

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN

1a. TYPE OF WORK DRILL DEEPEN

1b. TYPE OF WELL

OIL GAS OTHER SINGLE ZONE MULTIPLE ZONE

5. LEASE DESIGNATION AND SERIAL NO.
ML-45555

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
Castle Draw

8. FARM OR LEASE NAME
Castle Draw

9. WELL NO.
Castle Draw State H-2-9-17

10. FIELD AND POOL OR WILDCAT
Monument Butte

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
**NE/NW
Sec. 2, T9S, R17E**

12. County
Uintah

13. STATE
UT

2. NAME OF OPERATOR
Newfield Production Company

3. ADDRESS AND TELEPHONE NUMBER:
Route #3 Box 3630, Myton, UT 84052 Phone: (435) 646-3721

4. LOCATION OF WELL (FOOTAGE)
At Surface **NE/NW 810' FNL 2209' FWL**
At proposed Producing Zone **1205' FNL 2615' FWL**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 15.6 miles southeast of Myton, UT

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) Approx. 1205' f/lse line and 1205' f/unit line	16. NO. OF ACRES IN LEASE 640.20	17. NO. OF ACRES ASSIGNED TO THIS WELL 20
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. Approximately 812' (Down Hole)	19. PROPOSED DEPTH 6090' 6120	20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5019' GL

22. APPROX. DATE WORK WILL START*
1st Quarter 2009

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24#	290'	155 sx +/- 10%
7 7/8	5 1/2	15.5#	TD	275 sx lead followed by 450 sx tail
See Detail Below				

DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give date on present productive zone and proposed new productive zone. If proposal is to drill, give depth, section, well, and pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

*The actual cement volumes will be calculated off of the open hole logs, plus 15% excess:

SURFACE PIPE - 155 sx Class G Cement +/- 10%, w/ 2% CaCl2 & 1/4#/sk Cello-flake
Weight: 15.8 PPG YIELD: 1.17 Cu Ft/sk H2O Req: 5 gal/sk

LONG STRING - Lead: Premium Lite II Cement + 3lbs/sk BA-90 + 3% KCl + .25 lbs/sk Cello Flake + 2 lbs/sk Kol Seal + 10% Bentonite + .5% Sodium Metasilicate
Weight: 11.0 PPG YIELD: 3.43 Cu Ft/sk H2O Req: 21.04 gal/sk

Tail: 50-50 Poz-Class G Cement + 3% KCl + .25 lbs/sk Cello Flake + 2% Bentonite + .3% Sodium Metasilicate
Weight: 14.2 PPG YIELD: 1.59 Cu Ft/sk H2O Req: 7.88 gal/sk

24. Name & Signature Mandie Crozier Title: Regulatory Specialist Date: 10/20/2008

(This space for State use only)

API Number Assigned: 430474041 APPROVAL: _____

Approved by the
Utah Division of
Oil, Gas and Mining

Sur f
587441X
4435271Y
40.06505D
-109.974684

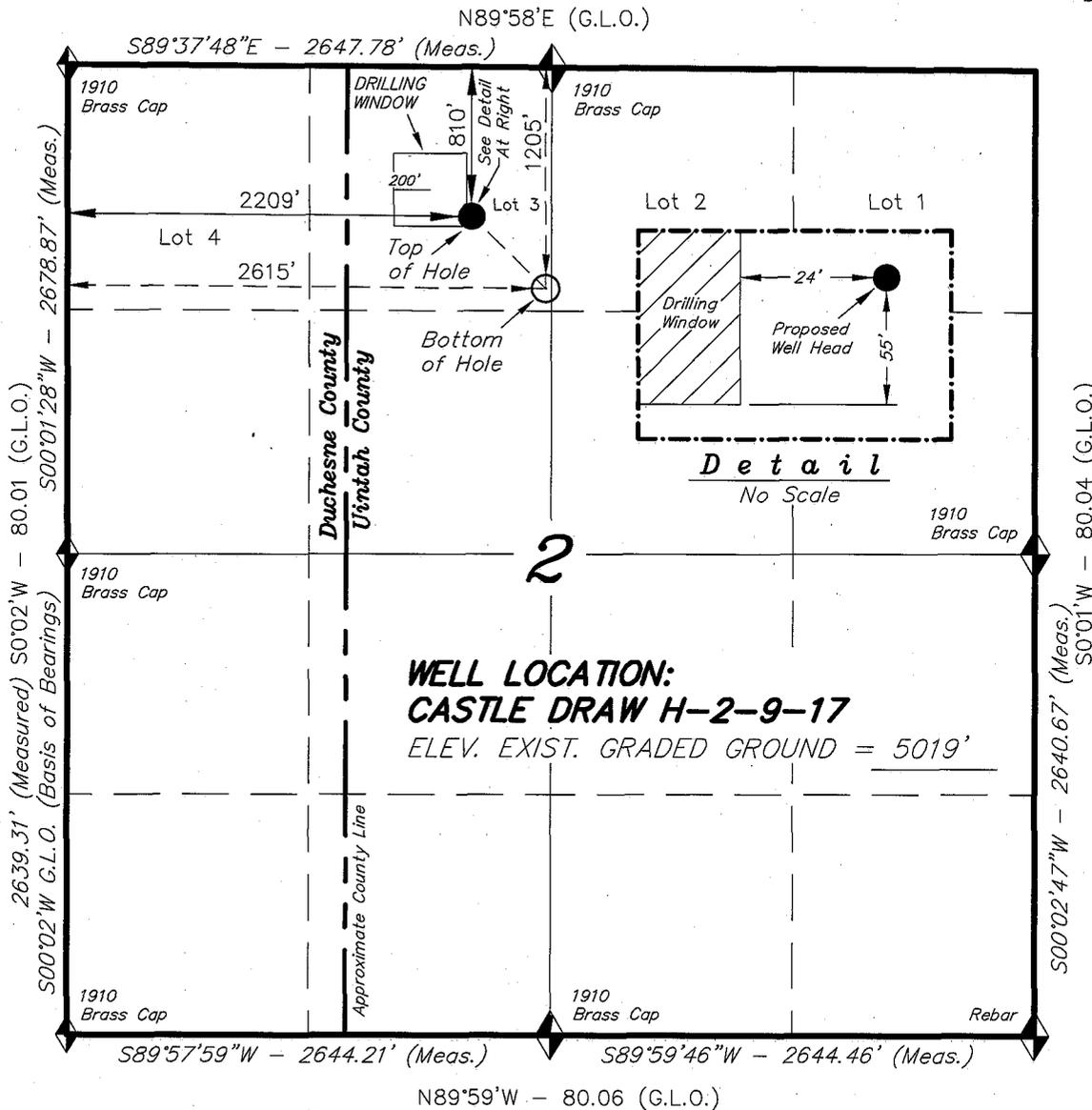
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-109.973231

Date: 01-21-09
By: [Signature]

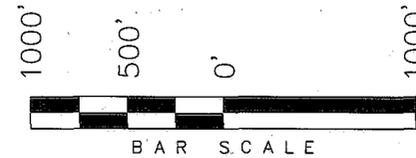
*See Instructions On Reverse Side

T9S, R17E, S.L.B.&M.

NEWFIELD PRODUCTION COMPANY



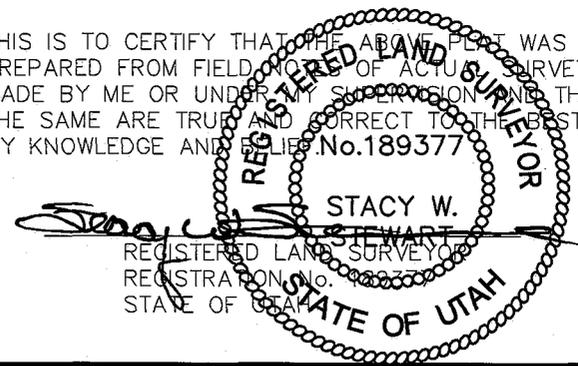
WELL LOCATION, CASTLE DRAW H-2-9-17,
LOCATED AS SHOWN IN THE NE 1/4 NW
1/4 (LOT 3) OF SECTION 2, T9S, R17E,
S.L.B.&M. UINTAH COUNTY, UTAH.



Note:

1. The Bottom of hole bears S45°32'11"E
568.23' from the Top of Hole.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS
PREPARED FROM FIELD BOOKS 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. No.189377



TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

DATE SURVEYED: 01-08-08	SURVEYED BY: T.H.
DATE DRAWN: 01-21-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

CASTLE DRAW H-2-9-17
(Surface Location) NAD 83
LATITUDE = 40° 03' 53.92"
LONGITUDE = 109° 58' 31.37"

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;
U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

NEWFIELD PRODUCTION COMPANY
CASTLE DRAW STATE H-2-9-17
NE/NW SECTION 2, T9S, R17E
UINTAH COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

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

Uinta	0 – 1396'
Green River	1396'
Wasatch	6090' 6120

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

Green River Formation 1396' – 6090' – Oil

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

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

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

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

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

4. **PROPOSED CASING PROGRAM:**

Surface Casing: 8-5/8" J-55 24# w/ST&C collars; set at 290' (New)
Production Casing: 5-1/2" J-55, 15.5# w/LT&C collars; set at TD (New or used, inspected).

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

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

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

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

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

From surface to ± 350 feet will be drilled with an air/mist system. From about 350 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite.

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

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

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

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

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

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

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

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 290' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBSD to cement top. No drill stem testing or coring is planned for this well.

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

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

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

It is anticipated that the drilling operations will commence the first quarter of 2009, and take approximately seven (7) days from spud to rig release.

NEWFIELD PRODUCTION COMPANY
CASTLE DRAW STATE H-2-9-17
NE/NW SECTION 2, T9S, R17E
UINTAH COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. EXISTING ROADS

See attached **Topographic Map "A"**

To reach Newfield Production Company well location site Castle Draw State H-2-9-17 located in the NE ¼ NW ¼ Section 2, T9S, R17E, S.L.B. & M., Uintah County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 11.7 miles ± to it's junction with an existing road to the northeast; proceed northeasterly - 1.4 miles ± to it's junction with an existing road to the southeast; proceed southeasterly - 0.6 miles ± to it's junction with an existing road to the northeast; proceed northeasterly - 0.5 miles ± the beginning of the access road to the existing 21-2-9-17 well location.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled off of the existing 21-2-9-17 well pad. See attached **Topographic Map "B"**.

There will be no new gates or cattle guards required.

3. LOCATION OF EXISTING WELLS

Refer to **EXHIBIT B**.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

The proposed well will be drilled directionally off of the existing 21-2-9-17 well pad. There will be a pumping unit and a short flow line added to the existing tank battery for the proposed H-2-9-17.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted Desert Tan. All facilities will be painted within six months of installation.

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

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District
Water Right: 43-7478

Neil Moon Pond
Water Right: 43-11787

Maurice Harvey Pond
Water Right: 47-1358

Newfield Collector Well
Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

The proposed Castle Draw State H-2-9-17 will be drilled off of the existing 21-2-9-17 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the

produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

8. **ANCILLARY FACILITIES:**

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

9. **WELL SITE LAYOUT:**

See attached Location Layout Sheet.

Fencing Requirements

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. **PLANS FOR RESTORATION OF SURFACE:**

a) **Producing Location**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) **Dry Hole Abandoned Location**

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP:** State of Utah

12. **OTHER ADDITIONAL INFORMATION:**

- a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.
- b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

Additional Surface Stipulations

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the Castle Draw State H-2-9-17, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the Castle Draw State H-2-9-17 Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

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

Representative

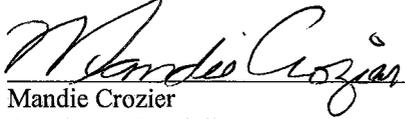
Name: Dave Allred
Address: Newfield Production Company
Route 3, Box 3630
Myton, UT 84052
Telephone: (435) 646-3721

Certification

Please be advised that Newfield Production Company is considered to be the operator of well #H-2-9-17, NE/NW Section 2, T9S, R17E, LEASE #ML-45555, Uintah County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4471291.

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

10/20/08
Date


Mandie Crozier
Regulatory Specialist
Newfield Production Company

NEWFIELD

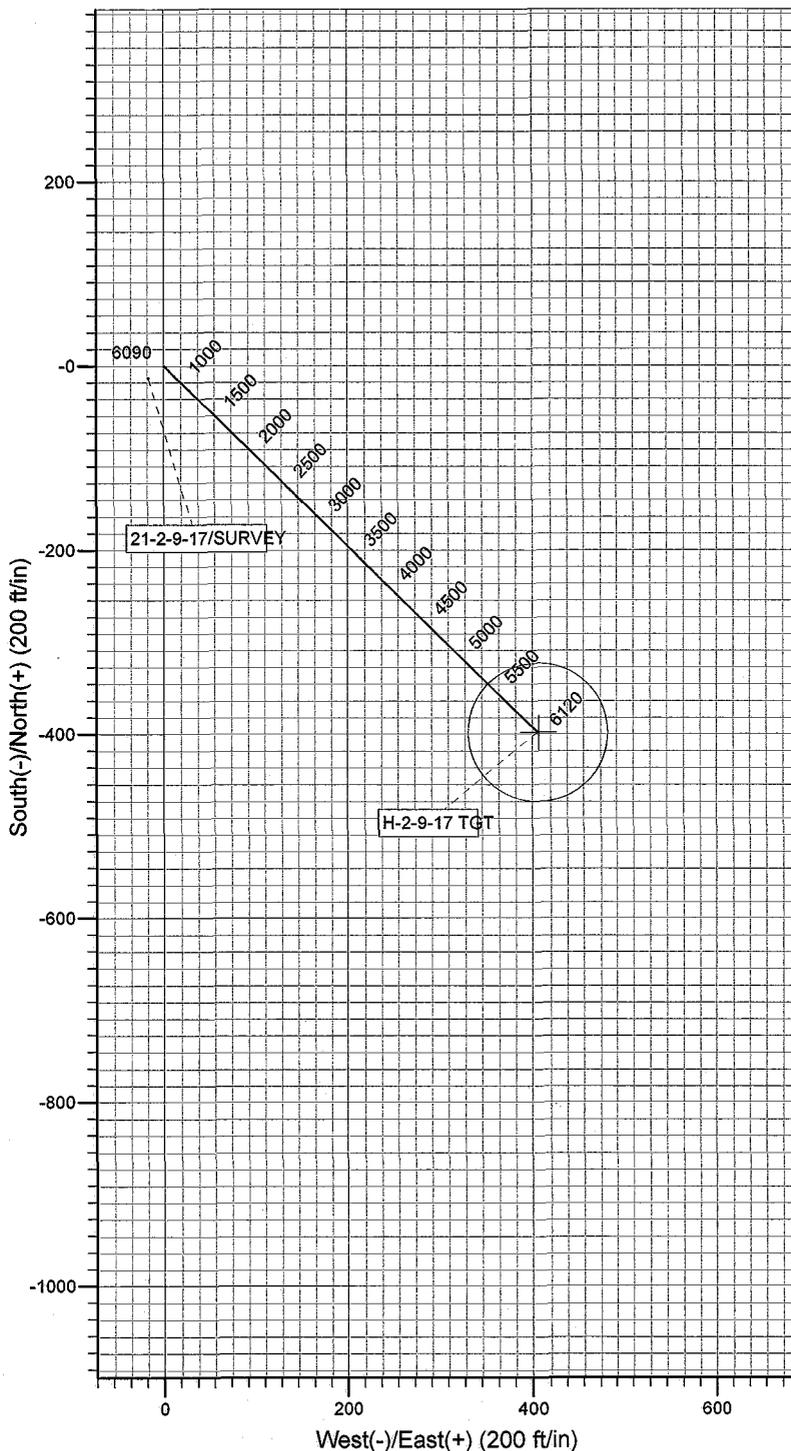
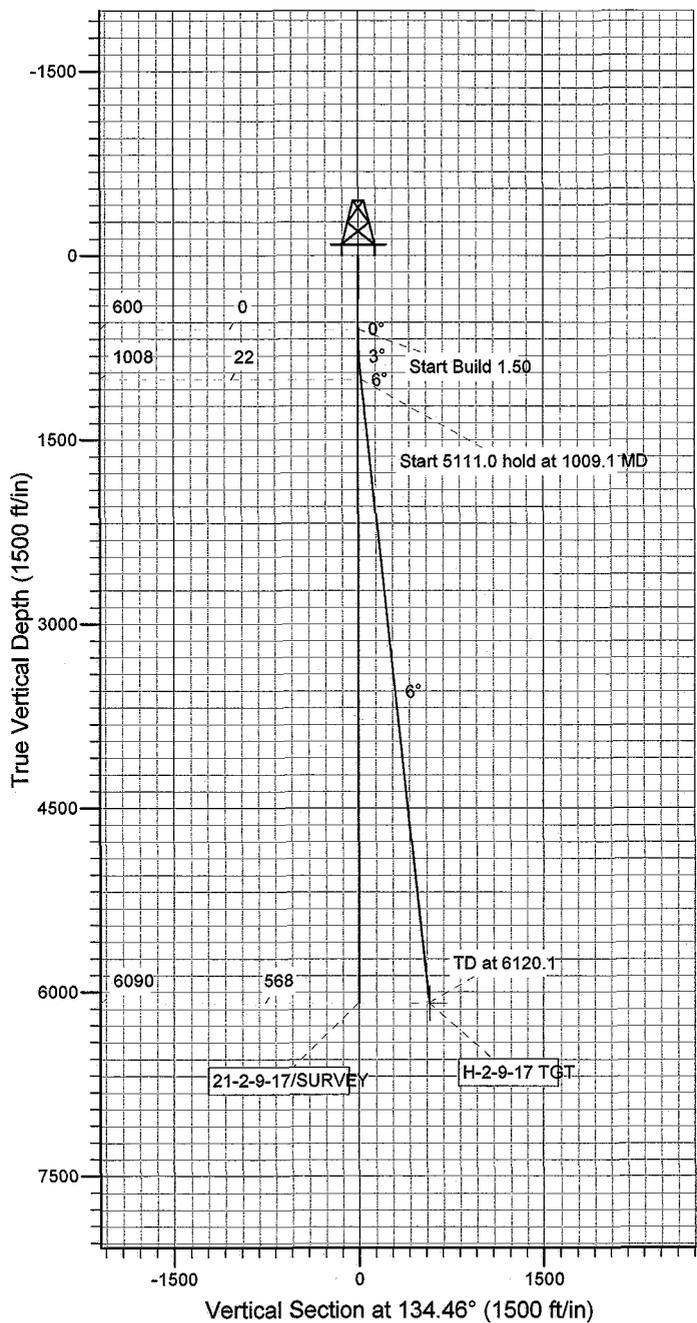
Project: USGS Myton SW (UT)
 Site: SECTION 2 T9S, R17E
 Well: H-2-9-17
 Wellbore: Wellbore #1
 Design: Design #1

KOP @ 600'
 DOGLEG RATE 1.5 DEG/100'
 TARGET RADIUS 75'



Azimuths to True North
 Magnetic North: 11.63°

Magnetic Field
 Strength: 52600.0snT
 Dip Angle: 65.91°
 Date: 8/28/2008
 Model: IGRF200510



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
H-2-9-17 TGT	6090.0	-398.0	405.6	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1009.1	6.14	134.46	1008.3	-15.3	15.6	1.50	134.46	21.9	
4	6120.1	6.14	134.46	6090.0	-398.0	405.6	0.00	0.00	568.2	H-2-9-17 TGT

HATHAWAY BURNHAM
 DIRECTIONAL & MWD SERVICES

NEWFIELD



NEWFIELD EXPLORATION

**USGS Myton SW (UT)
SECTION 2 T9S, R17E
H-2-9-17**

Wellbore #1

Plan: Design #1

Standard Planning Report

28 August, 2008

HATHAWAY HB BURNHAM
DIRECTIONAL & MWD SERVICES



Hathaway Burnham

Planning Report



Database: EDM 2003.21 Single User Db
Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 T9S, R17E
Well: H-2-9-17
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well H-2-9-17
TVD Reference: H-2-9-17 @ 5031.0ft
MD Reference: H-2-9-17 @ 5031.0ft
North Reference: True
Survey Calculation Method: Minimum Curvature

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		Using geodetic scale factor

Site	SECTION 2 T9S, R17E, SEC 2 T9S, R17E				
Site Position:		Northing:	7,194,800.00 ft	Latitude:	40° 3' 41.746 N
From:	Lat/Long	Easting:	2,067,293.09 ft	Longitude:	109° 58' 29.067 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.98 °

Well	H-2-9-17, SHL LAT: 40 03 53.92, LONG: -109 58 31.37					
Well Position	+N/-S	1,231.9 ft	Northing:	7,196,028.59 ft	Latitude:	40° 3' 53.920 N
	+E/-W	-179.0 ft	Easting:	2,067,093.09 ft	Longitude:	109° 58' 31.370 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	0.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	8/28/2008	11.63	65.91	52,600

Design Design #1

Audit Notes:

Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	134.46

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	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,009.1	6.14	134.46	1,008.3	-15.3	15.6	1.50	1.50	0.00	134.46	
6,120.1	6.14	134.46	6,090.0	-398.0	405.6	0.00	0.00	0.00	0.00	H-2-9-17 TGT



Hathaway Burnham

Planning Report



Database: EDM 2003.21 Single User Db
Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 T9S, R17E
Well: H-2-9-17
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well H-2-9-17
TVD Reference: H-2-9-17 @ 5031.0ft
MD Reference: H-2-9-17 @ 5031.0ft
North Reference: True
Survey Calculation Method: Minimum Curvature

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
50.0	0.00	0.00	50.0	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
150.0	0.00	0.00	150.0	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
250.0	0.00	0.00	250.0	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
350.0	0.00	0.00	350.0	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
450.0	0.00	0.00	450.0	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
550.0	0.00	0.00	550.0	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
650.0	0.75	134.46	650.0	-0.2	0.2	0.3	1.50	1.50	0.00
700.0	1.50	134.46	700.0	-0.9	0.9	1.3	1.50	1.50	0.00
750.0	2.25	134.46	750.0	-2.1	2.1	2.9	1.50	1.50	0.00
800.0	3.00	134.46	799.9	-3.7	3.7	5.2	1.50	1.50	0.00
850.0	3.75	134.46	849.8	-5.7	5.8	8.2	1.50	1.50	0.00
900.0	4.50	134.46	899.7	-8.2	8.4	11.8	1.50	1.50	0.00
950.0	5.25	134.46	949.5	-11.2	11.4	16.0	1.50	1.50	0.00
1,000.0	6.00	134.46	999.3	-14.7	14.9	20.9	1.50	1.50	0.00
1,009.1	6.14	134.46	1,008.3	-15.3	15.6	21.9	1.50	1.50	0.00
1,050.0	6.14	134.46	1,049.0	-18.4	18.7	26.3	0.00	0.00	0.00
1,100.0	6.14	134.46	1,098.7	-22.1	22.6	31.6	0.00	0.00	0.00
1,150.0	6.14	134.46	1,148.4	-25.9	26.4	36.9	0.00	0.00	0.00
1,200.0	6.14	134.46	1,198.1	-29.6	30.2	42.3	0.00	0.00	0.00
1,250.0	6.14	134.46	1,247.8	-33.4	34.0	47.6	0.00	0.00	0.00
1,300.0	6.14	134.46	1,297.6	-37.1	37.8	53.0	0.00	0.00	0.00
1,350.0	6.14	134.46	1,347.3	-40.9	41.6	58.3	0.00	0.00	0.00
1,400.0	6.14	134.46	1,397.0	-44.6	45.4	63.7	0.00	0.00	0.00
1,450.0	6.14	134.46	1,446.7	-48.3	49.3	69.0	0.00	0.00	0.00
1,500.0	6.14	134.46	1,496.4	-52.1	53.1	74.4	0.00	0.00	0.00
1,550.0	6.14	134.46	1,546.1	-55.8	56.9	79.7	0.00	0.00	0.00
1,600.0	6.14	134.46	1,595.8	-59.6	60.7	85.1	0.00	0.00	0.00
1,650.0	6.14	134.46	1,645.5	-63.3	64.5	90.4	0.00	0.00	0.00
1,700.0	6.14	134.46	1,695.3	-67.1	68.3	95.7	0.00	0.00	0.00
1,750.0	6.14	134.46	1,745.0	-70.8	72.1	101.1	0.00	0.00	0.00
1,800.0	6.14	134.46	1,794.7	-74.5	76.0	106.4	0.00	0.00	0.00
1,850.0	6.14	134.46	1,844.4	-78.3	79.8	111.8	0.00	0.00	0.00
1,900.0	6.14	134.46	1,894.1	-82.0	83.6	117.1	0.00	0.00	0.00
1,950.0	6.14	134.46	1,943.8	-85.8	87.4	122.5	0.00	0.00	0.00
2,000.0	6.14	134.46	1,993.5	-89.5	91.2	127.8	0.00	0.00	0.00
2,050.0	6.14	134.46	2,043.3	-93.3	95.0	133.2	0.00	0.00	0.00
2,100.0	6.14	134.46	2,093.0	-97.0	98.9	138.5	0.00	0.00	0.00
2,150.0	6.14	134.46	2,142.7	-100.8	102.7	143.8	0.00	0.00	0.00
2,200.0	6.14	134.46	2,192.4	-104.5	106.5	149.2	0.00	0.00	0.00
2,250.0	6.14	134.46	2,242.1	-108.2	110.3	154.5	0.00	0.00	0.00
2,300.0	6.14	134.46	2,291.8	-112.0	114.1	159.9	0.00	0.00	0.00
2,350.0	6.14	134.46	2,341.5	-115.7	117.9	165.2	0.00	0.00	0.00
2,400.0	6.14	134.46	2,391.2	-119.5	121.7	170.6	0.00	0.00	0.00
2,450.0	6.14	134.46	2,441.0	-123.2	125.6	175.9	0.00	0.00	0.00
2,500.0	6.14	134.46	2,490.7	-127.0	129.4	181.3	0.00	0.00	0.00
2,550.0	6.14	134.46	2,540.4	-130.7	133.2	186.6	0.00	0.00	0.00
2,600.0	6.14	134.46	2,590.1	-134.4	137.0	191.9	0.00	0.00	0.00



