*Setting Depth)= | 312 | YES air drill/diverter |
| MASP (Gas/Mud) (psi) | Max BHP-(0.22*Setting Depth)= | 212 | YES OK |
| | | | *Can Full Expected Pressure Be Held At Previous Shoe? |
| Pressure At Previous Shoe | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 225 | NO OK |
| Required Casing/BOPE Test Pressure= | | 1000 | psi |
| *Max Pressure Allowed @ Previous Casing Shoe= | | 60 | psi *Assumes 1psi/ft frac gradient |

| | | | |
|---|--|-------|---|
| Calculations | I1 String | 7.000 | " |
| Max BHP (psi) | .052*Setting Depth*MW= | 5332 | |
| | | | BOPE Adequate For Drilling And Setting Casing at Depth? |
| MASP (Gas) (psi) | Max BHP-(0.12*Setting Depth)= | 4262 | YES |
| MASP (Gas/Mud) (psi) | Max BHP-(0.22*Setting Depth)= | 3370 | YES OK |
| | | | *Can Full Expected Pressure Be Held At Previous Shoe? |
| Pressure At Previous Shoe | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 3590 | NO Reasonable |
| Required Casing/BOPE Test Pressure= | | 5000 | psi |
| *Max Pressure Allowed @ Previous Casing Shoe= | | 1000 | psi *Assumes 1psi/ft frac gradient |

| | | | |
|---|--|-------|---|
| Calculations | L1 String | 4.500 | " |
| Max BHP (psi) | .052*Setting Depth*MW= | 6683 | |
| | | | BOPE Adequate For Drilling And Setting Casing at Depth? |
| MASP (Gas) (psi) | Max BHP-(0.12*Setting Depth)= | 5342 | NO |
| MASP (Gas/Mud) (psi) | Max BHP-(0.22*Setting Depth)= | 4224 | YES OK |
| | | | *Can Full Expected Pressure Be Held At Previous Shoe? |
| Pressure At Previous Shoe | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 6186 | YES |
| Required Casing/BOPE Test Pressure= | | 5000 | psi |
| *Max Pressure Allowed @ Previous Casing Shoe= | | 8916 | psi *Assumes 1psi/ft frac gradient |

43013512900000 Emerald Phoenix 15-31-2-1W

Casing Schematic



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✓ Stop cuts.

366 SL 2039 EL
904 13
1270 FSL 2052 FEL OK
SW SE Sec 31-28-1W

| | | | |
|--------------|--|-------------|--------------|
| Well name: | 43013512900000 Emerald Phoenix 15-31-2-1W | | |
| Operator: | NEWFIELD PRODUCTION COMPANY | | |
| String type: | Surface | Project ID: | 43-013-51290 |
| Location: | DUCHESNE COUNTY | | |

Design parameters:

Collapse

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

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 88 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: 432 ft

Burst

Max anticipated surface pressure: 880 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 1,000 psi
 No backup mud specified.

Tension:

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

Tension is based on air weight.
 Neutral point 877 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 8,840 ft
 Next mud weight: 9.500 ppg
 Next setting BHP: 4,363 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 1,000 ft
 Injection pressure: 1,000 psi

| Run Seq | Segment Length (ft) | Size (in) | Nominal Weight (lbs/ft) | Grade | End Finish | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in) | Est. Cost (\$) |
|---------|---------------------|-------------------------|-------------------------|------------------|----------------------|----------------------|---------------------|-------------------------|-----------------------|
| 1 | 1000 | 9.625 | 36.00 | J-55 | LT&C | 1000 | 1000 | 8.796 | 8177 |
| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor | Tension Load (kips) | Tension Strength (kips) | Tension Design Factor |
| 1 | 433 | 2020 | 4.669 | 1000 | 3520 | 3.52 | 36 | 453 | 12.58 J |

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

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

Date: April 11, 2012
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1000 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

| | | | |
|--------------|--|-------------|--------------|
| Well name: | 43013512900000 Emerald Phoenix 15-31-2-1W | | |
| Operator: | NEWFIELD PRODUCTION COMPANY | | |
| String type: | Intermediate | Project ID: | 43-013-51290 |
| Location: | DUCHESNE COUNTY | | |

Design parameters:

Collapse

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

Burst

Max anticipated surface pressure: 4,189 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP: 6,134 psi

 No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

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

Tension is based on air weight.
 Neutral point: 7,649 ft

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 198 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

 Cement top: 3,575 ft

Directional Info - Build & Hold

Kick-off point: 1000 ft
 Departure at shoe: 904 ft
 Maximum dogleg: 1.5 °/100ft
 Inclination at shoe: 0 °

Re subsequent strings:

Next setting depth: 11,100 ft
 Next mud weight: 11.500 ppg
 Next setting BHP: 6,631 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 8,840 ft
 Injection pressure: 8,840 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 | 8916 | 7 | 26.00 | P-110 | LT&C | 8840 | 8916 | 6.151 | 92682 |
| 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 | 4363 | 6230 | 1.428 | 6134 | 9950 | 1.62 | 229.8 | 693 | 3.02 J |

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

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

Date: April 11, 2012
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8840 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

| | | | |
|--------------|--|-------------|--------------|
| Well name: | 43013512900000 Emerald Phoenix 15-31-2-1W | | |
| Operator: | NEWFIELD PRODUCTION COMPANY | | |
| String type: | Production Liner | Project ID: | 43-013-51290 |
| Location: | DUCHESNE COUNTY | | |

Design parameters:

Collapse

Mud weight: 11.500 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 229 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

Burst

Max anticipated surface pressure: 4,189 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 6,631 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: 10,750 ft

Cement top: 9,412 ft

Liner top: 8,716 ft

Directional well information:

Kick-off point: 1000 ft
 Departure at shoe: 904 ft
 Maximum dogleg: 0 °/100ft
 Inclination at shoe: 0 °

| Run Seq | Segment Length (ft) | Size (in) | Nominal Weight (lbs/ft) | Grade | End Finish | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in) | Est. Cost (\$) |
|---------|---------------------|-------------------------|-------------------------|------------------|----------------------|----------------------|---------------------|-------------------------|-----------------------|
| 1 | 2476 | 4.5 | 11.60 | P-110 | LT&C | 11100 | 11176 | 3.875 | 11929 |
| 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 | 6631 | 7580 | 1.143 | 6631 | 10690 | 1.61 | 28.7 | 279 | 9.71 J |

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

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

Date: April 11, 2012
 Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 11100 ft, a mud weight of 11.5 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator NEWFIELD PRODUCTION COMPANY
Well Name Emerald Phoenix 15-31-2-1W
API Number 43013512900000 **APD No** 5446 **Field/Unit** UNDESIGNATED
Location: 1/4,1/4SWSE **Sec** 31 **Tw** 2.0S **Rng** 1.0W 366 FSL 2039 FEL
GPS Coord (UTM) 581911 4457017 **Surface Owner** Claude L. Mathews, Trustee

Participants

T. Eaton, F. Bird, Z. Mc Intyre, J.Pippy. – Newfield; C. Jensen, – DOGM; Claude Matthews - landowner

Regional/Local Setting & Topography

The proposed location is situated on fallow farm ground approximately 3 miles west of the Roosevelt just below the North Myton Bench North of Cobble Hollow not far off of Hwy 40. The topography is quite flat and has sandy soils that are somewhat sodic. Nearby benches have slopes that are quite steep suggesting this may be the bottom of a floodplain terrace. This location is sited very near the Sheehan lateral and Dry Gulch creek. Very much of the surrounding lands are used for Industrial Buildings, some farming and have seen some development for petroleum extraction.

Surface Use Plan

Current Surface Use
Agricultural

| New Road Miles | Well Pad Width 300 Length 400 | Src Const Material | Surface Formation |
|-------------------|-------------------------------------|--------------------|-------------------|
| 0.5 | | Onsite | UNTA |

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Fallow farm ground over ran with weed species.
Disturbed soils are not habitat for wildlife but priarie dof colony mounds are present on site

Soil Type and Characteristics

sandy loams

Erosion Issues N

Sedimentation Issues N

Site Stability Issues Y

pad to be built over existing abandoned wash with trees and standing water. 50 feet of hillside to be removed for pad.

Drainage Diversion Required? N

diversion may be necessary to protect slopes

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) | 25 to 75 | 15 | |
| Distance to Surface Water (feet) | 100 to 200 | 15 | |
| Dist. Nearest Municipal Well (ft) | | 20 | |
| Distance to Other Wells (feet) | > 1320 | 0 | |
| Native Soil Type | Mod permeability | 10 | |
| Fluid Type | Fresh Water | 5 | |
| Drill Cuttings | Normal Rock | 0 | |
| Annual Precipitation (inches) | 10 to 20 | 5 | |
| Affected Populations | 10 to 30 | 10 to 30 | |
| Presence Nearby Utility Conduits | Present | 15 | |
| | Final Score | 91 | 1 Sensitivity Level |

Characteristics / Requirements

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

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

Other Observations / Comments

Chris Jensen
Evaluator

3/14/2012
Date / Time

Application for Permit to Drill Statement of Basis

Utah Division of Oil, Gas and Mining

4/11/2012

| APD No | API WellNo | Status | Well Type | Surf Owner | CBM |
|------------------|--|--------|------------------------------|-------------------------------|-----|
| 5446 | 43013512900000 | LOCKED | OW | P | No |
| Operator | NEWFIELD PRODUCTION COMPANY | | Surface Owner-APD | Claude L. Mathews, Trustee | |
| Well Name | Emerald Phoenix 15-31-2-1W | | Unit | | |
| Field | UNDESIGNATED | | Type of Work | DRILL | |
| Location | SWSE 31 2S 1W U 366 FSL 2039 FEL GPS Coord (UTM) 581921E 4457016N | | | | |

Geologic Statement of Basis

Newfield proposes to set 60' of conductor and 1,000' of surface casing at this location. The base of the moderately saline water at this location is estimated to be at a depth of 3,000'. A search of Division of Water Rights records shows 24 water wells within a 10,000 foot radius of the center of Section 31. Three wells are located within 1/2 mile of the proposed location. Depth is listed as 32, 42 and 400 feet. Depth for all wells is listed as ranging from 22 to 800 feet. Water use is listed as irrigation, stock watering, industrial and domestic use. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Shallow water in this area may also be produced from near-surface alluvium. Intermediate casing cement should be brought up to or above the base of the moderately saline ground water in order to isolate it from fresher waters uphole.

Brad Hill
APD Evaluator

4/2/2012
Date / Time

Surface Statement of Basis

Operator has a surface agreement in place with the landowner. I was made aware that some concessions were made to the landowner concerning pad placement and access road brought in from the south.. Location is proposed to be moved west and into the hillside for approximately 50 feet. This location has been chosen so as to keep disturbance away from productive land and in a "corner" of plot. 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 except for a possibility of erosion to the disturbed hillside. Construction standards of the Operator appear to be adequate for the proposed purpose. I recognize no special flora or animal species or cultural resources on site that the proposed action may harm. The landowner was invited and was in attendance for the pre-site inspection with comments noted above. The location should be bermed to prevent spills from leaving the confines of the pad. Fencing around the reserve pit will be necessary once the well is drilled to prevent wildlife and livestock from entering. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit. Location has within the confines of the pad an abandoned wash that currently holds standing water, trees and other wetland flora. A COA has been placed with compaction standards and an invitation for construction observation by division staff.

Chris Jensen
Onsite Evaluator

3/14/2012
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 reserve pit shall be fenced upon completion of drilling operations. |
| Surface | Drainages adjacent to the proposed pad shall be diverted around the location. |
| Surface | Compaction of fill dirt in abandoned wash to be done according to accepted construction practices. Specifically with the fill to be placed and compacted in lifts. Division personnel to be notified in advance of construction activities |
| Surface | The well site shall be bermed to prevent fluids from leaving the pad. |

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WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 3/8/2012

API NO. ASSIGNED: 43013512900000

WELL NAME: Emerald Phoenix 15-31-2-1W

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 719-2018

CONTACT: Don Hamilton

PROPOSED LOCATION: SWSE 31 020S 010W

Permit Tech Review:

SURFACE: 0366 FSL 2039 FEL

Engineering Review:

BOTTOM: 1270 FSL 2006 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.25960

LONGITUDE: -110.03663

UTM SURF EASTINGS: 581921.00

NORTHINGS: 4457016.00

FIELD NAME: UNDESIGNATED

LEASE TYPE: 4 - Fee

LEASE NUMBER: Patented

PROPOSED PRODUCING FORMATION(S): GREEN RIVER-WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingle Approved

LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 139-42
- Effective Date: 4/12/1985
- Siting: 660' Fr Ext U Bdry & 1320' Fr Other Wells
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill
 10 - Cement Ground Water - ddoucet
 15 - Directional - 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: Emerald Phoenix 15-31-2-1W
API Well Number: 43013512900000
Lease Number: Patented
Surface Owner: FEE (PRIVATE)
Approval Date: 4/11/2012

Issued to:

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-42. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

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

General:

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

Conditions of Approval:

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

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

The 5 ½” casing string cement shall be brought back to ±1000’ minimum as indicated in the submitted drilling plan in order to isolate base of moderately saline ground water.

Surface casing shall be cemented to the surface.

Additional Approvals:

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

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

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

Notification Requirements:

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

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

Contact Information:

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

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

Reporting Requirements:

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

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

Approved By:

Approved by:

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

For John Rogers
Associate Director, Oil & Gas

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 31 Submitted By
Branden Arnold Phone Number 435-401-0223
Well Name/Number Emerald Phoenix 15-31-2-1W
Qtr/Qtr SW/SE Section 31 Township 2S Range 1W
Lease Serial Number Patented
API Number 43-013-51290

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

Date/Time 4/17/12 9:00 AM PM

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

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

Date/Time 4/17/12 3:00 AM PM

BOPE

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

RECEIVED

APR 17 2012

DIV. OF OIL, GAS & MINING

Date/Time _____ AM PM

Remarks _____



~~CONFIDENTIAL~~

BLM - Vernal Field Office Notification Form

Operator Newfield Exploration Rig Name/# Ross 31 Submitted By
Branden Arnold Phone Number 435-401-0223
Well Name/Number Emerald Phoenix 15-31-2-1W
Qtr/Qtr SW/SE Section 31 Township 2S Range 1W
Lease Serial Number Patented
API Number 43-013-51290

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

Date/Time 4/17/12 9:00 AM PM

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

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

Date/Time 4/17/12 3:00 AM PM

BOPE

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

Date/Time _____ AM PM

Remarks _____

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

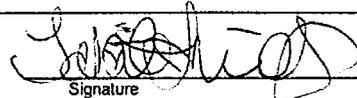
OPERATOR: **NEWFIELD PRODUCTION COMPANY**
 ADDRESS: **RT. 3 BOX 3630**
MYTON, UT 84052

OPERATOR ACCT. NO. **N2695**

| ACTION CODE | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER | WELL NAME | WELL LOCATION | | | | | SPUD DATE | EFFECTIVE DATE |
|---------------------------------------|--------------------|----------------|-------------------|-----------------------------------|---------------|-----------|-----------|-----------|-----------------|------------------|----------------|
| | | | | | QQ | SC | TP | RG | COUNTY | | |
| A | 99999 | 19512 | 4301351290 | EMERALD PHOENIX 15-31-2-1W | SWSE | 31 | 2S | 1W | DUCHESNE | 4/18/2012 | 4/30/12 |
| WELL 1 COMMENTS: GR-WS swse | | | | | | | | | | | |
| CONFIDENTIAL | | | | | | | | | | | |
| | | | | | | | | | | | |
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ACTION CODES (See instructions on back of form)
 A - 1 new entity for new well (single well only)
 B - / well to existing entity (group or unit well)
 C - from one existing entity to another existing entity
 D - well from one existing entity to a new entity
 E - ther (explain in comments section)

RECEIVED
APR 25 2012
 Div. of Oil, Gas & Mining


 Signature
Tabitha Timothy
 Production Clerk
04/25/12

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

Carol Daniels - 7" Casing Notice

Newfield Prod Co 43-013-51290

TD 7 R 01 W 5-31

From: "Pioneer 69" <den_pio69@nfxrig.com>
To: <dennisingram@utah.gov>, <danjarvis@utah.gov>, <sstevens@newfield.com>, ...
Date: 5/17/2012 10:37 AM
Subject: 7" Casing Notice
Attachments: TD 7 Casing Notice Emerald Phoenix 15-31-2-1W.doc

To All,

This Is 8 3/4' Hole T.D. Time And Proposed Time Of Running 7" Casing, Any Questions Please Feel Free to Call....We Will Update As Needed,

Thanks,

Aaron Pollard
Petroleum Consultant
Pioneer Rig "69"
435-828-6092

RECEIVED

MAY 18 2012

DIV. OF OIL, GAS & MINING

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pioneer 69 Submitted
By Brett Strong Phone Number 435-828-6092
Well Name/Number E^merald Phoenix 15-31-2-1W
Qtr/Qtr SW/NE Section 31 Township 2S Range 1W
Lease Serial Number FEE
API Number 43013512900000

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

Date/Time 5/22/12 03:40 AM PM

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

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

Date/Time 5/23/12 06:00 AM PM

RECEIVED

MAY 22 2012

DIV. OF OIL, GAS

CONFIDENTIAL

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. TYPE OF WELL: OIL WELL [X] GAS WELL [] OTHER []
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 0366 FSL 2039 FEL COUNTY: DUCHESNE
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWSE, 31, T2S, R1W STATE: UT

5. LEASE DESIGNATION AND SERIAL NUMBER: Emerald phoenix 15-31-2-1W
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: UINTA CB - WASATCH DEEP
8. WELL NAME and NUMBER: EMERALD PHNX 15-31-2-1W
9. API NUMBER: 4301351290
10. FIELD AND POOL, OR WILDCAT: UINTA CENTRAL BASIN

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

Table with 2 main columns: TYPE OF SUBMISSION and TYPE OF ACTION. Includes checkboxes for NOTICE OF INTENT, SUBSEQUENT REPORT, ACIDIZE, ALTER CASING, CASING REPAIR, CHANGE TO PREVIOUS PLANS, CHANGE TUBING, CHANGE WELL NAME, CHANGE WELL STATUS, COMMINGLE PRODUCING FORMATIONS, CONVERT WELL TYPE, DEEPEN, FRACTURE TREAT, NEW CONSTRUCTION, OPERATOR CHANGE, PLUG AND ABANDON, PLUG BACK, PRODUCTION (START/STOP), RECLAMATION OF WELL SITE, RECOMPLETE - DIFFERENT FORMATION, REPERFORATE CURRENT FORMATION, SIDETRACK TO REPAIR WELL, TEMPORARITLY ABANDON, TUBING REPAIR, VENT OR FLAIR, WATER DISPOSAL, WATER SHUT-OFF, OTHER: - Spud Notice.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
On 4/18/12 MIRU Ross #26. Spud well @9:00 AM. Drill 1080' of 12 1/4" hole with air mist. TIH W/ 24 Jt's 9 5/8" J-55 36# csgn. Set @ 1069.92. On 4/19/12 cement with 500 sks of class "G" w/ 2% CaCL2 + 0.25#/sk Cello- Flake Mixed @ 15.8ppg w/ 1.17ft3/sk yield. Returned 10 barrels cement to pit. WOC.

