

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

FORM 3

AMENDED REPORT
(highlight changes)

APPLICATION FOR PERMIT TO DRILL			5. MINERAL LEASE NO: ML-21835	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA	
B. TYPE OF WELL: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			8. UNIT or CA AGREEMENT NAME: NA	
2. NAME OF OPERATOR: Newfield Production Company			9. WELL NAME and NUMBER: State 14-36-8-15	
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: Monument Butte	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: SE/SW 502' FSL 2096' FWL AT PROPOSED PRODUCING ZONE:			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 36 8S 15E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: Approximately 13.5 miles southwest of Myton, Utah			12. COUNTY: Duchesne	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) Approx. 502' f/lse line, NA' f/unit line	16. NUMBER OF ACRES IN LEASE: 640.00 acres	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40 acres		
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) Approx. 1476'	19. PROPOSED DEPTH: 6,325	20. BOND DESCRIPTION: #B001834		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5873' GL	22. APPROXIMATE DATE WORK WILL START: 3rd Qtr. 2009	23. ESTIMATED DURATION: (7) days from SPUD to rig release		

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
12 1/4	8 5/8	J-55	24.0	300	Class G w/2% CaCl	155 sx +/-	1.17	15.8
7 7/8	5 1/2	J-55	15.5	6,325	Lead(Prem Lite II)	275 sx +/-	3.26	11.0
					Tail (50/50 Poz)	450 sx +/-	1.24	14.3

25. **ATTACHMENTS**

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

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Mandie Crozier TITLE Regulatory Specialist

SIGNATURE *Mandie Crozier* DATE 2/27/09

(This space for State use only)

API NUMBER ASSIGNED: 43-013-34222 APPROVAL: _____

RECEIVED
MAR 09 2009
DIV. OF OIL, GAS & MINING

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/09/2009

API NO. ASSIGNED: 43-013-34222

WELL NAME: STATE 14-36-8-15
 OPERATOR: NEWFIELD PRODUCTION (N2695)
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SESW 36 080S 150E
 SURFACE: 0502 FSL 2096 FWL
 BOTTOM: 0502 FSL 2096 FWL
 COUNTY: DUCHESNE
 LATITUDE: 40.06863 LONGITUDE: -110.18179
 UTM SURF EASTINGS: 569775 NORTHINGS: 4435485
 FIELD NAME: MONUMENT BUTTE (105)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKN	4/23/09
Geology		
Surface		

LEASE TYPE: 3 - State
 LEASE NUMBER: ML-21835
 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: _____
- R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: _____
- Eff Date: _____
- Siting: _____
- R649-3-11. Directional Drill

COMMENTS:

Need Pres 6 (03-04-09)

STIPULATIONS:

- 1- Spacing St p
- 2- STATEMENT OF BASIS
- 3- Surface Csg Cont St p

Application for Permit to Drill

Statement of Basis

3/12/2009

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
1305	43-013-34222-00-00		OW	S	No
Operator	NEWFIELD PRODUCTION COMPANY		Surface Owner-APD		
Well Name	STATE 14-36-8-15	Unit			
Field	MONUMENT BUTTE	Type of Work			
Location	SESW 36 8S 15E S 502 FSL 2096 FWL GPS Coord (UTM) 569775E 4435485N				

Geologic Statement of Basis

Newfield proposes to set 300' of surface casing at this location. The base of the moderately saline water at this location is estimated to be at a depth of 550'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of section 36. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The surface casing should be extended to cover the base of the moderately saline ground water.

Brad Hill
APD Evaluator

3/12/2009
Date / Time

Surface Statement of Basis

The general location is approximately 14 road miles southwest of Myton, UT in the upper portion of the Pleasant Valley Drainage. Wells Draw is approximately 2 miles to the east and the Ute Tribal Indian Reservation 1 mile to the west. Broad flats with rolling hills characterize the area. Flats are often intersected by drainages with gentle to moderate side slopes. Flats at lower elevations to the northeast are frequently used for agriculture. No seeps, springs or streams are known to exist in the immediate area. An occasional pond for livestock watering occurs. Pleasant Valley Wash drains into the Pariette Draw drainage of Duchesne County. The lower reaches of both of these draws contain perennial streams somewhat consisting of irrigation runoff and seepage. Pariette Draw runs into the Green River approximately 6 miles downstream from Ouray, Utah and about 18 miles down drainage from the area. Access is by State and County and existing or proposed oilfield development roads to within 1490 feet of the site. From this point additional construction will be required.

The proposed State 14-36-8-15 oil well location runs in a south to north direction paralleling the west slope of a gentle ridge. The terrain has a slight slope to the north. A shallow drainage exists to the west of site, which becomes a deeper draw as it continues to the north. No drainages intersect the location and no diversions will be required. The proposed site appears to be a suitable location for constructing a pad and drilling and operating a well.

Both the surface and minerals are owned by SITLA. Ed Bonner and Jim Davis of SITLA were invited to the pre-site evaluation. Neither attended.

Pat Rainbolt and Ben Williams represented the Utah Division of Wildlife Resources. Mr. Rainbolt stated the area was classified as substantial value antelope habitat but did not recommend any restrictions for this species. No other wildlife should be significantly affected. Mr. Rainbolt gave Mr. Eaton of Newfield Production Company a copy of his written evaluation and also a UDWR seed mix recommendation to be used when the reserve pit and location are reclaimed.

Floyd Bartlett
Onsite Evaluator

3/4/2009
Date / Time

Application for Permit to Drill

Statement of Basis

3/12/2009

Utah Division of Oil, Gas and Mining

Page 2

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator NEWFIELD PRODUCTION COMPANY
Well Name STATE 14-36-8-15
API Number 43-013-34222-0 **APD No** 1305 **Field/Unit** MONUMENT BUTTE
Location: 1/4,1/4 SESW **Sec** 36 **Tw** 8S **Rng** 15E 502 FSL 2096 FWL
GPS Coord (UTM) 569783 4435484 **Surface Owner**

Participants

Floyd Bartlett (DOGM), Tim Eaton and Brian Foote (Newfield Production Company), Ben Williams and Pat Rainbolt (Utah Division of Wildlife Resources).

Regional/Local Setting & Topography

The general location is approximately 14 road miles southwest of Myton, UT in the upper portion of the Pleasant Valley Drainage. Wells Draw is approximately 2 miles to the east and the Ute Tribal Indian Reservation 1 mile to the west. Broad flats with rolling hills characterize the area. Flats are often intersected by drainages with gentle to moderate side slopes. Flats at lower elevations to the northeast are frequently used for agriculture. No seeps, springs or streams are known to exist in the immediate area. An occasional pond for livestock watering occurs. Pleasant Valley Wash drains into the Pariette Draw drainage of Duchesne County. The lower reaches of both of these draws contain perennial streams somewhat consisting of irrigation runoff and seepage. Pariette Draw runs into the Green River approximately 6 miles downstream from Ouray, Utah and about 18 miles down drainage from the area. Access is by State and County and existing or proposed oilfield development roads to within 1490 feet of the site. From this point additional construction will be required.

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Surface Use Plan

Current Surface Use

Grazing
Recreational
Wildlfe Habitat

New Road

Miles	Well Pad	Src Const Material	Surface Formation
0.24	Width 199	Length 300	Onsite
			UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetland N

Flora / Fauna

A desert shrub type consisting of shadscale, greasewood, black sage, broom snakeweed, needle and thread grass, rabbitbrush, prickly pear, curly mesquite grass and spring annuals occupies the area.

Cattle, prairie dogs, antelope, small mammals and birds.

Soil Type and Characteristics

Deep sandy loam

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? N **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	<10	0
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0

Final Score 20 1 **Sensitivity Level**

Characteristics / Requirements

A 50' x 70' x 8' deep reserve pit is planned in an area of cut on the northeast side of the location. A pit liner is required. Newfield commonly uses a 16-mil liner.