Hathaway Burnham

Planning Report



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Project: USGS Myton SW (UT)
Site: SECTION 2 T9S, R17E
Well: H-2-9-17
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well H-2-9-17
TVD Reference: H-2-9-17 @ 5031.0ft
MD Reference: H-2-9-17 @ 5031.0ft
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
2,650.0	6.14	134.46	2,639.8	-138.2	140.8	197.3	0.00	0.00	0.00
2,700.0	6.14	134.46	2,689.5	-141.9	144.6	202.6	0.00	0.00	0.00
2,750.0	6.14	134.46	2,739.2	-145.7	148.4	208.0	0.00	0.00	0.00
2,800.0	6.14	134.46	2,789.0	-149.4	152.3	213.3	0.00	0.00	0.00
2,850.0	6.14	134.46	2,838.7	-153.2	156.1	218.7	0.00	0.00	0.00
2,900.0	6.14	134.46	2,888.4	-156.9	159.9	224.0	0.00	0.00	0.00
2,950.0	6.14	134.46	2,938.1	-160.6	163.7	229.4	0.00	0.00	0.00
3,000.0	6.14	134.46	2,987.8	-164.4	167.5	234.7	0.00	0.00	0.00
3,050.0	6.14	134.46	3,037.5	-168.1	171.3	240.1	0.00	0.00	0.00
3,100.0	6.14	134.46	3,087.2	-171.9	175.1	245.4	0.00	0.00	0.00
3,150.0	6.14	134.46	3,137.0	-175.6	179.0	250.7	0.00	0.00	0.00
3,200.0	6.14	134.46	3,186.7	-179.4	182.8	256.1	0.00	0.00	0.00
3,250.0	6.14	134.46	3,236.4	-183.1	186.6	261.4	0.00	0.00	0.00
3,300.0	6.14	134.46	3,286.1	-186.9	190.4	266.8	0.00	0.00	0.00
3,350.0	6.14	134.46	3,335.8	-190.6	194.2	272.1	0.00	0.00	0.00
3,400.0	6.14	134.46	3,385.5	-194.3	198.0	277.5	0.00	0.00	0.00
3,450.0	6.14	134.46	3,435.2	-198.1	201.9	282.8	0.00	0.00	0.00
3,500.0	6.14	134.46	3,484.9	-201.8	205.7	288.2	0.00	0.00	0.00
3,550.0	6.14	134.46	3,534.7	-205.6	209.5	293.5	0.00	0.00	0.00
3,600.0	6.14	134.46	3,584.4	-209.3	213.3	298.8	0.00	0.00	0.00
3,650.0	6.14	134.46	3,634.1	-213.1	217.1	304.2	0.00	0.00	0.00
3,700.0	6.14	134.46	3,683.8	-216.8	220.9	309.5	0.00	0.00	0.00
3,750.0	6.14	134.46	3,733.5	-220.5	224.7	314.9	0.00	0.00	0.00
3,800.0	6.14	134.46	3,783.2	-224.3	228.6	320.2	0.00	0.00	0.00
3,850.0	6.14	134.46	3,832.9	-228.0	232.4	325.6	0.00	0.00	0.00
3,900.0	6.14	134.46	3,882.7	-231.8	236.2	330.9	0.00	0.00	0.00
3,950.0	6.14	134.46	3,932.4	-235.5	240.0	336.3	0.00	0.00	0.00
4,000.0	6.14	134.46	3,982.1	-239.3	243.8	341.6	0.00	0.00	0.00
4,050.0	6.14	134.46	4,031.8	-243.0	247.6	346.9	0.00	0.00	0.00
4,100.0	6.14	134.46	4,081.5	-246.7	251.4	352.3	0.00	0.00	0.00
4,150.0	6.14	134.46	4,131.2	-250.5	255.3	357.6	0.00	0.00	0.00
4,200.0	6.14	134.46	4,180.9	-254.2	259.1	363.0	0.00	0.00	0.00
4,250.0	6.14	134.46	4,230.6	-258.0	262.9	368.3	0.00	0.00	0.00
4,300.0	6.14	134.46	4,280.4	-261.7	266.7	373.7	0.00	0.00	0.00
4,350.0	6.14	134.46	4,330.1	-265.5	270.5	379.0	0.00	0.00	0.00
4,400.0	6.14	134.46	4,379.8	-269.2	274.3	384.4	0.00	0.00	0.00
4,450.0	6.14	134.46	4,429.5	-273.0	278.1	389.7	0.00	0.00	0.00
4,500.0	6.14	134.46	4,479.2	-276.7	282.0	395.1	0.00	0.00	0.00
4,550.0	6.14	134.46	4,528.9	-280.4	285.8	400.4	0.00	0.00	0.00
4,600.0	6.14	134.46	4,578.6	-284.2	289.6	405.7	0.00	0.00	0.00
4,650.0	6.14	134.46	4,628.4	-287.9	293.4	411.1	0.00	0.00	0.00
4,700.0	6.14	134.46	4,678.1	-291.7	297.2	416.4	0.00	0.00	0.00
4,750.0	6.14	134.46	4,727.8	-295.4	301.0	421.8	0.00	0.00	0.00
4,800.0	6.14	134.46	4,777.5	-299.2	304.9	427.1	0.00	0.00	0.00
4,850.0	6.14	134.46	4,827.2	-302.9	308.7	432.5	0.00	0.00	0.00
4,900.0	6.14	134.46	4,876.9	-306.6	312.5	437.8	0.00	0.00	0.00
4,950.0	6.14	134.46	4,926.6	-310.4	316.3	443.2	0.00	0.00	0.00
5,000.0	6.14	134.46	4,976.4	-314.1	320.1	448.5	0.00	0.00	0.00
5,050.0	6.14	134.46	5,026.1	-317.9	323.9	453.8	0.00	0.00	0.00
5,100.0	6.14	134.46	5,075.8	-321.6	327.7	459.2	0.00	0.00	0.00
5,150.0	6.14	134.46	5,125.5	-325.4	331.6	464.5	0.00	0.00	0.00
5,200.0	6.14	134.46	5,175.2	-329.1	335.4	469.9	0.00	0.00	0.00
5,250.0	6.14	134.46	5,224.9	-332.9	339.2	475.2	0.00	0.00	0.00
5,300.0	6.14	134.46	5,274.6	-336.6	343.0	480.6	0.00	0.00	0.00



Hathaway Burnham

Planning Report



Database: EDM 2003.21 Single User Db
Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 T9S, R17E
Well: H-2-9-17
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well H-2-9-17
TVD Reference: H-2-9-17 @ 5031.0ft
MD Reference: H-2-9-17 @ 5031.0ft
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
5,350.0	6.14	134.46	5,324.3	-340.3	346.8	485.9	0.00	0.00	0.00
5,400.0	6.14	134.46	5,374.1	-344.1	350.6	491.3	0.00	0.00	0.00
5,450.0	6.14	134.46	5,423.8	-347.8	354.4	496.6	0.00	0.00	0.00
5,500.0	6.14	134.46	5,473.5	-351.6	358.3	501.9	0.00	0.00	0.00
5,550.0	6.14	134.46	5,523.2	-355.3	362.1	507.3	0.00	0.00	0.00
5,600.0	6.14	134.46	5,572.9	-359.1	365.9	512.6	0.00	0.00	0.00
5,650.0	6.14	134.46	5,622.6	-362.8	369.7	518.0	0.00	0.00	0.00
5,700.0	6.14	134.46	5,672.3	-366.5	373.5	523.3	0.00	0.00	0.00
5,750.0	6.14	134.46	5,722.1	-370.3	377.3	528.7	0.00	0.00	0.00
5,800.0	6.14	134.46	5,771.8	-374.0	381.1	534.0	0.00	0.00	0.00
5,850.0	6.14	134.46	5,821.5	-377.8	385.0	539.4	0.00	0.00	0.00
5,900.0	6.14	134.46	5,871.2	-381.5	388.8	544.7	0.00	0.00	0.00
5,950.0	6.14	134.46	5,920.9	-385.3	392.6	550.1	0.00	0.00	0.00
6,000.0	6.14	134.46	5,970.6	-389.0	396.4	555.4	0.00	0.00	0.00
6,050.0	6.14	134.46	6,020.3	-392.7	400.2	560.7	0.00	0.00	0.00
6,100.0	6.14	134.46	6,070.0	-396.5	404.0	566.1	0.00	0.00	0.00
6,120.1	6.14	134.46	6,090.0	-398.0	405.6	568.2	0.00	0.00	0.00

H-2-9-17 TGT

6-16-9-17

CULTURAL RESOURCE INVENTORY OF
NEWFIELD EXPLORATION'S FIVE PROPOSED WATERLINES
GREATER BOUNDARY #3-11-9-17, #5-3-9-17, #9-3-9-17,
BELUGA UNIT #16-3-9-17, AND LONE TREE UNIT #15-16-9-17
(T9S, R17E, SEC. 3, 9, AND 16)
DUCHESNE COUNTY, UTAH

By:

Patricia Stavish

Prepared for:

Bureau of Land Management
Vernal Field Office
and
State of Utah
School and Institutional Trust Lands Administration

Prepared Under Contract With:

Newfield Exploration Company
Rt. 3 Box 3630
Myton, Utah 84052

Submitted By:

Montgomery Archaeological Consultants Inc.
P.O. Box 219
Moab, Utah 84532

MOAC Report No. 08-252

October 2, 2008

United States Department of Interior (FLPMA)
Permit No. 07-UT-60122

State of Utah Antiquities Project (Survey)
Permit No. U-08-MQ-0849b,s

ABSTRACT

In September 2008, Montgomery Archaeological Consultants, Inc. (MOAC) conducted an inventory of Newfield Exploration's five proposed waterlines designated: Greater Boundary #3-11-9-17, #5-3-9-17, #9-3-9-17, Beluga Unit #16-3-9-17, and Lone Tree Unit #15-16-9-17. The project area is situated south of the town of Myton, Duchesne County, Utah. The survey was implemented at the request of Ms. Mandie Crozier, Newfield Exploration, Myton, Utah. A total of 32.0 acres was inventoried, of which 21.7 acres occur on public lands administered by the Bureau of Land Management (BLM), Vernal Field Office, and 10.3 acres occur on state land administered by the State of Utah School and Institutional Trust Lands Administration (SITLA).

The inventory resulted in the location and re-documentation of site 42Dc390. This site is a lithic scatter lacking temporal indicators and quantity of cultural materials. It is located on residual sediment with limited potential for buried cultural material. Therefore, this site is not recommended eligible for National Register of Historic Places inclusion as it fails to address Criteria A-D. Based on the findings, a determination of "no adverse impact" is recommended for the undertaking pursuant to Section 106, CFR 800.

TABLE OF CONTENTS

ABSTRACT i
TABLE OF CONTENTS ii
LIST OF FIGURES ii
INTRODUCTION 1
DESCRIPTION OF PROJECT AREA 2
 Environmental Setting 2
 Cultural Overview 2
SURVEY METHODOLOGY 7
INVENTORY RESULTS 7
NATIONAL REGISTER OF HISTORIC PLACES EVALUATION 8
MANAGEMENT RECOMMENDATIONS 8
REFERENCES CITED 9
APPENDIX A: INTERMOUNTAIN ANTIQUITIES COMPUTER
SYSTEM (IMACS) SITE FORMS 11

LIST OF FIGURES

1. Inventory Area of Newfield Exploration's Five Proposed Waterlines in Duchesne County, Utah; Showing Cultural Resources.. 3

INTRODUCTION

In September 2008, Montgomery Archaeological Consultants, Inc. (MOAC) conducted an inventory of Newfield Exploration's five proposed waterlines designated: Greater Boundary #3-11-9-17, #5-3-9-17, #9-3-9-17, Beluga Unit #16-3-9-17, and Lone Tree Unit #15-16-9-17. The project area is situated south of the town of Myton, Duchesne County, Utah. The survey was implemented at the request of Ms. Mandie Crozier, Newfield Exploration, Myton, Utah. A total of 32.0 acres was inventoried, of which 21.7 acres occur on public lands administered by the Bureau of Land Management (BLM), Vernal Field Office, and 10.3 acres occur on state land administered by the State of Utah School and Institutional Trust Lands Administration (SITLA).

The objectives of the inventory were to locate, document, and evaluate any cultural resources within the project area in accordance with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). Also, the inventory was implemented to attain compliance with a number of federal and state mandates, including the National Historic Preservation Act (NHPA) of 1969 (as amended), the Archaeological and Historic Conservation Act of 1974, the Archaeological Resources Protection Act of 1979, and the American Indian Religious Freedom Act of 1978.

The fieldwork was performed on September 17 and 18, 2008 by Keith R. Montgomery (Principal Investigator) and Kelly Jo Jackson (Field Supervisor). All fieldwork was completed under the auspices of the State of Utah Public Lands Policy Coordination Office Permit No. 117 and State of Utah Antiquities Permit (Survey) No. U-08-MQ-0849b,s issued to Montgomery Archaeological Consultants.

A file search for previous projects and documented cultural resources was conducted by Chris Roberts at the BLM Vernal Field Office on March 20, 2008. This consultation indicated that several previous inventories had been completed within or near the current project area.

In 1982, BYU Cultural Resource Management Services conducted an archaeological survey of seismic lines and powder magazine locations for Consolidated Georex Geophysics (Billat et al. 1982). The inventory resulted in the location of six sites, of which site 42Dc390 is located in the current project area. Site 42Dc390 is a small lithic scatter that was evaluated as not eligible to the NRHP. This site was re-documented during the current inventory. In 1998, Sagebrush Consultants conducted a cultural resource survey of the Blackjack Unit in Township 9S, Range 17E, Sections 4 and 9 for Inland Production Company (Cowie et. al. 1998), which resulted in the documentation of 42Dc936, a historic gilsonite mining complex. 42Dc936 is not located in the current project area. In 1999, JBR Environmental Consultants, Inc. conducted a cultural resource inventory of nine well pads and in-fill locations in Duchesne and Uintah Counties (Crosland 2000). No cultural resources were located in the current project area. In 2003, MOAC conducted a cultural resource inventory of Inland Resources' block parcel in Duchesne and Uintah Counties, Utah (Whitfield and Bond 2003), no cultural resources were documented. In 2006, MOAC conducted two cultural resources in the vicinity of the current project area; a cultural resource inventory of Newfield Exploration's proposed well locations in Duchesne County (Roberts 2006), which resulted in the documentation of no cultural resources in the current project area, and a cultural resource inventory for the Ute Indian Tribe's proposed pipeline in Duchesne and Uintah counties (Stavish 2006). This inventory resulted in an addendum to site 42Dc936, which is not located in the current project area.

DESCRIPTION OF PROJECT AREA

The project area is located south of Castle Peak Draw, on Pariette Bench, in Duchesne County, Utah. The inventory areas are located in Township 9 South, Range 17 East, Sections 3, 9, and 16 (Figure 1). The waterlines vary in length: Greater Boundary Unit #3-11-9-17 measures 567 ft, Greater Boundary Unit #5-3-9-17 measures 1352 ft, Greater Boundary Unit #9-3-9-17 measures 1323 ft, Beluga Unit #16-3-9-17 measures 1190 ft, and Lone Tree Unit #15-16-9-17 measures 1948 ft in length. A total of 32.0 acres was inventoried, of which 21.7 acres occur on public lands administered by the Bureau of Land Management (BLM), Vernal Field Office, and 10.3 acres occur on state land administered by the State of Utah School and Institutional Trust Lands Administration (SITLA).

Environment Setting

The study area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The Uinta Basin ecosystem is within the Green River drainage, considered to be the northernmost extension of the Colorado Plateau. Topographically, this area consists of north-south trending interfluvial ridges dissected by extensive draws and canyons. The geology is comprised of Quaternary and Tertiary age deposits which include sedimentary rocks. The Duchesne River Formation is predominate in the project area, and contains claystone, sandstone, and carbonate beds. The soil in the area consists of sand and silt. Elevations in the inventory area range between 5130 and 5290 ft asl. Vegetation is dominated by a saltbush and greasewood community intermixed with prickly pear cactus, sagebrush, rabbitbrush, and grasses. The nearest permanent water source in the area is the Green River. Fauna which inhabit the area include deer, antelope, rabbits, badgers, ground squirrels, prairie dogs, and various other rodents and reptiles. Modern disturbances to the landscape include roads, oil and gas development, and livestock grazing.

Cultural Overview

The cultural-chronological sequence represented in the area includes the Paleoindian, Archaic, Fremont, Protohistoric, and Euro-American stages. The earliest inhabitants of the region are representative of the Paleoindian stage (ca. 12,000-8000 B.P.), characterized by the adaptation to terminal Pleistocene environments and by the exploitation of big game fauna. The presence of Paleoindian hunters in the Uinta Basin region is implied by the discovery of Clovis and Folsom fluted points (ca. 12,000 B.P. - 10,000 B.P.), as well as the more recent Plano Complex lanceolate points (ca. 10,000 B.P. - 7000 B.P.). Near the project area, a variety of Plano Complex Paleoindian projectile points have been documented, including Goshen, Alberta, and Midland styles (Hauck 1998). No sites with evidence of Folsom lithic technology have previously been documented near the project area. Spangler (1995:332) reports that there are no sealed cultural deposits in association with extinct fauna or with chronologically distinct Paleoindian artifacts in Utah. Specifically in the Uinta Basin, few Paleoindian sites have been adequately documented, and most evidence of Paleoindian exploitation of the area is restricted to isolated projectile points recovered in nonstratigraphic contexts. Copeland and Fike (1998:21) argue that many areas in Utah are conducive to the herding behavior of megafauna, and that there is a high probability that many of the sites in Utah of unknown age are Paleoindian.

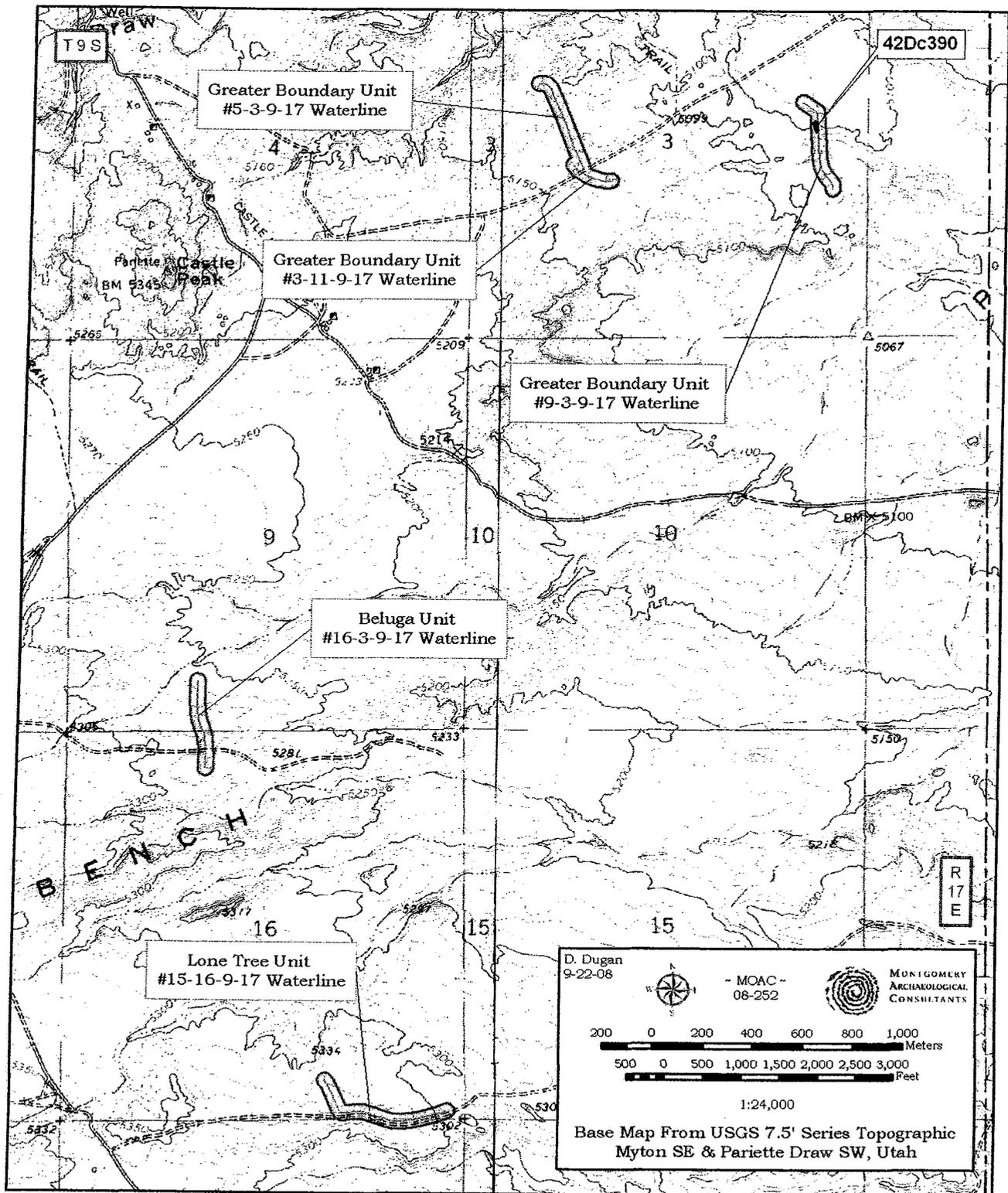


Figure 1. Inventory Area of Newfield Exploration's Five Proposed Waterlines in Duchesne County, Utah; Showing Cultural Resources.

The Archaic stage (ca. 8000 B.P.-1500 B.P.) is characterized by the dependence on a foraging subsistence, with peoples seasonally exploiting a wide spectrum of plant and animal species in different ecozones. The shift to an Archaic lifeway was marked by the appearance of new projectile point types, and the development of the atlatl, perhaps in response to a need to pursue smaller and faster game (Holmer 1986). In the Uinta Basin, evidence of Early Archaic presence is relatively sparse compared to the subsequent Middle and Late Archaic periods. Early Archaic (ca. 6000-3000 B.C.) sites in the Basin include sand dune sites and rockshelters primarily clustered in the lower White River drainage (Spangler 1995:373). Early Archaic projectile points recovered from Uinta Basin contexts include; Pinto Series, Humboldt, Elko Series, Northern Side-notched, Hawken Side-notched, Sudden Side-notched, and Rocker Base Side-notched points. Excavated sites in the area with Early Archaic components include Deluge Shelter in Dinosaur National Monument, and open campsites along the Green River and on the Diamond Mountain Plateau (Spangler 1995:374). The Middle Archaic era (ca. 3000-500 B.C.) is characterized by improved climatic conditions and an increase in human population on the northern Colorado Plateau. Several stratified Middle Archaic sites have been excavated and dozens of sites have been documented in the Uinta Basin. Middle Archaic sites in the area reflect cultural influences from the Plains, although a Great Basin and/or northern Colorado Plateau influence is represented in the continuation of the Elko Series projectile points. Subsistence data from Middle Archaic components indicate gathering and processing of plants as well as faunal exploitation (e.g., mule deer, antelope, bighorn sheep, cottontail rabbit, muskrat, prairie dog, beaver and birds). The Late Archaic period (ca. 500 B.C.-A.D. 550) in the Uinta Basin is distinguished by the continuation of Elko Series projectile points with the addition of semi-subterranean residential structures at base camps. By about A.D. 100, maize horticulture and Rose Springs arrow points had been added to the Archaic lifeway. In the Uinta Basin, the earliest evidence of Late Archaic architecture occurs at the Cockleburr Wash Site (42Un1476) where a temporary structure, probably a brush shelter, yielded a date of 316 B.C. (Tucker 1986). The structure was probably associated with seasonal procurement of wild floral resources gathered along Cliff Creek.

The Formative stage (A.D. 500-1300) is recognized in the area as the Uinta Fremont as first defined by Marwitt (1970). This stage is characterized by a reliance upon domesticated corn and squash, increasing sedentism, and in its later periods, substantial habitation structures, pottery, and bow and arrow weapon technology. Based on the evidence from Caldwell Village, Boundary Village, Deluge Shelter, Mantles Cave, and others, the temporal range of the Uinta Fremont appears to be from A.D. 650 to 950. This variant is characterized by shallow, saucer-shaped pithouse structures with randomly placed postholes and off-center firepits, some of which were adobe-rimmed. Traits considered unique or predominate to the Uinta Basin include calcite-tempered pottery, two-handled wide-mouth vessels, Utah type metates, the use of gilsonite for pottery repair, settlement on tops of buttes, and large-shouldered bifaces (Shields 1970).

Archaeological evidence suggests that Numic peoples appeared in east-central Utah at approximately A.D. 1100 or shortly before the disappearance of Formative-stage peoples (Reed 1994). The archaeological remains of Numic-speaking Utes consist primarily of lithic scatters with low quantities of brown ware ceramics, rock art, and occasional wickiups. The brown ware ceramics appear to be the most reliable indicator of cultural affiliation, as Desert Side-notched and Cottonwood Triangular points were manufactured by other cultural groups beside the Ute (Horn, Reed, and Chandler 1994:130). The Ute appear to have been hunters and gatherers who exploited various fauna and flora resources. According to macrobotanical and faunal data from dated components, deer, elk, pronghorn, bison, and small game were acquired (Reed 1994:191). Plant materials thought to have been exploited for food include: goosefoot, grass seeds, pinyon nuts,

juniper berries, squawbush berries and leaves, hackberry seeds, possibly saltbush seeds, knotweed, chokecherry, and chickweed (Reed 1994:191).

On May 5, 1864 Congress passed a law confirming the 1861 executive order setting up the Uintah Reservation (Burton 1996:24). This treaty provided that the Ute people give up their land in central Utah and move within one year to the Uintah Reservation without compensation for loss of land and independence. The Uinta-ats (later called Tavaputs), PahVant, Tumpanawach, and some Cumumba and Sheberetch of Utah were gathered together at the Uintah agency during the late 1860s and early 1870s to form the Uintah Band (Burton 1996:18-19). In the 1880 treaty council the White River Utes, who had participated in the Meeker Massacre, were forced to sell all their land in Colorado and were moved under armed escort to live on the Uintah Reservation (Callaway, Janetski, and Stewart 1986:339). Shortly thereafter, 361 Uncompahgre Utes were forced to sell their lands, and were relocated to the Ouray Reservation adjacent to the southern boundary of the Uintah Reservation. This area embraced a tract of land to the east and south of the Uintah Reservation below Ouray lying east of the Green River. A separate Indian Agency was established in 1881 with headquarters at Ouray which was located across the river from where the first military post, Fort Thornburgh was located. The Department of War established Fort Thornburgh along the Green River in 1881 to maintain peace between the settlers of Ashley Valley. The infantry who participated in the relocation of the Colorado Indians ensured that the Uncompahgre and White River Utes remained on the two reservations (Burton 1996:28). In the late 1880s, gilsonite was discovered in the Uinta Basin, and Congress was persuaded to apportion 7,040 acres from the reservation so the mineral could be mined.

The earliest recorded visit by Europeans to Utah was the Dominguez-Escalante expedition, of 1776. From the early 1820s to 1845, the Uinta Basin became an important part of the expanding western fur trade. Homesteading began in 1878 with Thomas Smart, one of the first white settlers to settle east of Ouray. In 1879, about forty cowboys and several large herds of cattle wintered on the White River. The winter of 1879-1880 saw the establishment of a settlement near the White River by several pioneers and their families including Ephraim Ellsworth, the Remingtons, and the Campbells. The person most responsible for organizing a permanent homesteading movement in Ouray Valley was William H. Smart, the brother of Thomas Smart, who became president of the Wasatch LDS Stake in 1901 (Burton 1998). When the Ute reservation was opened to white homesteaders in 1905, Smart organized several exploration trips into the area that later attracted many LDS families.