NAME (PLEASE PRINT) Branden Arnold TITLE
SIGNATURE [Signature] DATE 05/15/2012

(This space for State use only)

RECEIVED
MAY 24 2012
DIV. OF OIL, GAS & MINING

Casing / Liner Detail

CONFIDENTIAL

Well Emerald Phoenix 15-31-2-1W
Prospect Central Basin
Foreman
Run Date:
String Type Surface, 9.625", 36#, K-55, LTC (Generic)

- Detail From Top To Bottom -

| Depth | Length | JTS | Description | OD | ID |
|----------|---------|-----|--------------|-------|----|
| 1,070.50 | 1.42 | 1 | Wellhead | | |
| 1,071.92 | -2.00 | | Cutt Off | 9.625 | |
| 18.00 | 1001.20 | 23 | 9 5/8 Casing | 9.625 | |
| 1,019.20 | 1.10 | 1 | Float | 9.625 | |
| 1,020.30 | 41.20 | 1 | Shoe Jiont | 9.625 | |
| 1,061.50 | 9.00 | 1 | Guide Shoe | 9.625 | |
| 1,069.92 | | | KB | | |

Cement Detail

| Cement Company: BJ | | | | | |
|---------------------------|------------|--------------|-------|---------------------------|--|
| Slurry | # of Sacks | Weight (ppg) | Yield | Volume (ft ³) | Description - Slurry Class and Additives |
| Slurry 1 | 500 | 15.8 | 1.17 | 585 | Class G+2%kcl+.25#CF |

| | |
|---------------------------------|-------|
| Tab-In-Job? | No |
| HT: | 0 |
| Initial Circulation Pressure: | |
| Initial Circulation Rate: | |
| Final Circulation Pressure: | |
| Final Circulation Rate: | |
| Displacement Fluid: | Water |
| Displacement Rate: | |
| Displacement Volume: | 77.3 |
| Fluid Returns: | |
| Centralizer Type And Placement: | |

| | |
|-------------------------------|-------|
| Cement To Surface? | Yes |
| Est. Top of Cement: | 0 |
| Plugs Bumped? | Yes |
| Pressure Plugs Bumped: | 1050 |
| Floats Holding? | No |
| Casing Stuck On / Off Bottom? | No |
| Casing Reciprocated? | No |
| Casing Rotated? | No |
| CIP: | 16:42 |
| Casing Wt Prior To Cement: | |
| Casing Weight Set On Slips: | |

middle of first, top of second and every other for a total of five.



| | |
|--|--|
| 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: Patented |
| 1. TYPE OF WELL Oil Well | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| 2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY | 7. UNIT or CA AGREEMENT NAME: |
| 3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052 | 8. WELL NAME and NUMBER: EMERALD PHOENIX 15-31-2-1W |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 0366 FSL 2039 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 31 Township: 02.0S Range: 01.0W Meridian: U | 9. API NUMBER: 43013512900000 |
| 5. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052 | 9. FIELD and POOL or WILDCAT: UNDESIGNATED |
| 6. PHONE NUMBER: 435 646-4825 Ext | COUNTY: DUCHESNE |
| 7. STATE: UTAH | 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: 7/3/2012 | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> NEW CONSTRUCTION |
| | <input type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> PLUG BACK |
| | <input checked="" type="checkbox"/> PRODUCTION START OR RESUME | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION |
| | <input type="checkbox"/> REPERFORATE CURRENT FORMATION | <input type="checkbox"/> SIDETRACK TO REPAIR WELL | <input type="checkbox"/> TEMPORARY ABANDON |
| | <input type="checkbox"/> TUBING REPAIR | <input type="checkbox"/> VENT OR FLARE | <input type="checkbox"/> WATER DISPOSAL |
| | <input type="checkbox"/> WATER SHUTOFF | <input type="checkbox"/> SI TA STATUS EXTENSION | <input type="checkbox"/> APD EXTENSION |
| | <input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> OTHER | OTHER: <input style="width: 100px;" type="text"/> |

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

The above well was placed on production on 07/03/2012 at 14:00 hours. Production Start Sundry resent 10/05/2012.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 October 09, 2012**

| | | |
|---|-------------------------------------|---------------------------------------|
| NAME (PLEASE PRINT) Kaci Deveraux | PHONE NUMBER 435 646-4867 | TITLE Production Technician |
| SIGNATURE N/A | DATE 10/5/2012 | |

| | |
|--|--|
| STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING | FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: Patented |
| SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: |
| 1. TYPE OF WELL Oil Well | 8. WELL NAME and NUMBER: EMERALD PHOENIX 15-31-2-1W |
| 2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY | 9. API NUMBER: 43013512900000 |
| 3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052 | PHONE NUMBER: 435 646-4825 Ext |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 0366 FSL 2039 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 31 Township: 02.0S Range: 01.0W Meridian: U | 9. FIELD and POOL or WILDCAT: UNDESIGNATED 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: 7/3/2012 | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> NEW CONSTRUCTION |
| | <input type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> PLUG BACK |
| | <input checked="" type="checkbox"/> PRODUCTION START OR RESUME | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION |
| | <input type="checkbox"/> REPERFORATE CURRENT FORMATION | <input type="checkbox"/> SIDETRACK TO REPAIR WELL | <input type="checkbox"/> TEMPORARY ABANDON |
| | <input type="checkbox"/> TUBING REPAIR | <input type="checkbox"/> VENT OR FLARE | <input type="checkbox"/> WATER DISPOSAL |
| | <input type="checkbox"/> WATER SHUTOFF | <input type="checkbox"/> SI TA STATUS EXTENSION | <input type="checkbox"/> APD EXTENSION |
| | <input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> OTHER | OTHER: <input style="width: 100px;" type="text"/> |

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

The above well was placed on production on 07/03/2012 at 14:00 hours. Production Start Sundry resent 10/05/2012.

| | | |
|--------------------------------------|------------------------------|--------------------------------|
| NAME (PLEASE PRINT) Kaci Deveraux | PHONE NUMBER 435 646-4867 | TITLE Production Technician |
| SIGNATURE N/A | | DATE 10/5/2012 |

Daily Activity Report

Format For Sundry

EMERALD PHNX 15-31-2-1W

5/1/2012 To 9/30/2012

5/30/2012 Day: 1

Completion

Rigless on 5/30/2012 - Install well head. - Install Camaron wellhead. Plumb in production lines to wellhead. Blade & level location.

Daily Cost: \$0

Cumulative Cost: \$20,867

5/31/2012 Day: 2

Completion

Stone #8 on 5/31/2012 - Set & test BOP stack. MIRU Stone Rig #8. PU tubing - 05:30 ÷ enter liner top with joint #274. No drag or tight spots. Continue to PU tubing. - Having problem testing BOP. Ring gasket leaking between master valve and BOP. Problems tightening 4 bolt due to wrench not clearing . Waiting on new wrench. Stone well on location. Going RU Stone well ser. Will resume pressure testing after stone is RU - RU Stone Well Service, Spot pipe racks. Weatherford resume pressure testing BOP stack. - 17:00 Tbg on location unload and tally tbg - Weatherford pressure test 10K BOP stack . w/ 7 1/16" 10 K HCR valve, 1' 10K spacer spool, 7 1/16 10K manual master valve, dual 2 3/8" 10K BOP w/dual double 2 1/16" outlets w/ 10K double gate valves, w/5K annular Runner trucking on locations unload pipe racks - Safety meeting with Weatherford, Mair trucking and Western well ser. Discussion on emergency phone numbers, driving on roads, pinch points, PPE and the right to stop work for safety reasons and PPE. Talk about RD Production head and RU HCR and master valve w/BOP stack - 19:00 ÷ crew change, safety meeting 19:15 ÷ remove tubing protectors, count & tally 2 3/8" BTS-6 (PH-6 equivalent) P110 tubing. 20:45 ÷ back off tubing hanger lockdown pins, (remove 2 lockdown pins & packing. Repair & replace), remove tubing hanger. 22:30 ÷ PU 3 7/8" bear claw bit (0.75"), bitsub (1.4"), 1 jt of 2 3/8" BTS-6 (PH-6 equivalent) P110 tubing, R-nipple (1.1") & continue to PU tubing. 22:45 ÷ Stop PU tubing. Adjust hydraulic catwalk ramp. Tubing hanging on slide. 23:00 ÷ PU 5 jts tubing. Slips not holding. Change slips. - 23:15 ÷ Continue to PU tubing. 03:00 ÷ Change out elevators. Continue to PU tubing. -

Daily Cost: \$0

Cumulative Cost: \$36,771

6/1/2012 Day: 3

Completion

Stone #8 on 6/1/2012 - Circulate hole clean TIH & LD Tbg, RD BOP, RU Flow cross and Master Valve. Run CBL log. - - 06:30 ÷ tag fill @ 10748" (jt #343). 14" out. LD joint. PBTD @ 10,812. 07:00 Start pumping to circulate hole clean @ 2.5 BMP @ 1500 psi. 11:00 Complete circulate hole w/Alpha at 1 gpt and Clay Care at 1 gpt total fluid pmp 600 bbl @ 2.5 BMP @ 1800 psi. Shut down. 16:00 Out Hole w/343 jts 2-3/8 tbg w/bit sub , 1- 3-7/8" Bear Claw bit. Shut well in. RDMO Stone Well ser. - 16:00 Out Hole w/343 jts 2-3/8 tbg w/bit sub , 1- 3-7/8" Bear Claw bit. Shut well in. RDMO Stone Well ser. - 18:00 - Runner trucking on location to load 2 3/8" PH-6 P110 tubing. 18:30 ÷ Crew change. Finish loading out 2 3/8" PH-6 P110 tubing. 19:30 - RD BOP and RU 10K x 7 1/16" Frac Flow Cross, upper master valve & 10K x 5K x-over spool. Torque & pressure test frac stack. Load out hydraulic catwalk. - - 00:45 ÷ Open well. RIH w/ 2.75" GR Probe (GR/CCL), CCL-Probe (GR/CCL, Small Titan 3 Bowspring Centralizer, CBL-P (CBL), Big Titan 3 Bowspring Bowspring Centralizer. 01:10 ÷ Weight check @ 8900" ÷ PU wt. 1200#. - 01:15 ÷ 9060" tag fill. PU wt ÷ 1400#. PU to 8900" & pulled free. RIH & tag @ 9080". Work down to 9170". PU wt @ 600#. POOH to 8900". RIH to 9060". Run CBL & CCL as POOH. Plan to run 3.75" gauge ring & junk basket to pick up sample of fill as

per discussion with Mike Klick. - 04:45 ħ OOH w/ CBL log. RD logging tools. 05:00 ħ RU 3.75ħ gauge ring, 3ħ junk basket, 8ħ steel weight bar, CCL. 05:15 - Pressure test lubricator to 5000 psi for 5 minutes. 05:30 ħ open manual master valve. RIH w/ GR & junk basket. - RIH & tag fill in 4.5" liner @ 8743'. - 22:30 ħ Finished pressure testing frac stack. Tested all valves to 250 psi low pressure for 5 minutes & 9800 psi high pressure for 10 minutes. 23:00 ħ Spot & RU The Perforators Wireline Service. Install & torque 10K x 5K x-over flange for WL lubricator.

Daily Cost: \$0

Cumulative Cost: \$54,690

6/2/2012 Day: 4

Completion

Nabors #809 on 6/2/2012 - TIH w/ mill and backpressure valve, test BOP stack, SWI for night - 1700 - RU RIH w/POORBOY Shoe 3-7/5" X 2.65" x 3-3/4" OD, 2 - Drain sub 3-1/16 x 0.85" XO sub 3/4 x 2-3/8"EUE, OX sub 3/4ħ SR x 2-3/8ħ, 1 - 3/4" rod box, 1-1/2" jars, OX Box 1-1/2" x 5/8" x 6ħ, OX sub 1-7/8" , 1- 3-1/8" X 7' S- Bar, 1 7/8" x 3-1/8" Nut, 3-1/8 CCL x 2' Cable head 1- 7/16. Tagged top liner @ 8573. Could not get into the 4.5" casing. POOH to change out Tools. Shut well in shut down. Waiting new tools 18:00 - RU RIH w/POORBOY Shoe 3-7/5" X 2.65" x 3-3/4" OD, 2 - Drain sub 3-1/16 x 0.85" XO sub 3/4 x 2-3/8"EUE, OX sub 3/4ħ SR x 2-3/8ħ, 1 - 3/4" rod box, 1-1/2" jars, OX Box 1-1/2" x 5/8" x 6ħ, OX sub 1-7/8" , 1- 3-1/8" X 7' S- Bar, 1 7/8" x 3-1/8" Nut, 3-1/8 CCL x 2' Cable head 1- 7/16. - 10:30 RIH w/GR tagged 10728ħ FS, POOH w/GR and LD . POOH and got stuck at top of liner, worked GR up and down to finally get out of hole. When we laid down GR found no piece rubber. Decide RIH again w/GR 11:45 AM 13:00 RIH w GR light tag something @8900 FS. RIH Tag 10728. POOH GR no problem going Thru Liner. LD down GR No rubber in GR. 13:30 RU RIH w/ CBL tools. 14:00 Tagged @ 9055 FR. POOH w/CBL waiting call from the Office - 8:00 RIH GR w/3.75 Tagged up 9588ħ FS Worked GR up down at 9588ħ POOH w/GR.& LD 1x2ħrubber. PU & RIH w/GR @ 10:03 AMħ - AT 6:30 RIH w/3.75" GR. Tagged up to 8000'. Worked GR up and down and got down to 9574', could not get any deeper. POH and got stuck at top of liner, worked GR up and down to finally get out of hole. When we laid down GR found a piece of 4x4" rubber that looked like part of hangar rubber. Out of the hole at 8 AM. Going to rehead wireline w/ GR and run back in hole. - Mu up BHA consisting of following: Insert twister Mill 3.80" OD x .98', Rotary Sub 3.13" OD x .93', Pump Off Bit Sub w/ Dual Flapper 3.06" OD x 2.03', 1 single 2 3/8" PH6 Tbg, 1.875" x-nipple 3.06" OD x .93'. Opened Well-WH pressure 3600 psig. - 18:00 ħ RIH w/ CBL logging BHA. 20:15 ħ Tagged @ 9250ħ. Worked down to 9580ħ. 20:30 ħ POOH to LD CBL tools. 22:15 ħ OOH w/ junk basket. 3 pieces of rubber in junk basket. PU junk basket w/ 3.75ħ GR. 22:30 ħ RIH w/ junk basket w/ 3.75ħ GR. 23:00 ħ Tag PBTd @ 10,740ħ. No bobbles going in hole. POOH. 23:30 ħ OOH. No rubber in junk basket. LD junk basket. - 23:45 ħ PU CBL logging tools. RIH. 00:15 ħ Tag @ 9535ħ. Work through bridge. Work to 9680ħ. No further progress. 00:30 ħ POOH to PU junk basket & gauge ring. 01:00 ħ RIH w/POORBOY Shoe 3-7/5" X 2.65" x 3-3/4" OD, 2 - Drain sub 3-1/16 x 0.85" XO sub 3/4 x 2-3/8"EUE, OX sub 3/4ħ SR x 2-3/8ħ, 1 - 3/4" rod box, 1-1/2" jars, OX Box 1-1/2" x 5/8" x 6ħ, OX sub 1-7/8" , 1- 3-1/8" X 7' S- Bar, 1 7/8" x 3-1/8" Nut, 3-1/8 CCL x 2' Cable head 1-7/16 to 10,730ħ. No noticeable tags going in hole. Tag bottom 4 times. POOH to 9300ħ. RIH to 10,730ħ. 02:00 ħ POOH. 02:30 ħ OOH. Ck junk basket. 1 large pieces of rubber in JB. Re-run junk basket. 03:00 ħ In hole w/ junk basket & 3.75ħ gauge ring. Tag @ 10,730ħ. Tag bottom 5 times. POOH. 03:30 ħ OOH. Check junk basket. Pull 3 large pieces of rubber out of junk basket. Re-run junk basket. 04:00 - Tag @ 10,730ħ. Tag bottom 5 times. POOH. 04:30 - OOH. Check junk basket. Pull 3 large pieces of rubber out of junk basket. LD junk basket. - 04:45 - PU CBL & CCL tools. RIH. 05:00 ħ Tag @ 10,730ħ. POOH logging from PBTd (10,730ħ) to 9000ħ. 06:00 - Present operations running CBL. - Safety meeting with Nabors, Weatherford, And J&A Flow back, Cudd Pressure Control. Discussion on emergency phone numbers, driving on roads, pinch points, PPE and the right to stop work for safety reasons and PPE. Talk about RU Release line off snubbing unit. - Opened well head at 7 am to see if we could bleed down casing. Opening pressure 3900 lbs. . We let it flow for 35 minutes the lowest pressure we could get it to was 3500 lbs. During Safety meeting Cudd Pressure Control,