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

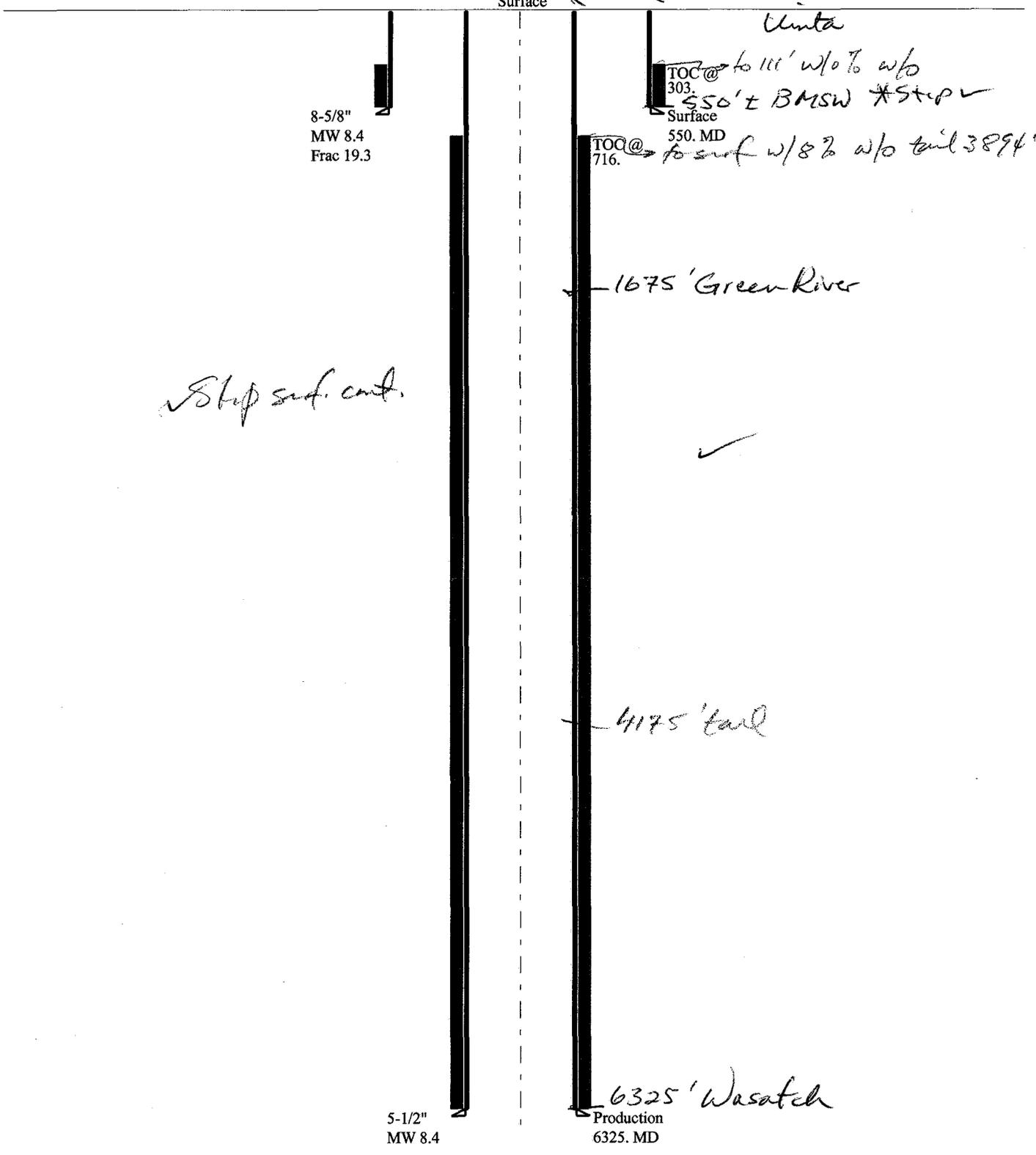
Other Observations / Comments

Floyd Bartlett
Evaluator

3/4/2009
Date / Time

43013342220000 State 14-36-8-15

Casing Schematic



8-5/8"
MW 8.4
Frac 19.3

Step surf. cont.

5-1/2"
MW 8.4

Surface

12 3/8
18 3/8

Uinta

TOC@ 303. Surface to 111' w/0% w/o 550' ± BMSW *step ✓

TOC@ 716. 550. MD to surf w/8% w/o tail 3894'

1675' Green River ✓

4175' tail

6325' Wasatch
Production
6325. MD

Well name:	43013342220000 State 14-36-8-15	
Operator:	Newfield Production Company	
String type:	Surface	Project ID: 43-013-34222-0000
Location:	Duchesne County	

Design parameters:

Collapse

Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 484 psi
Internal gradient: 0.120 psi/ft
Calculated BHP: 550 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor: 1.125

Burst:

Design factor: 1.00

Tension:

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

Tension is based on air weight.
Neutral point: 481 ft

Environment:

H2S considered? No
Surface temperature: 65 °F
Bottom hole temperature: 73 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 185 ft

Cement top: 303 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 6,325 ft
Next mud weight: 8.400 ppg
Next setting BHP: 2,760 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 550 ft
Injection pressure: 550 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	550	8.625	24.00	J-55	ST&C	550	550	7.972	196.7

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	240	1370	5.708	550	2950	5.36	13	244	18.48 J

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

Phone: 810-538-5357

Date: April 14, 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 550 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:	43013342220000 State 14-36-8-15	
Operator:	Newfield Production Company	Project ID:
String type:	Production	43-013-34222-0000
Location:	Duchesne 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: 154 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 368 ft
 Cement top: 716 ft

Burst

Max anticipated surface pressure: 1,369 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 2,760 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)

Non-directional string.

Tension is based on buoyed weight.
 Neutral point: 5,521 ft

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	6325	5.5	15.50	J-55	LT&C	6325	6325	4.825	845.3
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	2760	4040	1.464	2760	4810	1.74	86	217	2.54 J

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

Phone: 810-538-5357

Date: April 14, 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 6325 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.

BOPE REVIEW

Newfield State 14-36-8-15

API 43-013-34222-0000

INPUT

Well Name

Newfield State 14-36-8-15		API 43-013-34222-0000	
String 1	String 2		
Casing Size (")	8 5/8	5 1/2	
Setting Depth (TVD)	550	6325	
Previous Shoe Setting Depth (TVD)	0	550	
Max Mud Weight (ppg)	8.4	8.4	✓
BOPE Proposed (psi)	0	2000	
Casing Internal Yield (psi)	2950	4810	
Operators Max Anticipated Pressure (psi)	2739	8.3 ppg	✓

Calculations	String 1	8 5/8 "	
Max BHP [psi]	.052*Setting Depth*MW =	240	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	174	NO Air drill
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	119	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	119	NO <i>Reasonable Depth in area</i>
Required Casing/BOPE Test Pressure		550	psi
*Max Pressure Allowed @ Previous Casing Shoe =		0	psi *Assumes 1psi/ft frac gradient

Calculations	String 2	5 1/2 "	
Max BHP [psi]	.052*Setting Depth*MW =	2763	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	2004	NO Air Drill
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	1371	YES ✓
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	1492	← NO <i>Reasonable</i>
Required Casing/BOPE Test Pressure		2000	psi
*Max Pressure Allowed @ Previous Casing Shoe =		550	psi *Assumes 1psi/ft frac gradient

From: Jim Davis
To: Bonner, Ed; Mason, Diana
Date: 4/2/2009 10:49 AM
Subject: Newfield Approvals (14)

CC: Garrison, LaVonne; mcrozier@newfield.com; teaton@newfield.com

The following wells have been approved by SITLA including arch and paleo clearance.