Initially, livestock was the main industry of white homesteaders in Uintah County. Two factors - free grass and the availability of water - influenced men to move their cattle into the county. Most of the land in the area was part of the public domain and no territory or state could tax it. Cattle were eventually brought up east as far as the Green River and then to the surrounding mountains. Large cattle herds had been coming to Brown's Park from Texas and other eastern areas since the early 1850s. The K Ranch, a large cattle operation owned by P.R. Keiser, brought many cowboys to the area. The ranch was located on the Utah-Colorado line with property in both states. Charley Hill, who came to Ashley Valley as a trapper for the Hudson Bay Company, started a cattle company on Hill Creek and Willow Creek in the Book Cliffs (Burton 1996:109). They later moved out when the government set this section aside for the Ouray Indian Agency. Other prominent men in the cattle industry included A.C. Hatch, Dan Mosby, and James McKee. Cattle rustling became an increasingly large problem as cattle herds grew, and conflict resulted between the small and large cattle companies. In 1912, the Uintah Cattle and Horse Growers Association was organized to protect the livestock industry from thieves and to issue an authorized brand book (Ibid: 110).

The sheep industry later became part of Uintah County's economic backbone, and contributed to the decline of the cattle industry. Sheep were first introduced to the valley during the winter of 1879 when Robert Bodily brought in sixty head (Burton 1996:111). Sheep were able to survive the hard winters much better than cattle. By the mid-1890s, more than 50,000 head of sheep were in the region; and the production of wool became very important. In 1897, C.S. Carter began building shearing corrals. In 1899, 500,000 pounds of wool were shipped from the county and sold for 12.5 cents per pound (Ibid:111). In 1906, the Uintah Railway Company built shearing pens on the Green River to encourage the shipping of wool by train; and in 1912, pens were built at Bonanza and Dragon. Beginning in the 1940s Mexican sheep-shearing crews and Greek sheepmen from the Price and Helper areas came into the area. The Taylor Grazing Act was passed in 1934, allotting specific areas or "districts" to stockmen for livestock grazing that required permits. This act was a forerunner of the Bureau of Land Management, which was established in 1946 and eventually assumed responsibility for the administration of grazing laws on public land (Burton 1996:115).

Until about 1910, the roads in Uintah County were overseen by county commissioners, the majority of which consisted of "little more than trails cut by wagon wheels" (Burton 1998:208). In 1921, money was provided to be used for improvements on the Vernal-Duchesne road via an act of congress with the intent of establishing a system of highways passing through several states. In about 1919 the "Victory Highway" was proposed to provide a route from St. Louis to San Francisco passing through Vernal and Roosevelt in Uintah County. The highway's name was chosen because of the recent end of World War One, it would also provide the shortest route between Washington D.C. and San Francisco. Soon the Victory Highway became known as US 40 and its length extended to Atlantic City in the east. Paving of the portion of the road between Myton and Vernal was completed between 1933 and 1938 (Ibid: 210). A portion of this road known as the "Hatch Dugway", located about 12 miles west of Vernal was re-aligned as it had been the site of numerous accidents due to its sharp curves (Ibid: 209).

Uintah County is also known for its natural resources. Coal, copper, iron, asphalt, shale, and especially gilsonite, were important to the mining industry. When gilsonite was discovered in the Uinta Basin in the 1880s, Congress was persuaded to apportion 7,040 acres from the Ute reservation so the mineral could be mined. This area became known as "The Strip" and later developed into the townsite of Moffat (later renamed Gusher). Gilsonite is a light-weight lustrous black hydrocarbon mineral that can easily be crushed into a black-brown powder. It can be found in commercial quantities only in the Uinta Basin. The earliest use of the mineral was in buggy paints and beer-vat linings. Today it is used in over a hundred products ranging from printing inks to explosives and automobile body sealer and radiator paint (Burton 1998:343). Mining camps also sprang up near the Colorado line in Bonanza, Dragon, and Watson starting in about 1903. Many immigrants, including Greeks and Chinese, worked in the mines. Bonanza became one of the largest and most modern functioning mining camps in the area beginning in 1921, reaching its peak in 1937. It was chosen as the Barber gilsonite company headquarters, because it was near the largest deposits of gilsonite in the area. Miners from Dragon, Rainbow, and other neighboring communities were relocated to Bonanza.

SURVEY METHODOLOGY

An intensive pedestrian survey was performed for this project which is considered 100% coverage. The proposed waterline corridors were surveyed to a width of 61 m (200 ft) by the archaeologist walking parallel transects spaced no more than 10 m (33 ft) apart. Ground visibility was considered to be good. A total of 32.0 acres was inventoried, of which 21.7 acres occur on public lands administered by the Bureau of Land Management (BLM), Vernal Field Office, and 10.3 acres occur on state land administered by the State of Utah School and Institutional Trust Lands Administration (SITLA).

Cultural resources were recorded as either archaeological sites or isolated finds of artifacts. Archaeological sites were defined as spatially definable areas with features and/or ten or more artifacts. Sites were documented by the archaeologist walking transects across the site, spaced no more than 3 m (10 ft) apart, and marking the locations of cultural materials with pinflags. This procedure allowed clear definition of site boundaries and artifact concentrations. At the completion of the surface inspection, a Geo-Explorer Trimble was employed to map the sites, including diagnostic artifacts and other relevant features in reference to the site datum. Archaeological sites were photographed, with site data entered on an Intermountain Antiquities Computer System (IMACS, 1990 version) inventory form (Appendix C). A rebar with an aluminum cap stamped with the temporary site number was placed at each of the sites.

INVENTORY RESULTS

The inventory of Newfield Exploration's five proposed waterlines resulted in the location and re-documentation of site 42Dc390.

Smithsonian Site No.: 42Dc390
Temporary Site No.: N/A
Site Type: Prehistoric Lithic Scatter
NRHP Eligibility: Not Eligible

Description: This is a lithic scatter originally recorded in 1982 by CRMS/BYU. This site is located on Pariette Bench along a low ridge overlooking an intermittent wash. Diagnostic artifacts include two choppers, two utilized flakes, two bifaces, a scraper, a core, and one uniface. Debitage (N=16) is dominated by primary flakes manufactured from siltstone and chert. A chopper identified from the original site form sketch was relocated. This is a lithic scatter of unknown aboriginal cultural affiliation.

NATIONAL REGISTER OF HISTORIC PLACES EVALUATION

The National Register Criteria for Evaluation of Significance and procedures for nominating cultural resources to the National Register of Historic Places (NRHP) are outlined in 36 CFR 60.4 as follows:

The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of State and local importance that possess integrity of location, design, setting, material, workmanship, feeling, and association, and that they:

- a)...are associated with events that have made a significant contribution to the broad patterns of our history; or
- b)...are associated with the lives of persons significant to our past; or
- c)...embody the distinctive characteristics of a type, period, or method of construction; or that represents the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- d)...have yielded or may be likely to yield information important in prehistory or history.

The inventory resulted in the location and re-documentation of site 42Dc390. This site is a lithic scatter lacking temporal indicators and quantity of cultural materials. It is located on residual sediment with limited potential for buried cultural material. Therefore, this site is not recommended eligible for National Register of Historic Places inclusion as it fails to address Criteria A-D.

MANAGEMENT RECOMMENDATIONS

The inventory of Newfield Exploration's five proposed waterlines designated Greater Boundary #3-11-9-17, #5-3-9-17, #9-3-9-17, Beluga Unit #16-3-9-17, and Lone Tree Unit #15-16-9-17, resulted in the location and re-documentation of site 42Dc390. Site 42Dc390 is a small prehistoric lithic scatter that is recommended as not eligible to the NRHP. Based on the findings, a determination of "no adverse impact" is recommended for the undertaking pursuant to Section 106, CFR 800.

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APPENDIX A:
INTERMOUNTAIN ANTIQUITY COMPUTER SYSTEM (IMACS)
SITE INVENTORY FORMS
(42Dc390)

On File At:

Division of State History
Salt Lake City, Utah

G-16-9-17

NEWFIELD EXPLORATION COMPANY

**PALEONTOLOGICAL SURVEY OF PROPOSED
HIGH PRESSURE GAS PIPELINE
NW 1/4, Sec. 31, T 8 S, R 18 E, to SW 1/4, Sec. 28, T 8 S, R 18 E
(3-31-8-18 to 13 & 14-28-8-18)**

**AND
ONE 40 ACRE PARCEL
SW 1/4, SW 1/4, Sec. 21, T 8 S, R 18 E
(13-21-8-18)**

**AND
WATER PIPELINE TIE-INS
NE 1/4, NW 1/4, Sec. 33, T 8 S, R 17 E (2-33-8-17); NE 1/4, SW 1/4, Sec. 3, T 9 S, R 17 E
(3-11-9-17); SW 1/4, NW 1/4, Sec. 3, T 9 S, R 17 E (5-3-9-17); NE 1/4, SE 1/4, Sec. 3, T 9 S,
R 17 E (9-3-9-17); NE 1/4, NW 1/4, Sec. 16, T 9 S, R 17 E (16-3-9-17); SE 1/4, NW 1/4, Sec.
35, T 8 S, R 16 E (6-35-8-16); NE 1/4, NW 1/4, Sec. 35, T 8 S, R 16 E (3A-35-8-16); NW 1/4,
SE 1/4, Sec. 34, T 8 S, R 16 E (10-34-8-16)**

Duchesne & Uintah Counties, Utah

REPORT OF SURVEY

Prepared for:

Newfield Exploration Company

Prepared by:

Wade E. Miller
October 9, 2008

INTRODUCTION

On September 26, 2008, Mandie Crozier, Regulatory Assistant for the Newfield Exploration Company's Myton office, sent an e-mail to Wade Miller requesting that a paleontological survey be made of proposed high pressure gas pipelines, one 40 acre parcel and 7 water injection pipeline tie-ins. Later an additional proposed water injection line was added (3A-35-8-16). Site maps were sent as attachments to the e-mail, showing the exact location for all the proposed entities to be surveyed. Before the gas pipeline survey was made, Mandie Crozier sent a new site map with a changed route for the gas pipelines involved. Only the latter received a paleontological survey. 7.5' USGS topographic maps were also brought to the field as well for the purpose of providing topographical data. The Pariette Draw SW, quadrangle was used for the survey of 13-21-8-18 (SW 1/4, SW 1/4, Section 21, T 8 S, R 18 E). A planimetric map showing the oil field roads and well locations provided by Newfield was also used.

The present paleontological field survey was varied due to the different aspects of surveying involved. The high pressure gas pipeline route was walked out along its length of approximately 3.5 miles. This included the branch lines. It was checked on either side of the proposed routes for up to 100 feet where exposures of the paleontologically sensitive Uinta Formation were present. This proposed gas line with its branches ran from the NW 1/4, Sec. 31, T 8 S, R 18 E, to SW 1/4, Sec. 28, T 8 S, R 18 E (3-31-8-18 to 13 & 14-28-8-18). The one 40 acre unit that was surveyed included the proposed access road, water and gas pipeline route. All were staked. This parcel is the SW 1/4, SW 1/4, Section 21, T 8 S, R 18 E (13-21-8-18). The survey of this quarter, quarter section was made in the manner of all other such parcels that have been checked in the past. The 8 proposed water injection pipeline routes were inspected on foot as well, following the stakes marking them. The areas surveyed for these were as follows: NE 1/4, NW 1/4, Sec. 33, T 8 S, R 17 E (2-33-8-17); NE 1/4, SW 1/4, Sec. 3, T 9 S, R 17 E (3-11-9-17); SW 1/4, NW 1/4, Sec. 3, T 9 S, R 17 E (5-3-9-17); NE 1/4, SE 1/4, Sec. 3, T 9 S, R 17 E (9-3-9-17); NE 1/4, NW 1/4, Sec. 16,

Sec. 16, T 9 S, R 17 E (16-3-9-17); SE 1/4, NW 1/4, Sec. 35, T 8 S, R 16 E (6-35-8-16); NE 1/4, NW 1/4, Sec. 35, T 8 S, R 16 E (3A-35-8-16); NW 1/4, SE 1/4, Sec. 34, T 8 S, R 16 E (10-34-8-16).

The Uinta Formation, the geologic formation that represents almost all sediment exposures in the Uinta Basin (and all those seen in the present survey), is regarded as one of the top few most paleontologically sensitive formations in Utah. It has provided much scientifically valuable information on past life in eastern Utah during the late Eocene period (roughly 40 to 45 million years ago). A Mammalian Age for all North America is based on the fauna that has been recovered from the Uinta Basin. While many types of diverse animals and plants have been discovered, new discoveries are certain with additional field work. (There are paleontologists currently doing paleontological work in the Uinta Basin.) Some of the specific types of plants and animals found on Newfield's oil and gas leased lands have been cited in earlier reports by the present author. The importance of protecting scientifically significant fossils, and the Federal and State laws regarding their protection, has also been given in earlier reports. The Bureau of Land Management (BLM) Paleontological Resources Use Permit number under which the present field work was done is: #UT06-003C. All the significant fossils that have been found during the paleontological field surveys, have been collected and brought to Brigham Young University (BYU). There, they have been (or are being) prepared and curated, and integrated into the paleontological collections. BLM Paleontological Report forms have also been completed and submitted to the above BLM offices regarding these fossils. BYU has been a Federally recognized repository for fossils for many years. That is, fossils discovered and collected by Federal permit can legally be stored and studied here.

PALEONTOLOGICAL FIELD SURVEY

The present paleontological field survey followed the same procedures as were done in all earlier ones. That is, each of the designated areas was carefully walked over looking for evidence of fossils. Specifically this covers any area where the Uinta Formation is exposed. Notes were kept

as the survey proceeded over each of the water injection lines, pipeline routes, and quarter, quarter section covered in the present survey. Important fossils when found were photographed *in situ*. A GPS reading was also taken at the exact location of each paleontologically significant site. The site was then marked on a USGS Topographic map, with a field locality number given. Although the present survey covered a very widespread area, fossil finds of significance were limited. However, trace fossils in sandstones and to a lesser extent fossils turtle shell fragments were found relatively common.

When sites or pipeline routes are marked it greatly facilitates the field survey work. The one proposed well pad site, and the several pipeline routes were all walked out during the present paleontological survey. Where stakes were not present, the entire area was surveyed. As usual, both USGS Topographic maps and Newfield's planimetric map of the roads and wells were used in the survey. Wade Miller performed the paleontological field survey for this report alone. The paleontological procedures followed for the above field work were the same as those given in many previous survey reports. It is not thought necessary to keep repeating them when several are on file with both Newfield Exploration Company, as well as the Salt Lake City and Vernal offices of the Bureau of Land Management. These reports encompass the years 1999 to 2003. It is repeated here, though, that the Uinta Formation is present throughout Newfield's BLM oil and gas leased land in the Uinta Basin. As stated earlier, this formation is one of the most paleontological sensitive ones in the state of Utah. Over the years it has yielded many very important fossils of vertebrates, especially mammals, and other animals. Some of the recovered plant fossils are also of paleontological significance.

Wade Miller performed the paleontological surveys for all the work recorded here on the following dates: September 30, and October 7-8, 2008. The proposed high pressure gas line route was been broken roughly into quarter-mile segments for reporting purposes.

RESULTS OF PALEONTOLOGICAL SURVEY

High Pressure Gas Pipeline Survey

NW 1/4, Sec. 31, T 8 S, R 18 E (3-31-8-18)

The proposed high pressure gas pipeline as performed for this survey begins in the northwest corner of Section 31, about 200 yards north of the water injection well 3-31-8-18. At this point there is an existing major east-west oilfield road. A subsidiary north-south road leads north past the intersection. It is along this road that the proposed gas pipeline will run. Since no stakes were present marking the route of the proposed pipeline, the paleontological survey covered an area 100 feet on either side of the road. This held true of the survey for the main route as well as for branches of it. From the above intersection marking the start of the pipeline survey, the proposed route travels north through Section 31. The beginning of the route at the intersection is on a ridge, then descends downslope toward a small basin. Vegetation on either side of the road of the area surveyed is sparse. It consists mostly of very low-growing brush and some cactus. A poor and very rocky soil is in evidence on both sides. Appreciable exposures of Uinta Formation are present to the west of the north-south trending road, but they are low-lying. The strata here consists of mudstones (primarily) and thin-bedded sandstones. To the east a north-south trending ridge parallels the road and is adjacent to it. This ridge rises to a height of about 50 to 60 feet. It is composed of exposed Uinta Formation sandstones and mudstones. Fossil invertebrate borings and burrowings, as well as trails, are locally common in some sandstones. A few weathered fossil turtle shell fragments were found near the southern part of the proposed pipeline route on the east side of the road. While trace fossils were seen on both sides of this road, most occur on the east.

SE 1/4, Section 30, T 8 S, R 18 E

The proposed gas pipeline follows the road north into Section 30 from Section 31 a short distance, then makes a sharp turn to the east. A new oil well site (15-30-8-18) is present to the north of the road. Further along it in this quarter of a mile segment an operating well exists (16-30-8-18). The road and proposed gas pipeline route runs east to Section 29. Throughout this area

the vegetational conditions remain similar to those described above. However, more brush is present in places. Intermittent stretches of soil exist along the route, being sandier on the north side of the road and rockier to the south - near the ridges of exposed Uinta Formation. In places these ridges extend to the road (now trending east) and even cross it. Sandstones and mudstones are exposed on both sides of the road, between areas of soil. They are more prevalent to the south. Invertebrate trace fossils were observed in most of the sandstones on both sides of the road. A few scatters of weathered turtle shell fragments were found on the south side of the road in exposed mudstones.

Section 29, T 8 S, R 18 E

While the road and proposed gas pipeline paralleling it continue in an eastward direction, three ancillary proposed gas pipelines extend both to the north and south. The two to the north lead to wells 10-29-8-18 and 43-29-8-18, and the one to the south to 34-29-8-18. Additionally. Two other wells to which proposed pipelines would run are also located in this section to the north. Well 6-29-8-18 is located in the NW 1/4 of the section, while well 32-29-8-18 is situated in the NE 1/4 of the section. The proposed gas pipeline routes to all these wells were surveyed on foot.

SW 1/4, Section 29, T 8 S, R 18 E

The basically west to east trending road in this quarter section leads to an open area just east of well 13-29-8-18. There is a broad band (over 100 feet) on either side of the road where mostly rocky, then sandy, soil exists. Some distance beyond this band to the north and south, Uinta Formation exposures are in evidence. This condition holds true to the east end of the SW 1/4 of Section 29. No fossils occur within in proposed pipeline route in the entire quarter section.

SE 1/4, Section 29, T 8 S, R 18 E

The above eastward directed road continues into an extensive basin with the surrounding basinal

escarpments revealing Uinta Formation interbedded sandstones and mudstones. However, there are hills and ridges, as well as arroyos that also expose beds of the Uinta Formation within this basin which occupies most of Section 29. The vegetation here remains relatively sparse, and continues to be low-growing. Like in surrounding areas, it consists mostly of brush, bunch grass (not common), Compositae, and some cactus. Much of the basin in this section shows sandy to rocky soil, though not as rocky as in Section 30. Alluvial deposits are also present. Where Uinta Formation beds are present along the proposed main and auxiliary gas pipeline routes, they were examined when within 100 feet of them. A short branch of proposed pipeline heads north to the presently non-operating well 10-29-8-18. Limited exposures of Uinta Formation occur along this branch. No fossils were seen in these beds. There are no significant Uinta Formation exposures along the proposed route leading to currently non-operating well, 34-29-8-18. However, an escarpment exposing this formation does exist to the immediate south of the well site.

The 100 feet of survey corridor on either side of the west to east road in Section 29 does not cross exposed Uinta Formation between the proposed gas line routes leading to wells 34-29-8-18 and 43-29-8-18. The corridor here consists of just rocky to sandy soil. Nevertheless, the surveyed corridor leading to operating well 6-29-8-18 contains some discontinuous Uinta Formation outcrops on the west side of the road. Both abundant invertebrate trace fossils and fragments of fossil turtle shell were observed in them. The proposed corridor that leads north to operating well 32-29-8-18 only encounters some Uinta Formation in the mudstone hills just east of this well site. They were examined. A few scatters of fossil turtle shell fragments were found on them.

As the road heads east along the last 200 yards of Section 29, Uinta sandstones and mudstones occur on either side of the road. Here not only trace fossils but abundant fossil turtle shell material was seen. Unlike other areas in this survey where turtle shell fragments were observed, many of those in this area were weathering *in situ*. They are present in a mudstone unit that crosses the road, but are mostly on the south side. Their manner of occurrence and abundance of material is considered paleontologically important. This site was given the field number of WEM 08-2. Its GPS location has been recorded as N 40° 05' 12.7" - W 109° 54' 33.0" Figure 2).

SW 1/4, Section 28, T 8 S, R 18 E

The aforementioned road continues eastward from Section 29 into Section 28. At the entrance to this section the proposed gas pipeline route separates into two parts. One branch leads to well 13-28-8-18, and the other to well 14-28-8-18. These two branches were also surveyed on foot for potential fossils. The vegetation along both branches is sparse. Soil, while mostly rocky, does have sandy components along the two pipeline branches. Well site 14-28-8-18 rests in a small sub-basinal area containing sandstones and mudstones. The Uinta beds on the west of the route leading to this well site are a continuation of those fossiliferous ones mentioned for the easternmost portion of Section 29 along the proposed route. Both turtle shell material and trace fossils were found in them. The branch leading to well 13-28-8-18 follows an access road where some fossils (trace and turtle shell) were found in limited numbers in the beds alongside the road.

40 Acre Parcel Survey

SW 1/4, SW 1/4, Section 21, T 8 S, R 18 E (13-21-8-18)

The proposed access road, water and gas pipeline routes were surveyed from an existing access road (leading to well site 1-29-8-18) to the proposed well site 13-21-8-18 to the northeast. The distance involved is about 1/3 mile, heading east, and then north. Proposed access road and lines begin on a ridge (the same one on which well 1-29-8-18 is located) then descend to a broad valley to the north in which the proposed well site is located. Vegetation varies from sparse to moderate, with low to medium-height growth. Soil in the area ranges from sandy to rocky to very rocky. There is much alluvium in the valley of this new well site. No Uinta Formation strata, though, occur near the proposed access road and pipeline route or at the proposed well location. The nearest Uinta exposures are located several hundred yard to the north. As expected, no fossils were present throughout the surveyed area considering a lack of Uinta beds.

Water Injection Pipeline Surveys

NE 1/4, NW 1/4, Section 33, T 8 S, R 17 E (2-33-8-17)

This well site is located on irregular terrain with an undulating surface and cliff escarpments nearby. Soil cover around the well site is mostly rocky, with a sparse low-growing vegetation covering the area. This vegetation is composed mostly of brush. The Uinta Formation is widely exposed all around the well site. The proposed water injection line extends only about 100 feet to the well site at this location, running northwest and paralleling the existing road leading to the site. Both sandstones and mudstones are exposed in the area, although the proposed water line would mostly run through rocky soil. The few fossils seen at the site are mollusc boring and fill structures

NE 1/4, SW 1/4, Section 3, T 9 S, R 17 E (3-11-9-17)

The land surface in and around this existing well site consists of low ridges and intervening depressions. Currently the well at 3-11-9-17 is not operating. The 490 feet of proposed water injection pipeline leading to this well ties in at the intersection of an existing road to the northwest. The pipeline follows this intersection along the access road over its 490 feet leading to the well. Again, the soil surface is mostly rocky and only supports a low-growing, sparse vegetation (low brush, some bunch grass, Compositae and cactus). Much Uinta Formation sandstones and some mudstones cover the area, including the pipeline route. The only fossils observed were locally abundant ichnites such as mollusc bore and fill structures.

SW 1/4, NW 1/4, Section 3, T 9 S, R 17 E (5-3-9-17)

This operating well exists in an area of irregular, essentially hummocky terrain. Only a moderate amount of soil coverage is present here, the soil ranging from sandy to rocky. Vegetation is very sparse and of a very low growth. The 1,310 feet of proposed water injection pipeline runs a little

east of south from the well to an existing road. Marking stakes for the route are located just east of the road to the above well site. This route traverses both soil and extensive sandstone and mudstone outcrops of the Uinta Formation. Mollusc bore and fill structures and other unidentified invertebrate fossils were seen along the proposed route. On the other (western) side of the well site access road, outcrops were seen to bear important vertebrate fossils not far from it. Several spots contain fossil bones of both mammal and turtle. Further research will be needed to identify these animals. However, several pieces of one large individual could be that of a brontothere. This site is considered to be of paleontological significance. It has received a field number of WEM 08-1. This site has been located by GPS and exists at N 40° 03' 37.6" - W 109° 59' 52.8" (Figure 1).

NE 1/4, SE 1/4, Section 3, T 9 S, R 17 E (9-3-9-17)

This proposed water injection line running to a pumping well (9-3-9-17) lies on a low hummocky land surface, similar to the one at 5-3-9-17. Vegetation ranges from sparse to moderate over the area. It consists of similar plant types as mentioned in nearby regions above. The soil here is sandy in places, rocky in others. Uinta Formation interbedded sandstones and mudstones are fairly well exposed here. The proposed 1,240 feet water injection pipeline crosses these beds. The proposed pipeline begins on an east-west directed road, then follows the easterly oriented access road to the well site. Despite much exposed Uinta strata, ichnites were the only fossils seen. These are, however, very abundant locally. Mollusc boring and fill features are the most prevalent types, but many unidentified fossil invertebrate markings are also in evidence.

NE 1/4, NW 1/4, Section 16, T 9 S, R 17 E (16-3-9-17)

In the area of this operational well and its 1,180 feet of proposed water pipeline, the terrain is undulating. Vegetative growth is low-growing - as is typical for all that in the region. It is somewhat moderate in abundance. The soil supporting the plants (types as mentioned above) varies from sandy to rocky. The proposed water line route, as shown by stakes, leads north from

16-3-9-17 to well 24-9H-9-17. There is no exposed Uinta Formation within 250 yards of this line. No fossils would then be expected here, and none were.

SE 1/4, NW 1/4, Section 35, T 8 S, R 16 E (6-35-8-16)

The operating well and proposed water injection pipeline at this site exists on a nearly flat land surface. Soil tends to be rocky, but supports a moderate coverage of low-growing plants - mostly brush with some bunch grass, Compositae and cactus. No exposures of Uinta Formation occur in the area of the well or proposed water pipeline. Some of this formation had been excavated, though, in producing the well site. But no fossils were seen in this reworked sediment. No stakes were present at this site to mark the water pipeline route of 920 feet, but the provided site map enabled an accurate survey of the area.