stated that night crew did not rig up release line off the Snubbing unit. After Safety meeting Cudd began rigging up Release line. Had to call J&A to get a cement block to set on the Release line. Will be delayed 1 to 1.5 hrs waiting on cement block. 9:45 Cement block placed on pressure control release lines. TIH with 4 blade concaved mill (3.80" OD) .98" , rotary sub (3.13" OD) .93", pump off bit sub (3.06" OD) 2.03", one joint of 2 3/8" 4.7# L-80 EUE, 1.875" X nipple (3.06" OD) .93". RIH with 1000' of tbg and circulate the hole. Open the well head with 3900 psi. Flow the well while tripping in the hole to get pressure down. Ram to ram running tubing. 11:23- 47 bbls flowed back this morning upon opening the well. While tripping in hole with snubbing unit 18 bbls was flowed back. Total of 65 bbls flowed back. While RIH with BHA, tagged up at 261' + / -. POOH with the pipe. Going to flow the well. Thinking is sand bridge. Pipe has scratches on it coming out of the hole. Will call office when out of the hole for further instructions. Well shut in waiting on Mike Klick to show up on locations. - Pulled 8 jts of tubing out of hole with BHA, after looking the tubing over there were scratches and gouges in the tubing. SIW after we got out of hole. Decided to open all pipe ram doors to check BOP's to see if there was not a problem with one of the pipe rams. Called Weatherford, they are on their way to open doors and check all rams and BOP's. This will eliminate why there are gouges in the pipe. If all doors are fine then we will re-evalutate what to do next or what is causing the gouges. - Weatherford on location to open rams and to check inserts. Open and checked top set of pipe rams. Looked brand new. Check seals and closed back up. Checked the middle set of pipe rams. Looked brand new. Changed door seal and closed back up. Check bottom set of blind rams. Looked brand new. Changed door seal and closed back up. No debris found in any of the weatherford rams - RU to test Cudd and Weatherford BOP's - RIH w/ 2 additional jts of Tbg. Cudd called it due to darkness and smoke. SWI for nite. - Hold JSA and discussed safety hazards, Pressure, falling objects, inattention to task at hand. Briefed all on duties. - Weatherford testing BOP stack. PU single and w/ hanger and test.

Daily Cost: \$0

Cumulative Cost: \$83,625

6/3/2012 Day: 5

Completion

Rigless on 6/3/2012 - Run CBL log Pressure test casing and perf DFIT. Breakdown perf start DFIT Test - Well shut in for 14 days of DFIT Test - Complete CBL POOH w/CBL and LD. RU Weatherford Start pressure. Test casing and HCR Valve for 30 min low 250 psi high 8,000 psi. Good test. Test middle master valve and outer casing valves low 250 psi high to 8,000 psi. Good test. Test outer casing valves Low 250 psi high 8,000 psi Good test. - Complete all casing pressure low 250 psi and high to 8,000 psi. RU WL to RIH and perf DFIT form WS 9,970' to 9,976' w/2-3/4" perf guns w/3 spf 120 deg phasing 16 gram Titan charge. Pressure Test Lubricator to 5,000 psi for 5 min. Good test. Open well head @ 0 psi. RIH w/ Perf Guns. 14:40 - Out Hole w/Perf gun all shot fired no pressure on well head. Shut well head in RDMO Perforators. - 16:35 - RU Baker Hughes pumping Ser. RU Newfield SPIDR Gauges turn on @ 16:38 Hrs Open well head 46 psi. Start pumping pmp 4.2 BBL Breakdown pressure @ 5341 psi @ 4.2 BMP increase rate 5.5 BMP @ 4950 psi pmp total 21 with breakdown fluid. Shut Down ISIP 4970 psi. 1 min 4909 psi 5 min 4828 psi. 10 min 4839 psi. 15 4816 psi. Shut well @ 4811 psi. RDMO Baker Hughes pumping Ser. Well shut for 14 day DFIT TEST

Daily Cost: \$0

Cumulative Cost: \$118,582

6/22/2012 Day: 6

Completion

Rigless on 6/22/2012 - Spot and filling frac tanks with water, spot three flow back tanks. - Well shut on dfit test - Move in spot 40 frac tanks. ITL water company fill frac tank, Baker on location spot sand movers on locations.

Daily Cost: \$0

Cumulative Cost: \$144,232

6/23/2012 Day: 7

Completion

Rigless on 6/23/2012 - RU all flow back equipment and pressure test all valves and equipment. - Safety meeting with J&A flow back. Discussion on emergency phone numbers, driving on slippery roads, pinch points, PPE and the right to stop work for safety reasons and PPE. - RU flow all flow back equipment. Weatherford on location pressure test flow back equipment. All pressure test complete low 250 psi high 8,000 psi good test, RD Weatherford. - Well shut in waiting complete all perf on stage #1.

Daily Cost: \$0

Cumulative Cost: \$150,663

6/24/2012 Day: 8

Completion

Rigless on 6/24/2012 - Perf stage #1 Complete. Waiting on Baker Hughes equipment to frac stage #1 @ 7:00 AM - Well shut in. Waiting on Baker to frac stage #2. - RU Perforators and pressure test lubricator to 8,900 psi Good test. Release pressure. Open well head 3,800 psi. RIH w/ W1 and perf from 10,166' to 10,167' from 10,098.5' to 10,099.5' from 10,021.5' to 10,022.5' w/16g, .34 EH, 21.00 pen. POOH w/WL all shit fired, shut well in w/3,800 psi. RD Perforators and Weatherford pressure test unit. - Safety meeting with Boots and Coats, Allison Crane Service and Cathedral. Discussion on emergency phone numbers, driving on slippery roads, pinch points, PPE and the right to stop work for safety reasons and PPE.

Daily Cost: \$0

Cumulative Cost: \$166,438

6/25/2012 Day: 9

Completion

Rigless on 6/25/2012 - Frac stages 1 & 2. - Baker Hughes. Shut down waiting for parts from Vernal. Have one pump down have to change flange rig out on pump. 16:00 Part on location repair pump. Part was not right. Call the office and have any pump on its way to location. Rig off the bad pump. Waiting on new pump. - (Frac Stage#2) Pressure test pump lines @ 9,000 psig. Good test. Open well head pressure @ 4,655 psi. Start pumping. Break down pressure @ 6265 psig. @ 1.6 BPM 2.2 BBL. Shut down. ISIP 45,047 psi 5 min 4171 psi 10 min 4,734 psi. 15 min 4716 psi. - Safety meeting with Baker hughes, Weatherford and perforators. Discussion on emergency phone numbers, driving on slippery roads, pinch points, PPE and the right to stop work for safety reasons and PPE. Talk RU all equipment. - RU Baker Hughes Frac equipment 11:00 AM (Frac Stage #1) Pressure test pump lines @ 250 low & 9000 High. Good test. Release pressure. (Frac Stage #1) Open well head, pressure @ 3,800 psi. Start pumping. Breakdown @ 6,109 30 BPM, 123 BBL/pmp. Shut down. ISIP 4,927, 5 min 4,673 psi 10 min 4,673 psi 15 min 4,570. Start pmp 36.7 bbl acid @ 6205 psig. Start Pad Slick water @ 36.6 BPM @ 6,211 psig. Start .5 ppg 20/40 sand Slick water @ 40.3 BPM @ 6,222 psig. Start .75 ppg sand slick water @ 42. BPM @ 6,224 psig. Start .75 ppg white sand w/20# Lightning Gel. @ 42.9 BPM @ 6,220 psi. Start 1 ppg 20/40 sand 20 # Lightning gel @ 44 BPM @ 6,233 psi. Start 2 ppg 20/40 sand Lightning Gel 20# @ 51.6 BPM @ 6,259 psig. Start 3 ppg 20/40 sand w/ 20# lightning gel @ 51.7 @ 6,069 psig, Start 4 ppg 20/40 sand w/20# Lightning gel @ 51.3 @ 5,823 psig. Start 4 ppg 20/40 sand w/ 20 # lightning gel @ 51.6 BPM @ 5,807 psi. Start @ 5 ppg 20/40 sand W/20# Lightning gel @ 52. BPM @ 5,781 psi Start 20/40 Super LC sand @ 51.7. BPM @ 5830 psi. Start PMP acid @ 51.5 @ 5911 ps. Start Flush @ 52.2 BPM @ 6,452 psi. Shut down. ISIP 6,225 psig. 5 min 4,949 psi. 10 min 4,852 15 min 4,791 psi. Shut in well. RIH w/4.5 Halliburton 10K plug and perf guns. Set Plug @ 9,940' FS. (PERF stage #2) perf from 9,909 to 9,910 from 9,869' to 9,873' from 9,768' to 9,770' from 9,746' to 9,748'. Perf/w Owens 3 SPF, 120 deg 16 gran Titan. POOH w/WL RD. Turn well over

to Baker Hughes - RU WL and test lubricator to 8500 psig for 5 min. Bleed off/ OW and RIH w WL. Plug and Perf as follows: Set Plug @ 9,707' FS. (PERF stage # 3) perf from 9,669' to 9,672' from 9,626' to 9,627' from 9,610' to 9,615' Perf/w Owens 3 SPF , 120 deg 16 gran Titan. POOH w/WL RD. SWI for the night. - HF Well as follows: Start Pad @ 34 BPM @ 6,180 psi. Start .5# ppg 20/40 sand w/Slick water @ 33.9 BPM @ 6,149 psi. Start .75# ppg sand w/Slick water @ 37.3 BPM @ 6,320 psig. Start .75 ppg 20/40 white sand w/Lightning Gel @ 38 BPM @ 6,220 psig. Start 1# ppg 20/40 white sand w/20# Lightning Gel @ 41.5 BPM @ 6,260 psig. Run 27.6 BBL sweep @ 6,350 psi. Start .5 # ppg 20/40 white sand w/20# lightning Gel @ 25 BPM @ 6,350 psig. Start 1# ppg 20/40 sand w/20# Lightning Gel @ 29.4 BPM @ 6,330 psig. Start 2# ppg 20/40 white sand w/20# Lightning Gel @ 29.7 BPM @ 6,250 psig. Start 3 # ppg 20/40 sand w/Lightning Gel @ 31.1 BPM @ 6,127 psig. Start 4# 20/40 sand w/20# lightning Gel @ 32.0 BPM @ 5,950 psig. Start @ 5 ppg 20/40 sand w/20# Lightning gel @ 30.0 BPM @ 5,603 psi. Start Flush @ 30.3 BPM @ 5715 psig. ISIP @ 5303 psi 5 min 5,107 psi. 10 min 4,979 psi. 15 min 4922 psi. Shut in well.

Daily Cost: \$0

Cumulative Cost: \$189,224

6/26/2012 Day: 10

Completion

Rigless on 6/26/2012 - Frac Stage #3 #4 #5 #6 and Perf #4 #5 #6 - RDMO Baker. WL is scheduled to RIH w/ CCLand weight bars on 6/27 to tag top of sand fill up. - HF Stage 6 as follows: Pressure test pump lines @ 9,000 psig. Good test. Open well head pressure @ 3,953 psi. Start pumping. Break down pressure @ 4,660 psig. @ 3.8 BPM. Est rate and pressure @ 42 BPM @ 6062 psig, Shut down. ISIP 4,256 psi 5 min 4,007 psi 10 min 3,927 psi 15 min 3911. St 15% HCL Acid on Perf-34 BPM 6060 psig. Start Pad @ 34 BPM @ 5905 psi. Start .75 ppg 20/40 sand w/ 20# Lightening Gel @ 43.6 BPM @ 6,155 psi. Start 1.00# ppg sand w/ 20# Lightening Gel @ 51 BPM @ 6,168 psig. Cut Sand @ 23 BPM 6610 psig 1.0 ppg in wellbore Run 30 bbl sweep @ 22 BPM @ 5960 psig Start 1# ppg 20/40 white sand w/20# Lightning Gel @ 26.0 BPM @ 6,275 psi. Start 2 # ppg 20/40 white sand w/20# lightning Gel @ 26 BPM @ 6,050 psi. Start 2.5 # ppg 20/40 sand w/20# Lightning Gel @ 26.0 BPM @ 5,900 psig. Start 3# ppg 20/40 white sand w/20# Lightning Gel @ 26 BPM @ 5900 psig. Start 4 # ppg 20/40 sand w/Lightning Gel @ 26 BPM @ 5,700 psig. Start 5# Super LC sand w/20# lightning Gel @ 26 BPM @ 5600 psig. Start Flush @ 26 BPM @ 5,430 psig. Well screened out w/ 43,359# 20/40 in formation and 2,406# CRC in formation. Total of 55,568# prop in formation. Approximate 9803# CRC prop left in WB. ISIP @ 6,640 psi. 5 min 6,315 psi. 10 min 6,102 psi 15 min 5,867 psi. Shut in well. - 15:30 PM (Frac Stage #5) Pressure test pump lines @ 250 low & 9000 High. Good test. Release pressure . (Frac Stage #5) Open well head, pressure @ 4,446 psi. Start pumping. Breakdown @ 6,258 @ 3.8 BPM, 3.5 BBL/pmp. Shut down. Start pmp 14 bbl acid 15% HCL @ 5223 psig. Start Pad Slick water @ 59.5 BPM @ 5,779 psig. Start .5 ppg 20/40 sand Slick water @ 59.3 BPM @ 5,960 psi. Start .75 ppg sand slick water @ 59. BPM @ 5,795 psi. Start .75 ppg white sand w/20# Lightning Gel. @ 59.9 BPM @ 5,738 psi. Start 1 ppg 20/40 sand 20 # Lightning gel @ 59.5 BPM @ 5,021 psi. Start 2 ppg 20/40 sand Lightning Gel 20# @ 59.5 BPM @ 4,919 psi. Start 3 ppg 20/40 sand w/ 20# lightning gel @ 59.6 @ 4,800 psi, Start 4 ppg 20/40 sand w/20# Lightning gel @ 57 @ 4,625 psig. Start 5 ppg 20/40 sand w/ 20 # lightning gel @ 60. BMP @ 4,578 psi. Start 20/40 Super LC sand #6 ppg @ 60 BPM @ 4,472 psi. Start Flush @ 59.8 BPM @ 5,420 psi. Shut down. ISIP 4,419 psi. 5 min 4,271 psi. 10 min 4,177 15 min 4,105 psi. Shut in well. RIH w/4.5 Halliburton 10K plug and perf guns. Set Plug @ 9,009' FS. (PERF stage #6) perf from 8,960' to 8,969'. Perf/w Owens 3 SPF , 120 deg 16 gran Titan. POOH w/WL RD. Turn well over to Baker Hughes. - 11:00 AM Pressure test pump lines @ 250 low & 9000 High. Good test. Release pressure . (Frac Stage #4) Open well head, pressure @ 4,423 psi. Start pumping. Breakdown @ 6,775 @ 4 BPM, 6 BBL/pmp. Shut down. ISIP 4,927, 5 min 4,667 psi 10 min 4,566 psi 15 min 4,520. Start pmp 24 bbl acid @ 6,730 psi @ 2 BMP. Start Pad Slick water @ 14.8 BPM @ 6,150 psi. Acid on perf increase rate @ 36.7 BMP @ 5967 psi. Start .5 ppg 20/40 sand Slick water @ 38.4 BPM @ 6,090 psig. Start .75 ppg sand slick water @ 38.4 BPM @

6,041 psi. Start .75 ppg white sand w/20# Lightning Gel. @ 39.2 BPM @ 6,056 psi. Start 1 ppg 20/40 sand 20 # Lightning gel @ 40.3 BPM @ 6,111 psi. Start 2 ppg 20/40 sand Lightning Gel 20# @ 36.9 BPM @ 6,200 psig. Start 3 ppg 20/40 sand w/ 20# lightning gel @ 40.9 @ 6,049 psig, Start 4 ppg 20/40 sand w/20# Lightning gel @ 40.7 @ 5,681 psig. Start Flush @ 35 BPM @ 5,185 psi. Shut down. ISIP 4,961 psi. 5 min 4,714 psi. 10 min 4,571 psi, 15 min 4,544 psi. Shut in well. (PERF stage # 5) RIH w/WL and Set Plug @ 9,230 FS. perf from 9,092' to 9,093' from 9,080' to 9082' from 9,075' to 9,077' from 9,070' to 9,072' from 9,066' to 9,068' Perf/w Owens 3 SPF , 120 deg 16 gran Titan. POOH w/WL RD. Turn well over to Baker Hughes. - 07:00 AM (Frac Stage#3) Pressure test pump lines @ 9,000 psig. Good test. Open well head pressure @ 4,295 psi. Start pumping. Break down pressure @ 6,678 psig. @ 3.3 BPM 30 BBI. Pump 13 bbls acid, Est rate and pressure @ 29.4 BPM @ 5,978 psi , acid on perf increase rate to 29.7 BMP @ 6000 psi. On pad @ 38.8 BPM @ 6,047 psi. Start .5# ppg 20/40 sand w/Slick water @ 38.7 BPM @ 6,041 psi. Start .75# ppg sand w/Slick water @ 42.8 BPM @ 6,090 psi. Start .75 ppg 20/40 white sand w/Lightning Gel @ 47.7 BPM @ 6,000 psi. Start 1# ppg 20/40 white sand w/20# Lightning Gel @ 51.1 BPM @ 5,861 psi. Start 2 # ppg 20/40 white sand w/20# lightning Gel @ 51. BPM @ 5,600 psi. Start 3# ppg 20/40 sand w/20# Lightning Gel @ 51.1 BPM @ 5,432 psig. Start 4# ppg 20/40 white sand w/20# Lightning Gel @ 51 BPM @ 5,390 psig. Start 5 # ppg 20/40 sand w/Lightning Gel @ 51. BPM @ 5,585 psi. Start 5# Super LC sand w/20# lightning Gel @ 51 BPM @ 5,840 psig. Start Flush @ 51 BPM @ 6,131 psig. ISIP @ 4,940 psi. 5 min 4,760 psi. 10 min 4,6651 psi 15 min 4587. Shut in well. RIH w/WL and Set Plug @ 9530' (PERF stage # 4) perf from 9,485' to 9,489' from 9,470' to 9,472' Perf/w Owens 3 SPF , 120 deg 16 gran Titan. POOH w/WL RD. Turn well over to Baker Hughes. - Safety meeting with Baker Hughes, Weatherford and Perforators. Discussion on emergency phone numbers, driving on slippery roads, pinch points, PPE and the right to stop work for safety reasons and PPE.