Newfield Production's State 5-36-8-15 [API #4301334230]

Newfield Production's State 2-36-8-15 [API #4301334233]

Newfield Production's State 15-36-8-15 [API #4301334221]

Newfield Production's State 14-36-8-15 [API #4301334222]

Newfield Production's State 13-36-8-15 [API #4301334223]

Newfield Production's State 12-36-8-15 [API #4301334224]

Newfield Production's State 11-36-8-15 [API #4301334225]

Newfield Production's State 1-36-8-15 [API #4301334234]

Newfield Production's State 10-36-8-15 [API #4301334226]

Newfield Production's State 9-36-8-15 [API #4301334227]

Newfield Production's State 8-36-8-15 [API #4301334228]

Newfield Production's State 6-36-8-15 [API #4301334229]

Newfield Production's State 3-36-8-15 [API #4301334232]

Newfield Production's State 4-36-8-15 [API #4301334231]

-Jim

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

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

FORM 3

AMENDED REPORT
(highlight changes)

APPLICATION FOR PERMIT TO DRILL				5. MINERAL LEASE NO: ML-21835	6. SURFACE State
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B. TYPE OF WELL: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				8. UNIT or CA AGREEMENT NAME: NA	
2. NAME OF OPERATOR: Newfield Production Company				9. WELL NAME and NUMBER: State 14-36-8-15	
3. ADDRESS OF OPERATOR: Route #3 Box 3630 Myton			STATE UT ZIP 84052	PHONE NUMBER: (435) 646-3721	
4. LOCATION OF WELL (FOOTAGES): AT SURFACE: SE/SW 502' FSL 2096' FWL				10. FIELD AND POOL, OR WILDCAT: Monument Butte	
AT PROPOSED PRODUCING ZONE:				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 36 8S 15E	
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12 1/4	8 5/8	J-55	24.0	550	Class G w/2% CaCl	155 sx +/-	1.17	15.8
7 7/8	5 1/2	J-55	15.5	6,325	Lead(Prem Lite II)	275 sx +/-	3.26	11.0
					Tail (50/50 Poz)	450 sx +/-	1.24	14.3

25. ATTACHMENTS

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<input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Mandie Crozier TITLE Regulatory Specialist

SIGNATURE *Mandie Crozier* DATE 4/3/09

(This space for State use only)

API NUMBER ASSIGNED: 43-013-34222 Approved by the Utah Division of Oil, Gas and Mining

(11/2001)

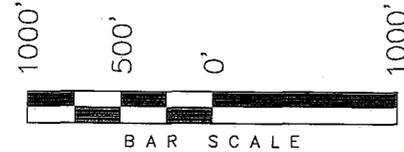
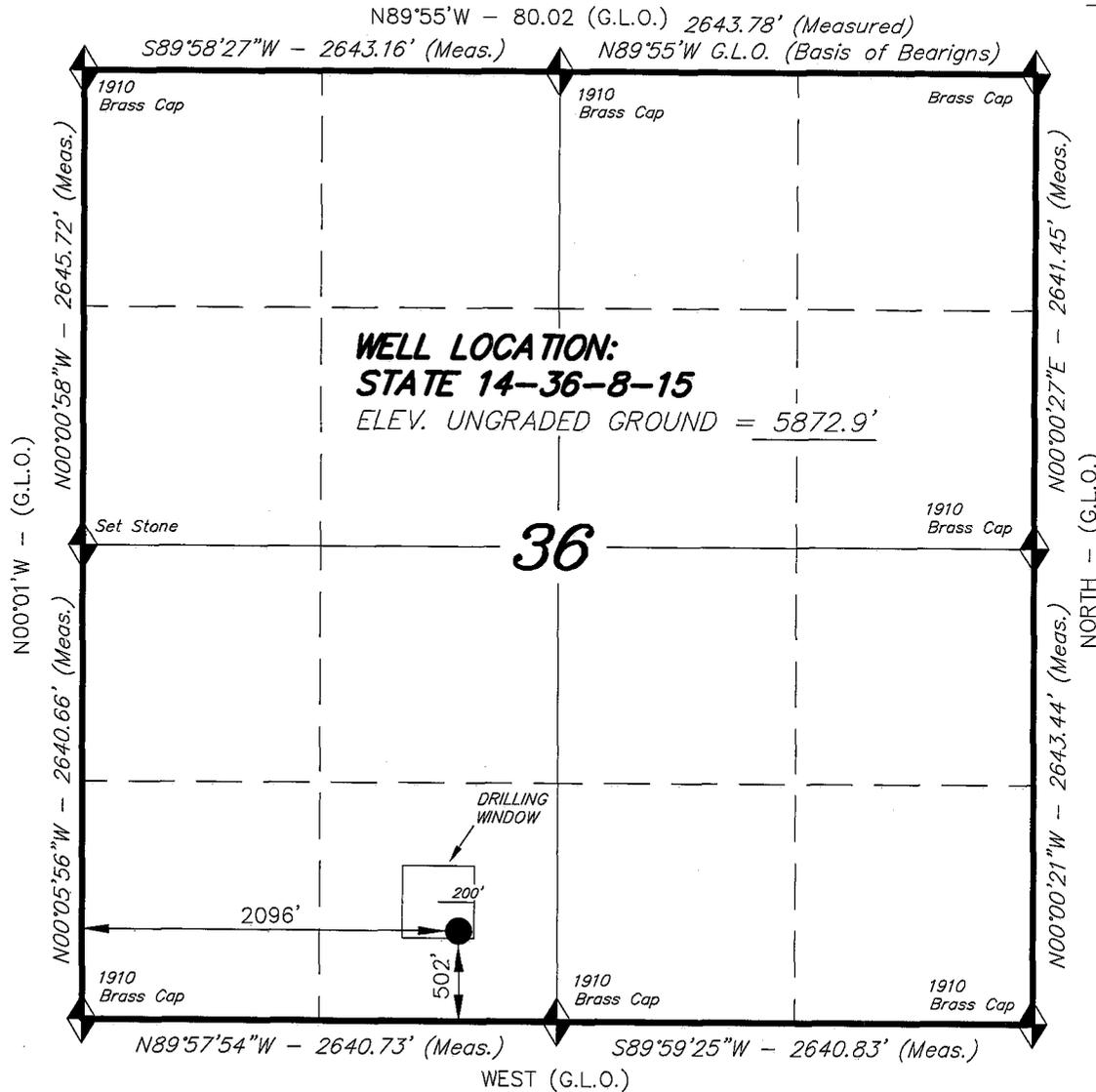
Date: 4/27/09
By: *[Signature]*

RECEIVED
APR 03 2009
DIV. OF OIL, GAS & MINING

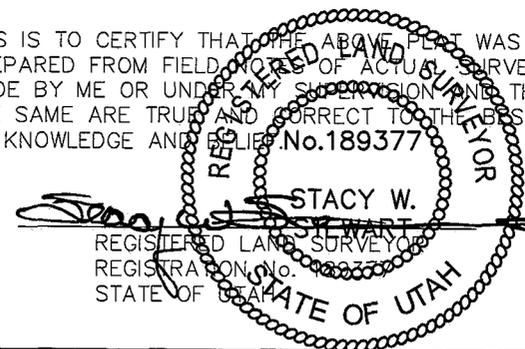
T8S, R15E, S.L.B.&M.

NEWFIELD PRODUCTION COMPANY

WELL LOCATION, STATE 14-36-8-15,
 LOCATED AS SHOWN IN THE SE 1/4 SW
 1/4 OF SECTION 36, T8S, R15E,
 S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS
 PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS
 MADE BY ME OR UNDER MY SUPERVISION AND THAT
 THE SAME ARE TRUE AND CORRECT TO THE BEST OF
 MY KNOWLEDGE AND BELIEF. No. 189377



◆ = SECTION CORNERS LOCATED

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

STATE 14-36-8-15
 (Surface Location) NAD 83
 LATITUDE = 40° 04' 06.90"
 LONGITUDE = 110° 10' 56.72"

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

DATE SURVEYED: 12-02-08	SURVEYED BY: A.C.
DATE DRAWN: 12-19-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

NEWFIELD PRODUCTION COMPANY
STATE 14-36-8-15
SE/SW SECTION 36, T8S, R15E
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	0 – 1,675'
Green River	1,675'
Wasatch	6,325'

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

Green River Formation (Oil) 1,675' – 6,325'

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 550' (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:

RECEIVED

APR 03 2009

DIV. OF OIL, GAS & MINING

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. The air rig is equipped with a 6 1/2" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about ± 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 @ 300' +/-, 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 third quarter of 2009, and take approximately seven (7) days from spud to rig release.