NE 1/4, NW 1/4, Section 35, T 8 S, R 16 E (3A-35-8-16)

At this location the operating well and proposed water injection pipeline are situated in a relatively narrow and shallow valley. This proposed water line trends east to slightly south of east 980 feet to a water pipeline for the tie-in. Vegetation in this area is on a rocky to sandy soil, and consists of low to moderate height brush, some bunch grass, Compositae and minor occurrences of cactus. Isolated outcrops of Uinta Formation, mudstone and siltstone, are present along the staked, proposed water line route. More extensive outcrops exist nearby. However, no fossils were found in the survey of the 3A-35-8-16 proposed water injection pipeline.

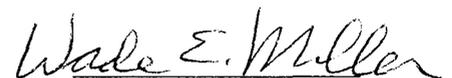
NW 1/4, SE 1/4, Section 34, T 8 S, R 16 E (10-34-8-16)

The well site at this existing well site is located on flat-lying ground. Again no stakes marked the water injection pipeline route proposed for this location. The provided site map, though, was sufficient to run an acceptable paleontological survey. According to this map, the proposed pipeline would run 1,550 feet nearly due west of the operating well site at 10-34-8-16.

Vegetation is one of low growth and modest abundance, and similar to that recorded for Section 35 above. Soil is mostly rocky, but with significant sand in places. No Uinta Formation exposures are present in the area, with a concomitant lack of fossils.

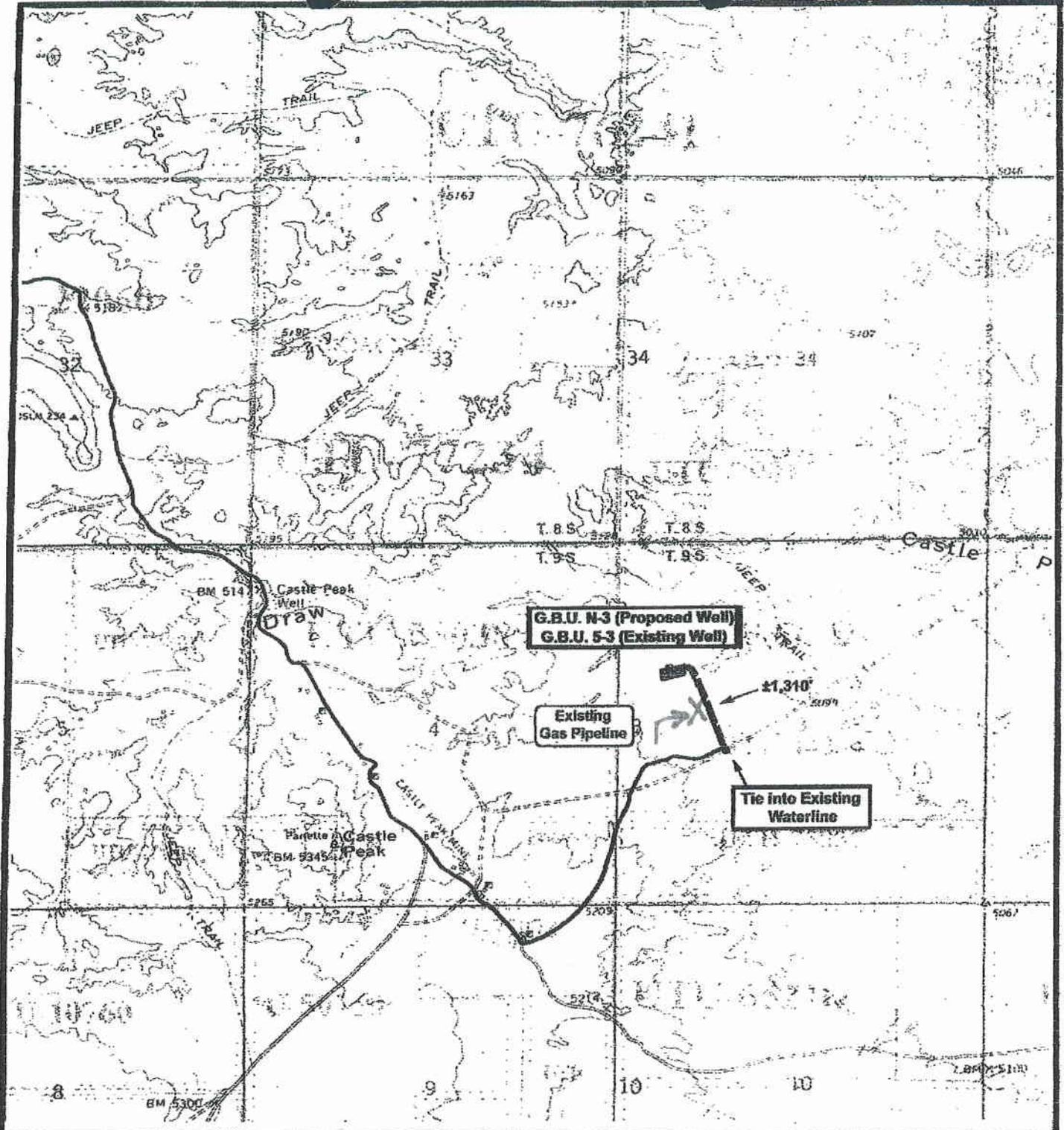
RECOMMENDED MITIGATION

Fossils were absent at some of the locations listed in the discussions above, mostly where there were no exposures of Uinta Formation. However, other surveyed areas did produce fossils, especially invertebrate trace fossils. The burrow and fill structures, and other trace fossils seen during the present survey are not considered paleontologically significant. Nevertheless, there are instances where trace fossils do have paleontological significance, so they cannot always be overlooked. In most instances the fossil turtle shell material seen on this survey was too fragmented and weathered to be important. Yet in one area as noted above it is considered important because of the number of represented individuals, and the fact that this material is weathering *in situ* with many fragments representing each of the individuals. This site is recorded as WEM 08-2, and is located in the SE 1/4, SE 1/4, Section 29, T 8 S, R 18 E. Of perhaps greater importance are the pieces of mammal bones and larger pieces of turtle shell found at WEM 08-1 (near Site WEM 05-2). This site occurs in the SW 1/4, NW 1/4, Section 3, T 9 S, R 17 E. These two sites need to be paleontologically monitored during any excavations made. As stated in all earlier reports, should fossils be found during any excavating activities where the Uinta Formation is contacted, they should immediately be reported to a qualified paleontologist. A BLM representative from the Vernal office should be notified as well.



Wade E. Miller
10/8/08

Need Arch + Pales

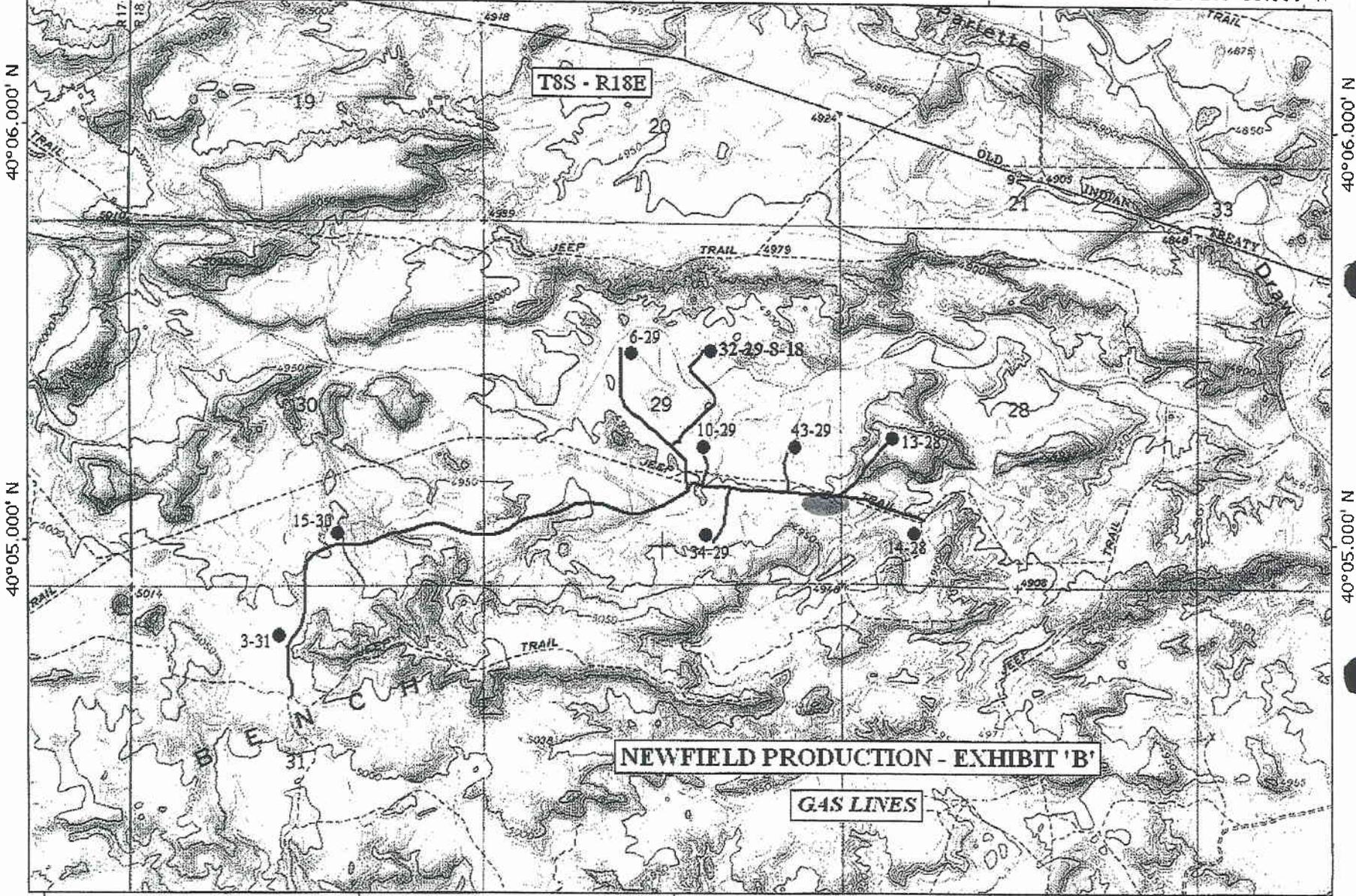


 <p>Greater Boundary N-3-9-17 (Proposed Well) Greater Boundary 5-3-9-17 (Existing Well) Pad Location SWNW SEC. 3, T9S, R17E, S.L.B.&M.</p>		 <p>Tri-State Land Surveying Inc. (436) 781-2501 180 North Vernal Ave. Vernal, Utah 84078</p> <p>SCALE: 1" = 2,000' DRAWN BY: JAS DATE: 07-29-2008</p>	<p>Legend</p> <ul style="list-style-type: none"> Roads Proposed Water Line <p>TOPOGRAPHIC MAP</p> <p>"C"</p>
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FIGURE 1. WEM D8-1 FOSSIL SITE

TOPOI map printed on 10/01/06 from "Utsh.tpo" and "Untitled.tpg"

109°57.000' W 109°56.000' W 109°55.000' W 109°54.000' W WGS84 109°53.000' W



TN MN
12°

0 1000 FEET 0 500 1000 METERS

Printed from TOPOI ©2000 National Geographic Holdings (www.topo.com)

FIGURE 2 - WEM 08-2 FOSSIL SITE

H-8270-1 - GENERAL PROCEDURAL GUIDANCE
FOR PALEONTOLOGICAL RESOURCE MANAGEMENT

Form 8270-3 (Temporary)
(May 1994)

United States
Department of the Interior
Bureau of Land Management

Paleontological Locality Form

1. Permit #/Permittee: UT 06-003C DR. WADE E. MILLER

2. Repository/Accn.#: BRIGHAM YOUNG UNIVERSITY

3. Locality #: WEM 08-1 Plant Vertebrate Invertebrate Other

4. Formation (and subdivision, if known): UINTA FORMATION

5. Age: EOCENE 6. County: UINTAH

7. BLM District: VERNAL, UTAH 8. Resource Area: UINTA BASIN

9. Map name: PARIETTE DRAW SW 10. Map source: U.S.G.S.

11. Map size: 7.5' 12. Map edition: 1964

13. Latitude (deg., min., sec., direction): N 40° 03' 37.6"

14. Longitude (deg., min., sec., direction): W 109° 59' 52.8"

or: UTM Grid Zone: _____ m E _____ m N

15. Survey (Sec., T & R): SW 1/4, NW 1/4, SECTION 3, T9S, R17E

16. Taxa Collected/observed: ? BRONTOTHERE, UNIDENTIFIED MAMMAL AND TURTLE - UNIDENTIFIED INVERTEBRATE TRACE FOSSILS.

17. Collector: WADE E. MILLER 18. Date: 10/9/08

19. Remarks: THIS SITE ON LOW RELIEF UINTA FM. STRATA IS CLOSE TO AN EARLIER FOSSIL SITE OF WEM 05-2.

H-8270-1 - GENERAL PROCEDURAL GUIDANCE FOR PALEONTOLOGICAL RESOURCE MANAGEMENT

8270-3 (Temporary) 1994)

United States Department of the Interior Bureau of Land Management

Paleontological Locality Form

Permit #/Permittee: UT 06-003C DR. WADE E. MILLER

Repository/Accn.#: BRIGHAM YOUNG UNIVERSITY

Locality #: WEM 08-1 Plant Vertebrate Invertebrate Other

Formation (and subdivision, if known): UINTA FORMATION

Age: EOCENE 6. County: UINTRAH

BLM District: VERNAL, UTAH 8. Resource Area: UINTA BASIN

Map name: PARIETTE DRAW SW 10. Map source: U.S.G.S.

Map size: 7.5' 12. Map edition: 1964

Latitude (deg., min., sec., direction): N 40° 03' 37.6"

Longitude (deg., min., sec., direction): W 109° 59' 52.8"

UTM Grid Zone: _____ m E _____ m N

Survey (Sec., T & R): SW 1/4, NW 1/4, SECTION 3, T9S, R17E

Taxa Collected/observed: ? BRENTOTHERIUM, UNIDENTIFIED MAMMAL

NO TURTLE - UNIDENTIFIED INVERTEBRATE TRACE FOSSILS.

Collector: WADE E. MILLER 18. Date: 10/9/08

Remarks: THIS SITE ON LOW RELIEF UINTA FM. STRATA IS CLOSE TO AN EARLIER FOSSIL SITE OF WEM 05-2.

H-8270-1 GENERAL PROCEDURAL GUIDANCE
FOR PALEONTOLOGICAL RESOURCE MANAGEMENT

Form 8270-3 (Temporary)
May 1994)

United States
Department of the Interior
Bureau of Land Management

Paleontological Locality Form

1. Permit #/Permittee: UT 06-003C DR. WADE E. MILLER
2. Repository/Accn.#: BRIGHAM YOUNG UNIVERSITY
3. Locality #: WEM 08-2 Plant Vertebrate Invertebrate Other
4. Formation (and subdivision, if known): UINTA FORMATION
5. Age: EOCENE 6. County: UINTAH
7. BLM District: VERNAL, UTAH 8. Resource Area: UINTA BASIN
9. Map name: PARIETTE DRAW SW 10. Map source: U.S.G.S.
11. Map size: 7.5' 12. Map edition: 1964
13. Latitude (deg., min., sec., direction): N40°05'12.7"
14. Longitude (deg., min., sec., direction): W109°54'33.0"
- or: UTM Grid Zone: _____ m E _____ m N
15. Survey (Sec., T & R): SE 1/4, SE 1/4, SECTION 29, T8S, R18E
16. Taxa Collected/observed: CRETACEOUS SPECIES AND UNIDENTIFIED
INVERTEBRATE TRACE FOSSILS IN SANDSTONE
17. Collector: WADE E. MILLER 18. Date: 10/9/08
19. Remarks: NUMEROUS IN SITU WEATHERING TURTLE SHELLS

H-8270-1 - GENERAL PROCEDURAL GUIDANCE
FOR PALEONTOLOGICAL RESOURCE MANAGEMENT

Form 8270-3 (Temporary)
May 1994)

United States
Department of the Interior
Bureau of Land Management

Paleontological Locality Form

1. Permit #/Permittee: UT 06-003C DR. WADE E. MILLER
2. Repository/Accn.#: BRIGHAM YOUNG UNIVERSITY
3. Locality #: WEM 08-2 Plant Vertebrate Invertebrate Other
4. Formation (and subdivision, if known): UINTA FORMATION
5. Age: Eocene 6. County: UINTAH
7. BLM District: VERNAL, UTAH 8. Resource Area: UINTA BASIN
9. Map name: PARIETTE DRAW SW 10. Map source: U.S.G.I.S.
11. Map size: 7.5' 12. Map edition: 1964
13. Latitude (deg., min., sec., direction): N 40° 05' 12.7"
14. Longitude (deg., min., sec., direction): W 109° 54' 33.0"
- or: UTM Grid Zone: _____ m E _____ m N
15. Survey (Sec., T & R): SE 1/4, SE 1/4, SECTION 29, T 8 S, R 18 E
16. Taxa Collected/observed: CRETACEOUS SPECIES AND UNIDENTIFIED
INVERTEBRATE TRACE FOSSILS IN SANDSTONE
17. Collector: WADE E. MILLER 18. Date: 10/9/08
19. Remarks: NUMEROUS IN SITU WEATHERING TURTLE SHELLS

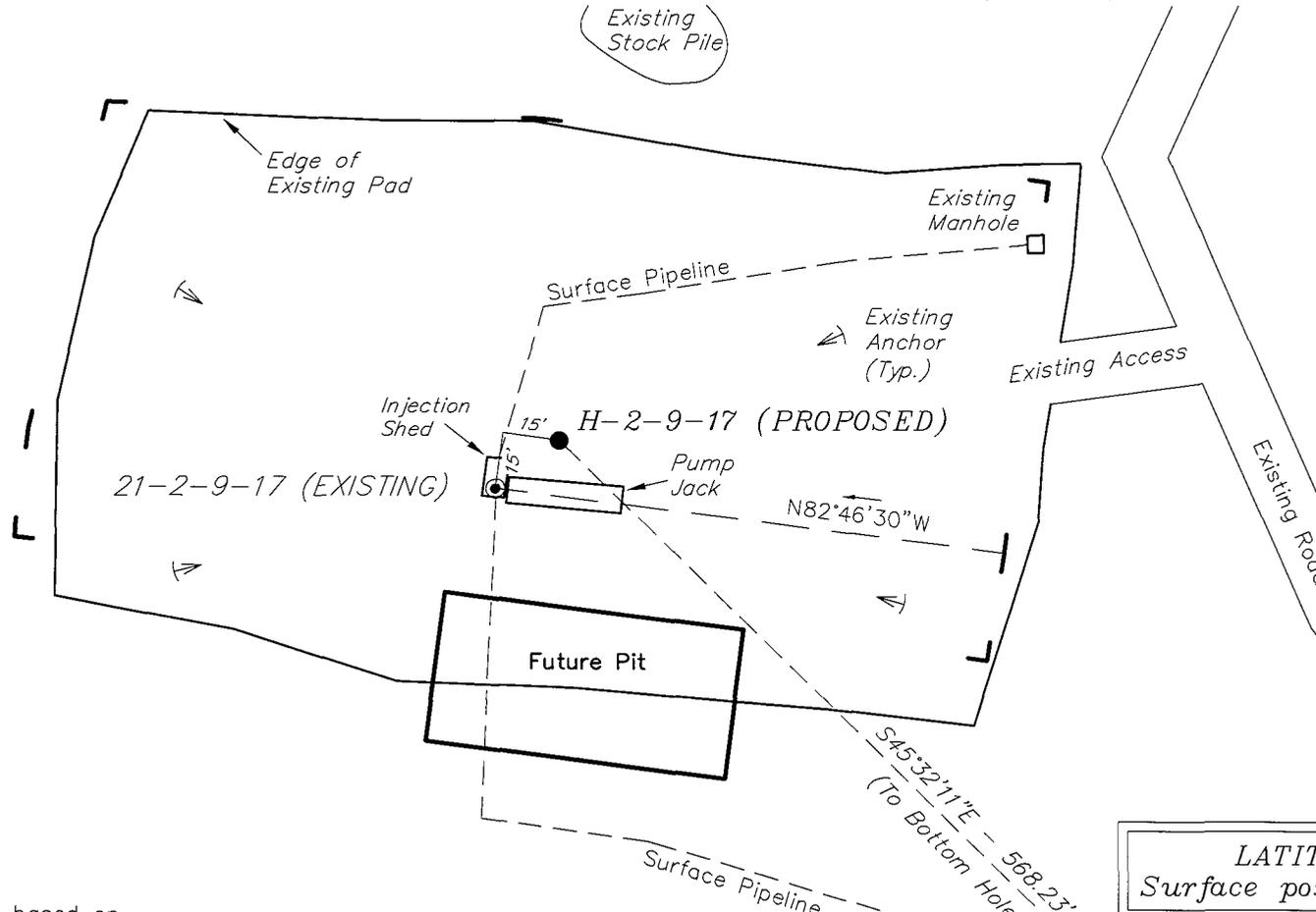
NEWFIELD PRODUCTION COMPANY

WELL PAD INTERFERENCE PLAT

CASTLE DRAW H-2-9-17 (Proposed Well)

CASTLE DRAW 21-2-9-17 (Existing Well)

Pad Location: NENW Section 2, T9S, R17E, S.L.B.&M.



TOP HOLE FOOTAGES
 H-2-9-17 (PROPOSED)
 810' FNL & 2209' FWL

BOTTOM HOLE FOOTAGES
 H-2-9-17 (PROPOSED)
 1205' FNL & 2615' FWL

Note:
 Bearings are based on
 GLO Information.

RELATIVE COORDINATES From top hole to bottom hole		
WELL	NORTH	EAST
H-2-9-17	-398'	406'

LATITUDE & LONGITUDE Surface position of Wells (NAD 83)		
WELL	LATITUDE	LONGITUDE
H-2-9-17	40° 03' 53.92"	109° 58' 31.37"
21-2-9-17	40° 03' 53.79"	109° 58' 31.58"

SURVEYED BY: T.H.	DATE SURVEYED: 01-08-08
DRAWN BY: F.T.M.	DATE DRAWN: 01-21-08
SCALE: 1" = 50'	REVISED:

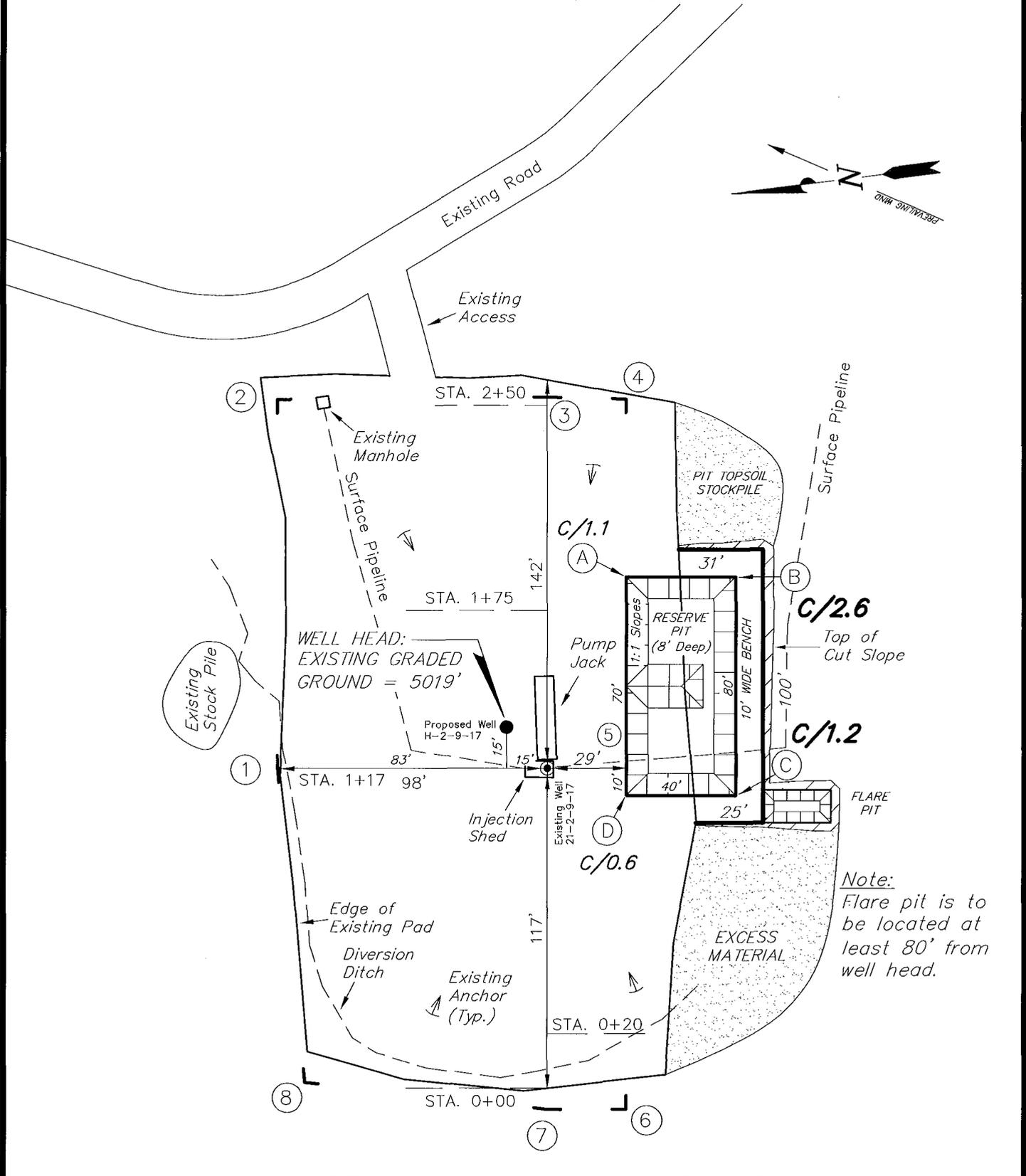
Tri State
 Land Surveying, Inc. (435) 781-2501
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD PRODUCTION COMPANY

CASTLE DRAW H-2-9-17 (Proposed Well)

CASTLE DRAW 21-2-9-17 (Existing Well)

Pad Location: NENW Section 2, T9S, R17E, S.L.B.&M.



Note:
Flare pit is to be located at least 80' from well head.