Daily Cost: \$0

Cumulative Cost: \$801,526

6/29/2012 Day: 11

Completion

Rigless on 6/29/2012 - Rig Up equipment and rig to wash out sand - James Del Buno on Location - rigging up equipment to wash out well and DO plugs . - 20:00-21:00 Hooking up WFD annular bag on well, Still have to Torque and pressure test unit - BHA in Well = (Concave Mill 3.80"OD X .98")-(Rotary Sub 3.13"OD X 1.0 ID" x .93") - (Pump off Bit Sub 3.06" OD x .97 ID" X 2.03)-(I Jt 2 3/8 tubing 4.7 L-80 EUE X 31.63)-(X nipple 3.06"OD" X 1.88 ID" X .93") =4.87 Ft +31.63 = 36.5 Ft to top of X Nipple +199 joints 2 3/8 4.7 L-80 EUE tubing = EOT 6326 Feet 18:00 -20:00 On location hold Safety Meeting with Crews, Nabors , WFD , TTS , Cudd, J&A -Discuss Pinch points, Line of Fire, Suspended Loads, Fall protection, 3 point contact, PPE, Smoking on location, Safety Meeting area, trash on location. Cudd Rigging down Snubbing Unit - 22:40-00:00 Attempted several times and could not get bag to test - Seemed to be Hyd problem with accumulator when pressure test unit pressured up Bag we were getting a gain in HYD system - Switched Accumulators Pressure was 1200 to 1400 psi accumulator still not holding - Weather ford TEC arrived on location and decision was made that bag Failed. 21:00-22:40 7 1/16 5K Annular bag torqued and Held 250 low pressure test for 5 minutes Good Test - Increased pressure to 3500 psi and bag would not hold.

Daily Cost: \$0

Cumulative Cost: \$860,350

6/30/2012 Day: 12

Completion

Rigless on 6/30/2012 - RIH and wash out sand - 13:00-14:30- Seals arrived. Changed seals on the 10K hanger. Put hanger on the pipe and lowered down to the bottom pipe rams. Closed upper pipe rams. Equalized pressure. Opened bottom pipe rams and lowered hanger and landed. Bleed down the stack and monitored for ten minutes. Open both pipe rams and bag

and POOH with landing joint. Closed HCR valve and Blind rams. Going to swap out Graco bag for Weatherford bag. 11:00-13:00-RIH with BHA. Still having to adjust the pressure up on the bag as we are going in. At 8388' MD the bag would not hold any more. Well shut in at flow back. Because of the blow through the bag the csg pressure dropped to 900 psi. Shut lower pipe rams. Talked with Mike Klick develop a game plan. Brought the accumulator pressure to 1400 psi. Pulled two joints of tbg. The bag showed signs of giving up. Stopped there and started getting ready to land the hanger. Seal on hanger was not good. Ordered new seals. Weatherford showed up with new bag. Called torque and test guy and fork lift operator. Waiting for Cameron seals to land tubing and change out bag. - 08:00-11:00- Started RIH. Having trouble getting through bag. Adjusted pressure on the accumulator to get pipe through. Cat walk not working properly. Pipe jams half way up. Call Nabors Oil Tools to come out and fix. Continued RIH. Having trouble with the bag again. Closed pipe rams and opened bag to check. Resealed bag and adjusted the pressure. Called Graco to send someone out to watch bag operations. Continue to RIH. 7600' in the hole. Csg has 2500 psi on it. 07:00-08:00- re-torqued the stack and tested Bag to 250 psi low and 4800 psi high. Good test. RD Weatherford test unit and getting ready to start RIH with BHA. 06:00-07:00-Held safety meeting with day crew. Talk about auto pilot, complacency, pressure in lines, communications, and current job operations. Bag holds 250 low. Has a slight leak off at 4800 psi. Check accumulator all is right. Closed bottom pipe rams. Still leaking. Found a small drip on the top pipe ram flange. Bled off pressure. Going to torque the flange again. - 17:00-18:00- Tested Bag. 250psi low for 5 minutes and 4800 psi for 15 minutes. Going to pull the hanger. 14:30-17:00-JSA on changing out bag. ND Graco 5K annular preventer (bag). The rubber was completely torn up. NU weatherford 5K bag. RU the rig floor and RIH with landing joint and tied into the hanger and prepare for testing. Starting to test. - 05:00-06:00 Graco Tools 7 1/16 5 K annular bag installed and torqued on well. 00:00-05:00 Weatherford did not have another Bag available in Vernal ' Closest was in Rock Springs Had to Hot shot to Vernal and then get unit Tested ' Called Graco tools and found a 7 1/16 5 K bag in Vernal hot shot it to location ' arrived at 5 am . - 20:00 Currently 4 Jts above estimated fill - Circulate fluid with Cudd pump 4 BPM at 2050 psi, 4 bbl. in 4 bbl. out return 1800 psi , AV 122 FT/MIN 'Tubing Volume 32 BBL ' Annular Vol 273 Bbl. 305 bbl. to circulate hole 'Circulating water and gel sweeps ' Getting ready to RIH and wash out sand 18:30 Pipe Talley ' 263 Jts 2 3/8 Tubing in Hole EOT 8325 feet-Pull Liner hanger out of well ' Hook up power swivel 18:00 On location hold Safety Meeting with Crews, Nabors , WFD ,Cudd, TTS , J&A -Hold pre-job safety meeting to review work to be performed, JSAs, stop-work authority, smoking policy, evacuation plans and FRC policy, Pinch points, Line of Fire, Suspended Loads, Fall protection, 3 point contact, PPE, Smoking on location, Safety Meeting area, trash on location. Night Shift Willie O Neill - 23:00-24:00 Lost Elements on WFD Hyd-rill washed out ' Nabors has a Bag with softer rubber ' Making plans to switch out Annular bag -Collars on tubing possible tearing up rubber, Called WFD to see if have another set of elements or hyd drill in Vernal none available - Still circulating hole 330 BBL. To get bottoms up. 22:00 At 274 Jts in hole 8667 feet - Took 2 kicks 6,000 ' 5,000 psi ' circulate hole 4 bbl. in at 4000 psi 4 bbl. out 3800 psi on a 20 Choke- 120 RPM ' very sticky going thru Bag 21:00 Ran in Hole 263 jts to 271 jts -8325 feet to 8667 feet 'Circulating at 4 bbl. In 3900 psi ' 4 bbl. out 3700 psi-did not tag any fill Tagged liner top at 271 jts in at 8573 feet - string weigh 20K ' choke 20-24-100-120 RPM

Daily Cost: \$0

Cumulative Cost: \$863,350

7/1/2012 Day: 13

Completion

Rigless on 7/1/2012 - DO frac Plugs - 1945 PM pick up TBG and start TIH PU WT 38K, SO WT 19K NEUT WT 23K, circulating 2.5 BPM at 3,500 PSI. return 3.5 BPM at 3,000 PSI. 2045 PM Ran 4 JTS rotating and circulating down, Currently at 8,891' with 281 JTS in, PU WT 38K, SO WT 19K NEUT WT 23K, circulating 2.5 BPM at 3,900 PSI. return 3.5 BPM at 3, up200 PSI. Pumped gel sweep circulating bottoms. Mike Simrell 903-720-7775 - 00:00 -06:00 Due to previous bag failures - Attempt to Land tubing Hanger to switch out Annular Bag ' Attempted

3 times lost seals could not land tubing Hanger WH pressure 3500 Psi & Bottom set of pipe rams don't seem to be holding pressure & Waiting on Cudd snubbing unit to arrive on Location at 06:00 to rig up onto well land tubing hanger and Weatherford to replace bottom pipe rams. And resume operations with Snubbing unit. - 07:00-12:00 ND Weatherford bag. RU Cudd snubbing. Torque snubbing unit, ran bleed off lines, and tested top rams. Low 250 psi and high at 4000 psi. Pulled hanger and worked it through the stack. Seal rubber was cut in half. Laid down pup joint and hanger. Compared new hanger to compression hanger. Setting up to run new Cameron hanger with just an oring seal and no compression seal. 06:00-07:00 Arrived on location. Cudd arrived on location. Spotted unit. Held safety meeting. Discussed: house keeping, pressure, overhead loads, pinch points, hand placement, stop work authority, Identifying problem, auto pilot and complacency, communications, and slip, trips, and falls. Discussed current operations. The order in which things need to happen and made sure that everyone understands what is going on. Starting to ND Weatherford bag. - 13:15-16:00 Opened up the lower pipe rams and replace the rams. The rubber on one side was completely tore up. The other side was on its way to being there. Put rams back together. Tested Bottom blinds, 250 psi low to 4800 psi high. Good test. Tested lower pipe rams, 250 psi low to 4800 psi high. Good test. Tested Cudds lower pipe rams, 250 psi low to 4800 psi high. Good test. Tested bag to 250 psi low and 2800 psi high. Good test. 5 min on all low pressure test and 15 minutes on all high pressure test. Getting ready to pull the hanger and PU the power swivel. 12:00-13:15 Landed hanger. Run in pins. Bled off all pressure. Shut in and watched for 30 minutes. No bluid up. Pulled landing joint and shut HCR valve. Starting repairs on bottom pipe rams. - 17:30-18:30 Picked up and rigged up power swivel. Tested power swivel to 250 psi low and 4800 psi high. Good test. Picking up first joint to brake circulation. 16:00-17:30 Held JSA and went over the step and parameters of the task at hand. Went over good communications, pressure releases, sand clogging the choke, Kick outs, Max pump rate at 2.5 bbls per minute and letting out 3.5 to 4 bbls per minute, Job assignments and working with the power swivel. Pulled hanger. Had trouble getting through the stack. Was pulling 25K over at a few points. Hanger out of the stack. Pipe pulling normal now. Setting up to RU power swivel. - 2215 PM Circulated clean continue to pick up TBG and TIH 2255 PM Ran 4 JTS rotating and circulating down Tagged plug #1 at 9,024' TBGM with 285 JTS in, PU WT 40K, SO WT 21K NEUT WT 26K, circulating 2.5 BPM at 3,600 PSI. return 3.5 BPM at 3,000 PSI. Pumped gel sweep circulating bottoms working and rotating tbg above plug #1. Mike Simrell 903-720-7775

Daily Cost: \$0

Cumulative Cost: \$871,887

7/2/2012 Day: 14

Completion

Rigless on 7/2/2012 - Finish DO and land tubing - 0020 AM Start drilling on plug #1 at 9,024' TBGM 0051 AM Plug #1 drilled in 31 minutes, circulating 2.5 BPM at 3,600 psi. return 3.5 BPM at 2,900 PSI. Pumped gel sweep, PU wt 40K, SO wt 22K neut wr 26K. FS torque 1,600 psi. Drilling torque 2,000 psi continue to TIH to plug 2 0210 AM Plug #2 drilled in 34 minutes, circulating 2.5 BPM at 3,600 psi. return 3.5 BPM at 2,800 PSI. Pumped gel sweep, PU wt 42K, SO wt 23K neut wr 26K. FS torque 1,600 psi. Drilling torque 2,000 psi continue to TIH to plug 3 0430 AM Currently at 9,625' with 304 JTS in did not tag plug #3 at 9,530' Continue to TIH to plug #4 - 0525 AM Plug #4 drilled in 25 minutes, circulating 2.5 BPM at 3,600 psi. return 3.5 BPM at 2,800 PSI. Pumped gel sweep, PU wt 42K, SO wt 23K neut wr 26K. FS torque 1,700 psi. Drilling torque 2,200 psi continue to TIH to plug 5 - 10:45-12:15 Circulated a hole volume at 10,300' MD. Pumped 315 bbls. 4 BPM at 2600 psi on the csg and 3600 psi pump pressure. Going to POOH to 8930' MD. 09:00-10:45 Washed and rotated down to 10,300' MD from CFP # 5. Going to pump bottoms up next. 07:00-09:00 Changed out the stiff arm. Tagged and started drilling on CFP #5 @ 9951' MD. 22 minutes drill time. Circulating at 2.5 BPM 3600 psi on the pump pressure and returns of 3.5 BPM @ 2800 psi on the csg. RIH to 10,300' MD. 05:25-07:00 Tagged CFP #5 @ 9951' MD. Started to drill and the having issues with the stiff arm on the power swivel. Changing out stiff arm. - 16:30-17:45 Landed the

hanger. Run in lock down pins. Performed neg test on hanger for 30 minutes. No Build up. In the process of RD snubbing unit and all other supporting equipment. 14:30-16:30 Circulated a hole volume. Pumped a think sweep (15 bbls) Fluid was pretty clean. Still oil in the water. Once sweep came around fluid was clean with traces of oil. Shut down pump. Pumped 4 BPM at 2600 psi on the csg and 3600 psi pump pressure. Pumped a total of 365 bbls. RU to land hanger. 12:15-14:30 POOH going ram to ram. Pull out to 8916 $\frac{1}{2}$ MD. CSG pressure at 2800 psi. RU up to circulate the hole clean

Daily Cost: \$0

Cumulative Cost: \$1,006,219

7/3/2012 Day: 15

Completion

Rigless on 7/3/2012 - Rig down Rig drop Ball pop Well- Turn well over to production - 11:45-12:30 Finish rigging down the rig and moved the rig off location. Dropped the ball and Rigging up to pump. 09:20-11:45 Pressured up on the void area and tested to 10,000 psi. Pressured up to 10,000 psi on the tree and perform high and low test on each valve of the tree. Tested 250 psi low and 10,000 psi high. Lay down the rig next. 08:30-09:20 Tree installed and NU. Beginning testing and RD rig. - 13:10-14:45 Cudd pump truck off of location. 281 joints of 2 3/8 $\frac{1}{2}$ L-80 EUE tbg in the hole. 47 joints on the ground. Truck ordered to return pipe. Rusty Mire to finish getting all equipmet off location. Select will pick up Light towers, fork lift, and man lift on Thursday. Production has the well. Final shut in pressure on the well was 3600 PSI. 12:30-13:10 RU pump truck and tested lines to 7000 psi. Open well and started pumping @ 2 BPM @ 4000 psi till we reached 25 bbls and slowed down to 1 BPM @ 3200 psi. At 28 bbls pumped started building pressure. Pump off went at 6200 psi. Pumped 10 bbls over for a total of 39 bbls. Shut well in and RD Cudd pump truck of the tree. Production working on the tree now. Waiting for Cudd pump truck to finish RD equipment. Release all equipment that need releasing. - 06:45-08:30 Stack is ND. Installing tree now. 06:30-06:45 Held safety meeting. Talk about fork lift and man lift safety, slip, trips, falls, working around loads in the air. Trapped pressure. And the job at hand.