NEWFIELD PRODUCTION COMPANY
STATE 14-36-8-15
SE/SW SECTION 36, T8S, R15E
DUCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. EXISTING ROADS

See attached **Topographic Map "A"**

To reach Newfield Production Company well location site State 14-36-8-15 located in the SE¼ SW¼ Section 36, T8S, R15E, S.L.B. & M., Duchesne 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 southwesterly - 6.4 miles to it's junction with an existing road to the west; proceed southwesterly - 2.8 miles ± to it's junction with an existing road to the south; proceed in a southerly direction - 2.3 miles ± to it's junction with an existing road to the southwest; proceed southwesterly - 0.3 miles ± to it's junction with an existing road to the north; proceed northerly - 0.1 miles ± to it's junction with the beginning of the proposed access road to the northwest; proceed northerly along the proposed access road - 1,490' ± to the proposed 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

Approximately 1,490 of access road is proposed and will require a R.O.W. from the Bureau of Land Management. See attached **Topographic Map "B"**.

The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%.

There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

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

3. **LOCATION OF EXISTING WELLS**

Refer to **EXHIBIT B**.

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

There are no existing facilities that will be used by this well.

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 a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. 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**

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not 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. A 16 mil liner with felt will be required. Newfield requests approval that a flare pit be constructed and 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:**

Newfield Production Company requests 2,170' of disturbed area be granted to allow for construction of the proposed surface gas lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a 10" or smaller gas gathering line, and a 3" poly fuel gas line, with a permanent width of 30' upon completion of the proposed gas lines. The construction phase of the proposed gas lines will last approximately (5) days. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."**

Newfield Production Company requests 1,490' of disturbed area be granted to allow for construction of the proposed water lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line, with a permanent width of 30' upon completion of the proposed water return line. The construction phase of the proposed water lines will last approximately (5) days. **Refer to Topographic Map "C."** In the event that the proposed well is converted to a water injection well, a separate injection permit will be applied for through the proper agencies.

The Archaeological Survey is attached. MOAC Report #08-301, 1/26/09. See attached report cover page, Exhibit "D". The Paleontological Resource Survey will be forthcoming.

- 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 State 14-36-8-15, 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 State 14-36-8-15 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

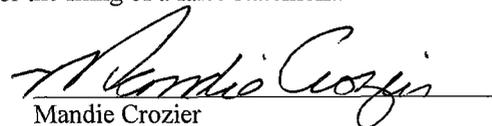
Name: Dave Allred
Address: Newfield Production Company
Route 3, Box 3630
Myton, UT 84052
Telephone: (435) 646-3721

Certification

Please be advised that Newfield Production Company is considered to be the operator of well #14-36-8-15, SE/SW Section 36, T8S, R15E, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Bond #B001834.

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

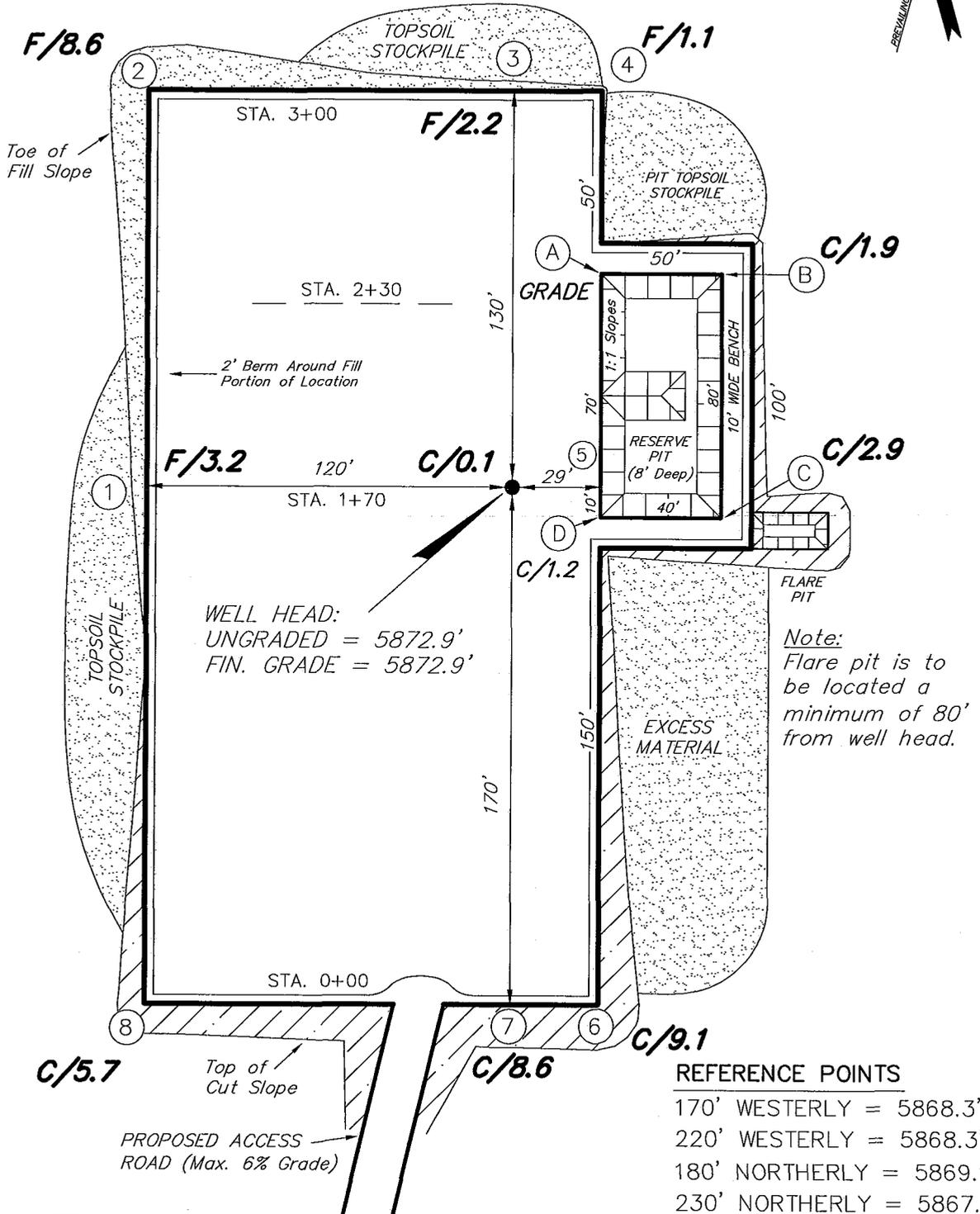
2/27/09
Date


Mandie Crozier
Regulatory Specialist
Newfield Production Company

NEWFIELD PRODUCTION COMPANY

STATE 14-36-8-15

Section 36, T8S, R15E, S.L.B.&M.



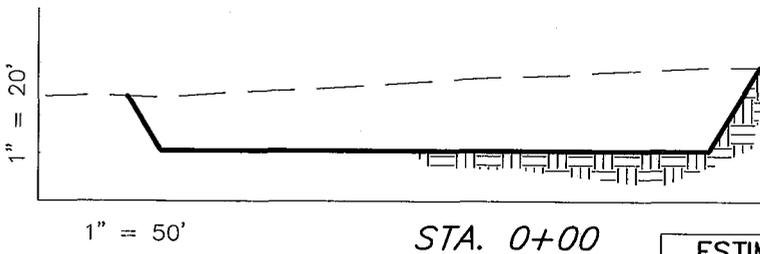
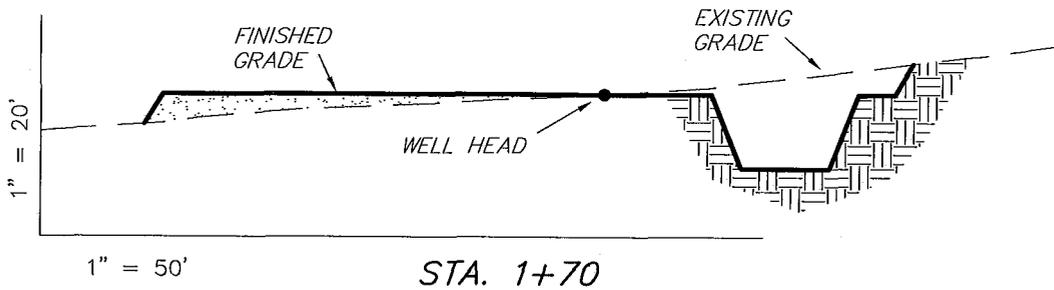
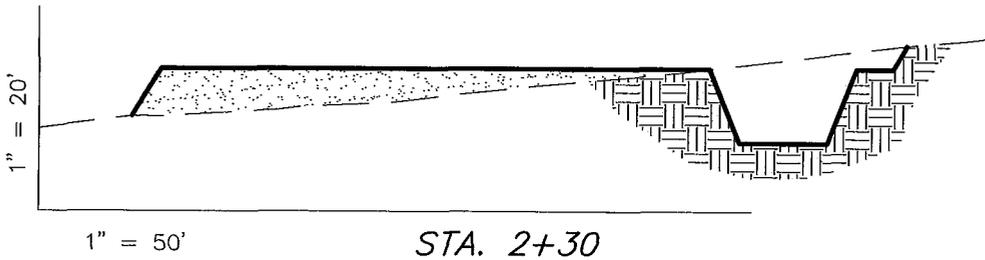
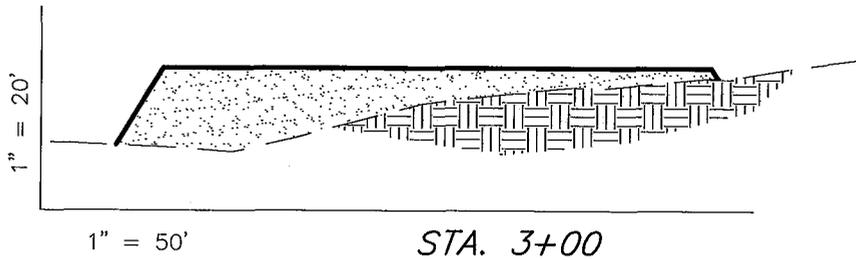
REFERENCE POINTS	
170' WESTERLY	= 5868.3'
220' WESTERLY	= 5868.3'
180' NORTHERLY	= 5869.9'
230' NORTHERLY	= 5867.3'