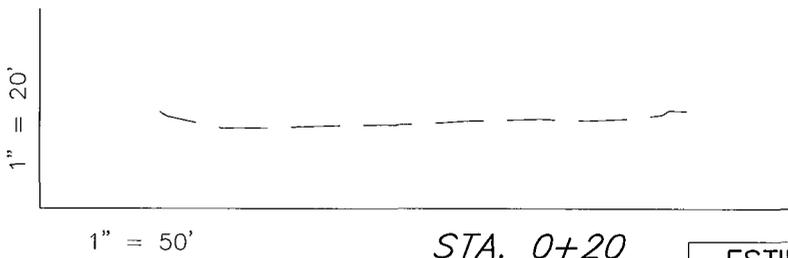
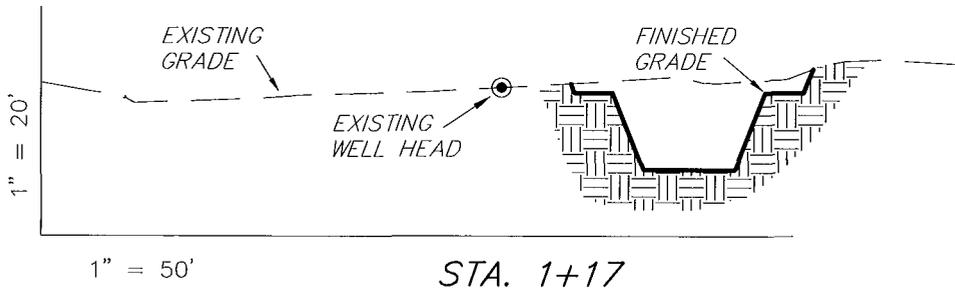
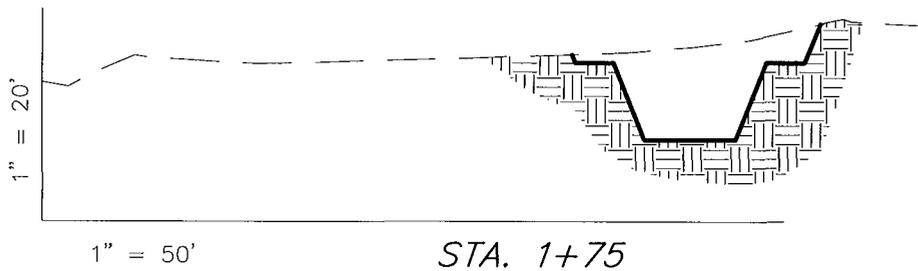
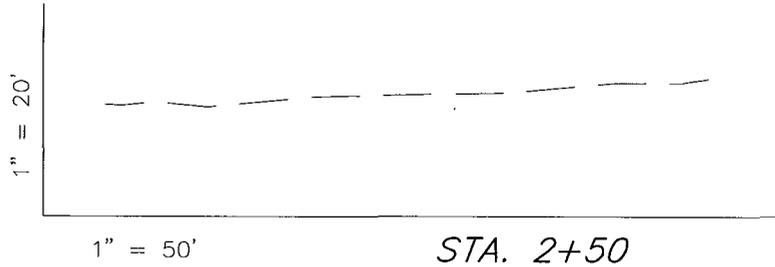
SURVEYED BY: T.H.	DATE SURVEYED: 01-08-08
DRAWN BY: F.T.M.	DATE DRAWN: 01-21-08
SCALE: 1" = 50'	REVISED:

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

NEWFIELD PRODUCTION COMPANY

CROSS SECTIONS

CASTLE DRAW H-2-9-17 (Proposed Well)
 CASTLE DRAW 21-2-9-17 (Existing Well)



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

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	410	0	Topsoil is not included in Pad Cut	410
PIT	640	0		640
TOTALS	1,050	0	130	1,050

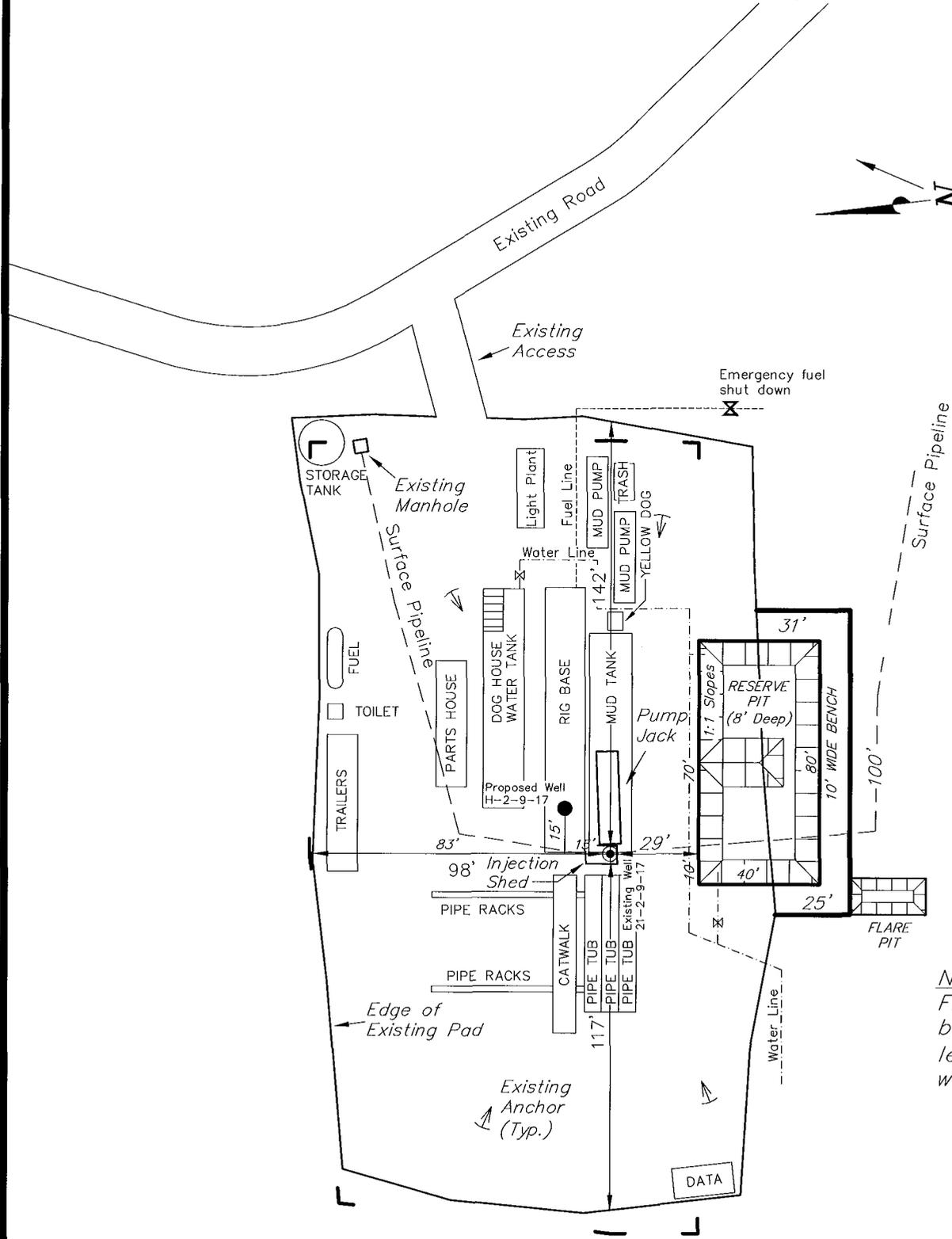
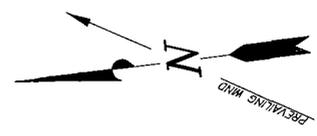
SURVEYED BY: T.H.	DATE SURVEYED: 01-08-08
DRAWN BY: F.T.M.	DATE DRAWN: 01-21-08
SCALE: 1" = 50'	REVISED:

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

NEWFIELD PRODUCTION COMPANY

TYPICAL RIG LAYOUT

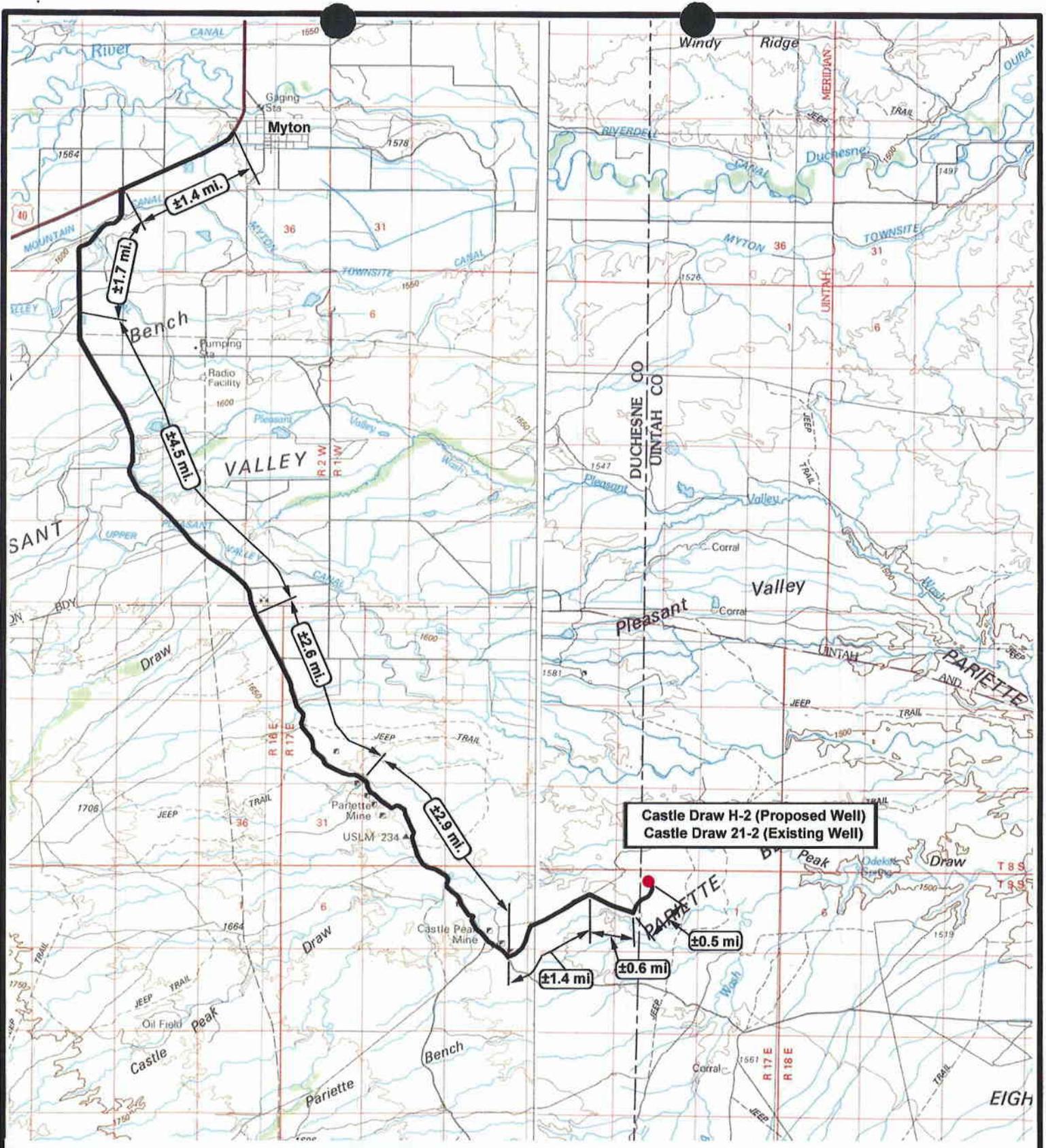
CASTLE DRAW H-2-9-17 (Proposed Well)
 CASTLE DRAW 21-2-9-17 (Existing Well)



Note:
 Flare pit is to be located at least 80' from well head.

SURVEYED BY: T.H.	DATE SURVEYED: 01-08-08
DRAWN BY: F.T.M.	DATE DRAWN: 01-21-08
SCALE: 1" = 50'	REVISED:

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



NEWFIELD
Exploration Company

Castle Draw H-2-9-17 (Proposed Well)
Castle Draw 21-2-9-17 (Existing Well)
Pad Location: NENW SEC. 2, T9S, R17E, S.L.B.&M.



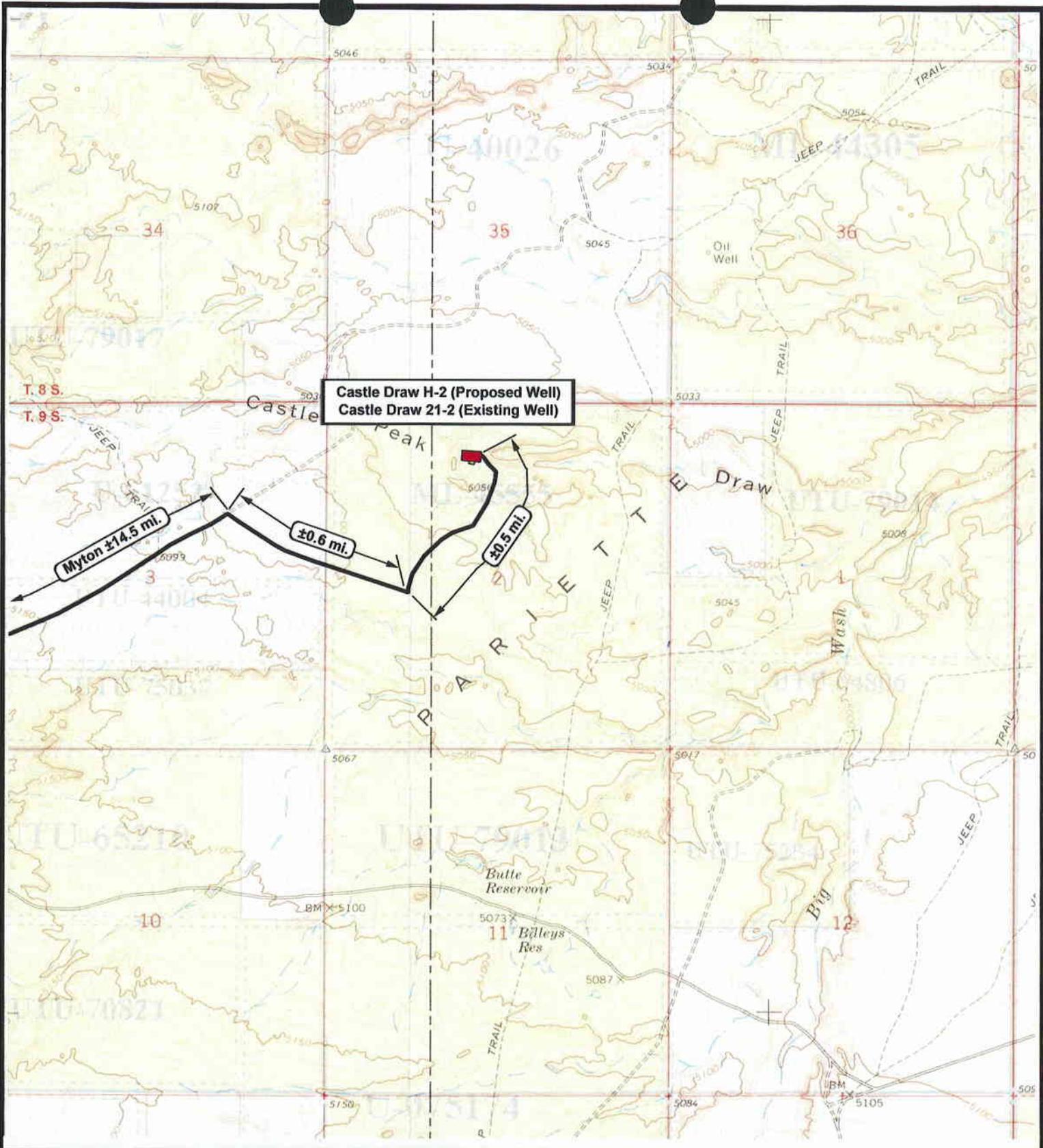
Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000
DRAWN BY: JAS
DATE: 05-30-2008

Legend

- Existing Road
- Proposed Access

TOPOGRAPHIC MAP
"A"



Castle Draw H-2 (Proposed Well)
Castle Draw 21-2 (Existing Well)

Myton ±14.5 mi.

±0.6 mi.

±0.5 mi.

NEWFIELD
Exploration Company

Castle Draw H-2-9-17 (Proposed Well)
Castle Draw 21-2-9-17 (Existing Well)
 Pad Location: NENW SEC. 2, T9S, R17E, S.L.B.&M.



Tri-State
Land Surveying Inc.
 (435) 781-2501
 180 North Vernal Ave. Vernal, Utah 84078

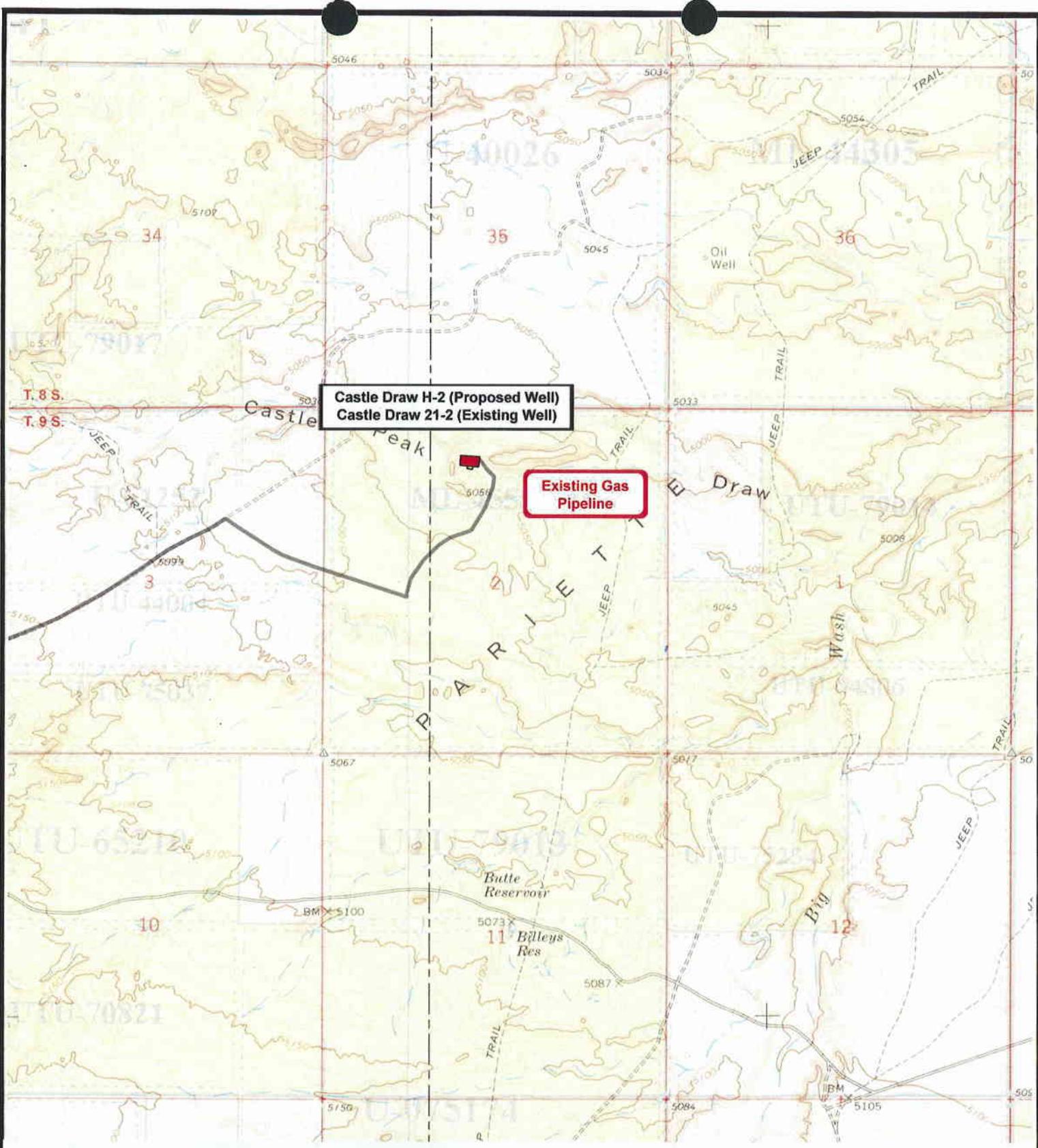
SCALE: 1" = 2,000'
 DRAWN BY: JAS
 DATE: 05-30-2008

Legend

Existing Road

TOPOGRAPHIC MAP

"B"



Castle Draw H-2-9-17 (Proposed Well)
Castle Draw 21-2-9-17 (Existing Well)
 Pad Location: NENW SEC. 2, T9S, R17E, S.L.B.&M.



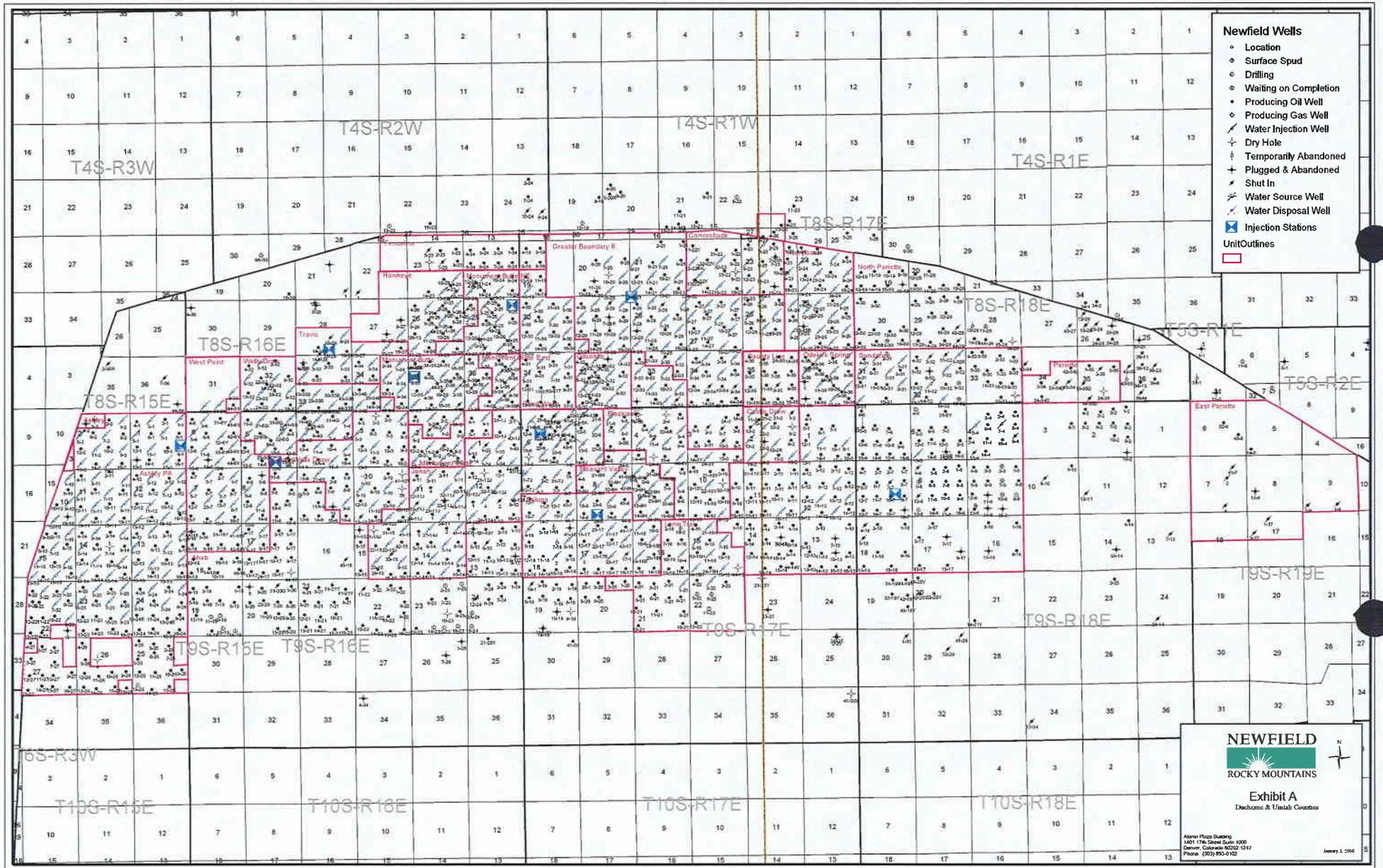
Tri-State Land Surveying Inc.
 (435) 781-2501
 180 North Vernal Ave. Vernal, Utah 84078

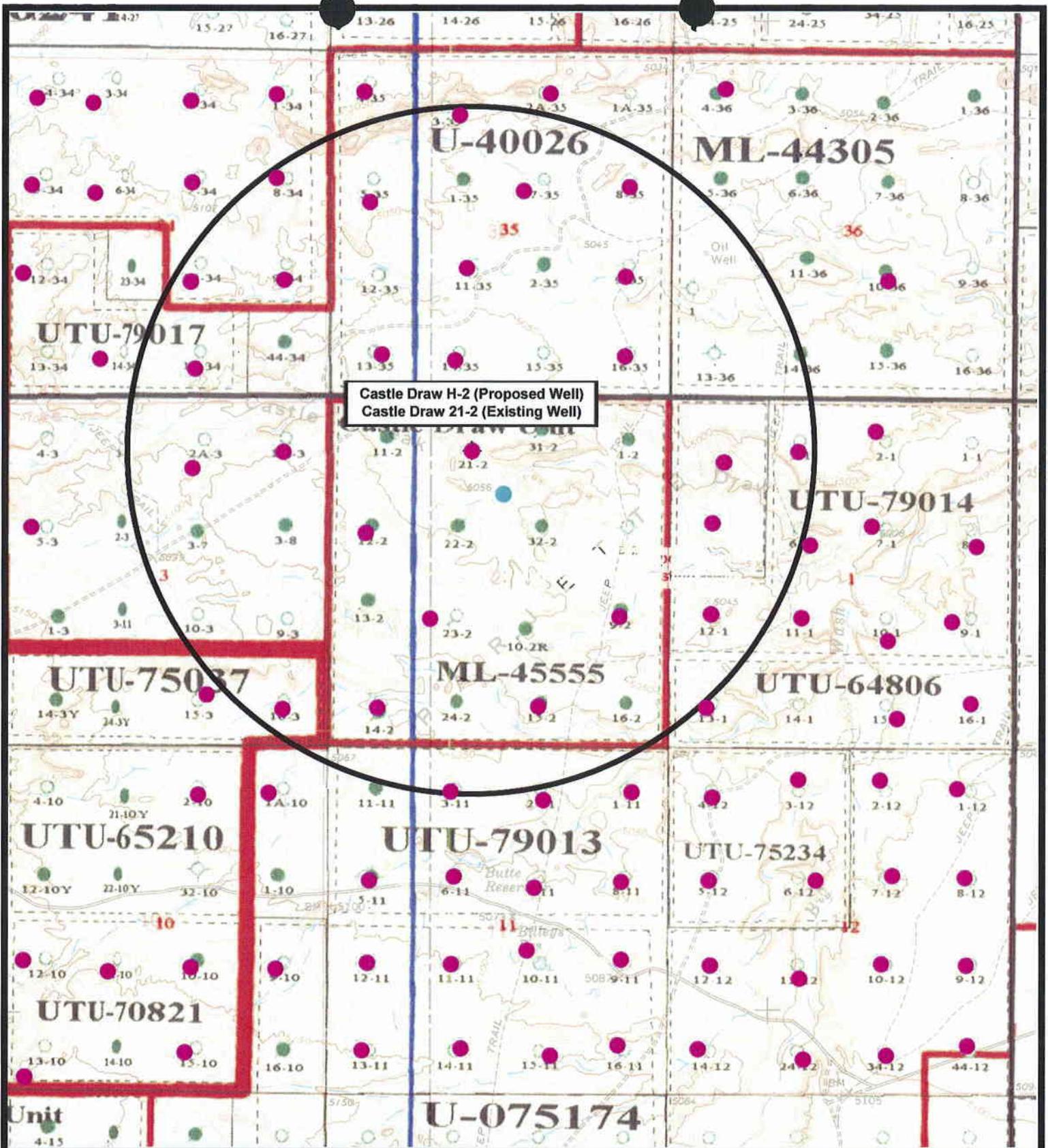
SCALE: 1" = 2,000'
 DRAWN BY: JAS
 DATE: 05-30-2008

Legend

Existing Road

TOPOGRAPHIC MAP
"C"





Castle Draw H-2 (Proposed Well)
 Castle Draw 21-2 (Existing Well)



Castle Draw H-2-9-17 (Proposed Well)
Castle Draw 21-2-9-17 (Existing Well)
 Pad Location: NENW SEC. 2, T9S, R17E, S.L.B.&M.