Daily Cost: \$0

Cumulative Cost: \$1,203,346

7/7/2012 Day: 16

Completion

Rigless on 7/7/2012 - Capture final costs in DCR..SH - Cost adjustment in DCR for non-captured costs

Daily Cost: \$0

Cumulative Cost: \$1,287,179

7/13/2012 Day: 17

Completion

Rigless on 7/13/2012 - Try to Run production logs - Safety meeting with R&B Slick line. Discussion on emergency phone numbers, driving on roads, pinch points, PPE and the right to stop work for safety reasons and PPE. 0700 R& B slick line on location RU & RIH to 6500 ft. and Cut Paraffin.. 0730 POOH w/ R&B Slick line & RDMO.. - 0800; Halliburton on location start RU to run Production logs 0830; Safety meeting with Halliburton WL. Discussion on emergency phone numbers, driving on roads, pinch points, PPE and the right to stop work for safety reasons and PPE. - 08:30 Well head 250 psi on coke 10/64 RU & RIH w/1- 11/14" x 1' CCL & 1 - 1-11/16" x 5',sinker bars 1- 11/16 x 7' sinker Bars to Tag 10,613 9:30: POOH w/WL tag @ 10,613' FS. 10:29 AM POOH & LD CCL w/sinker bar. RU Production Tool & RIH w/1- 1.69 $\frac{1}{2}$ OD x 1.86 $\frac{1}{2}$, caged Full bore Flow meter, 1- 1.69 $\frac{1}{2}$ OD x 1.54 $\frac{1}{2}$ Capacitance Temperature flow, 1- 1.69 $\frac{1}{2}$ OD x 1.92 $\frac{1}{2}$ production Roller Centralizer (3Arm), 1 - 1.69 $\frac{1}{2}$ OD x 1.44 $\frac{1}{2}$ Inline spinner, 1 - 1.69 $\frac{1}{2}$ OD x 1.92 $\frac{1}{2}$ Fluid Density Radioactive, 1 - 1.69 $\frac{1}{2}$ OD X 1.96 $\frac{1}{2}$ Gas Holdup

Tool. 1 - 1.69" OD x 2.01" Production Gamma Ray, 1 - 1.69" Od X 1.53" Quartz Pressure/Collar locator, 1 - 1.69" OD x 1.58" OX, 1- 1-11/16" X 5" Sinkers bar, 1- 1-11/16" x 7" Sinkers bar, 1- 1.44" OD x 1" Cable head - 12:00 RIH w/production log, got to bottom, opened well to start log, well died. Has 64 PSI with well wide open. Well will not flow. 12:30 POOH and RD Halliburton and release. - Turn well over production sales

Daily Cost: \$0

Cumulative Cost: \$1,303,818

8/1/2012 Day: 19

Completion

Nabors #1420 on 8/1/2012 - RU R&B SLT, RIH and tag fill @ 10649'. RU Nabors rig #1420, ND Production head NU BOP, Pull tbg hanger & POOH w/180 jts 2-3/8" tbg, - SITP 700 PSI. SICP 1500 PSI. Nabors RU flow lines and pump and pit. RU coke valve to blow down Casing and tbg, RU to tbg and pump 30 BPW to kill well 10:52 Install two way Valves in tbg hanger. 11:30 ND Production head and NU BOP. 13:30 - All BOP test complete 14:00 - RU Cameron and pull two way check valve out off tbg hanger. 14:30 " Pull TBG hanger and Cir hole w/350BPW @ 3BPM @ 1100 PSI. - 17: 00 - Complete Cir hole w/350 BPW and Kill well. POOH w/180 JTS 2-3/8" TBG . 19:00 - Shut well in. SDFN - Well shut in over night - RU R&B SLT, RIH and tag fill @ 10649'. RU Nabors rig #1420. MIRU Nabors Well ser .Safety meeting with Nabors well ser and Weatherford. Discussion on emergency phone numbers, driving on roads, pinch points, PPE and the right to stop work for safety reasons and PPE

Daily Cost: \$0

Cumulative Cost: \$1,341,130

8/2/2012 Day: 20

Completion

Nabors #1420 on 8/2/2012 - POOH w/2-3/8" tbg, RIH w/7" Weatherford Arrow set packer, TIH w/2-3/8" tbg w/gas lift mandrel - .Safety meeting with Nabors well ser and Weatherford. Discussion on emergency phone numbers, driving on roads, pinch points, PPE and the right to stop work for safety reasons and PPE - SITP 0 PSI. SICP 0 PSI. POOH w/103 jts 2-3/8" tbg 6.5# L-80 . Close rams 09:00 - RU Perforators Pressure test lubricator. Good tests Open well head RIH w/6.02 Gauge rig to 8,560' FS. POOH & LD. 12:00 - RU lubricator w/ 7" Weatherford Arrow set packer and pressure test lubricator. Good Test. 12:30 - RIH w/WL and 7" Arrow packer and set Down @ 8150' FS. Pull out - 12:50 - Ran guage ring to 8560". RIH with Wireline and set down with packer at 8150'(Pkr set depth 8540"). POOH pulling tight all the way out of the hole until we got through BOP's then we lost our weight. RD lubricator, pulled packer out of hole. Everything looked alright. Outside high strand wire on wireline looked like it was coming loose, cut 1000' off wireline. Could be a possibility that part of the rubber off liner hangar is still in 7". (Originally when we started clean out first time, we could not get down with CBL and had to go in and fish liner hanger rubber out. So there is a possibility that part of that rubber is still in 7".) - 16:30 - RDMO Perforators. Shut well in . SDFN

Daily Cost: \$0

Cumulative Cost: \$1,356,991

8/3/2012 Day: 21

Completion

Nabors #1420 on 8/3/2012 - TIH w/3-7/8" bit and Bit sub w/2-3/8" jts tbg to clean out to PBTB - 14:30 POOH w/284 jts 2-3/8" tbg and Bit sub and 3-7/8" mill. 17:32 " Got out of the w-3-7/8" mill. No wear on bottom but there is wear on the side. Brent Cook ok'd with 3-5/8" mill . TIH w/mill and tbg at this time. 18:30 Total tbg in hole 140 jts 2-3/8" tbg EOT 4425 FS. Shut well in. 19:00 - SDFN - 06:30 - Safety meeting with Nabors well ser and Weatherford. Discussion on emergency phone numbers, driving on roads, pinch points, PPE and the right to stop work for safety reasons and PPE. Talk about TIH w/Bit and tbg and clean out to PBTB. -

0700 - SICP 100 PSI Blow down casing Pump 50 BPW down casing and kill well. TIH w/3-7/8" Mill bit sub ID 3-3/4" ID 1-1/2" Length 1.10 w/252 jts 2-3/8" tbg Tag sometime Hard @ 9,006. FS. 11:00 - RU Power swivel 11:30 - PU 1 jts 2-3/8" tbg Tag @ 9006 FS. Drilling hard Going to drill for 45 min pump 300 BPM @ 5 BPM @ 800 psi. POOH w/tbg. 13:00 - PU 1 jt off cat walk. TIH tagged at 9006' SF. Drilling hard. Will drill for 45 min. Do you want us to continue drilling or POH and inspect drill bit. Please call to advise

Daily Cost: \$0

Cumulative Cost: \$1,367,143

8/4/2012 Day: 22

Completion

Nabors #1420 on 8/4/2012 - TIH w/2-3/8" to clean out to 10,680 FS. - SDFN - 12:00 - RD Power swivel. POH & LD 2-3/8" tbg after every 4th jts we will Cir 20 BPW tell we get to the top off the liner 15:15 - Pooh & LD 66 jts 2-3/8". EOT 8,488' FS. CIR 450 BPW @ 5 BPM @ 1200 psi. Shut down. Left 268 jts 2-3/8" in the hole so we will have an Kill string on Monday morning. Will Cir biocide and packer fluid on Monday to kill well. - SITP 10 PSI. SICP 0 PSI. Nabors RU to flow back tank. Blow down tbg. TIH w/140 Jts 2-3/8" tbg 09:00 - Got thru tight spot@9,006' FS. TIH w/334 2-3/8" tbg, Tag @ 10,680' FS. 10:30 - Drilling hard look like we are top of pump bit sub. Up 5' and Cir @ 5 BPM @ 1.200 Psi w/500 water.. - 06:30 - Safety meeting with Nabors well ser and Weatherford. Discussion on emergency phone numbers, driving on roads, pinch points, PPE and the right to stop work for safety reasons and PPE. Talk about TIH w/Mill and tbg and clean out to PBTD.

Daily Cost: \$0

Cumulative Cost: \$1,374,403

8/6/2012 Day: 23

Completion

Nabors #1420 on 8/6/2012 - POOH w/Tbg & 6-5/8" Mill, PU & TIH w/2-3/8" tbg w/Gas lift mandrel - ND BOP, NU Production head w/BPV. 18:00 Pressure test Production to 9,500 Psi. Good test. Release pressure. 19:00 - RU Cameron lubricator and pull BPV. 19:30 - Pump Down tbg @ 5 BPM @ 1200 PSI. pump total 60 BPW. 20:00 Shut well in. Turn wel over to Poduction dept - Total tbg in hole RIH w/ pump out plug 2-3/8" x .50", 1 " 2-3/8" X 4.10" tubing sub, 1- 2-3/8" XN profile nipple, 1- 2-3/8" x 4.13" tubing sub, XO, 7' Weatherford Arrow Set Packer, off and on tool, 1 jt 2 3/8 tubing, X nipple 1 -2-3/8" x4" Gas Lift Mandrel. 19 -JNTS 2-3/8" TBG, 1- 2-3/8" X 4" GLM, 15 -JNTS 2- 3/8" TBG, 1- 2-3/8" X 4" GLM, 19 "JNT 2-3/8" TBG, 1- 2-3/8" x 4" GLM 16 " JNT 2-3/8" TBG, 1-2-3/8" X 4" GLM 16 " JNT 2-3/8" TBG, 1-2-3/8" X 4" GLM 16 " JNT 2-3/8" TBG, 1-2-3/8" X 4" GLM 26 " JNT 2-3/8" TBG, 1-2-3/8" X 4" GLM 38 " JNT 2-3/8" TBG, 1-2-3/8" X 4" GLM 52 " JNT 2-3/8" TBG, 1-2-3/8" X 4" GLM 65 " JNT 2-3/8" TBG, 1- 2-3/8" x 8" tbg sub, 1- 2-3/8" x 4" tbg sub, 1- 2-3/8" jt tbg, Land Tbg hanger w/BPV EOT @ 8,554' FS. Packer set @ 8,536' FS. On off toll @ 8,534' Total tbg 266 Jts 2-3/8" 6.5# L-80. - 06:30 - Safety meeting with Nabors well ser and Weatherford. Discussion on emergency phone numbers, driving on roads, pinch points, PPE and the right to stop work for safety reasons and PPE. Talk about POH w/tbg and LD Mill. PU & TIH w/tbg and Gas lift mandrel - 07:00 " SITP 400 Psi. SICP 400 PSI. Blow down casing. Start pump down tbg w/400 BPW w/Biocide and packer fluid @ 5 BPM @ 1200 PSI . 08:30 " POOH w/268 jts 2-3/8" tbg w/Bit sub and 3-5/8" mill 11:30 " PU & TIH w/Weatherford 7" arrow set packer and Gas lift Mandrel 14:00 " RIH w/ pump out plug, 1 " 2-3/8" X 4' tubing sub, 1-XN profile nipple, 1- 4' x 2-3/8" tubing sub, XO, 7' Weatherford Arrow Set Packer, off and on tool, 1 jt 2 3/8 tubing, X nipple 1 -2-3/8" x4" Gas Lift Mandrel. Run a total of 125 jts. With 7 gas mandrels. Had to shut down due to fluid coming out of tubing. RU to tubing and pumped 15 bbls of treated water. After 35 min of shut in, tubing dead. Will proceed running the rest of gas mandrels and tubing in hole unless we experience further problems.

Daily Cost: \$0

Cumulative Cost: \$1,409,679

8/19/2012 Day: 24**Completion**

Nabors #1420 on 8/19/2012 - Cost adjustments in DCR - Cost adjustments in DCR

Daily Cost: \$0**Cumulative Cost:** \$1,416,668

9/2/2012 Day: 25**Completion**

Nabors #1420 on 9/2/2012 - Enter final costs in DCR - Enter final costs in DCR

Daily Cost: \$0**Cumulative Cost:** \$1,429,222

Pertinent Files: [Go to File List](#)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL
DR. MAY 10 2010
MBS 10-03
Bairns Jul 1 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. Fee (Private)

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
Emerald Phoenix 15-31-2-1W

9. AFI Well No.
43-013-51290

10. Field and Pool or Exploratory
UNDESIGNATED

11. Sec., T., R., M., on Block and Survey or Area
SEC. 31, T2S, R1W

12. County or Parish
DUCHESNE

13. State
UT

14. Date Spudded
04/18/2012

15. Date T.D. Reached
05/27/2012

16. Date Completed
08/06/2012
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
5119' GL 5137' KB

18. Total Depth: MD 10868'
TVD 10762.5'

19. Plug Back T.D.: MD 10649'
TVD 10646'

20. Depth Bridge Plug Set: MD
TVD

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

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

2. Name of Operator
NEWFIELD EXPLORATION COMPANY

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

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

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface 366' FSL & 2039' FEL (SW/SE) SEC. 31, T2S, R1W
At top prod. interval reported below 1219' FSL & 2019' FEL (SW/SE) SEC. 31, T2S, R1W
At total depth 1173' FSL & 2044' FEL (SW/SE) SEC. 31, T2S, R1W **BHL by HSM**

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" | 9-5/8" K-55 | 36# | 0 | 1063' | | 500 CLASS "G" | | | |
| 8-3/4" | 7" P-110 | 26# | 0 | 8888' | | 235 ECONOCE | | 4108' | |
| | | | | | | 1005 VERSACE | | | |
| 6-1/8" | 4-1/2" P-110 | 11.6# | 8424' | 10876' | | 175 ECONOCE | | | |

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@ 8554' | Arrow Set @ 8537' | | | | | | |

25. Producing Intervals

| Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|----------------|-------|--------|---------------------|------|-----------|--------------|
| A) Green River | 8960' | 10167' | 8960-10167' | .34" | 333 | |
| B) | | | | | | |
| C) | | | | | | |
| D) | | | | | | |

26. Perforation Record

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

| Depth Interval | Amount and Type of Material |
|----------------|---|
| 9970-10167' | Frac w/ 109417#s 20/40 white sand and 12000#s 20/40 TLC, in 2497 bbls of Lightning 17 fluid, in 1 stage. |
| 9066- 9910' | Frac w/ 406094#s 20/40 white sand and 46233#s 20/40 TLC, in 8716 bbls of Lightning 17 fluid, in 4 stages. |
| 8960-8969' | Frac w/ 43236#s 20/40 whit sand and 21439#s 20/40 TLC, in 1474 bbls Lightning 40 fluid, in 1 stage. |

28. Production - Interval A

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| 7/3/12 | 8/14/12 | 24 | → | 77 | 36 | 57 | | | Gas Lift System |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status | |
| | | | → | | | | | 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)

RECEIVED
OCT 24 2012
DIV. OF OIL, GAS & MINING

28b. Production - Interval C

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

28c. Production - Interval D

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

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

SOLD AND USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

GEOLOGICAL MARKERS

| Formation | Top | Bottom | Descriptions, Contents, etc. | Name | Top |
|-------------|-------|--------|------------------------------|--------------------------------|----------------|
| | | | | | Meas. Depth |
| GREEN RIVER | 8960' | 10167' | | GREEN RIVER EPA MAHOGANY BENCH | 4156' 6301' |
| | | | | GARDEN GULCH WASATCH | 7443' 9446' |
| | | | | TF40 RB | 10537' |

32. Additional remarks (include plugging procedure):

The above well began producing during the completion process, on 07/03/2012. Production continued until 08/04/2012 when a gas lift system was installed. Test data was taken ten days later, on 08/14/2012.