SURVEYED BY: A.C.	DATE SURVEYED: 12-02-08
DRAWN BY: F.T.M.	DATE DRAWN: 12-19-08
SCALE: 1" = 50'	REVISED:

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

NEWFIELD PRODUCTION COMPANY

CROSS SECTIONS STATE 14-36-8-15



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

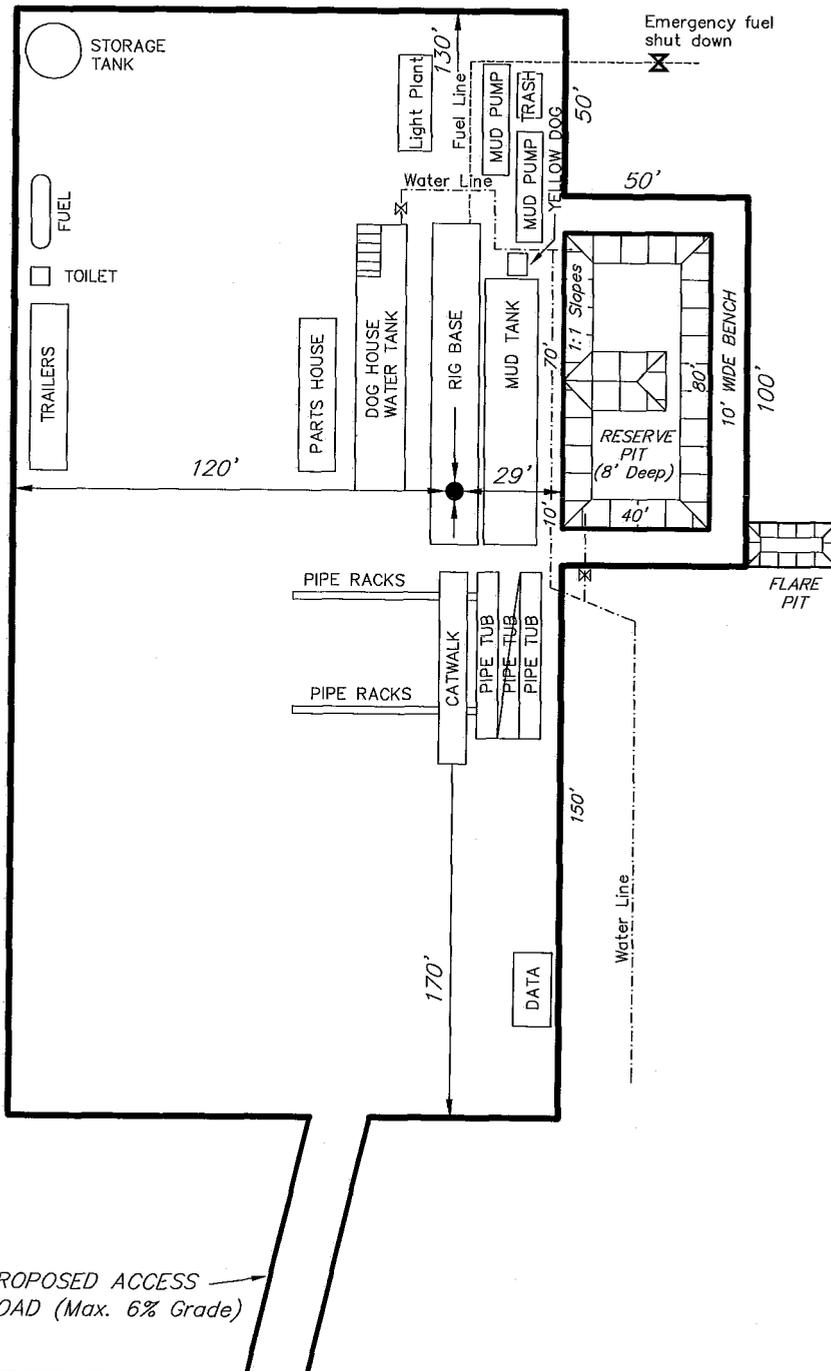
ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	3,040	3,030	Topsoil is not included in Pad Cut	10
PIT	640	0		640
TOTALS	3,680	3,030	1,060	650

SURVEYED BY: A.C.	DATE SURVEYED: 12-02-08
DRAWN BY: F.T.M.	DATE DRAWN: 12-19-08
SCALE: 1" = 50'	REVISED:

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

NEWFIELD PRODUCTION COMPANY

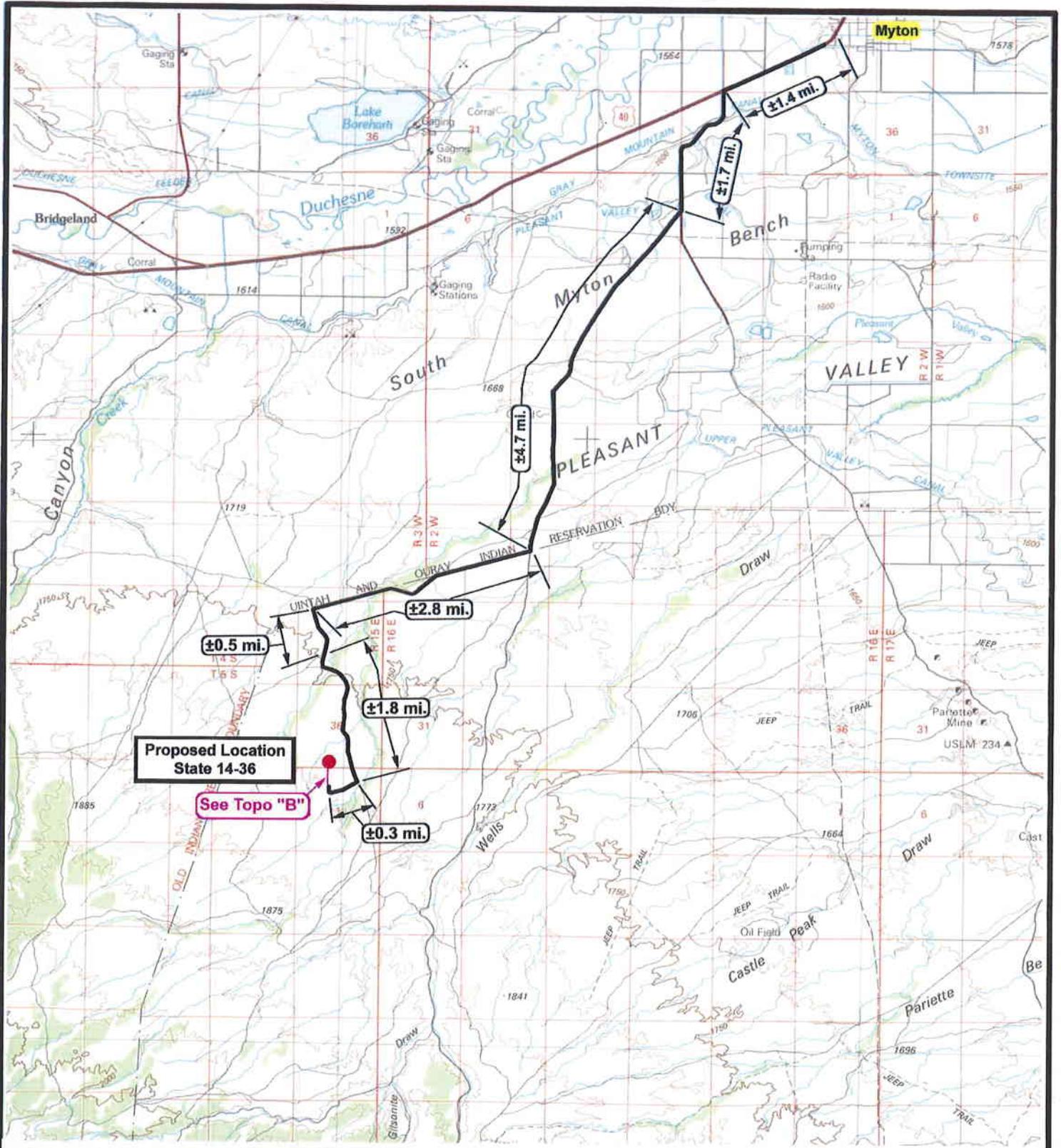
TYPICAL RIG LAYOUT STATE 14-36-8-15



PROPOSED ACCESS ROAD (Max. 6% Grade)

SURVEYED BY: A.C.	DATE SURVEYED: 12-02-08
DRAWN BY: F.T.M.	DATE DRAWN: 12-19-08
SCALE: 1" = 50'	REVISED:

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



NEWFIELD
Exploration Company

State 14-36-8-15
SEC. 36, T8S, R15E, S.L.B.&M.



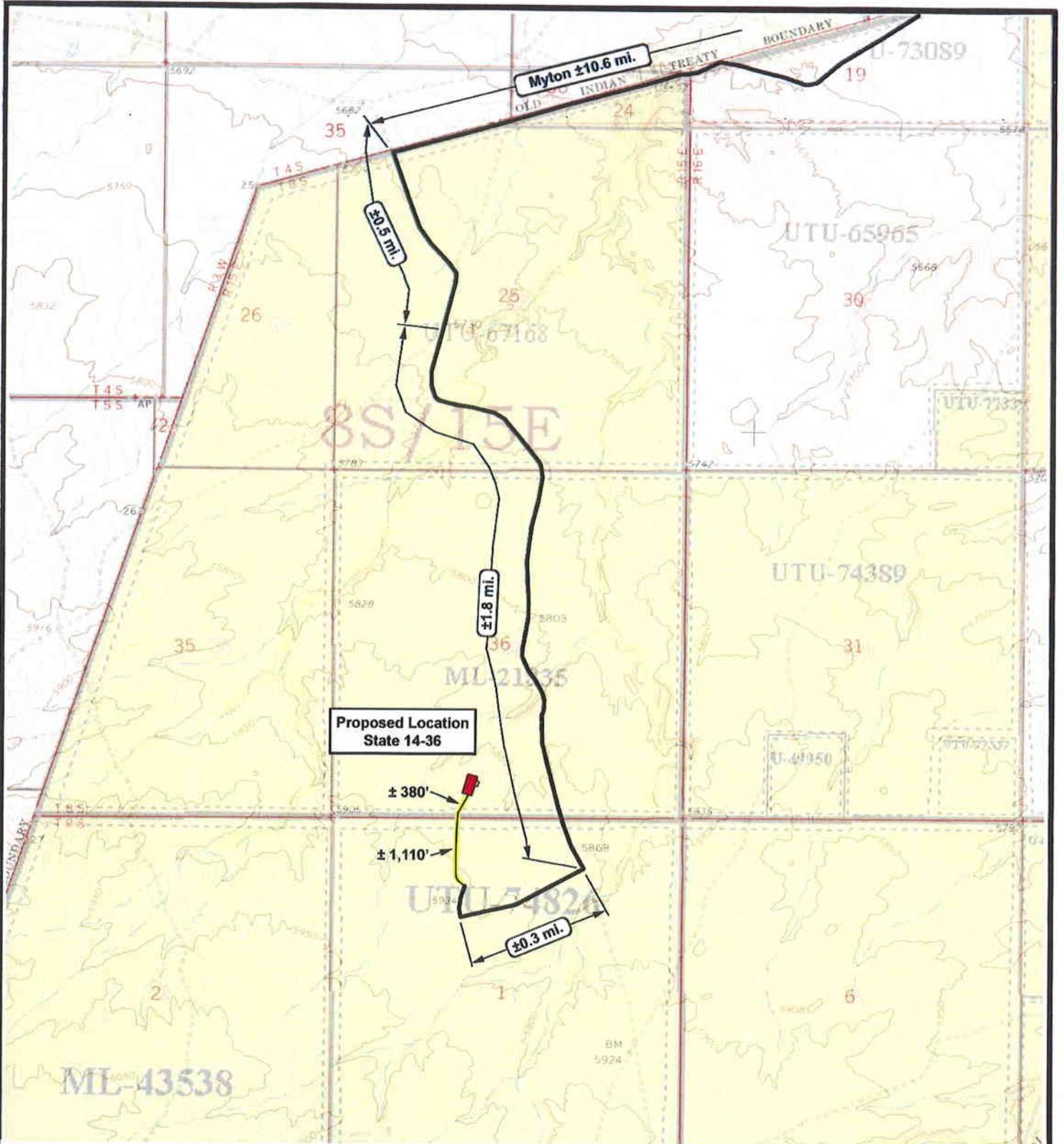
Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000
DRAWN BY: mw
DATE: 12-26-2008

Legend

- Existing Road
- Proposed Access

TOPOGRAPHIC MAP
"A"



**Proposed Location
State 14-36**

± 380'

± 1,110'

± 0.3 mi.

Myton ± 10.6 mi.

29.5 mi.

± 1.8 mi.