Tri-State
 Land Surveying Inc.
 (435) 781-2501
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'
 DRAWN BY: JAS
 DATE: 05-30-2007

Legend

- Pad Location
- Bottom Hole Location
- One-Mile Radius

Exhibit "B"

2-M SYSTEM

Blowout Prevention Equipment Systems

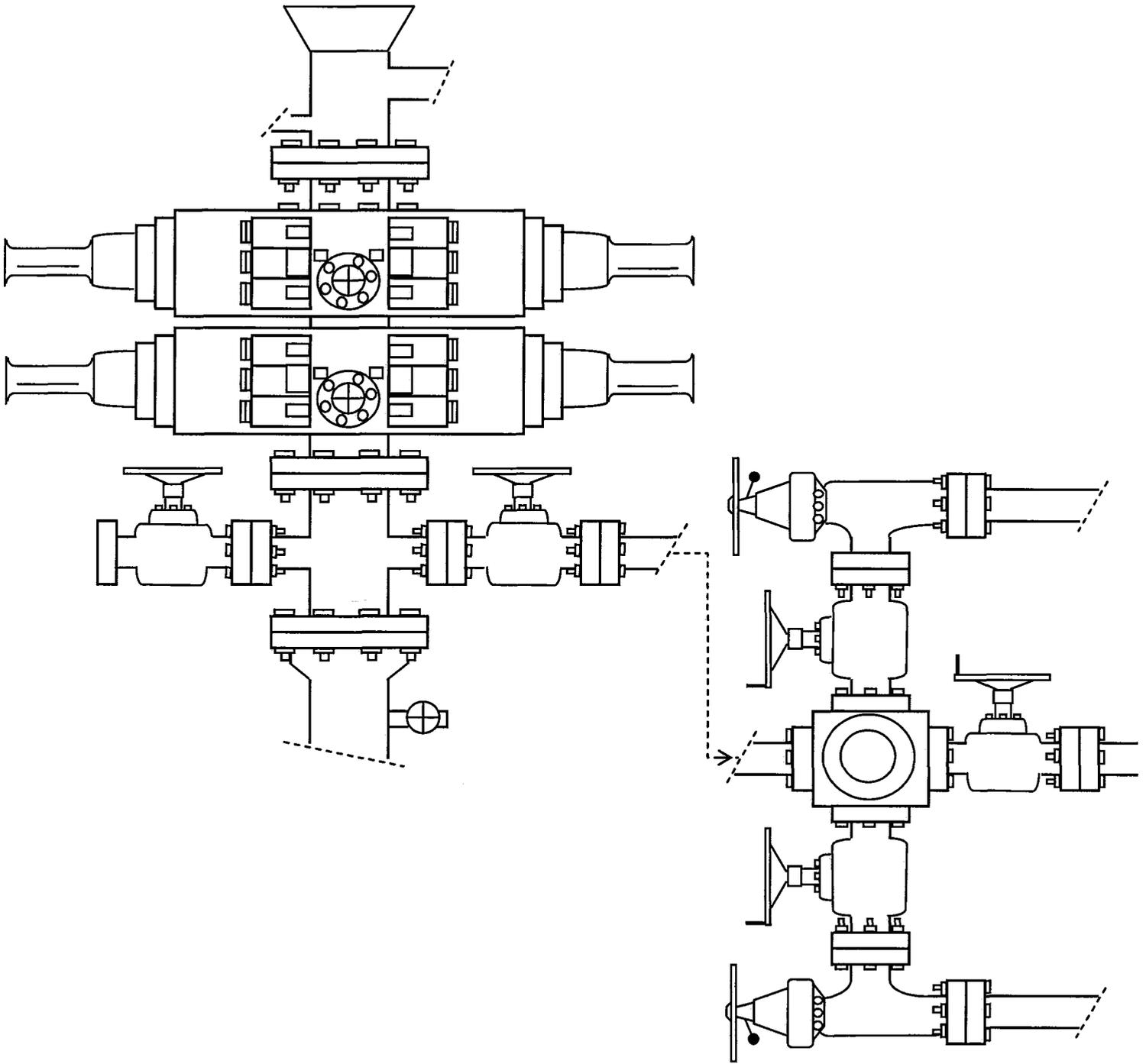


EXHIBIT C

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/30/2008

API NO. ASSIGNED: 43-047-40411

WELL NAME: CASTLE DRAW ST H-2-9-17
 OPERATOR: NEWFIELD PRODUCTION (N2695)
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:
 NENW 02 090S 170E
 SURFACE: 0810 FNL 2209 FWL
 BOTTOM: 1205 FNL 2615 FWL
 COUNTY: UINTAH
 LATITUDE: 40.06505 LONGITUDE: -109.9747
 UTM SURF EASTINGS: 587441 NORTHINGS: 4435271
 FIELD NAME: MONUMENT BUTTE (105)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DRC	1/12/09
Geology		
Surface		

LEASE TYPE: 3 - State
 LEASE NUMBER: ML-45555
 SURFACE OWNER: 3 - State

PROPOSED FORMATION: GRRV
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

Plat
 Bond: Fed[] Ind[] Sta[] Fee[]
 (No. B001834)
 Potash (Y/N)
 Oil Shale 190-5 (B) or 190-3 or 190-13
 Water Permit
 (No. 43-7478)
 RDCC Review (Y/N)
 (Date: _____)
 Fee Surf Agreement (Y/N)
 Intent to Commingle (Y/N)

LOCATION AND SITING:

R649-2-3.
 Unit: CASTLE DRAW *Enhanced Recovery*
R649-3-2. General
 Siting: 460 From Qtr/Qtr & 920' Between Wells
R649-3-3. Exception
 Drilling Unit
 Board Cause No: 228-3
 Eff Date: 10-25-1995
 Siting: *Suspends General Siting*
 R649-3-11. Directional Drill

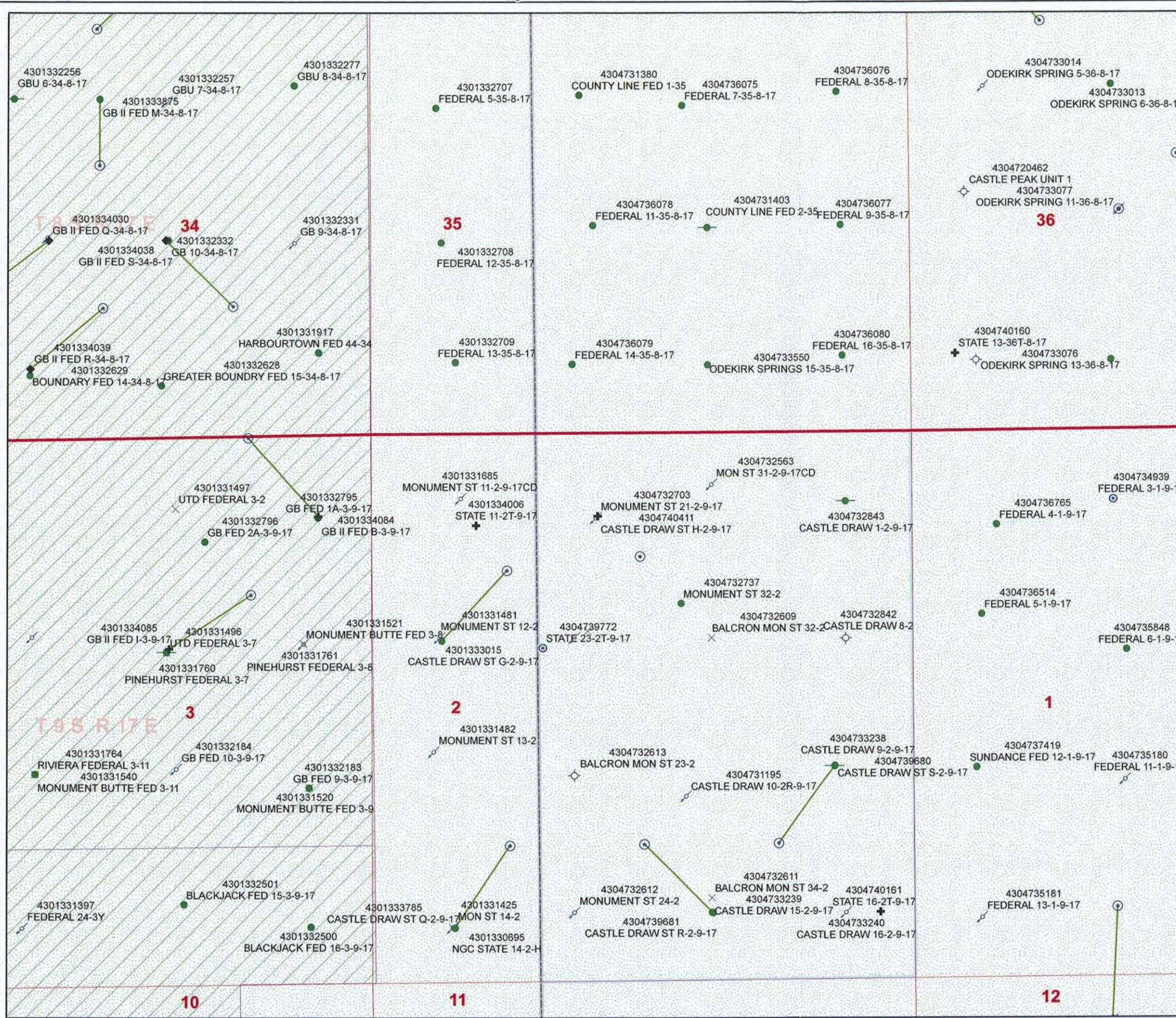
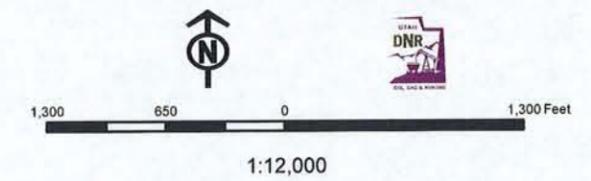
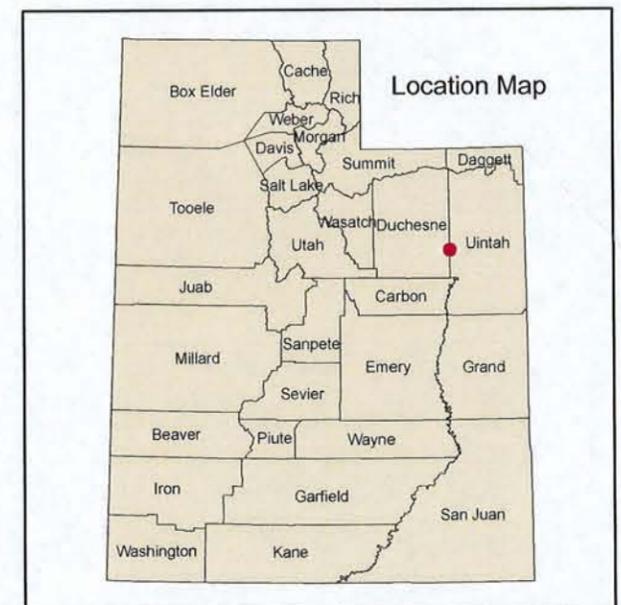
COMMENTS: Needs Present (11-12-08)

STIPULATIONS: 1- STATEMENT OF BASIS

API Number: 4304740411
Well Name: CASTLE DRAW ST H-2-9-17
Township 09.0 S Range 17.0 E Section 02
Meridian: SLBM
Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
 Map Produced by Diana Mason

Units	Wells Query Events
STATUS	✗ <call other values>
ACTIVE	GIS_STAT_TYPE
EXPLORATORY	<Null>
GAS STORAGE	APD
NF PP OIL	DRL
NF SECONDARY	GI
PI OIL	GS
PP GAS	LA
PP GEOTHERML	NEW
PP OIL	OPS
SECONDARY	PA
TERMINATED	PGW
Fields	POW
STATUS	RET
ACTIVE	SGW
COMBINED	SOW
Sections	TA
Township	TW
	WD
	WI
	WS



Application for Permit to Drill

Statement of Basis

12/11/2008

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
1171	43-047-40411-00-00		OW	S	No
Operator	NEWFIELD PRODUCTION COMPANY	Surface Owner-APD			
Well Name	CASTLE DRAW ST H-2-9-17	Unit	CASTLE DRAW		
Field	MONUMENT BUTTE	Type of Work			
Location	NENW 2 9S 17E S 810 FNL 2209 FWL	GPS Coord (UTM)	587441E 4435271N		

Geologic Statement of Basis

Newfield proposes to set 290' of surface casing at this location. The the base of the moderately saline water at this location is estimated to be at a or near the surface. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 2. 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.

Brad Hill
APD Evaluator

12/9/2008
Date / Time

Surface Statement of Basis

The proposed Castle Draw State H-2-9-17 oil well is a directional well to be drilled from the existing pad of the Castle Draw 21-2-9-17 that is an active injection well. No additions are planed to the previous disturbance. The site appears to have been stable for drilling and operating the existing well. No problems are anticipated in adding an additional well to the pad.

A diversion ditch south of the pad needs to be reconstructed to divert overland flows to the west and north around the existing pad.

Both the surface and minerals are SITLA. Jim Davis and Ed Bonner of SITLA were invited to the pre-site visit. Neither attended. Ben Williams of the Utah Division of Wildlife Resources also was invited but did not attend.

Onsite Evaluator

11/12/2008
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	Drainages adjacent to the proposed pad shall be diverted around the location.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator NEWFIELD PRODUCTION COMPANY
Well Name CASTLE DRAW ST H-2-9-17
API Number 43-047-40411-0 **APD No** 1171 **Field/Unit** MONUMENT BUTTE
Location: 1/4,1/4 NENW **Sec** 2 **Tw** 9S **Rng** 17E 810 FNL 2209 FWL
GPS Coord (UTM) 587440 4435268 **Surface Owner**

Participants

Floyd Bartlett (DOG M), Tim Eaton (Newfield Exploration Company), James Herford (BLM) and Cody Miller (Tri-State Land Surveying, Inc.)

Regional/Local Setting & Topography

The proposed Castle Draw State H-2-9-17 oil well is a directional well to be drilled from the existing pad of the Castle Draw 21-2-9-17 that is an active injection well. No additions are planned to the previous disturbance. The site appears to have been stable for drilling and operating the existing well. No problems are anticipated in adding an additional well to the pad.

A diversion ditch south of the pad needs to be reconstructed to divert overland flows to the west and north around the existing pad.

Both the surface and minerals are SITLA.

Surface Use Plan

Current Surface Use

Existing Well Pad

New Road

Miles	Well Pad	Src Const Material	Surface Formation
0	Width	Length	

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetland

Flora / Fauna

Existing pad

Soil Type and Characteristics

Erosion Issues

Sedimentation Issues

Site Stability Issues

Drainage Diversion Required Y

A diversion ditch south of the pad needs to be reconstructed to divert overland flows to the west and north around the

existing pad.

Berm Required?

Erosion Sedimentation Control Required? Y

A diversion ditch south of the pad needs to be reconstructed to divert overland flows to the west and north around the existing pad.

Paleo Survey Run?

Paleo Potential Observed?

Cultural Survey Run?

Cultural Resources?

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	300 to 1320	10
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	<10	0
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0

Final Score 25 1 Sensitivity Level

Characteristics / Requirements

A reserve pit 40' x 70' x 8' deep is planned on the south side of the location. It will be within an area of cut. A 16-mil liner with an appropriate thickness of sub-felt to cushion the rocks is required.

Closed Loop Mud Required? N

Liner Required? Y

Liner Thickness 16

Pit Underlayment Required? Y

Other Observations / Comments

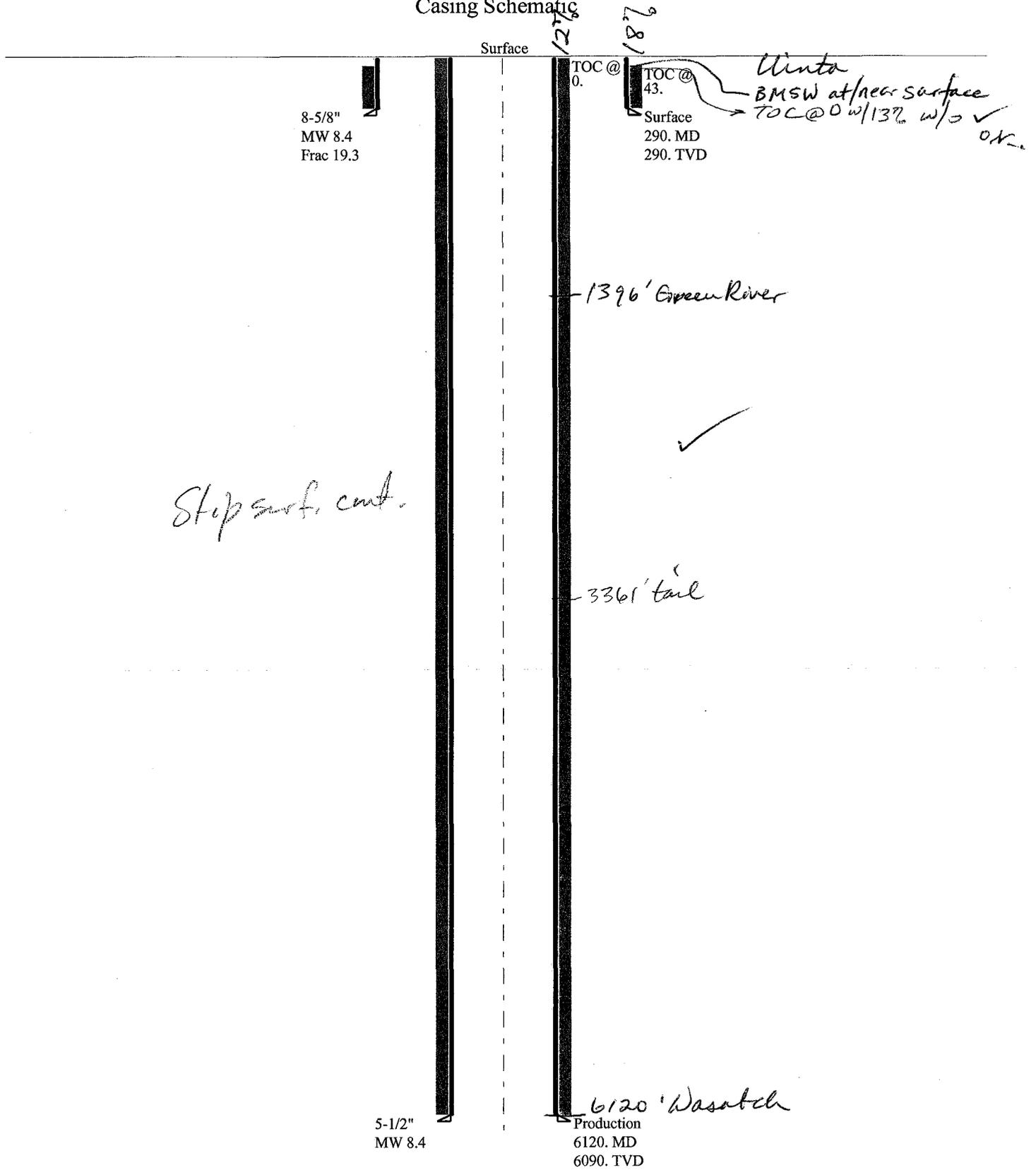
Evaluator

11/12/2008

Date / Time

43047404110000 Newfield Castle Draw ST H-2-9-17

Casing Schematic



Well name:	43047404110000 Newfield Castle Draw ST H-2-9-17	
Operator:	Newfield Production Company	Project ID:
String type:	Surface	43-047-40411-0000
Location:	Uintah County	

Design parameters:

Collapse

Mud weight: 8.400 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: 65 °F
 Bottom hole temperature: 69 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 185 ft
 Cement top: 6 ft

Burst

Max anticipated surface pressure: 255 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 290 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: 1.50 (B)

Tension is based on air weight.
 Neutral point: 253 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 6,090 ft
 Next mud weight: 8.400 ppg
 Next setting BHP: 2,657 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 290 ft
 Injection pressure: 290 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)	Internal Capacity (ft³)
1	290	8.625	24.00	J-55	ST&C	290	290	7.972	103.7

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	127	1370	10.826	290	2950	10.17	7	244	35.06 J

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

Phone: 810-538-5357

Date: January 8, 2009
 Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE
 Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
 Collapse is based on a vertical depth of 290 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes.
 Burst strength is not adjusted for tension.

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

Well name:	43047404110000 Newfield Castle Draw ST H-2-9-17	
Operator:	Newfield Production Company	Project ID:
String type:	Production	43-047-40411-0000
Location:	Uintah County	

Design parameters:

Collapse

Mud weight: 8,400 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: 65 °F
 Bottom hole temperature: 150 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 368 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 1,318 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 2,657 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: 1.50 (B)

Tension is based on air weight.
 Neutral point: 5,342 ft

Directional Info - Build & Hold

Kick-off point 600 ft
 Departure at shoe: 569 ft
 Maximum dogleg: 1.5 °/100ft
 Inclination at shoe: 6.14 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	6120	5.5	15.50	J-55	LT&C	6090	6120	4.825	817.9
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	2657	4040	1.520	2657	4810	1.81	94	217	2.30 J

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

Phone: 810-538-5357

Date: January 8, 2009
 Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
 Collapse is based on a vertical depth of 6090 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes.
 Burst strength is not adjusted for tension.
 Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

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

BOPE REVIEW

Newfield Castle Draw ST H-2-9-17

API 43-047-40411-0000

INPUT

Well Name

Newfield Castle Draw ST H-2-9-17		API 43-047-40411-0000	
String 1	String 2		
Casing Size (")	8 5/8	5 1/2	
Setting Depth (TVD)	290	6090	
Previous Shoe Setting Depth (TVD)	0	290	
Max Mud Weight (ppg)	8.4	8.4	✓
BOPE Proposed (psi)	0	2000	
Casing Internal Yield (psi)	2950	4810	
Operators Max Anticipated Pressure (psi)	2637	8.3 ppg	✓

Calculations	String 1	8 5/8 "	
Max BHP [psi]	$.052 \times \text{Setting Depth} \times \text{MW} =$	127	
MASP (Gas) [psi]	Max BHP - (0.12 * Setting Depth) =	92	BOPE Adequate For Drilling And Setting Casing at Depth? NO <i>O.K.</i> Air drill
MASP (Gas/Mud) [psi]	Max BHP - (0.22 * Setting Depth) =	63	NO
Pressure At Previous Shoe	Max BHP - .22 * (Setting Depth - Previous Shoe Depth) =	63	*Can Full Expected Pressure Be Held At Previous Shoe? NO <i>O.K.</i>
Required Casing/BOPE Test Pressure		290 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		0 psi	*Assumes 1psi/ft frac gradient

Calculations	String 2	5 1/2 "	
Max BHP [psi]	$.052 \times \text{Setting Depth} \times \text{MW} =$	2660	
MASP (Gas) [psi]	Max BHP - (0.12 * Setting Depth) =	1929	BOPE Adequate For Drilling And Setting Casing at Depth? YES Air Drill
MASP (Gas/Mud) [psi]	Max BHP - (0.22 * Setting Depth) =	1320	YES <i>O.K.</i>
Pressure At Previous Shoe	Max BHP - .22 * (Setting Depth - Previous Shoe Depth) =	1384	*Can Full Expected Pressure Be Held At Previous Shoe? NO <i>Reasonable for area</i>
Required Casing/BOPE Test Pressure		2000 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		290 psi	*Assumes 1psi/ft frac gradient



October 31, 2008

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

RE: Directional Drilling
Castle Draw State H-2-9-17
Castle Draw Unit
Surface Hole: T9S R17E, Section 2: NENW
810' FNL 2209' FWL
Bottom Hole: T9S R17E, Section 2
1205' FNL 2615' FWL
Uintah County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated October 20, 2008, a copy of which is attached, for the above referenced well, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole location and bottom hole location of this well are both within the boundaries of the Castle Draw Unit, which is covered entirely by State of Utah lease ML-45555. Newfield certifies that it is the Castle Draw Unit Operator and all lands within 460 feet of the entire directional well bore are within the Castle Draw Unit.

NPC is permitting this well as a directional well in order to minimize surface disturbance. By directionally drilling from the referenced surface location, NPC will be able to utilize the existing roads and pipelines in this area.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please 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,

A handwritten signature in cursive script that reads "Roxann Eveland".