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

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

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Jennifer Peatross Title Production Technician
 Signature  Date 10/15/2012

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

NEWFIELD

NEWFIELD EXPLORATION

USGS Myton SW (UT)

SECTION 31 T2S, R1W

Emerald Phoenix 15-31-2-1W

Wellbore #1

Design: Actual

Standard Survey Report

23 May, 2012





| | | | |
|------------------|----------------------------|-------------------------------------|------------------------------------|
| Company: | NEWFIELD EXPLORATION | Local Co-ordinate Reference: | Well Emerald Phoenix 15-31-2-1W |
| Project: | USGS Myton SW (UT) | TVD Reference: | 15-31-2-1W @ 5137.3ft (Pioneer 69) |
| Site: | SECTION 31 T2S, R1W | MD Reference: | 15-31-2-1W @ 5137.3ft (Pioneer 69) |
| Well: | Emerald Phoenix 15-31-2-1W | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Actual | Database: | EDM 2003.21 Single User Db |

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

| | | | | | |
|------------------------------|---------------------|---------------------|-----------------|--------------------------|------------------|
| Site | SECTION 31 T2S, R1W | | | | |
| Site Position: | | Northing: | 7,268,829.47 ft | Latitude: | 40° 15' 56.426 N |
| From: | Map | Easting: | 2,048,160.16 ft | Longitude: | 110° 2' 19.575 W |
| Position Uncertainty: | 0.0 ft | Slot Radius: | " | Grid Convergence: | 0.94 ° |

| | | | | | | |
|-----------------------------|--|--------|----------------------------|-----------------|----------------------|------------------|
| Well | Emerald Phoenix 15-31-2-1W, SHL LAT: 40 15 34.59 LONG: -110 02 12.30 | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 7,266,629.46 ft | Latitude: | 40° 15' 34.590 N |
| | +E/-W | 0.0 ft | Easting: | 2,048,760.16 ft | Longitude: | 110° 2' 12.300 W |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | 5,137.3 ft | Ground Level: | 5,119.3 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 5/7/2012 | 11.22 | 65.95 | 52,305 |

| | | | | | |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|-----|
| Design | Actual | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) | |
| | 0.0 | 0.0 | 0.0 | 337.99 | |

| | | | | | |
|-----------------------|----------------|--------------------------|------------------|--------------------|--|
| Survey Program | Date 5/23/2012 | | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 1,073.0 | 10,821.0 | Survey #1 (Wellbore #1) | MWD | MWD - Standard | |

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,073.0 | 0.30 | 188.80 | 1,073.0 | -2.8 | -0.4 | -2.4 | 0.03 | 0.03 | 0.00 |
| 1,104.0 | 0.44 | 204.80 | 1,104.0 | -3.0 | -0.5 | -2.6 | 0.56 | 0.45 | 52.26 |
| 1,135.0 | 1.08 | 196.90 | 1,135.0 | -3.4 | -0.6 | -2.9 | 2.09 | 2.06 | -25.48 |
| 1,166.0 | 1.85 | 205.20 | 1,166.0 | -4.1 | -0.9 | -3.4 | 2.57 | 2.48 | 26.77 |
| 1,197.0 | 2.40 | 210.70 | 1,197.0 | -5.1 | -1.5 | -4.2 | 1.89 | 1.77 | 17.74 |
| 1,228.0 | 3.12 | 207.20 | 1,227.9 | -6.4 | -2.2 | -5.1 | 2.38 | 2.32 | -11.29 |
| 1,259.0 | 3.65 | 218.60 | 1,258.9 | -7.9 | -3.2 | -6.2 | 2.76 | 1.71 | 36.77 |
| 1,290.0 | 4.37 | 219.70 | 1,289.8 | -9.6 | -4.5 | -7.2 | 2.34 | 2.32 | 3.55 |
| 1,321.0 | 4.77 | 227.60 | 1,320.7 | -11.4 | -6.3 | -8.2 | 2.40 | 1.29 | 25.48 |
| 1,352.0 | 4.60 | 234.70 | 1,351.6 | -13.0 | -8.2 | -8.9 | 1.95 | -0.55 | 22.90 |
| 1,383.0 | 4.38 | 245.60 | 1,382.5 | -14.2 | -10.3 | -9.3 | 2.84 | -0.71 | 35.16 |
| 1,414.0 | 4.24 | 253.40 | 1,413.4 | -15.0 | -12.5 | -9.2 | 1.94 | -0.45 | 25.16 |



Company: NEWFIELD EXPLORATION
 Project: USGS Myton SW (UT)
 Site: SECTION 31 T2S, R1W
 Well: Emerald Phoenix 15-31-2-1W
 Wellbore: Wellbore #1
 Design: Actual

Local Co-ordinate Reference: Well Emerald Phoenix 15-31-2-1W
 TVD Reference: 15-31-2-1W @ 5137.3ft (Pioneer 69)
 MD Reference: 15-31-2-1W @ 5137.3ft (Pioneer 69)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.21 Single User Db

Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 1,445.0 | 4.54 | 264.80 | 1,444.3 | -15.4 | -14.8 | -8.8 | 2.97 | 0.97 | 36.77 |
| 1,476.0 | 4.76 | 279.00 | 1,475.2 | -15.3 | -17.3 | -7.7 | 3.77 | 0.71 | 45.81 |
| 1,507.0 | 5.08 | 285.60 | 1,506.1 | -14.8 | -19.9 | -6.2 | 2.10 | 1.03 | 21.29 |
| 1,538.0 | 5.09 | 291.70 | 1,537.0 | -13.9 | -22.5 | -4.5 | 1.74 | 0.03 | 19.68 |
| 1,569.0 | 5.51 | 300.87 | 1,567.9 | -12.6 | -25.0 | -2.3 | 3.05 | 1.35 | 29.58 |
| 1,600.0 | 5.70 | 313.90 | 1,598.7 | -10.8 | -27.4 | 0.3 | 4.14 | 0.61 | 42.03 |
| 1,631.0 | 5.08 | 322.63 | 1,629.6 | -8.6 | -29.4 | 3.0 | 3.31 | -2.00 | 28.16 |
| 1,662.0 | 4.47 | 331.52 | 1,660.5 | -6.5 | -30.8 | 5.5 | 3.09 | -1.97 | 28.68 |
| 1,693.0 | 5.32 | 344.43 | 1,691.3 | -4.0 | -31.7 | 8.2 | 4.47 | 2.74 | 41.65 |
| 1,724.0 | 6.38 | 351.73 | 1,722.2 | -0.9 | -32.4 | 11.3 | 4.17 | 3.42 | 23.55 |
| 1,755.0 | 6.96 | 359.21 | 1,753.0 | 2.6 | -32.7 | 14.7 | 3.37 | 1.87 | 24.13 |
| 1,786.0 | 7.14 | 7.24 | 1,783.7 | 6.4 | -32.4 | 18.1 | 3.23 | 0.58 | 25.90 |
| 1,817.0 | 8.02 | 11.78 | 1,814.5 | 10.5 | -31.8 | 21.6 | 3.43 | 2.84 | 14.65 |
| 1,848.0 | 8.90 | 12.40 | 1,845.1 | 14.9 | -30.8 | 25.4 | 2.85 | 2.84 | 2.00 |
| 1,879.0 | 10.08 | 12.99 | 1,875.7 | 19.9 | -29.7 | 29.6 | 3.82 | 3.81 | 1.90 |
| 1,910.0 | 10.85 | 14.29 | 1,906.2 | 25.4 | -28.3 | 34.1 | 2.60 | 2.48 | 4.19 |
| 1,941.0 | 11.73 | 16.75 | 1,936.6 | 31.2 | -26.7 | 39.0 | 3.24 | 2.84 | 7.94 |
| 1,972.0 | 12.61 | 16.84 | 1,966.9 | 37.5 | -24.8 | 44.0 | 2.84 | 2.84 | 0.29 |
| 2,003.0 | 13.71 | 16.22 | 1,997.1 | 44.2 | -22.8 | 49.6 | 3.58 | 3.55 | -2.00 |
| 2,034.0 | 14.06 | 15.70 | 2,027.2 | 51.4 | -20.8 | 55.4 | 1.20 | 1.13 | -1.68 |
| 2,066.0 | 14.89 | 14.29 | 2,058.2 | 59.1 | -18.7 | 61.8 | 2.82 | 2.59 | -4.41 |
| 2,097.0 | 15.33 | 13.24 | 2,088.1 | 67.0 | -16.8 | 68.4 | 1.67 | 1.42 | -3.39 |
| 2,128.0 | 15.33 | 11.74 | 2,118.0 | 75.0 | -15.0 | 75.1 | 1.28 | 0.00 | -4.84 |
| 2,159.0 | 15.64 | 9.90 | 2,147.9 | 83.1 | -13.5 | 82.1 | 1.87 | 1.00 | -5.94 |
| 2,189.0 | 15.82 | 8.14 | 2,176.7 | 91.1 | -12.2 | 89.1 | 1.70 | 0.60 | -5.87 |
| 2,221.0 | 15.73 | 4.45 | 2,207.5 | 99.8 | -11.2 | 96.7 | 3.15 | -0.28 | -11.53 |
| 2,254.0 | 15.20 | 359.79 | 2,239.3 | 108.6 | -10.9 | 104.7 | 4.09 | -1.61 | -14.12 |
| 2,285.0 | 14.32 | 358.91 | 2,269.3 | 116.5 | -11.0 | 112.1 | 2.93 | -2.84 | -2.84 |
| 2,314.0 | 14.15 | 358.38 | 2,297.4 | 123.6 | -11.2 | 118.8 | 0.74 | -0.59 | -1.83 |
| 2,345.0 | 14.15 | 358.80 | 2,327.5 | 131.2 | -11.3 | 125.8 | 0.33 | 0.00 | 1.35 |
| 2,376.0 | 14.23 | 358.03 | 2,357.5 | 138.8 | -11.6 | 133.0 | 0.66 | 0.26 | -2.48 |
| 2,407.0 | 14.63 | 358.80 | 2,387.6 | 146.5 | -11.8 | 140.2 | 1.43 | 1.29 | 2.48 |
| 2,438.0 | 14.50 | 359.88 | 2,417.6 | 154.3 | -11.9 | 147.5 | 0.97 | -0.42 | 3.48 |
| 2,469.0 | 14.28 | 0.67 | 2,447.6 | 162.0 | -11.8 | 154.6 | 0.95 | -0.71 | 2.55 |
| 2,500.0 | 14.10 | 1.11 | 2,477.6 | 169.6 | -11.7 | 161.6 | 0.68 | -0.58 | 1.42 |
| 2,531.0 | 14.28 | 1.55 | 2,507.7 | 177.2 | -11.5 | 168.6 | 0.68 | 0.58 | 1.42 |
| 2,562.0 | 14.23 | 1.72 | 2,537.7 | 184.8 | -11.3 | 175.6 | 0.21 | -0.16 | 0.55 |
| 2,593.0 | 14.45 | 1.02 | 2,567.8 | 192.5 | -11.1 | 182.6 | 0.90 | 0.71 | -2.26 |
| 2,624.0 | 14.67 | 0.05 | 2,597.8 | 200.3 | -11.1 | 189.8 | 1.06 | 0.71 | -3.13 |
| 2,655.0 | 14.67 | 0.32 | 2,627.8 | 208.1 | -11.0 | 197.1 | 0.22 | 0.00 | 0.87 |
| 2,686.0 | 14.89 | 1.37 | 2,657.7 | 216.0 | -10.9 | 204.4 | 1.12 | 0.71 | 3.39 |
| 2,717.0 | 15.02 | 2.25 | 2,687.7 | 224.0 | -10.7 | 211.7 | 0.84 | 0.42 | 2.84 |
| 2,749.0 | 15.33 | 2.25 | 2,718.6 | 232.4 | -10.3 | 219.3 | 0.97 | 0.97 | 0.00 |
| 2,779.0 | 15.33 | 1.11 | 2,747.5 | 240.3 | -10.1 | 226.6 | 1.00 | 0.00 | -3.80 |
| 2,810.0 | 15.29 | 0.79 | 2,777.4 | 248.5 | -10.0 | 234.1 | 0.30 | -0.13 | -1.03 |
| 2,841.0 | 15.33 | 0.49 | 2,807.3 | 256.7 | -9.9 | 241.7 | 0.29 | 0.13 | -0.97 |
| 2,873.0 | 15.24 | 1.20 | 2,838.2 | 265.1 | -9.7 | 249.4 | 0.65 | -0.28 | 2.22 |
| 2,904.0 | 14.80 | 2.69 | 2,868.1 | 273.2 | -9.5 | 256.8 | 1.89 | -1.42 | 4.81 |
| 2,935.0 | 14.80 | 3.13 | 2,898.1 | 281.1 | -9.1 | 264.0 | 0.36 | 0.00 | 1.42 |
| 2,965.0 | 15.38 | 1.90 | 2,927.1 | 288.9 | -8.7 | 271.1 | 2.21 | 1.93 | -4.10 |
| 2,996.0 | 15.73 | 1.37 | 2,956.9 | 297.2 | -8.5 | 278.7 | 1.22 | 1.13 | -1.71 |
| 3,027.0 | 16.04 | 1.72 | 2,986.7 | 305.7 | -8.3 | 286.5 | 1.05 | 1.00 | 1.13 |
| 3,059.0 | 16.69 | 3.13 | 3,017.4 | 314.7 | -7.9 | 294.7 | 2.38 | 2.03 | 4.41 |
| 3,089.0 | 16.74 | 2.87 | 3,046.2 | 323.3 | -7.4 | 302.5 | 0.30 | 0.17 | -0.87 |



Company: NEWFIELD EXPLORATION
 Project: USGS Myton SW (UT)
 Site: SECTION 31 T2S, R1W
 Well: Emerald Phoenix 15-31-2-1W
 Wellbore: Wellbore #1
 Design: Actual

Local Co-ordinate Reference: Well Emerald Phoenix 15-31-2-1W
 TVD Reference: 15-31-2-1W @ 5137.3ft (Pioneer 69)
 MD Reference: 15-31-2-1W @ 5137.3ft (Pioneer 69)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.21 Single User Db

Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 3,120.0 | 17.05 | 2.95 | 3,075.8 | 332.3 | -7.0 | 310.7 | 1.00 | 1.00 | 0.26 |
| 3,151.0 | 17.31 | 2.60 | 3,105.5 | 341.4 | -6.5 | 319.0 | 0.90 | 0.84 | -1.13 |
| 3,182.0 | 15.82 | 2.07 | 3,135.2 | 350.3 | -6.2 | 327.0 | 4.83 | -4.81 | -1.71 |
| 3,213.0 | 16.04 | 1.20 | 3,165.0 | 358.8 | -5.9 | 334.8 | 1.05 | 0.71 | -2.81 |
| 3,244.0 | 16.04 | 0.93 | 3,194.8 | 367.3 | -5.8 | 342.7 | 0.24 | 0.00 | -0.87 |
| 3,275.0 | 15.78 | 0.58 | 3,224.6 | 375.8 | -5.7 | 350.5 | 0.89 | -0.84 | -1.13 |
| 3,306.0 | 15.77 | 0.58 | 3,254.4 | 384.2 | -5.6 | 358.3 | 0.03 | -0.03 | 0.00 |
| 3,337.0 | 15.46 | 0.23 | 3,284.3 | 392.6 | -5.5 | 366.0 | 1.05 | -1.00 | -1.13 |
| 3,368.0 | 15.20 | 1.20 | 3,314.2 | 400.8 | -5.4 | 373.6 | 1.18 | -0.84 | 3.13 |
| 3,399.0 | 15.07 | 2.87 | 3,344.1 | 408.9 | -5.1 | 381.0 | 1.47 | -0.42 | 5.39 |
| 3,430.0 | 14.32 | 3.22 | 3,374.1 | 416.7 | -4.7 | 388.1 | 2.44 | -2.42 | 1.13 |
| 3,461.0 | 13.84 | 3.22 | 3,404.1 | 424.3 | -4.3 | 394.9 | 1.55 | -1.55 | 0.00 |
| 3,492.0 | 13.79 | 1.20 | 3,434.3 | 431.6 | -4.0 | 401.7 | 1.56 | -0.16 | -6.52 |
| 3,523.0 | 13.75 | 0.67 | 3,464.4 | 439.0 | -3.9 | 408.5 | 0.43 | -0.13 | -1.71 |
| 3,554.0 | 13.27 | 1.63 | 3,494.5 | 446.3 | -3.7 | 415.1 | 1.71 | -1.55 | 3.10 |
| 3,585.0 | 13.13 | 1.28 | 3,524.7 | 453.3 | -3.6 | 421.6 | 0.52 | -0.45 | -1.13 |
| 3,616.0 | 13.53 | 1.37 | 3,554.8 | 460.5 | -3.4 | 428.2 | 1.29 | 1.29 | 0.29 |
| 3,647.0 | 13.57 | 1.28 | 3,585.0 | 467.8 | -3.2 | 434.9 | 0.15 | 0.13 | -0.29 |
| 3,678.0 | 13.79 | 1.37 | 3,615.1 | 475.1 | -3.0 | 441.6 | 0.71 | 0.71 | 0.29 |
| 3,709.0 | 13.93 | 1.55 | 3,645.2 | 482.5 | -2.9 | 448.4 | 0.47 | 0.45 | 0.58 |
| 3,740.0 | 14.23 | 1.11 | 3,675.3 | 490.0 | -2.7 | 455.3 | 1.03 | 0.97 | -1.42 |
| 3,771.0 | 14.28 | 1.02 | 3,705.3 | 497.7 | -2.5 | 462.4 | 0.18 | 0.16 | -0.29 |
| 3,802.0 | 14.58 | 1.28 | 3,735.3 | 505.4 | -2.4 | 469.5 | 0.99 | 0.97 | 0.84 |
| 3,833.0 | 14.89 | 1.20 | 3,765.3 | 513.3 | -2.2 | 476.7 | 1.00 | 1.00 | -0.26 |
| 3,864.0 | 15.29 | 0.84 | 3,795.3 | 521.4 | -2.1 | 484.1 | 1.33 | 1.29 | -1.16 |
| 3,895.0 | 14.98 | 0.40 | 3,825.2 | 529.4 | -2.0 | 491.6 | 1.07 | -1.00 | -1.42 |
| 3,926.0 | 14.28 | 1.11 | 3,855.2 | 537.3 | -1.9 | 498.8 | 2.33 | -2.26 | 2.29 |
| 3,956.0 | 14.28 | 1.72 | 3,884.2 | 544.7 | -1.7 | 505.6 | 0.50 | 0.00 | 2.03 |
| 3,986.0 | 14.28 | 1.02 | 3,913.3 | 552.1 | -1.5 | 512.4 | 0.58 | 0.00 | -2.33 |
| 4,018.0 | 12.99 | 1.02 | 3,944.4 | 559.6 | -1.4 | 519.3 | 4.03 | -4.03 | 0.00 |
| 4,049.0 | 12.39 | 2.60 | 3,974.7 | 566.4 | -1.2 | 525.6 | 2.24 | -1.94 | 5.10 |
| 4,080.0 | 12.34 | 3.13 | 4,004.9 | 573.0 | -0.8 | 531.6 | 0.40 | -0.16 | 1.71 |
| 4,111.0 | 13.05 | 2.95 | 4,035.2 | 579.8 | -0.5 | 537.8 | 2.29 | 2.29 | -0.58 |
| 4,142.0 | 13.40 | 2.25 | 4,065.4 | 586.9 | -0.2 | 544.2 | 1.24 | 1.13 | -2.26 |
| 4,173.0 | 13.18 | 1.28 | 4,095.5 | 594.1 | 0.1 | 550.7 | 1.01 | -0.71 | -3.13 |
| 4,204.0 | 13.97 | 2.34 | 4,125.7 | 601.3 | 0.3 | 557.4 | 2.67 | 2.55 | 3.42 |
| 4,235.0 | 13.97 | 0.14 | 4,155.7 | 608.8 | 0.5 | 564.3 | 1.71 | 0.00 | -7.10 |
| 4,266.0 | 13.22 | 356.50 | 4,185.9 | 616.1 | 0.2 | 571.1 | 3.67 | -2.42 | -11.74 |
| 4,297.0 | 12.34 | 353.60 | 4,216.1 | 622.9 | -0.3 | 577.6 | 3.51 | -2.84 | -9.35 |
| 4,328.0 | 11.51 | 352.32 | 4,246.4 | 629.3 | -1.1 | 583.8 | 2.81 | -2.68 | -4.13 |
| 4,359.0 | 11.60 | 353.20 | 4,276.8 | 635.4 | -1.9 | 589.8 | 0.64 | 0.29 | 2.84 |
| 4,390.0 | 11.20 | 355.31 | 4,307.2 | 641.5 | -2.5 | 595.7 | 1.86 | -1.29 | 6.81 |
| 4,421.0 | 11.07 | 354.78 | 4,337.6 | 647.5 | -3.0 | 601.4 | 0.53 | -0.42 | -1.71 |
| 4,452.0 | 11.07 | 355.66 | 4,368.0 | 653.4 | -3.5 | 607.1 | 0.55 | 0.00 | 2.84 |
| 4,483.0 | 11.07 | 357.94 | 4,398.5 | 659.4 | -3.9 | 612.8 | 1.41 | 0.00 | 7.35 |
| 4,514.0 | 10.85 | 2.95 | 4,428.9 | 665.3 | -3.8 | 618.2 | 3.15 | -0.71 | 16.16 |
| 4,545.0 | 10.67 | 8.40 | 4,459.4 | 671.0 | -3.3 | 623.3 | 3.33 | -0.58 | 17.58 |
| 4,576.0 | 10.89 | 11.13 | 4,489.8 | 676.7 | -2.3 | 628.2 | 1.79 | 0.71 | 8.81 |
| 4,607.0 | 10.85 | 11.74 | 4,520.3 | 682.5 | -1.1 | 633.1 | 0.39 | -0.13 | 1.97 |
| 4,638.0 | 11.33 | 11.39 | 4,550.7 | 688.3 | 0.1 | 638.1 | 1.56 | 1.55 | -1.13 |
| 4,669.0 | 11.73 | 11.39 | 4,581.0 | 694.4 | 1.3 | 643.3 | 1.29 | 1.29 | 0.00 |
| 4,700.0 | 12.26 | 10.42 | 4,611.4 | 700.7 | 2.5 | 648.7 | 1.83 | 1.71 | -3.13 |
| 4,731.0 | 12.12 | 9.40 | 4,641.7 | 707.1 | 3.7 | 654.2 | 0.83 | -0.45 | -3.29 |
| 4,762.0 | 12.04 | 8.20 | 4,672.0 | 713.6 | 4.6 | 659.8 | 0.85 | -0.26 | -3.87 |