ML-43538

ML-21335

UTU-74389

UTU-65965

U-73089

8S / 15E

NEWFIELD
Exploration Company

**State 14-36-8-15
SEC. 36, T8S, R15E, S.L.B.&M.**



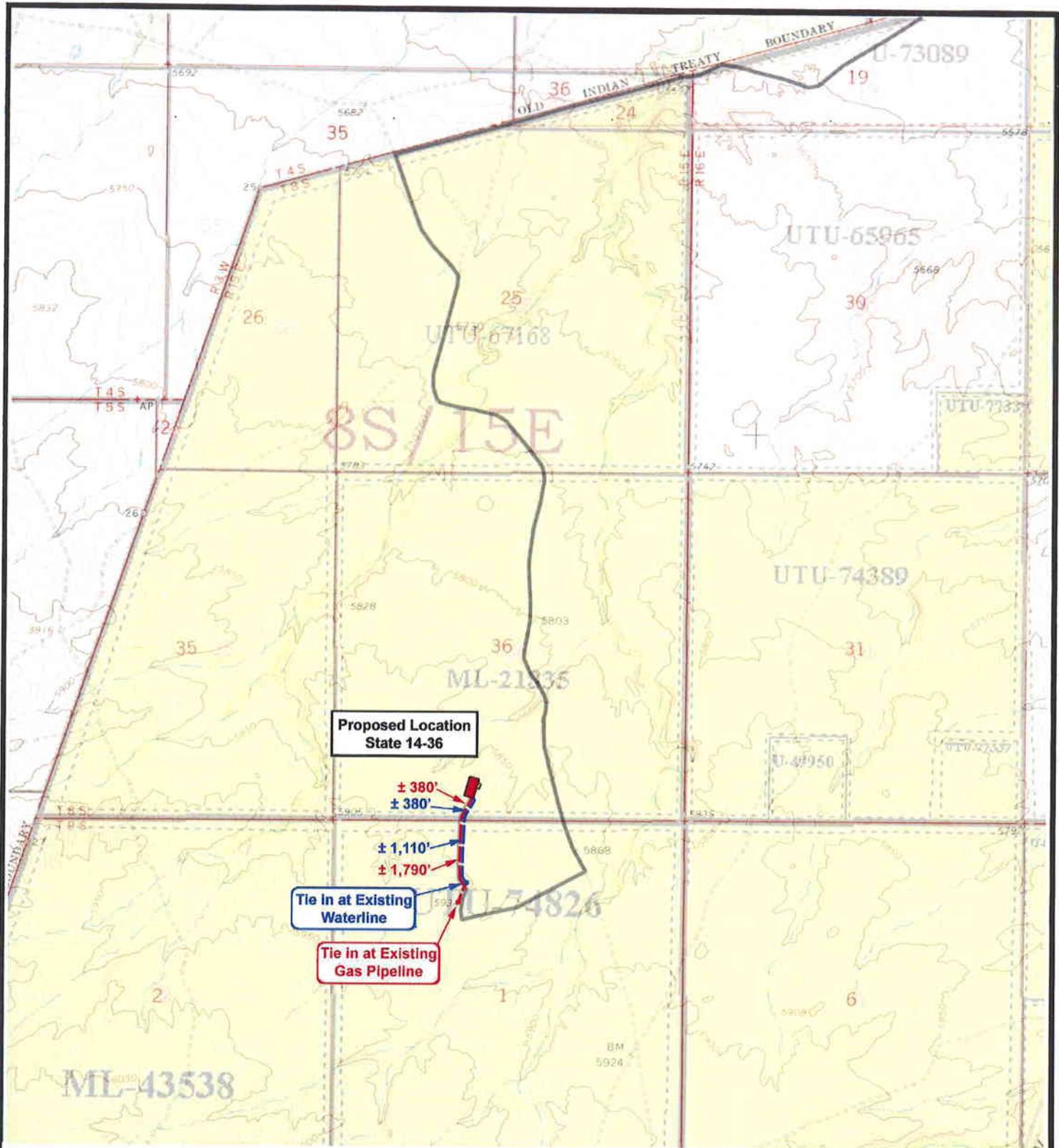
Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'
DRAWN BY: mw
DATE: 12-26-2008

Legend

- Existing Road
- Proposed Access

TOPOGRAPHIC MAP
"B"



Proposed Location
State 14-36

± 380'
± 380'

± 1,110'
± 1,790'

Tie in at Existing
Waterline

Tie in at Existing
Gas Pipeline

NEWFIELD
Exploration Company

State 14-36-8-15
SEC. 36, T8S, R15E, S.L.B.&M.

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

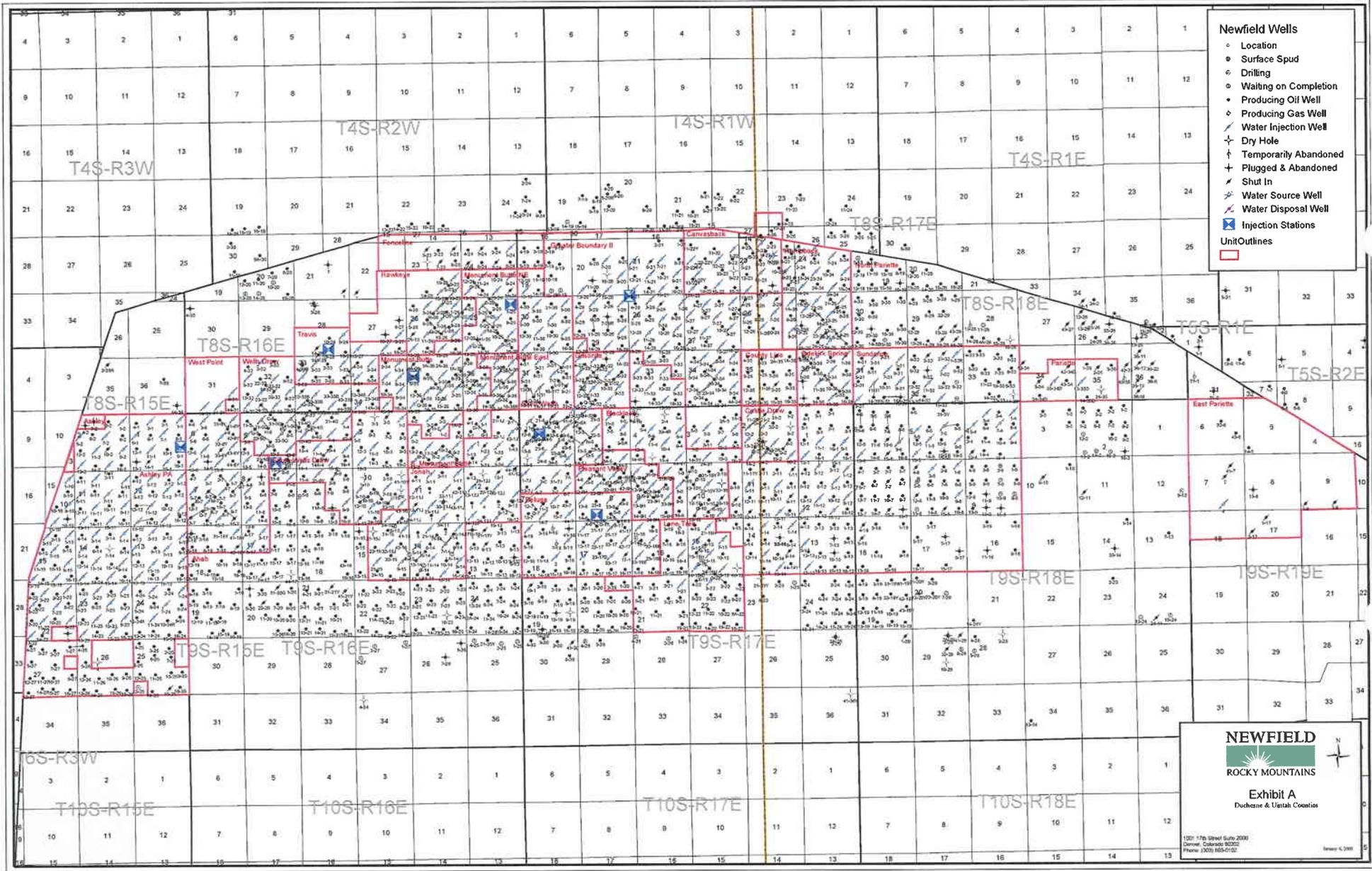
SCALE: 1" = 2,000'
DRAWN BY: mw
DATE: 12-26-2008

Legend

- Roads
- Proposed Gas Line
- Proposed Water Line

TOPOGRAPHIC MAP

"C"