Roxann Eveland
Land Associate

Attachments

RECEIVED
NOV 05 2008
DIV. OF OIL, GAS & MINING

STATE OF UTAH
 DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN		5. LEASE DESIGNATION AND SERIAL NO. ML-45555	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
1a. TYPE OF WORK DRILL <input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/>	7. UNIT AGREEMENT NAME Castle Draw		
1b. TYPE OF WELL OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER <input type="checkbox"/>	8. FARM OR LEASE NAME Castle Draw		
2. NAME OF OPERATOR Newfield Production Company		9. WELL NO. Castle Draw State H-2-9-17	
3. ADDRESS AND TELEPHONE NUMBER: Route #3 Box 3630, Myton, UT 84052 Phone: (435) 646-3721		10. FIELD AND POOL OR WILDCAT Monument Butte	
4. LOCATION OF WELL (FOOTAGE) At Surface NE/NW 810' FNL 2209' FWL At proposed Producing Zone 1205' FNL 2615' FWL		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NE/NW Sec. 2, T9S, R17E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approximately 15.6 miles southeast of Myton, UT		12. County Uintah	13. STATE UT
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) Approx. 1205' f/lse line and 1205' f/unit line	16. NO. OF ACRES IN LEASE 640.20	17. NO. OF ACRES ASSIGNED TO THIS WELL 20	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. Approximately 812' (Down Hole)	19. PROPOSED DEPTH 6090'	20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5019' GL		22. APPROX. DATE WORK WILL START* 1st Quarter 2009	

23. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24#	290'	155 sx +/- 10%
7 7/8	5 1/2	15.5#	TD	275 sx lead followed by 450 sx tail
				See Detail Below

DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

*The actual cement volumes will be calculated off of the open hole logs, plus 15% excess:

SURFACE PIPE - 155 sx Class G Cement +/- 10%, w/ 2% CaCl2 & 1/4#/sk Cello-flake
 Weight: 15.8 PPG YIELD: 1.17 Cu Ft/sk H2O Req: 5 gal/sk

LONG STRING - Lead: Premium Lite II Cement + 3lbs/sk BA-90 + 3% KCl + .25 lbs/sk Cello Flake + 2 lbs/sk Kol Seal + 10% Bentonite + .5% Sodium Metasilicate
 Weight: 11.0 PPG YIELD: 3.43 Cu Ft/sk H2O Req: 21.04 gal/sk

Tail: 50-50 Poz-Class G Cement + 3% KCl + .25 lbs/sk Cello Flake + 2% Bentonite + .3% Sodium Metasilicate
 Weight: 14.2 PPG YIELD: 1.59 Cu Ft/sk H2O Req: 7.88 gal/sk

24. Name & Signature: *Mandie Crozier* Title: Regulatory Specialist Date: 10/20/2008
Mandie Crozier

(This space for State use only)

API Number Assigned: _____ APPROVAL: _____

RECEIVED

NOV 05 2008

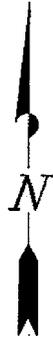
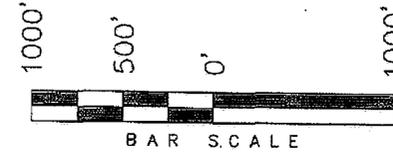
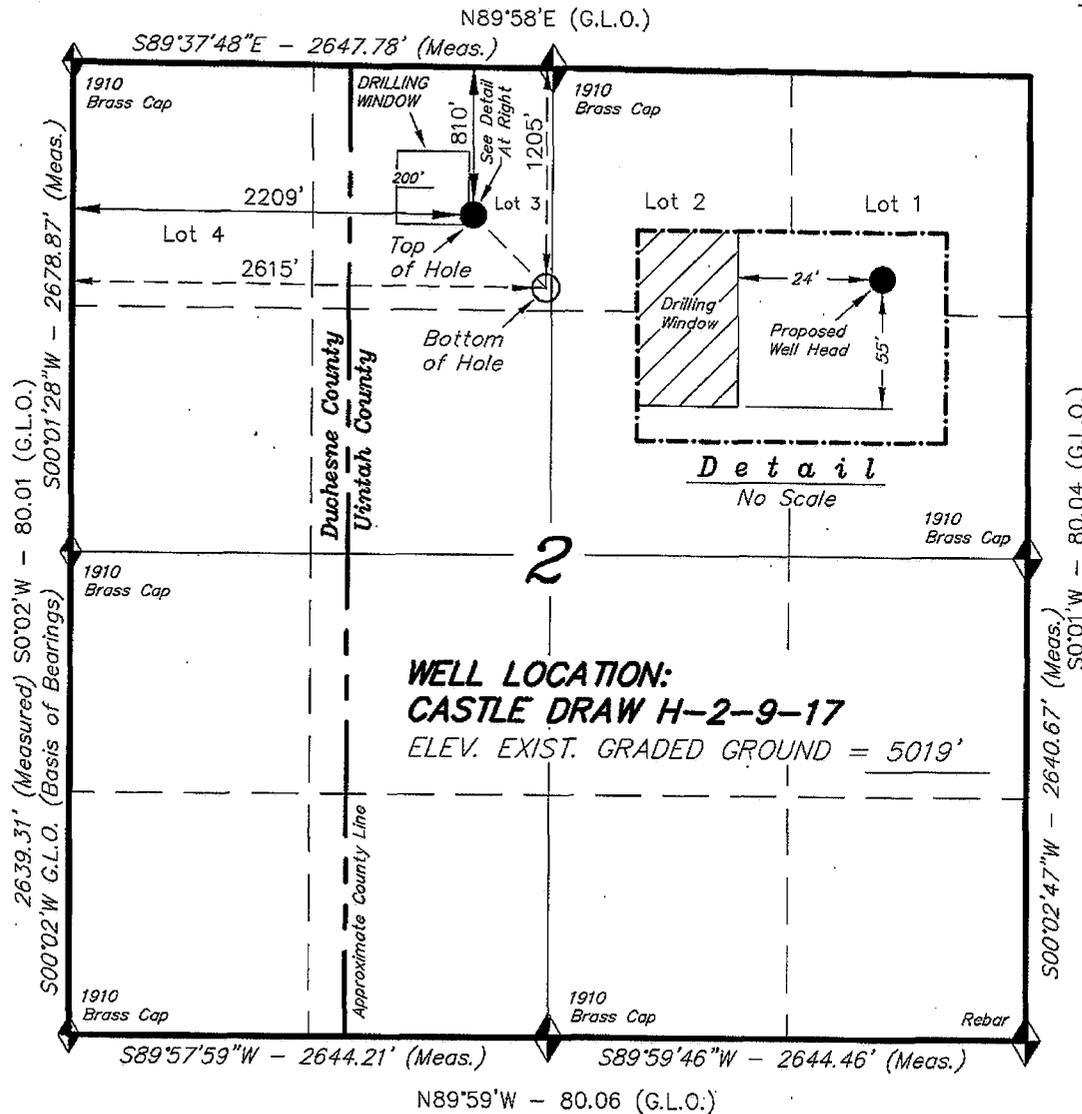
DIV. OF OIL, GAS & MINING

*See Instructions On Reverse Side

T9S, R17E, S.L.B.&M.

NEWFIELD PRODUCTION COMPANY

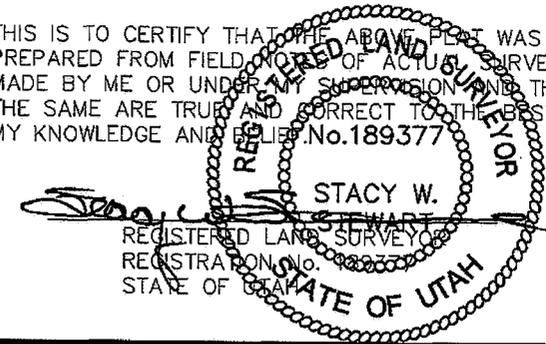
WELL LOCATION, CASTLE DRAW H-2-9-17,
 LOCATED AS SHOWN IN THE NE 1/4 NW
 1/4 (LOT 3) OF SECTION 2, T9S, R17E,
 S.L.B.&M. UTAH COUNTY, UTAH.



Note:

1. The Bottom of hole bears S45°32'11"E 568.23' from the Top of Hole.

THIS IS TO CERTIFY THAT THE ABOVE PLOT 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. No.189377



TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
 (435) 781-2501

DATE SURVEYED: 01-08-08	SURVEYED BY: T.H.
DATE DRAWN: 01-21-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;
 U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

CASTLE DRAW H-2-9-17
 (Surface Location) NAD 83
 LATITUDE = 40° 03' 53.92"
 LONGITUDE = 109° 58' 31.37"

From: Jim Davis
To: Mason, Diana
Date: 1/20/2009 5:10 PM
Subject: Newfield approvals (2)

The following wells have been approved by SITLA, including arch clearance. These are new wells going onto existing pads. Paleo is not being required because no new disturbance will occur.

Gilsonite ST R-32-8-17 (API 4301334093)

Castle Draw ST H-2-9-17 (API 4304740411)

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
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

January 21, 2009

Newfield Production Company
Rt. #3, Box 3630
Myton, UT 84052

Re: Castle Draw State H-2-9-17 Well, 810' FNL, 2209' FWL, NE NW, Sec. 2, T. 9 South,
R. 17 East, Bottom Location 1205' FNL, 2615' FWL, NE NW, Sec. 2, T. 9 South,
R. 17 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

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. The API identification number assigned to this well is 43-047-40411.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
SITLA
Bureau of Land Management, Vernal Office



Operator: Newfield Production Company
Well Name & Number Castle Draw State H-2-9-17
API Number: 43-047-40411
Lease: ML-45555

Location: NE NW Sec. 2 T. 9 South R. 17 East
Bottom Location: NE NW Sec. 2 T. 9 South R. 17 East

Conditions of Approval

1. 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.

2. Notification Requirements

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

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

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

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

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

- Dan Jarvis at: (801) 538-5338 office (801) 942-0871 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

Page 2

43-047-40411

January 21, 2009

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. 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.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Green River District-Vernal Field Office

170 South 500 East

Vernal, UT 84078

(435) 781-4400 Fax: (435) 781-4410

<http://www.blm.gov/ut/st/en/fo/vernal/html>



IN REPLY REFER TO:
3160
LLUTG01100

February 26, 2009

Mandie Crozier
Newfield Production Company
Route 3, Box 3630
Myton, UT 84052

43 047 40411
Re: Well No. Castle Draw State H-2-9-17
NENW, Sec. 2, T9S, R17E
Uintah County, Utah
Lease No. ML-45555 State
Castle Draw Unit (State Unit Only)

Dear Mandie:

The Application for Permit to Drill (APD) for the above referenced well submitted October 29, 2008 is being returned unapproved/accepted per your email message to Pete Magee on February 18, 2009. Your email message stated that this is strictly a State APD. If located in a unit it would have been Accepted for Unit Purposes Only. Mineral and surface ownership for this well is the State of Utah.

If you have any questions regarding APD processing, please contact me at (435) 781-4455.

Sincerely,

Cindy Severson

Cindy Severson
Land Law Examiner

cc: UDOGM

RECEIVED
MAR 02 2009
DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML-45555
---	---

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: GMBU (GRRV)
--	---

1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: CASTLE DRAW ST H-2-9-17
------------------------------------	--

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43047404110000
--	---

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
--	--	--

4. LOCATION OF WELL FOOTAGES AT SURFACE: 0810 FNL 2209 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 02 Township: 09.0S Range: 17.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/21/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <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 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 checked="" type="checkbox"/> APD EXTENSION OTHER:

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

Newfield requests to extend the permit to drill this well for one year.

Approved by the Utah Division of Oil, Gas and Mining

Date: January 28, 2010

By:

NAME (PLEASE PRINT) Mandie Crozier	PHONE NUMBER 435 646-4825	TITLE Regulatory Tech
SIGNATURE N/A		DATE 1/26/2010



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047404110000

API: 43047404110000

Well Name: CASTLE DRAW ST H-2-9-17

Location: 0810 FNL 2209 FWL QTR NENW SEC 02 TWP 090S RNG 170E MER S

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 1/21/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
- Has the approved source of water for drilling changed? Yes No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
- Is bonding still in place, which covers this proposed well? Yes No

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

Signature: Mandie Crozier

Date: 1/26/2010

Title: Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY

Date: January 28, 2010

By: 

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on page 2

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone (include area code)
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
0473 FNL 0692 FEL
NENE Section 1 T5S R1E

5. Lease Serial No.
MON BUTTE EDA 20G0005609

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

8. Well Name and No.
UTE TRIBAL 1-1-5-1E

9. API Well No.
4304740580

10. Field and Pool, or Exploratory Area
MYTON/TRIBAL EDA

11. County or Parish, State
UINTAH, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice _____
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 5/4/10 MIRU Ross # 21. Spud well @ 12:00 PM. Drill 314' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 316.73/KB. On 5/7/2010 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 6 bbls cement to pit. WOC. BLM was present while cementing the casing.

I hereby certify that the foregoing is true and correct (Printed/ Typed) Justin Crum	Title Drilling Foreman
Signature 	Date 06/01/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office _____	

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 and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

RECEIVED

JUN 07 2010

DIV. OF OIL, GAS & MINING

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

5. LEASE DESIGNATION AND SERIAL NUMBER:
MON BUTTE EDA 20G0005609

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. TYPE OF WELL: OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL:
FOOTAGES AT SURFACE: 0493 FNL 0692 FEL COUNTY: Uintah

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NENE, 1, T5S, R1E STATE: UT

8. WELL NAME and NUMBER:
UTE TRIBAL 1-1-5-1E

9. API NUMBER:
4304740580

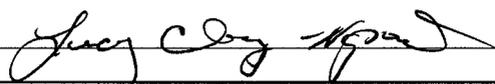
10. FIELD AND POOL, OR WILDCAT:
MYTON/TRIBAL EDA

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 06/05/2010	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
The above subject well was completed on 06-05-10, attached is a daily completion status report.

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant

SIGNATURE  DATE 06/09/2010

(This space for State use only)

RECEIVED
JUN 14 2010
DIV. OF OIL, GAS & MINING

Daily Activity Report

Format For Sundry

UTE TRIBAL 1-1-5-1E

4/1/2010 To 8/30/2010

5/21/2010 Day: 1

Completion

Rigless on 5/21/2010 - Ran CBL & shot 1st stage - Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6464' & cement top @ 410'. Perforate stage #1, BsCarb @ 6240-42', 6230-32', 6221-23', 6208-12' & 6192-94" w/ 3 1/8" Port plug guns (11 gram .36" EH 16.82" pen) w/ 3 spf for total of 36 shots. 154 BWTR. SIWFN.

Daily Cost: \$0

Cumulative Cost: \$12,900

5/28/2010 Day: 2

Completion

Rigless on 5/28/2010 - MIRU BJ Services & Perforators LLC. Frac 1st stage. SIWFN w/ 2061 BWTR. High winds. - MIRU BJ Services & Perforators LLC. Frac 1st stage. SIWFN w/ 2061 BWTR. High winds.

Daily Cost: \$0

Cumulative Cost: \$18,800

5/29/2010 Day: 3

Completion

Rigless on 5/29/2010 - Perforate & frac last 3 stages. Flowback well. SIWFN w/ 3426 BWTR. - Perforate & frac last 3 stages as shown in Perforations & Stimulations tab. Flowback well for est 6 hrs. Rec est 1080 BTF. SIWFN w/ 3426 BWTR

Daily Cost: \$0

Cumulative Cost: \$134,379

6/2/2010 Day: 4

Completion

Rigless on 6/2/2010 - MIRU Perforators LLC. Set Weatherford kill plug @ 4900'. Bleed off pressure. RD WL. SIWFN w/ 3436 BWTR. - MIRU Perforators LLC WLT, Crane & lubricator. 500 psi on well. Heat waves hot oiler pumped 10 bbls of wtr down csg @ 150°. RIH w/ Weatherford 5 1/2" solid composite kill plug. Set plug @ 4900'. Bleed off pressure. RD WL. SIWFN w/ 3436 BWTR.

Daily Cost: \$0

Cumulative Cost: \$143,229

6/3/2010 Day: 5

Completion

Nabors #147 on 6/3/2010 - MIRU Nabors #147. Change out BOP & WH. PU & RIH w/ tbg & bit. Drill out kill plug & 1st CBP. SIWFN w/ 3351 BWTR. - MIRU Nabor #147. Bleed off pressure. ND Cameron BOP & 5M WH. NU 3M WH & Schaffer BOP. Talley, PU & RIH w/ 4 3/4" chomp bit & 2 7/8" J-55 tbg. Tagged kill plug @ 4900'. RU washington rubber & Nabors power swivel. Drill out kill plug. Continue swiveling in hole w/ tbg. Tagged plug @ 5040'. Drill out plug. Circulate well clean. SIWFN w/ 3351 BWTR.

Daily Cost: \$0

Cumulative Cost: \$149,809

6/4/2010 Day: 6

Completion

Nabors #147 on 6/4/2010 - D/O 2 CBP's. C/O to PBTB. Swab. C/O to PBTB. TOH w/ 104 jts of tbg. SIWFN w/ 3188 BWTR. - 400 psi on csg, 0 psi on tbg. Drill out remaining 2 CBP's. Tagged fill @ 6413'. C/O to PBTB @ 6503'. LD 1 jt of tbg. RU swab equipment. IFL @ surface. Made 17 swab runs. FFL @ 2900'. Rec. 163 BTF. RD swab equipment. RIH w/ 1 jt of tbg. Tagged fill @ 6498'. C/O to PBTB @ 6305'. LD 7 jts of tbg. TOH w/ 104 jts of tbg. SIWFN w/ 3188 BWTR.

Daily Cost: \$0

Cumulative Cost: \$155,706

6/5/2010 Day: 7

Completion

Nabors #147 on 6/5/2010 - Finish TOH w/ tbg. TIH w/ production tbg. Set TA, Land. PU & RIH w/ "A" grade rod string. Hang head, Space out rods. Pressure test to 800 psi. RDMOSU. POP @ 8:00 PM w/ 120" SL @ 4 1/2 SPM. 3135 BWTR. FINAL REPORT!!! - 50 psi on csg, 100 psi on tbg. Pump 80 bbls down tbg. Continue to TOH w/ tbg. LD bit & bit sub. PU & TIH w/ production tbg as follows: NC, 1 jt, SN, 2 jts, TA & 197 jts of 2 7/8" J-55 tbg. ND BOP. Set TA w/ 18,000#'s of tension. NU WH. Flush tbg w/ 40 BW. PU & RIH w/ "A" grade rod string as follows: Central hydraulic 2 1/2" X 1 3/4" X 24' RHAC, 6- 1 1/2" wt bars, 20- 3/4" guided rods, 124- 3/4" plain rods, 99- 7/8" guided rods, 1 1/2" X 26' polish rod. Hang head, Space out rods. Pressure test to 800 psi. RDMOSU. POP @ 8:00 PM w/ 120" SL @ 4 1/2 SPM. 3135 BWTR. FINAL REPOPRT!!! **Finalized**

Daily Cost: \$0

Cumulative Cost: \$230,827

Pertinent Files: Go to File List

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

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTAH STATE ML-45555

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:
GMBU

1. TYPE OF WELL: OIL WELL GAS WELL OTHER

8. WELL NAME and NUMBER:
CASTLE DRAW H-2-9-17

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
4304740411

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

10. FIELD AND POOL, OR WILDCAT:
GREATER MB UNIT

4. LOCATION OF WELL: FOOTAGES AT SURFACE: COUNTY: UINTAH

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: , 2, T9S, R17E STATE: UT

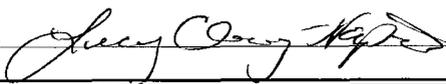
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

The above subject well was completed on 07-05-10, attached is a daily completion status report.

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant

SIGNATURE  DATE 07/07/2010

(This space for State use only)

RECEIVED
JUL 12 2010
DIV. OF OIL, GAS & MINING

Daily Activity Report

Format For Sundry

CASTLE DRAW H-2-9-17

4/1/2010 To 8/30/2010

6/16/2010 Day: 1

Completion

Rigless on 6/16/2010 - Run CBL & perforate 1st stage. - Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6065' & cement top @ 56'. Perforate stage #1, CP5 sds @ (5880'-86') w/ 3 1/8" Port plug guns (11 gram .36" EH 16.82" pen) w/ 3 spf for total of 18 shots. CP4 sds @ (5817'-20') w/ 3 1/8" Port plug guns (11 gram .36" EH 16.82" pen) w/ 3 spf for total of 9 shots. RD H/O truck & The Perforators WLT & mast. Wait on frac crew

Daily Cost: \$0

Cumulative Cost: \$11,974

6/25/2010 Day: 2

Completion

Rigless on 6/25/2010 - Frac well. - RU PSI wireline. Set CBP & perf A3/A1 sds as shown in perforation report. RU BJ Services. Frac A1/A3 sds as shown in stimulation report. 1166 BWTR. - RU PSI wireline. Set CBP & perf GB6 sds as shown in perforation report. RU BJ Services. Frac GB6 sds as shown in stimulation report. RD BJ Services & PSI wireline. Open well to pit for immediate flowback @ approx. 3 bpm. Well flowed for 7 hrs & died. Recovered 800 bbls water. SWIFN. 1048 BWTR. - RU PSI wireline. Set CBP & perf CP.5 sds as shown in perforation report. RU BJ Services. Frac CP.5 sds as shown in stimulation report. 768 BWTR. - RU BJ Services. Frac CP4/CP5 sds as shown in stimulation report. 479 BWTR. - RU PSI wireline. Set CBP & perf C/D2 sds as shown in perforation report. RU BJ Services. Frac C/D2 sds as shown in stimulation report. 1547 BWTR.

Daily Cost: \$0

Cumulative Cost: \$84,326

6/28/2010 Day: 3

Completion

Stone #8 on 6/28/2010 - MIRU Stone #8. Set kill plug. ND Cameron BOP. NU Schaeffer BOP. RIH w/ tbg. Tag CBP. SWIFN. - MIRU Stone #8. 500 psi on well. RU The Perforators wireline. Set kill plug @ 4240'. Bleed off well. ND Cameron BOP & 5m frac head. NU 3m production head & Schaeffer BOP. RIH w/ 4 3/4" chomp bit, bit sub & new 2 7/8" tbg. from pipe racks (tallying & drifting). Tag CBP @ 4240'. RU powerswivel & pump. SWIFN. 1048 BWTR.

Daily Cost: \$0

Cumulative Cost: \$127,026

6/29/2010 Day: 4

Completion

Stone #8 on 6/29/2010 - DU CBPs. C/O to PBTD @ 6111'. - RIH w/ tbg. Tag CBP @ 4240'. DU CBP in 20 min. Cont. RIH w/ tbg. Tag 4355'. C/O to CBP @ 4370'. DU CBP in 20 min. Cont. RIH w/ tbg. Tag 4958'. C/O to CBP @ 4980'. DU CBP in 5303'. Had to shut down to heat & transfer oil out of flattank. Flowline is not ready for use. Transferred 100 bbls oil. C/O to CBP @ 5330'. DU CBP in 20 min. Cont. RIH w/ tbg. Tag 5618'. C/O to CBP @ 5630'. DU CBP in 20 min. Cont. RIH w/ tbg. Tag 5981'. C/O to PBTD @ 6111'. Circulate well clean. Pull up to 6015'. SWIFN.

Daily Cost: \$0

Cumulative Cost: \$133,256

6/30/2010 Day: 5

Completion

Stone #8 on 6/30/2010 - Swab for cleanup. POOH w/ tbg. RIH w/ production tbg. ND BOP. Set TAC. NU wellhead. - Csg. @ 350 psi, tbg. @ 250 psi. Bleed off well to flattank. Recovered 15 bbls. RIH w/ swab. SFL @ surface. Made 15 runs. Recovered 144 bbls. Total of 159 bbls recovered. Ending oil cut @ approx. 15%. EFL @ 1350'. RD swab. RIH w/ tbg. Tag PBTD @ 6111'. Circulate well clean. POOH w/ tbg. LD BHA. RIH w/ 2 7/8" notched collar, 2 jts 2 7/8" tbg., PSN, 2 jts 2 7/8" tbg., 5 1/2" TAC & 187 jts 2 7/8" tbg. ND BOP. Set TAC @ 5850' w/ 18,000# tension. NU wellhead. X-over for rods. SWIFN.

Daily Cost: \$0

Cumulative Cost: \$144,836

7/5/2010 Day: 6

Completion

Stone #8 on 7/5/2010 - RIH w/ rods. RU pumping unit. Hang off rods. Stroke test to 800 psi. Good pump action. Put well on production @ 3:00 p.m. 144" stroke length, 4 spm. Final Report. 890 BWTR. - Tbg. @ 250 psi. Bleed off tbg. Flush tbg. w/ 50 bbls water. RIH w/ Central Hydraulic 2 1/2" x 1 3/4" x 24' RHAC rod pump, 4- 1 1/2" weight bars, 131- 7/8" guided (8 per), 1- 4' x 7/8" pony sub, 1 1/2" x 30' polished rod. Seat pump. RU pumping unit. Hang off rods. Stroke test to 800 psi. Good pump action. RD. Put well on production @ 3:00 p.m. 144" stroke length, 4 spm. 890 BWTR. **Finalized**

Daily Cost: \$0

Cumulative Cost: \$185,408

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

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 810' FNL & 2209' FWL (NE/NW) SEC. 2, T9S, R17E (ML-45555)
 At top prod. interval reported below 1117' FNL & 2536' FWL (NE/NW) SEC. 2, T9S, R17E (ML-45555)
 At total depth 1286' FNL & 2595' FEL (NW/NE) SEC. 2, T9S, R17E (ML-45555)

5. Lease Serial No. M-45555

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. GMBU

8. Lease Name and Well No. CASTLE DRAW H-2-9-17

9. AFI Well No. 43-047-40411

10. Field and Pool or Exploratory MONUMENT BUTTE

11. Sec., T., R., M., on Block and Survey or Area SEC. 2, T9S, R17E

12. County or Parish Uintah 13. State UT

14. Date Spudded 05/24/2010 15. Date T.D. Reached 06/11/2010 16. Date Completed 06/30/2010 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)* 5019' GL 5031' KB

18. Total Depth: MD 6145' TVD 6101' 19. Plug Back T.D.: MD 6111' TVD 6068

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)

BHL reviewed
by HSM

2625 FWL

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	349'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6134'		275 PRIMLITE		56'	
						375 50/50 POZ			

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@ 5979'	TA @ 5850'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River			5817-5886' CP4 CP5	.36"	3	27
B) Green River			5570-5575' CP.5	.34"	3	15
C) Green River			5211-5266' A1 A3	.34"	3	27
D) Green River			4832-4938' D2 C	.34"	3	30

26. Perforation Record 4304

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

Depth Interval	Amount and Type of Material
5817-5886'	Frac w/ 15075#'s 20/40 sand in 128 bbls of Lightning 17 fluid.
5570-5575'	Frac w/ 14694#'s 20/40 sand in 129 bbls of Lightning 17 fluid.
5211-5266'	Frac w/ 35089#'s 20/40 sand in 235 bbls of Lightning 17 fluid.
4832-4938'	Frac w/ 35875#'s 20/40 sand in 233 bbls of Lightning 17 fluid.