Company: NEWFIELD EXPLORATION
 Project: USGS Myton SW (UT)
 Site: SECTION 31 T2S, R1W
 Well: Emerald Phoenix 15-31-2-1W
 Wellbore: Wellbore #1
 Design: Actual

Local Co-ordinate Reference: Well Emerald Phoenix 15-31-2-1W
 TVD Reference: 15-31-2-1W @ 5137.3ft (Pioneer 69)
 MD Reference: 15-31-2-1W @ 5137.3ft (Pioneer 69)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.21 Single User Db

Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N-S (ft) | +E-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|-----------|-----------|-----------------------|-----------------------|----------------------|---------------------|
| 4,793.0 | 11.60 | 7.08 | 4,702.3 | 719.8 | 5.5 | 665.3 | 1.60 | -1.42 | -3.61 |
| 4,824.0 | 11.11 | 5.59 | 4,732.7 | 725.9 | 6.2 | 670.7 | 1.84 | -1.58 | -4.81 |
| 4,855.0 | 10.50 | 4.30 | 4,763.2 | 731.7 | 6.7 | 675.9 | 2.12 | -1.97 | -4.16 |
| 4,886.0 | 9.66 | 4.10 | 4,793.7 | 737.1 | 7.1 | 680.7 | 2.71 | -2.71 | -0.65 |
| 4,916.0 | 9.05 | 3.00 | 4,823.3 | 742.0 | 7.4 | 685.1 | 2.12 | -2.03 | -3.67 |
| 4,948.0 | 8.39 | 1.20 | 4,854.9 | 746.8 | 7.5 | 689.6 | 2.23 | -2.06 | -5.63 |
| 4,978.0 | 7.86 | 0.93 | 4,884.6 | 751.1 | 7.6 | 693.5 | 1.77 | -1.77 | -0.90 |
| 5,009.0 | 7.38 | 1.63 | 4,915.3 | 755.2 | 7.7 | 697.2 | 1.58 | -1.55 | 2.26 |
| 5,040.0 | 7.25 | 2.34 | 4,946.1 | 759.1 | 7.9 | 700.8 | 0.51 | -0.42 | 2.29 |
| 5,071.0 | 6.81 | 5.77 | 4,976.9 | 762.9 | 8.1 | 704.2 | 1.96 | -1.42 | 11.06 |
| 5,102.0 | 7.21 | 7.35 | 5,007.6 | 766.7 | 8.6 | 707.6 | 1.43 | 1.29 | 5.10 |
| 5,133.0 | 7.73 | 6.21 | 5,038.4 | 770.7 | 9.0 | 711.1 | 1.74 | 1.68 | -3.68 |
| 5,164.0 | 7.82 | 7.26 | 5,069.1 | 774.8 | 9.5 | 714.8 | 0.54 | 0.29 | 3.39 |
| 5,195.0 | 8.08 | 5.68 | 5,099.8 | 779.1 | 10.0 | 718.5 | 1.10 | 0.84 | -5.10 |
| 5,226.0 | 7.82 | 3.83 | 5,130.5 | 783.4 | 10.4 | 722.4 | 1.18 | -0.84 | -5.97 |
| 5,257.0 | 8.04 | 2.43 | 5,161.2 | 787.6 | 10.6 | 726.2 | 0.94 | 0.71 | -4.52 |
| 5,288.0 | 8.04 | 1.72 | 5,191.9 | 792.0 | 10.7 | 730.2 | 0.32 | 0.00 | -2.29 |
| 5,319.0 | 8.08 | 0.76 | 5,222.6 | 796.3 | 10.8 | 734.2 | 0.45 | 0.13 | -3.10 |
| 5,350.0 | 7.60 | 3.57 | 5,253.3 | 800.5 | 11.0 | 738.1 | 1.98 | -1.55 | 9.06 |
| 5,381.0 | 6.59 | 355.40 | 5,284.1 | 804.4 | 11.0 | 741.6 | 4.60 | -3.26 | -26.35 |
| 5,412.0 | 5.80 | 351.09 | 5,314.9 | 807.7 | 10.6 | 744.8 | 2.96 | -2.55 | -13.90 |
| 5,443.0 | 5.58 | 351.26 | 5,345.7 | 810.7 | 10.1 | 747.8 | 0.71 | -0.71 | 0.55 |
| 5,474.0 | 5.53 | 351.88 | 5,376.6 | 813.7 | 9.7 | 750.7 | 0.25 | -0.16 | 2.00 |
| 5,505.0 | 4.92 | 347.31 | 5,407.4 | 816.5 | 9.2 | 753.5 | 2.38 | -1.97 | -14.74 |
| 5,536.0 | 4.65 | 348.80 | 5,438.3 | 819.0 | 8.6 | 756.0 | 0.96 | -0.87 | 4.81 |
| 5,567.0 | 4.48 | 358.74 | 5,469.2 | 821.4 | 8.4 | 758.4 | 2.61 | -0.55 | 32.06 |
| 5,598.0 | 4.96 | 6.47 | 5,500.1 | 824.0 | 8.5 | 760.7 | 2.57 | 1.55 | 24.94 |
| 5,629.0 | 4.74 | 12.97 | 5,531.0 | 826.5 | 8.9 | 762.9 | 1.91 | -0.71 | 20.97 |
| 5,661.0 | 5.36 | 10.07 | 5,562.9 | 829.3 | 9.5 | 765.3 | 2.09 | 1.94 | -9.06 |
| 5,692.0 | 6.02 | 8.50 | 5,593.7 | 832.3 | 10.0 | 767.9 | 2.19 | 2.13 | -5.06 |
| 5,723.0 | 6.59 | 4.10 | 5,624.6 | 835.7 | 10.4 | 770.9 | 2.41 | 1.84 | -14.19 |
| 5,754.0 | 6.50 | 4.80 | 5,655.4 | 839.2 | 10.6 | 774.1 | 0.39 | -0.29 | 2.26 |
| 5,785.0 | 6.10 | 5.00 | 5,686.2 | 842.6 | 10.9 | 777.1 | 1.29 | -1.29 | 0.65 |
| 5,816.0 | 5.80 | 3.13 | 5,717.0 | 845.8 | 11.2 | 780.0 | 1.15 | -0.97 | -6.03 |
| 5,847.0 | 4.43 | 352.85 | 5,747.9 | 848.6 | 11.1 | 782.6 | 5.30 | -4.42 | -33.16 |
| 5,878.0 | 3.64 | 349.77 | 5,778.8 | 850.8 | 10.8 | 784.7 | 2.64 | -2.55 | -9.94 |
| 5,909.0 | 2.94 | 347.92 | 5,809.7 | 852.5 | 10.4 | 786.4 | 2.28 | -2.26 | -5.97 |
| 5,940.0 | 1.80 | 342.40 | 5,840.7 | 853.7 | 10.1 | 787.7 | 3.75 | -3.68 | -17.81 |
| 5,971.0 | 1.27 | 348.95 | 5,871.7 | 854.5 | 9.9 | 788.5 | 1.80 | -1.71 | 21.13 |
| 6,002.0 | 1.09 | 347.75 | 5,902.7 | 855.2 | 9.8 | 789.2 | 0.59 | -0.58 | -3.87 |
| 6,033.0 | 2.50 | 2.69 | 5,933.7 | 856.1 | 9.7 | 790.1 | 4.75 | 4.55 | 48.19 |
| 6,064.0 | 2.54 | 335.36 | 5,964.7 | 857.4 | 9.5 | 791.4 | 3.84 | 0.13 | -88.16 |
| 6,095.0 | 3.03 | 334.21 | 5,995.6 | 858.8 | 8.8 | 792.9 | 1.59 | 1.58 | -3.71 |
| 6,126.0 | 3.99 | 337.29 | 6,026.6 | 860.5 | 8.1 | 794.8 | 3.15 | 3.10 | 9.94 |
| 6,157.0 | 5.00 | 348.01 | 6,057.5 | 862.8 | 7.4 | 797.2 | 4.22 | 3.26 | 34.58 |
| 6,188.0 | 5.66 | 350.65 | 6,088.3 | 865.7 | 6.8 | 800.0 | 2.27 | 2.13 | 8.52 |
| 6,219.0 | 6.06 | 349.77 | 6,119.2 | 868.8 | 6.3 | 803.1 | 1.32 | 1.29 | -2.84 |
| 6,250.0 | 5.75 | 346.78 | 6,150.0 | 871.9 | 5.7 | 806.2 | 1.41 | -1.00 | -9.65 |
| 6,281.0 | 5.71 | 346.78 | 6,180.9 | 874.9 | 5.0 | 809.3 | 0.13 | -0.13 | 0.00 |
| 6,311.0 | 5.40 | 345.64 | 6,210.7 | 877.7 | 4.3 | 812.2 | 1.10 | -1.03 | -3.80 |
| 6,342.0 | 5.44 | 348.80 | 6,241.6 | 880.6 | 3.6 | 815.1 | 0.97 | 0.13 | 10.19 |
| 6,373.0 | 5.09 | 352.76 | 6,272.4 | 883.4 | 3.2 | 817.8 | 1.63 | -1.13 | 12.77 |
| 6,404.0 | 4.87 | 1.28 | 6,303.3 | 886.1 | 3.0 | 820.4 | 2.49 | -0.71 | 27.48 |
| 6,435.0 | 4.21 | 13.59 | 6,334.2 | 888.5 | 3.3 | 822.5 | 3.78 | -2.13 | 39.71 |



Company: NEWFIELD EXPLORATION
 Project: USGS Myton SW (UT)
 Site: SECTION 31 T2S, R1W
 Well: Emerald Phoenix 15-31-2-1W
 Wellbore: Wellbore #1
 Design: Actual

Local Co-ordinate Reference: Well Emerald Phoenix 15-31-2-1W
 TVD Reference: 15-31-2-1W @ 5137.3ft (Pioneer 69)
 MD Reference: 15-31-2-1W @ 5137.3ft (Pioneer 69)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.21 Single User Db

Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|-----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 6,466.0 | 4.21 | 13.06 | 6,365.1 | 890.7 | 3.8 | 824.4 | 0.13 | 0.00 | -1.71 |
| 6,497.0 | 3.38 | 13.24 | 6,396.1 | 892.7 | 4.3 | 826.0 | 2.68 | -2.68 | 0.58 |
| 6,528.0 | 2.76 | 8.75 | 6,427.0 | 894.3 | 4.6 | 827.4 | 2.14 | -2.00 | -14.48 |
| 6,559.0 | 2.15 | 8.05 | 6,458.0 | 895.7 | 4.8 | 828.6 | 1.97 | -1.97 | -2.26 |
| 6,590.0 | 1.93 | 1.72 | 6,489.0 | 896.8 | 4.9 | 829.5 | 1.01 | -0.71 | -20.42 |
| 6,621.0 | 1.50 | 359.70 | 6,520.0 | 897.7 | 4.9 | 830.4 | 1.40 | -1.39 | -6.52 |
| 6,652.0 | 1.27 | 341.60 | 6,551.0 | 898.4 | 4.8 | 831.1 | 1.58 | -0.74 | -58.39 |
| 6,745.0 | 0.96 | 300.11 | 6,643.9 | 899.8 | 3.8 | 832.8 | 0.90 | -0.33 | -44.61 |
| 6,838.0 | 1.20 | 292.70 | 6,736.9 | 900.6 | 2.2 | 834.1 | 0.30 | 0.26 | -7.97 |
| 6,900.8 | 1.35 | 268.85 | 6,799.7 | 900.8 | 0.9 | 834.8 | 0.87 | 0.24 | -37.95 |
| 15-31-2-1W TGT | | | | | | | | | |
| 6,931.0 | 1.49 | 259.86 | 6,829.9 | 900.7 | 0.2 | 835.0 | 0.87 | 0.46 | -29.81 |
| 7,023.0 | 1.40 | 237.70 | 6,921.9 | 899.9 | -2.0 | 835.0 | 0.61 | -0.10 | -24.09 |
| 7,116.0 | 1.40 | 218.50 | 7,014.8 | 898.4 | -3.6 | 834.3 | 0.50 | 0.00 | -20.65 |
| 7,209.0 | 2.00 | 205.80 | 7,107.8 | 896.1 | -5.1 | 832.6 | 0.76 | 0.65 | -13.66 |
| 7,302.0 | 2.10 | 206.20 | 7,200.7 | 893.1 | -6.5 | 830.4 | 0.11 | 0.11 | 0.43 |
| 7,395.0 | 1.00 | 215.50 | 7,293.7 | 890.9 | -7.7 | 828.8 | 1.21 | -1.18 | 10.00 |
| 7,488.0 | 1.20 | 211.30 | 7,386.7 | 889.4 | -8.7 | 827.8 | 0.23 | 0.22 | -4.52 |
| 7,581.0 | 1.80 | 201.70 | 7,479.7 | 887.2 | -9.8 | 826.2 | 0.70 | 0.65 | -10.32 |
| 7,673.0 | 2.10 | 213.20 | 7,571.6 | 884.4 | -11.2 | 824.2 | 0.53 | 0.33 | 12.50 |
| 7,766.0 | 2.20 | 213.30 | 7,664.5 | 881.5 | -13.1 | 822.2 | 0.11 | 0.11 | 0.11 |
| 7,860.0 | 1.93 | 193.90 | 7,758.5 | 878.5 | -14.5 | 819.9 | 0.79 | -0.29 | -20.64 |
| 7,953.0 | 2.29 | 183.70 | 7,851.4 | 875.1 | -15.0 | 816.9 | 0.56 | 0.39 | -10.97 |
| 8,046.0 | 1.23 | 177.40 | 7,944.4 | 872.3 | -15.1 | 814.3 | 1.16 | -1.14 | -6.77 |
| 8,139.0 | 1.85 | 187.80 | 8,037.3 | 869.8 | -15.2 | 812.1 | 0.73 | 0.67 | 11.18 |
| 8,232.0 | 1.58 | 169.50 | 8,130.3 | 867.0 | -15.2 | 809.5 | 0.65 | -0.29 | -19.68 |
| 8,325.0 | 2.00 | 159.80 | 8,223.3 | 864.2 | -14.4 | 806.6 | 0.56 | 0.45 | -10.43 |
| 8,418.0 | 1.10 | 155.40 | 8,316.2 | 861.9 | -13.5 | 804.1 | 0.98 | -0.97 | -4.73 |
| 8,511.0 | 1.10 | 192.20 | 8,409.2 | 860.2 | -13.3 | 802.5 | 0.75 | 0.00 | 39.57 |
| 8,603.0 | 1.10 | 215.10 | 8,501.2 | 858.6 | -14.0 | 801.3 | 0.47 | 0.00 | 24.89 |
| 8,697.0 | 1.80 | 214.20 | 8,595.2 | 856.7 | -15.3 | 800.0 | 0.75 | 0.74 | -0.96 |
| 8,790.0 | 1.00 | 250.20 | 8,688.1 | 855.2 | -16.9 | 799.2 | 1.24 | -0.86 | 38.71 |
| 8,866.0 | 1.00 | 212.00 | 8,764.1 | 854.4 | -17.9 | 798.8 | 0.86 | 0.00 | -50.26 |
| 8,992.0 | 1.14 | 240.10 | 8,890.1 | 852.8 | -19.6 | 798.0 | 0.43 | 0.11 | 22.30 |
| 9,087.0 | 1.06 | 213.63 | 8,985.1 | 851.6 | -20.9 | 797.4 | 0.54 | -0.08 | -27.86 |
| 9,182.0 | 1.23 | 195.97 | 9,080.1 | 849.9 | -21.6 | 796.1 | 0.41 | 0.18 | -18.59 |
| 9,278.0 | 1.76 | 198.78 | 9,176.0 | 847.5 | -22.4 | 794.2 | 0.56 | 0.55 | 2.93 |
| 9,371.0 | 1.76 | 183.57 | 9,269.0 | 844.8 | -22.9 | 791.8 | 0.50 | 0.00 | -16.35 |
| 9,466.0 | 2.80 | 173.50 | 9,363.9 | 841.0 | -22.8 | 788.2 | 1.17 | 1.09 | -10.60 |
| 9,561.0 | 1.70 | 137.20 | 9,458.8 | 837.7 | -21.6 | 784.7 | 1.84 | -1.16 | -38.21 |
| 9,656.0 | 1.70 | 130.20 | 9,553.8 | 835.7 | -19.5 | 782.1 | 0.22 | 0.00 | -7.37 |
| 9,751.0 | 1.85 | 134.71 | 9,648.8 | 833.7 | -17.4 | 779.5 | 0.22 | 0.16 | 4.75 |
| 9,846.0 | 1.23 | 134.00 | 9,743.7 | 831.9 | -15.5 | 777.1 | 0.65 | -0.65 | -0.75 |
| 9,941.0 | 1.06 | 131.01 | 9,838.7 | 830.7 | -14.1 | 775.4 | 0.19 | -0.18 | -3.15 |
| 10,036.0 | 1.14 | 140.68 | 9,933.7 | 829.4 | -12.9 | 773.7 | 0.21 | 0.08 | 10.18 |
| 10,131.0 | 1.20 | 130.80 | 10,028.7 | 828.0 | -11.5 | 771.9 | 0.22 | 0.06 | -10.40 |
| 10,226.0 | 1.50 | 141.40 | 10,123.6 | 826.4 | -10.0 | 769.9 | 0.41 | 0.32 | 11.16 |
| 10,320.0 | 1.70 | 152.50 | 10,217.6 | 824.2 | -8.6 | 767.3 | 0.39 | 0.21 | 11.81 |
| 10,415.0 | 1.90 | 163.80 | 10,312.6 | 821.4 | -7.5 | 764.3 | 0.43 | 0.21 | 11.89 |
| 10,510.0 | 1.90 | 169.20 | 10,407.5 | 818.3 | -6.8 | 761.2 | 0.19 | 0.00 | 5.68 |
| 10,605.0 | 2.02 | 168.37 | 10,502.4 | 815.1 | -6.1 | 758.0 | 0.13 | 0.13 | -0.87 |
| 10,701.0 | 2.37 | 172.06 | 10,598.4 | 811.5 | -5.5 | 754.4 | 0.39 | 0.36 | 3.84 |
| 10,796.0 | 2.11 | 170.39 | 10,693.3 | 807.9 | -4.9 | 750.8 | 0.28 | -0.27 | -1.76 |
| 10,821.0 | 2.40 | 170.20 | 10,718.3 | 806.9 | -4.8 | 749.9 | 1.16 | 1.16 | -0.76 |

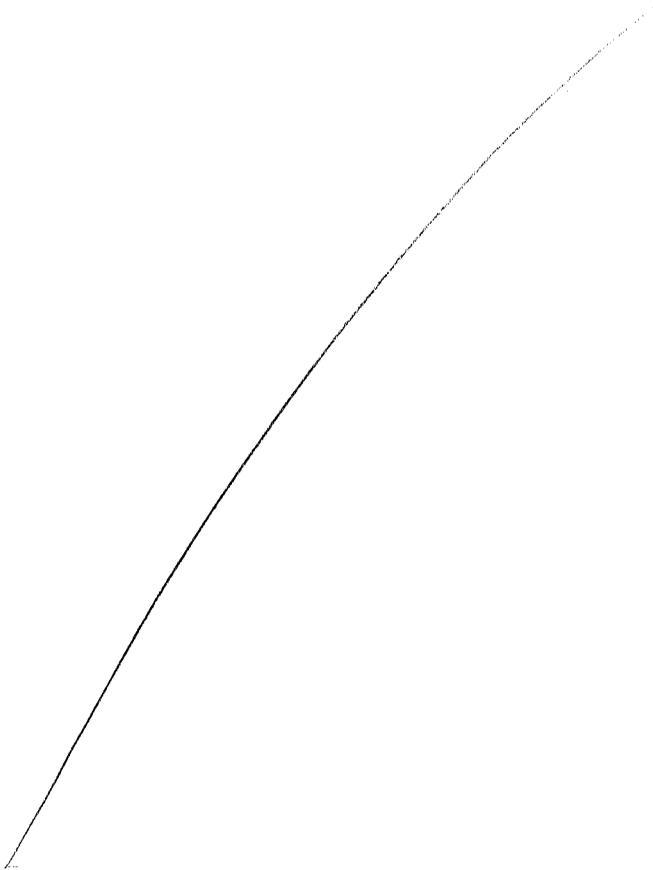


Payzone Directional Survey Report



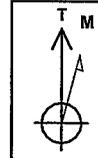
| | | | |
|------------------|----------------------------|-------------------------------------|------------------------------------|
| Company: | NEWFIELD EXPLORATION | Local Co-ordinate Reference: | Well Emerald Phoenix 15-31-2-1W |
| Project: | USGS Myton SW (UT) | TVD Reference: | 15-31-2-1W @ 5137.3ft (Pioneer 69) |
| Site: | SECTION 31 T2S, R1W | MD Reference: | 15-31-2-1W @ 5137.3ft (Pioneer 69) |
| Well: | Emerald Phoenix 15-31-2-1W | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Actual | Database: | EDM 2003.21 Single User Db |

| | | |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|

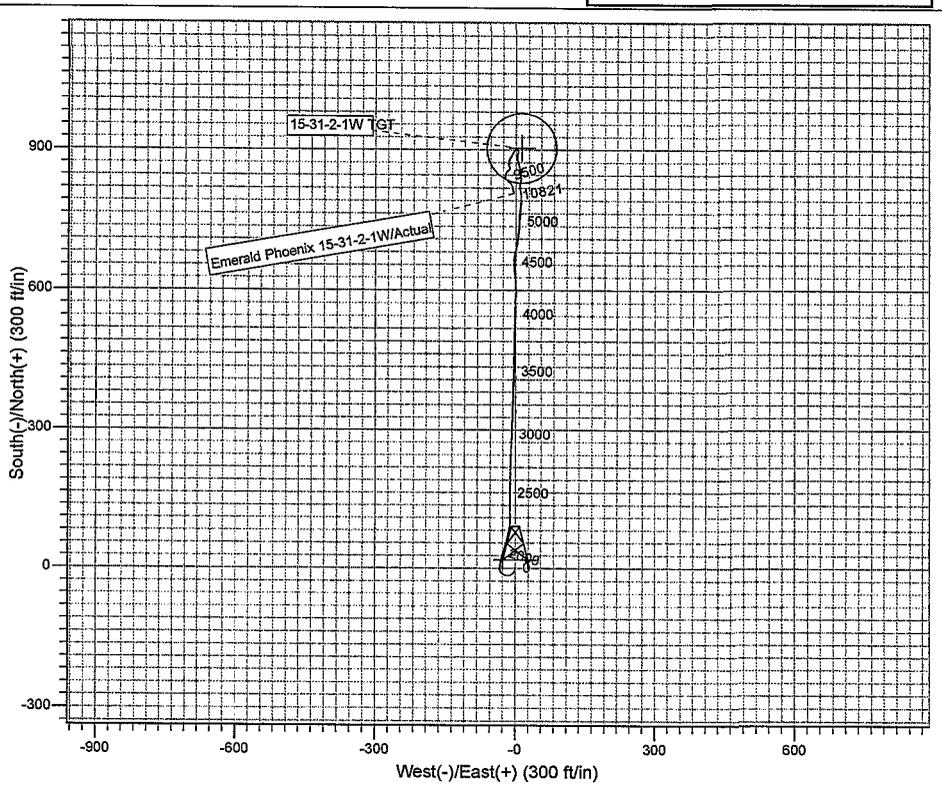
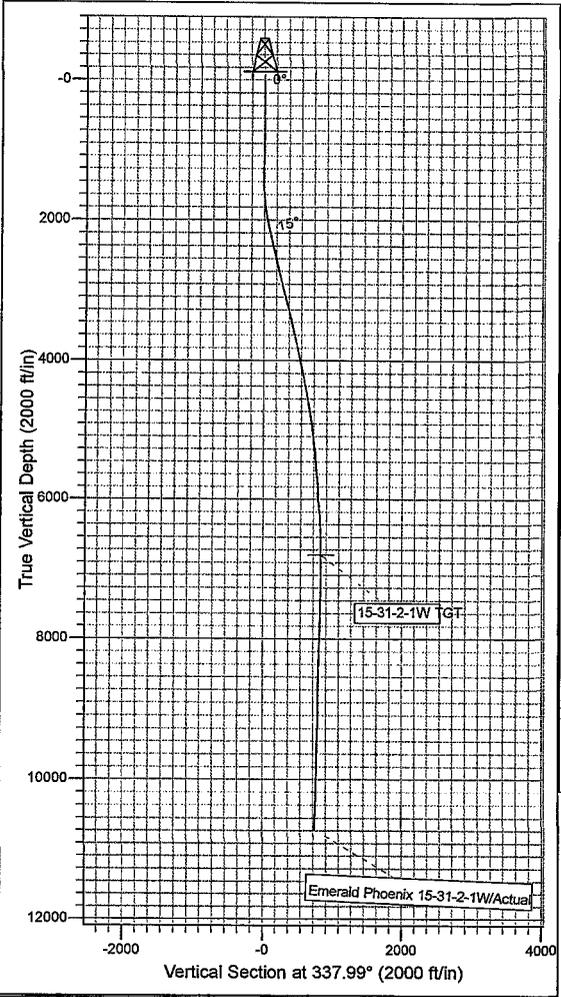




Project: USGS Myton SW (UT)
 Site: SECTION 31 T2S, R1W
 Well: Emerald Phoenix 15-31-2-1W
 Wellbore: Wellbore #1
 Design: Actual



Azimuths to True North
 Magnetic North: 11.22°
 Magnetic Field
 Strength: 52305.0snT
 Dip Angle: 65.95°
 Date: 5/7/2012
 Model: IGRF2010



Design: Actual (Emerald Phoenix 15-31-2-1W/Wellbore #1)
 Created By: Sarah Webb Date: 17:07, May 23 2012
 THIS SURVEY IS CORRECT TO THE BEST OF
 MY KNOWLEDGE AND IS SUPPORTED
 BY ACTUAL FIELD DATA

| 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: Patented | |
| | | 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: EMERALD PHOENIX 15-31-2-1W | |
| 3. ADDRESS OF OPERATOR: 1001 17th Street, Suite 2000 , Denver, CO, 80202 | | 9. API NUMBER: 43013512900000 | |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 0366 FSL 2039 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 31 Township: 02.0S Range: 01.0W Meridian: U | | 9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH | |
| | | 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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/29/2013 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date: | <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER | <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Site Facility/Site Security"/> |
| 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. | | | |
| SEE ATTACHED REVISED SITE FACILITY DIAGRAM | | | |
| Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 18, 2013 | | | |
| NAME (PLEASE PRINT) Jill L Loyle | PHONE NUMBER 303 383-4135 | TITLE Regulatory Technician | |
| SIGNATURE N/A | | DATE 10/29/2013 | |

NEWFIELD PRODUCTION COMPANY

EMERALD PHOENIX 15-31-2-1
SEC. 31 T2S R1W
DUCHESNE COUNTY, UTAH

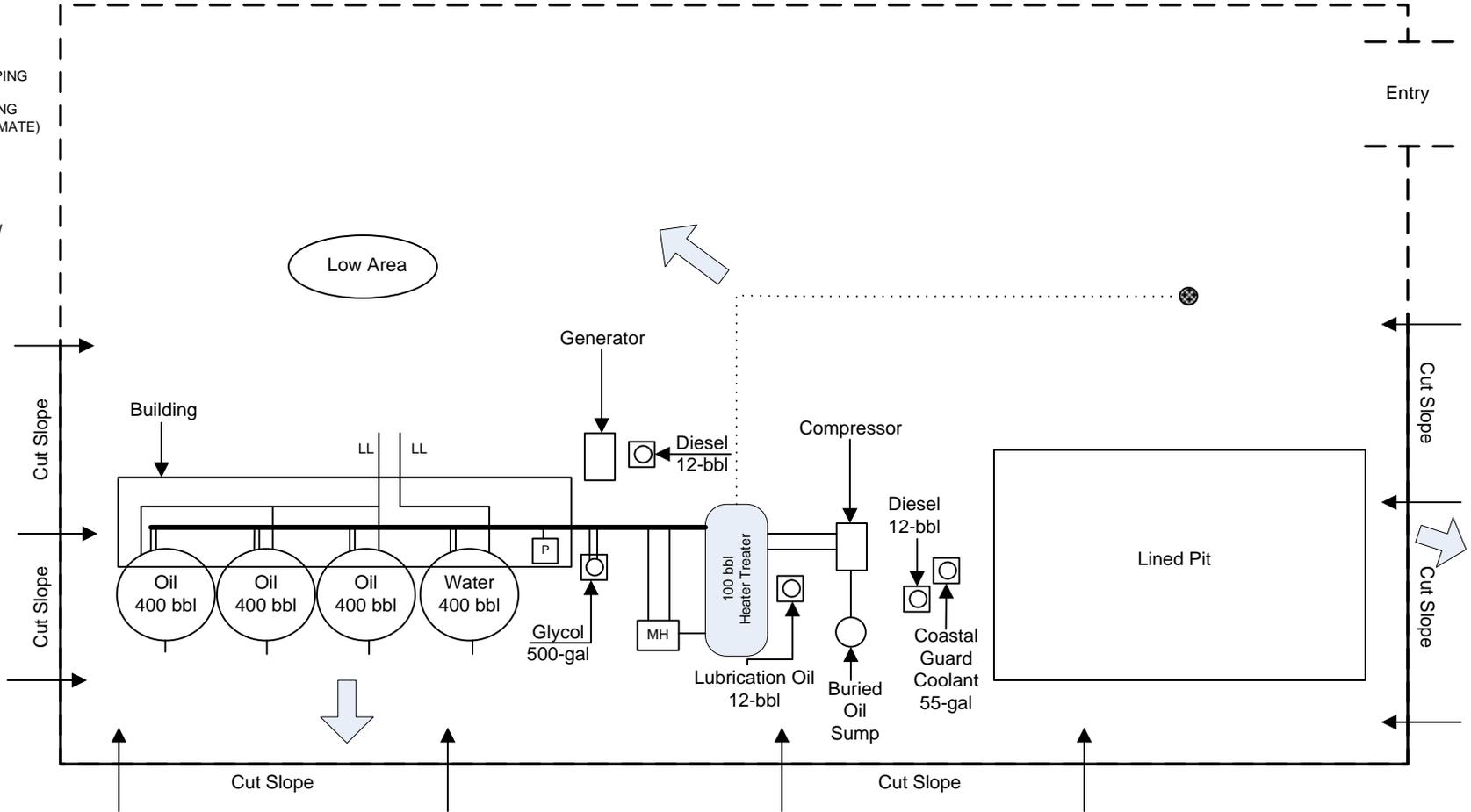


NOT TO SCALE

Dry Gulch Creek
0.46 mi

LEGEND

- FENCE
- - - BERM
- ABOVEGROUND PIPING
- UNDERGROUND PIPING (LOCATION APPROXIMATE)
- [MH] METER HOUSE
- ← DIRECTION OF FLOW
- bbbl BARREL(S)
- LL LOAD LINE
- ⊗ WELL HEAD
- [P] PUMP
- PIPING CONDUIT



ALL UNDERGROUND PIPING IS FOR
PROCESS FLOW DEMONSTRATION ONLY