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
7-1-10	7-14-10	24	→	42	23	28			2-1/2" x 1-3/4" x 24' RHAC Pump
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	
			→						

RECEIVED
JUL 26 2010

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

SOLD & USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	3764' 3939'
				GARDEN GULCH 2 POINT 3	4062' 4325'
				X MRKR Y MRKR	4558' 4593'
				DOUGALS CREEK MRK BI CARBONATE MRK	4722' 4969'
				B LIMESTON MRK CASTLE PEAK	5104' 5548'
				BASAL CARBONATE WASATCH	5965' 6084'

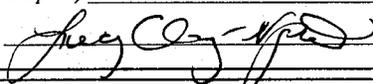
32. Additional remarks (include plugging procedure):

Stage 5: Green River Formation (GB6) 4304-4321', .34" 3/21 Frac w/ 20352#'s of 20/40 sand in 170 bbls of Lightning 17 fluid

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

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

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

Name (please print) Lucy Chavez-Naupoto Title Administrative Assistant
 Signature  Date 07/22/2010

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



NEWFIELD EXPLORATION

**USGS Myton SW (UT)
SECTION 2 T9S, R17E
H-2-9-17**

Wellbore #1

Design: Actual

Standard Survey Report

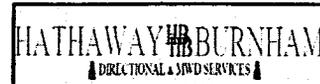
01 July, 2010

HATHAWAY  BURNHAM
 DIRECTIONAL & MWD SERVICES 



HATHAWAY BURNHAM

Survey Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 T9S, R17E
Well: H-2-9-17
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well H-2-9-17
TVD Reference: H-2-9-17 @ 5031.0ft (RIG 2)
MD Reference: H-2-9-17 @ 5031.0ft (RIG 2)
North Reference: True
Survey Calculation Method: Minimum Curvature
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 2 T9S, R17E, SEC 2 T9S, R17E		
Site Position:		Northing:	7,194,800.00ft
From:	Lat/Long	Easting:	2,067,293.09ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40° 3' 41.746 N
		Longitude:	109° 58' 29.067 W
		Grid Convergence:	0.98 °

Well	H-2-9-17, SHL LAT: 40 03 53.92, LONG: -109 58 31.37		
Well Position	+N/-S	0.0 ft	Northing: 7,196,028.59ft
	+E/-W	0.0 ft	Easting: 2,067,093.09ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	5,031.0ft
		Latitude:	40° 3' 53.920 N
		Longitude:	109° 58' 31.370 W
		Ground Level:	5,019.0ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2010/06/03	11.41	65.85	52,400

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	134.46	

Survey Program	Date 2010/07/01				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
361.0	6,145.0	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
361.0	1.00	289.10	361.0	1.0	-3.0	-2.8	0.28	0.28	0.00
423.0	0.60	305.90	423.0	1.4	-3.8	-3.7	0.74	-0.65	27.10
453.0	0.40	335.40	453.0	1.6	-3.9	-3.9	1.07	-0.67	98.33
484.0	0.40	351.40	484.0	1.8	-4.0	-4.1	0.36	0.00	51.61
515.0	0.40	58.50	515.0	2.0	-3.9	-4.2	1.43	0.00	216.45
546.0	0.60	62.80	546.0	2.1	-3.7	-4.1	0.66	0.65	13.87
576.0	1.00	87.60	576.0	2.2	-3.3	-3.9	1.73	1.33	82.67
606.0	1.50	91.80	606.0	2.2	-2.6	-3.4	1.69	1.67	14.00
636.0	2.20	86.20	635.9	2.2	-1.6	-2.7	2.41	2.33	-18.67
668.0	2.90	83.90	667.9	2.3	-0.2	-1.8	2.21	2.19	-7.19
698.0	3.40	87.10	697.9	2.4	1.4	-0.7	1.77	1.67	10.67
729.0	3.90	85.90	728.8	2.6	3.4	0.6	1.63	1.61	-3.87

Company: NEWFIELD EXPLORATION
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 Well: H-2-9-17
 Wellbore: Wellbore #1
 Design: Actual

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 TVD Reference: H-2-9-17 @ 5031.0ft (RIG 2)
 MD Reference: H-2-9-17 @ 5031.0ft (RIG 2)
 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)
759.0	4.40	86.00	758.7	2.7	5.5	2.1	1.67	1.67	0.33
790.0	4.80	87.50	789.6	2.9	8.0	3.7	1.35	1.29	4.84
820.0	5.10	90.80	819.5	2.9	10.6	5.6	1.38	1.00	11.00
851.0	5.30	97.00	850.4	2.7	13.4	7.7	1.92	0.65	20.00
881.0	5.30	96.30	880.3	2.4	16.2	9.9	0.22	0.00	-2.33
913.0	5.20	99.60	912.1	2.0	19.1	12.2	0.99	-0.31	10.31
945.0	5.30	102.20	944.0	1.4	21.9	14.7	0.81	0.31	8.13
976.0	5.50	107.30	974.9	0.7	24.8	17.2	1.68	0.65	16.45
1,008.0	5.80	112.70	1,006.7	-0.4	27.7	20.1	1.91	0.94	16.88
1,043.0	6.20	116.90	1,041.5	-1.9	31.0	23.5	1.70	1.14	12.00
1,071.0	6.40	121.30	1,069.3	-3.4	33.7	26.5	1.87	0.71	15.71
1,103.0	7.00	123.30	1,101.1	-5.4	36.9	30.1	2.01	1.88	6.25
1,135.0	7.30	123.60	1,132.9	-7.6	40.2	34.0	0.94	0.94	0.94
1,166.0	7.30	122.70	1,163.6	-9.8	43.5	37.9	0.37	0.00	-2.90
1,198.0	7.70	124.70	1,195.3	-12.1	47.0	42.0	1.49	1.25	6.25
1,230.0	7.70	127.40	1,227.1	-14.6	50.4	46.2	1.13	0.00	8.44
1,262.0	7.80	131.70	1,258.8	-17.4	53.8	50.5	1.84	0.31	13.44
1,356.0	7.50	138.10	1,351.9	-26.2	62.6	63.0	0.96	-0.32	6.81
1,451.0	7.90	140.00	1,446.1	-35.8	70.9	75.7	0.50	0.42	2.00
1,547.0	7.80	137.80	1,541.2	-45.7	79.6	88.8	0.33	-0.10	-2.29
1,642.0	7.10	133.10	1,635.4	-54.5	88.2	101.1	0.98	-0.74	-4.95
1,737.0	7.20	141.30	1,729.6	-63.1	96.2	112.9	1.08	0.11	8.63
1,832.0	8.13	137.16	1,823.8	-72.7	104.5	125.5	1.14	0.98	-4.36
1,927.0	7.20	137.60	1,917.9	-82.0	113.1	138.1	0.98	-0.98	0.46
2,022.0	7.50	140.40	2,012.2	-91.2	121.0	150.3	0.49	0.32	2.95
2,117.0	7.30	137.80	2,106.4	-100.4	129.0	162.4	0.41	-0.21	-2.74
2,212.0	7.14	138.26	2,200.6	-109.3	137.0	174.4	0.18	-0.17	0.48
2,307.0	6.64	134.85	2,294.9	-117.6	144.8	185.7	0.68	-0.53	-3.59
2,403.0	7.70	133.30	2,390.2	-125.9	153.5	197.7	1.12	1.10	-1.61
2,497.0	7.80	132.90	2,483.3	-134.6	162.7	210.4	0.12	0.11	-0.43
2,592.0	7.35	135.40	2,577.5	-143.3	171.7	222.9	0.59	-0.47	2.63
2,687.0	7.10	135.70	2,671.7	-151.8	180.1	234.9	0.27	-0.26	0.32
2,783.0	7.40	136.60	2,767.0	-160.6	188.5	247.0	0.33	0.31	0.94
2,878.0	8.00	135.50	2,861.1	-169.7	197.3	259.7	0.65	0.63	-1.16
2,973.0	8.80	134.10	2,955.1	-179.5	207.2	273.6	0.87	0.84	-1.47
3,068.0	9.10	133.70	3,048.9	-189.7	217.8	288.4	0.32	0.32	-0.42
3,163.0	6.90	127.70	3,143.0	-198.4	227.8	301.5	2.47	-2.32	-6.32
3,258.0	7.70	130.90	3,237.2	-206.1	237.1	313.6	0.94	0.84	3.37
3,353.0	7.00	136.50	3,331.5	-214.4	245.9	325.7	1.05	-0.74	5.89
3,448.0	6.60	141.50	3,425.8	-222.9	253.3	336.9	0.75	-0.42	5.26
3,543.0	7.30	144.10	3,520.1	-232.1	260.2	348.3	0.81	0.74	2.74
3,638.0	8.10	141.40	3,614.2	-242.2	267.9	360.9	0.92	0.84	-2.84
3,734.0	6.90	137.30	3,709.4	-251.7	276.0	373.3	1.37	-1.25	-4.27
3,829.0	7.60	138.30	3,803.6	-260.6	284.1	385.3	0.75	0.74	1.05
3,924.0	7.30	135.30	3,897.8	-269.6	292.5	397.6	0.52	-0.32	-3.16
4,019.0	7.90	133.20	3,992.0	-278.3	301.5	410.2	0.70	0.63	-2.21
4,114.0	8.10	138.00	4,086.1	-287.8	310.8	423.4	0.73	0.21	5.05
4,209.0	7.40	139.10	4,180.2	-297.4	319.2	436.1	0.75	-0.74	1.16
4,304.0	7.70	139.20	4,274.4	-306.8	327.4	448.6	0.32	0.32	0.11
4,399.0	7.25	136.50	4,368.6	-316.0	335.7	460.9	0.60	-0.47	-2.84
4,494.0	7.30	137.30	4,462.8	-324.8	343.9	472.9	0.12	0.05	0.84
4,589.0	8.00	139.20	4,557.0	-334.2	352.3	485.6	0.78	0.74	2.00
4,685.0	7.20	141.00	4,652.1	-344.0	360.5	498.2	0.87	-0.83	1.88
4,779.0	8.00	139.20	4,745.3	-353.5	368.5	510.6	0.89	0.85	-1.91



HATHAWAY BURNHAM

Survey Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 T9S, R17E
Well: H-2-9-17
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well H-2-9-17
TVD Reference: H-2-9-17 @ 5031.0ft (RIG 2)
MD Reference: H-2-9-17 @ 5031.0ft (RIG 2)
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)
4,875.0	7.60	138.60	4,840.4	-363.3	377.0	523.6	0.43	-0.42	-0.63
4,970.0	7.10	136.10	4,934.6	-372.2	385.2	535.7	0.62	-0.53	-2.63
5,065.0	7.10	136.30	5,028.9	-380.7	393.4	547.4	0.03	0.00	0.21
5,160.0	6.90	143.10	5,123.2	-389.5	400.9	558.9	0.90	-0.21	7.16
5,237.4	7.23	144.09	5,200.0	-397.2	406.5	568.3	0.45	0.42	1.28
H-2-9-17 TGT									
5,255.0	7.30	144.30	5,217.5	-399.0	407.8	570.5	0.45	0.42	1.21
5,350.0	7.10	140.40	5,311.7	-408.4	415.1	582.3	0.56	-0.21	-4.11
5,446.0	6.90	135.90	5,407.0	-417.1	422.9	594.0	0.61	-0.21	-4.69
5,541.0	7.10	137.40	5,501.3	-425.5	430.8	605.5	0.29	0.21	1.58
5,636.0	6.90	135.30	5,595.6	-433.9	438.8	617.1	0.34	-0.21	-2.21
5,731.0	6.90	134.80	5,689.9	-442.0	446.9	628.5	0.06	0.00	-0.53
5,826.0	6.90	140.00	5,784.2	-450.4	454.6	639.9	0.66	0.00	5.47
5,921.0	6.20	136.50	5,878.6	-458.5	461.8	650.7	0.85	-0.74	-3.68
6,016.0	6.10	141.50	5,973.1	-466.2	468.4	660.9	0.57	-0.11	5.26
6,092.0	5.50	144.80	6,048.7	-472.3	473.1	668.4	0.90	-0.79	4.34
6,145.0	5.00	145.00	6,101.4	-476.3	475.8	673.2	0.94	-0.94	0.38

Wellbore Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
H-2-9-17 TGT	0.00	0.00	5,200.0	-397.9	405.5	7,195,637.61	2,067,505.34	40° 3' 49.987 N	109° 58' 26.154 W
- actual wellpath misses by 1.2ft at 5237.4ft MD (5200.0 TVD, -397.2 N, 406.5 E)									
- Circle (radius 75.0)									

Checked By: _____ Approved By: _____ Date: _____

NEWFIELD



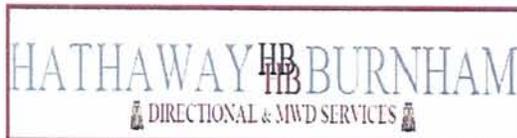
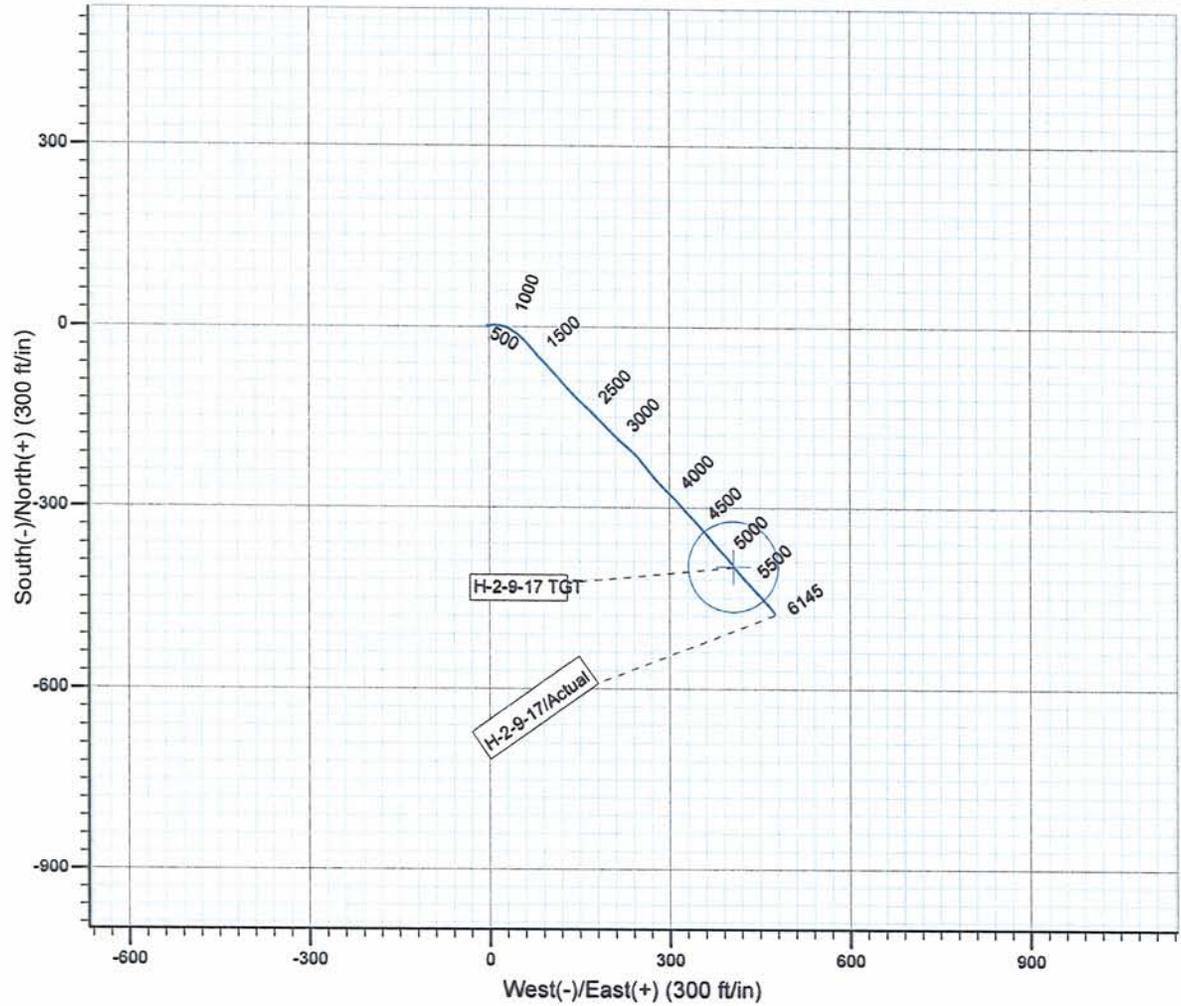
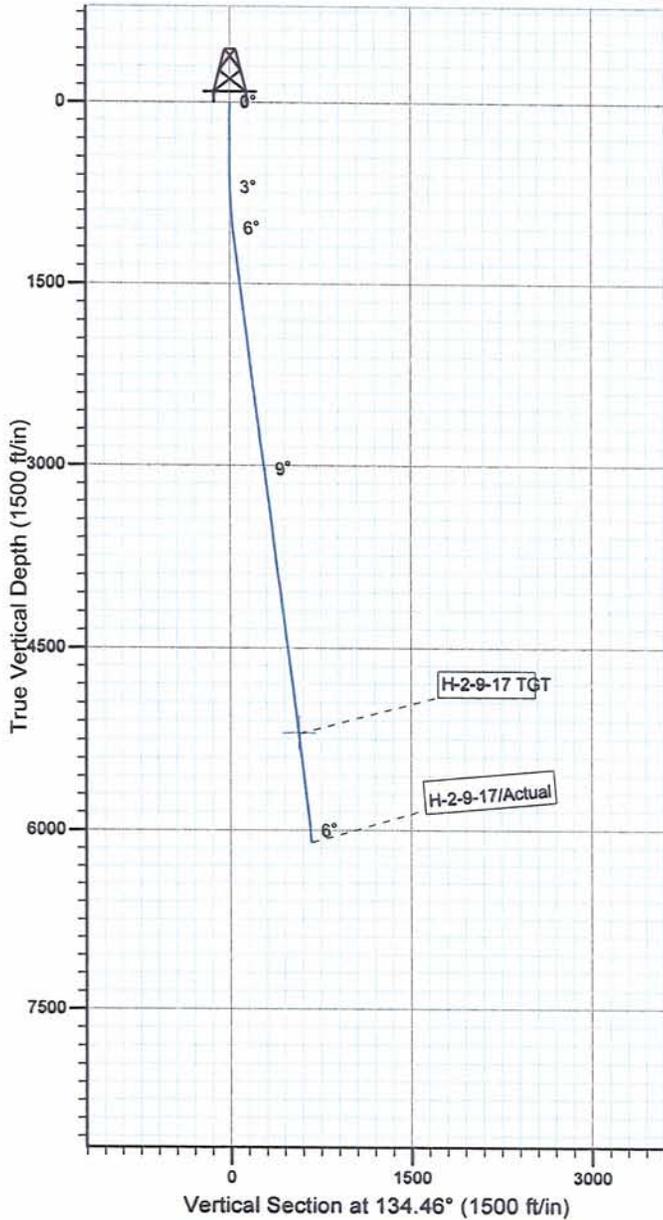
Project: USGS Myton SW (UT)
 Site: SECTION 2 T9S, R17E
 Well: H-2-9-17
 Wellbore: Wellbore #1
 SURVEY: Actual

FINAL SURVEY REPORT



Azimuths to True North
 Magnetic North: 11.41°

Magnetic Field
 Strength: 52399.7snT
 Dip Angle: 65.85°
 Date: 2010/06/03
 Model: IGRF2010



Design: Actual (H-2-9-17/Wellbore #1)

Created By: *Tom Hudson* Date: 20:36, July 01 2010
 THIS SURVEY IS CORRECT TO THE BEST OF MY
 KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.

Daily Activity Report

Format For Sundry

CASTLE DRAW H-2-9-17**4/1/2010 To 8/30/2010****CASTLE DRAW H-2-9-17****Waiting on Cement****Date:** 5/28/2010

Ross #29 at 350. Days Since Spud - Mixed @ 15.8 ppg W/ 1.17 yield. Returned 1 bbl to Pit - On 5/26/10 BJ Services Cemented 8 5/8" Casing With 160sks Class G +2% CaCl2 +0.25#/sk Cello Flake. - jts of 8 5/8" Casing. (Guide Shoe, Shoe Jt, Baffle Plate, 7jts) Set @ 349.02' KB. - 5/24/10 Ross Rig #29 Spud The Castle Draw State @ 8:00 AM Drilled 350' of 12 1/4" Hole, And Ran 8

Daily Cost: \$0**Cumulative Cost:** \$48,063**CASTLE DRAW H-2-9-17****Rigging down****Date:** 6/7/2010

Ross #29 at 350. 0 Days Since Spud - Rig down prepair for Rig move

Daily Cost: \$0**Cumulative Cost:** \$50,063**CASTLE DRAW H-2-9-17****Drill 7 7/8" hole with fresh water****Date:** 6/8/2010

Ross #29 at 1504. 1 Days Since Spud - Drill 7 7/8" hole F/ 349' to 1107' W/ 20,000 WOB, 111 TRPM, 330GPM, 115fph avg ROP. - Repair Pason line, Fix oil leak on Pump - Drill 7 7/8" hole F/ 1107' to 1504' W/ 20,000 WOB, 111 TRPM, 330GPM, 115fph avg ROP. - Drill Cement float and Shoe F/ 290'-349' - Pick up Smith MI616 7 7/8" PDC bit, 6.5" Hunting 2.7 .21 1.5° Mud Motor, 1X30.58' Monel, 1X4.58' Gap - for ten minutes. Test Surface Casing to 1,500PSI for 30 minutes all tested good. - Rig up B&C Quick Test. Test Pipe and Blind Rams, Kelly, Safety Valve and Choke to 2,000 PSI - MIRU on the Castle Draw State H-2-9-17 set all surface equipment - Sub, 1X2.55' Antenna Sub, 1X30.85 Monel, 26 HWDP.

Daily Cost: \$0**Cumulative Cost:** \$79,972**CASTLE DRAW H-2-9-17****Drill 7 7/8" hole with fresh water****Date:** 6/9/2010

NDSI #2 at 4294. 2 Days Since Spud - Rig Service Functon test BOP and Crown-O-Matic, Grease Blocks, Swivel, and Crown - Drill 7 7/8" hole F/ 2360' to 4294' W/ 22,000 WOB, 111 TRPM, 330GPM, 117fph avg ROP. - Drill 7 7/8" hole F/ 1504' to 2360' W/ 22,000 WOB, 111 TRPM, 330GPM, 117fph avg ROP.

Daily Cost: \$0**Cumulative Cost:** \$99,381**CASTLE DRAW H-2-9-17****Drill 7 7/8" hole with fresh water****Date:** 6/10/2010

NDSI #2 at 6145. 4 Days Since Spud - Rig service function test BOP and crown-o-matic - Drill 7 7/8" hole F/ 4294' to 4832' W/ 22,000 WOB, 111 TRPM, 330GPM, 76.86fph avg ROP. - Release Rig @ 6:00 AM 6/11/10 Ryan Crum - Clean Mud Tanks - Nipple down Set Slips W/ 80,000 tension - returned 15bbbls cement to pit - 375 sks 50:50:2+3%KCL+.5%EC-1+.25#CF+.05#SF+.3SMS+FP-6L Mixed @ 14.4ppg W/ 1.24 yield - Cement W/ 275sks PL11+3%KCL+5#CSE+0.5#CF+2#KOL+.5SMS+FP+SF Mixed @11ppg W/ 3.50yield - Rig up

BJ hardlines and Circulate W/ Rig pump - Rig up Casing crew and run 141jts 5 1/2 J-55 15.5#LTC Set @ 6134.03KB. 4 jts will be transferred - Test 5 1/2" Casing Rams to 2,000PSI F/ ten minutes tested good - Rig up Loggers and Log Well (Loggers TD 6130') - Laydown Drillpipe and BHA - Spot 260bbbls of brine - Laydown drill pipe and BHA - Stand Down Safety Meeting held W/ Tool Pusher, Rig Crew, and Contract Hands - Pump gel sweep and circulate and pump pill - Drill 7 7/8" hole F/ 5879' to 6145' W/ 25,000 WOB, 111 TRPM, 330GPM, 72.21fph avg ROP. - Drill 7 7/8" hole F/ 4832' to 5879' W/ 22,000 WOB, 111 TRPM, 330GPM, 72.21fph avg ROP. - Work on pump. Change out valve on the suction - Rig service function test BOP and crown-o-matic - Drill 7 7/8" hole F/ 4294' to 4832' W/ 22,000 WOB, 111 TRPM, 330GPM, 76.86fph avg ROP. - Work on pump. Change out valve on the suction - Drill 7 7/8" hole F/ 4832' to 5879' W/ 22,000 WOB, 111 TRPM, 330GPM, 72.21fph avg ROP. - Drill 7 7/8" hole F/ 5879' to 6145' W/ 25,000 WOB, 111 TRPM, 330GPM, 72.21fph avg ROP. - Pump gel sweep and circulate and pump pill - Stand Down Safety Meeting held W/ Tool Pusher, Rig Crew, and Contract Hands - Laydown drill pipe and BHA - Spot 260bbbls of brine - Laydown Drillpipe and BHA - Rig up Loggers and Log Well (Loggers TD 6130') - Test 5 1/2" Casing Rams to 2,000PSI F/ ten minutes tested good - Rig up Casing crew and run 141jts 5 1/2 J-55 15.5#LTC Set @ 6134.03KB. 4 jts will be transferred - Rig up BJ hardlines and Circulate W/ Rig pump - Cement W/ 275sks PL11+3%KCL+5#CSE+0.5#CF+2#KOL+.5SMS+FP+SF Mixed @11ppg W/ 3.50yield - 375 sks 50:50:2+3%KCL+.5%EC-1+.25#CF+.05#SF+.3SMS+FP-6L Mixed @ 14.4ppg W/ 1.24 yield - returned 15bbbls cement to pit - Nipple down Set Slips W/ 80,000 tension - Release Rig @ 6:00 AM 6/11/10 Ryan Crum - Clean Mud Tanks **Finalized**
Daily Cost: \$0
Cumulative Cost: \$246,977

Pertinent Files: Go to File List

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

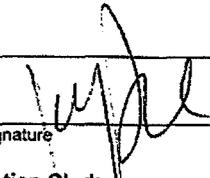
OPERATOR ACCT. NO. N2695

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	17633	4301350292	UTE TRIBAL 15-27-4-3	SWSE	27	4S	3W	DUCHESNE	6/2/2010	6/7/10
WELL 1 COMMENTS: GRRV CONFIDENTIAL											
B	99999	17400	✓ 4301334158 4301334159	LONE TREE FEDERAL H-22-9-17	SENW	22	9S	17E	DUCHESNE	5/17/2010	6/7/10
GRRV BHL = N W N E											
A	99999	17634	4304750967	CHASEL 3-23-4-1W	NENW	23	4S	1W	UINTAH	5/22/2010	6/7/10
GRRV											
B	99999	17400	✓ 4304740411	CASTLE DRAW ST H-2-9-17	NENW	2	9S	17E	UINTAH	5/24/2010	6/7/10
GRRV BHL = N E N W											
b	99999	17400	✓ 4301350110	MON BUTTE EAST ST M-36-8-16	SENW	36	8S	16E	DUCHESNE	5/22/2010	6/7/10
WELL 5 COMMENTS: GRRV BHL = S E N W											
B	99999	17400	✓ 4301350109	MON BUTTE EAST ST G-36-8-16	SENW	36	8S	16E	DUCHESNE	5/24/2010	6/7/10
WELL 5 COMMENTS: GRRV BHL = N W N W											

- 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 - thor (explain in comments section)

RECEIVED
 JUN 02 2010

DIV. OF OIL, GAS & MINING

Signature: 
 Production Clerk
 Jentri Park
 Date: 06/02/10