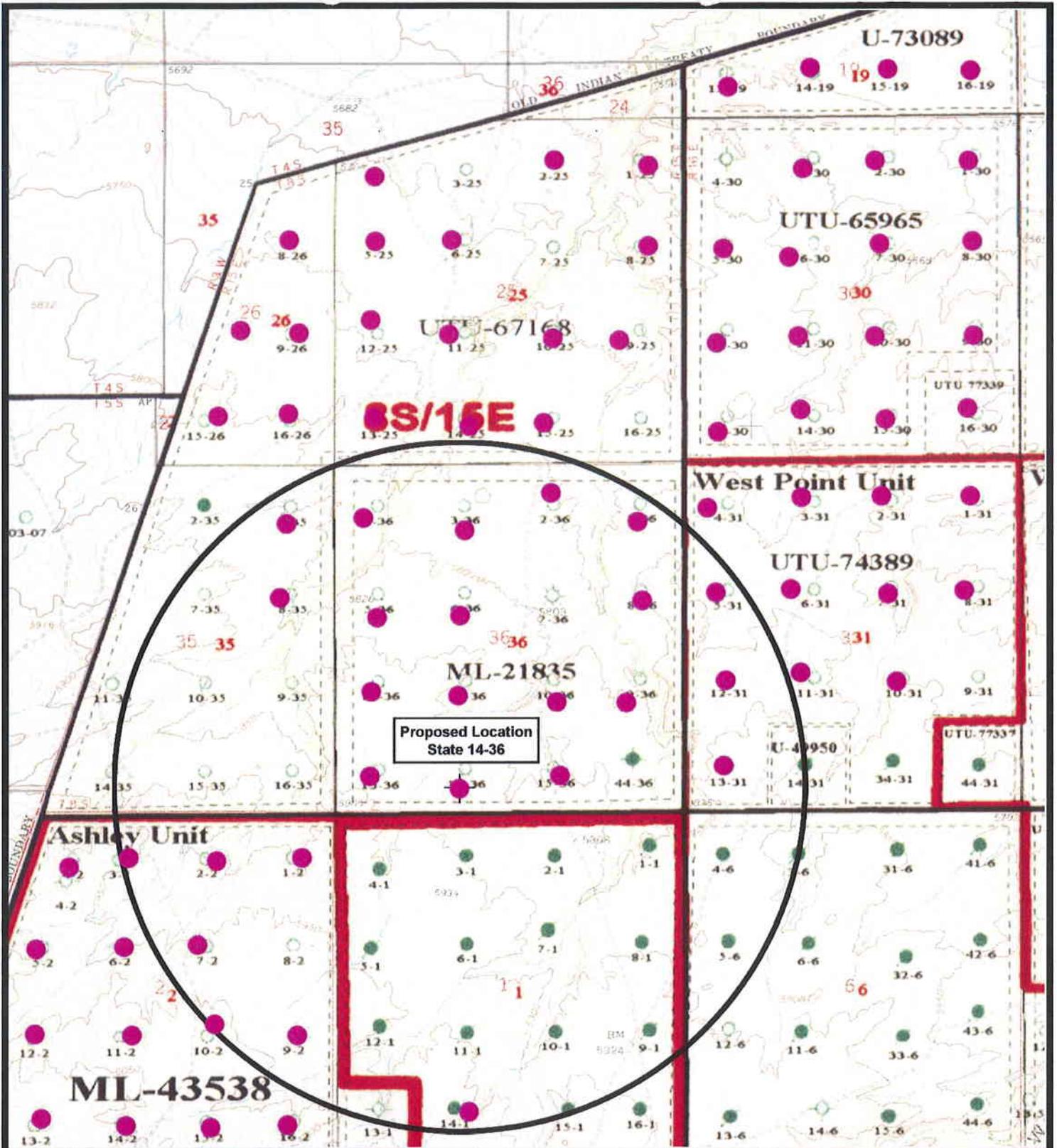
- Newfield Wells**
- Location
 - ◻ Surface Spud
 - Drilling
 - Waiting on Completion
 - Producing Oil Well
 - ◇ Producing Gas Well
 - ⊕ Water Injection Well
 - ⊖ Dry Hole
 - ⊕ Temporarily Abandoned
 - ⊖ Plugged & Abandoned
 - ⊖ Shut In
 - ⊕ Water Source Well
 - ⊖ Water Disposal Well
 - ⊕ Injection Stations
 - ◻ Unit Outlines

NEWFIELD
 ROCKY MOUNTAINS

Exhibit A
 Duchesne & Uintah Counties

1001 17th Street Suite 2000
 Denver, Colorado 80202
 Phone (303) 885-0100

Issue 4, 2008



State 14-36-8-15
SEC. 36, T8S, R15E, 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: mw
 DATE: 12-26-2008

Legend

- Location
- One-Mile Radius

Exhibit "B"

2-M SYSTEM

Blowout Prevention Equipment Systems

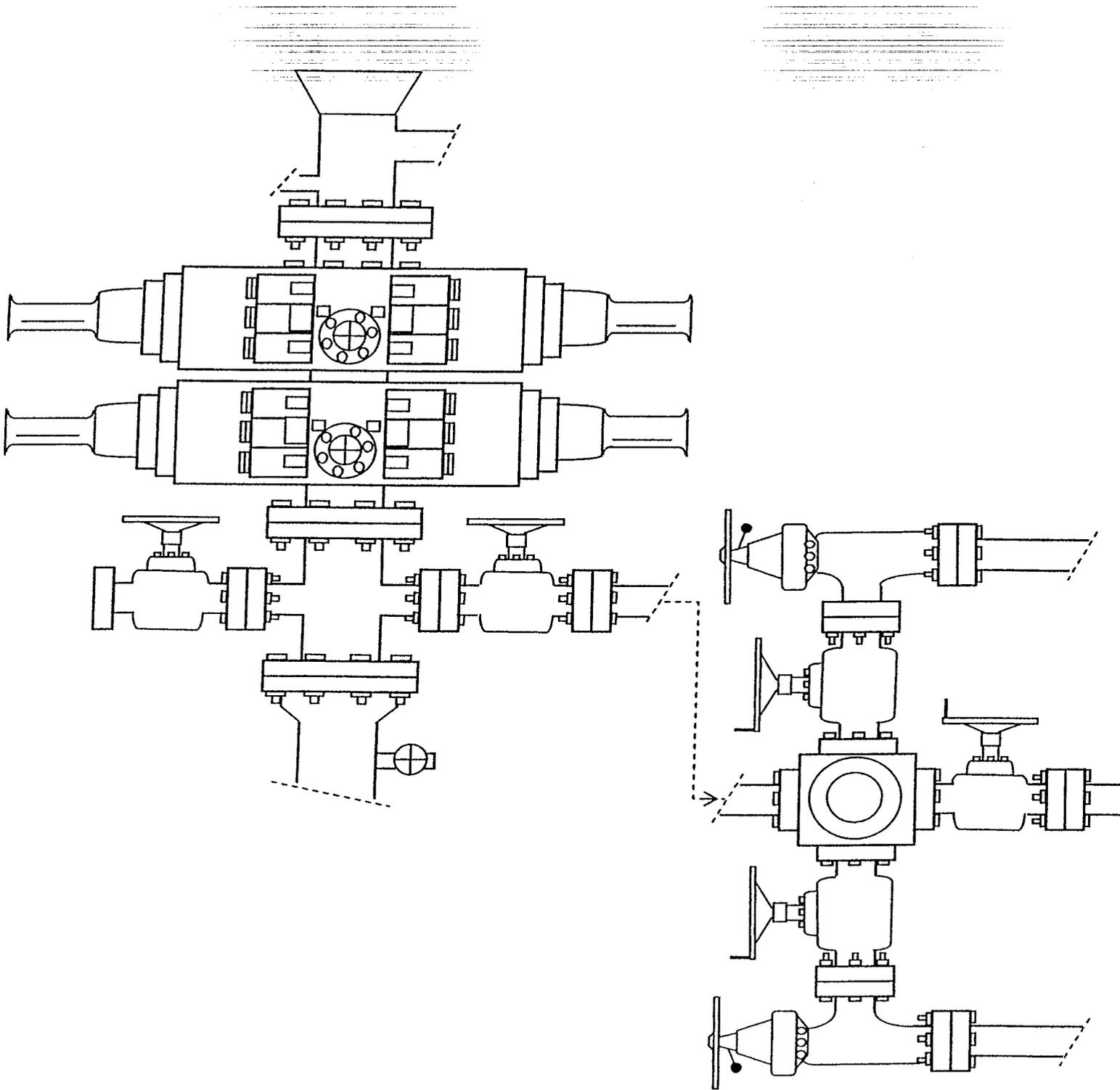


EXHIBIT C

Exhibit "D"

CULTURAL RESOURCE INVENTORY OF
NEWFIELD EXPLORATION'S FOUR BLOCK PARCELS
(T8S, R15E, SECTIONS 25, 26, 35, AND 36)
DUCHESNE COUNTY, UTAH

By:

Nicole Shelnut

Prepared For:

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

Prepared Under Contract With:

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

Prepared By:

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

MOAC Report No. 08-301

January 26, 2009

United States Department of Interior (FLPMA)
Permit No. 08-UT-60122

State of Utah Antiquities Project (Survey)
Permit No. U-08-MQ-1227b,s



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

April 27, 2009

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

Re: State 14-36-8-15 Well, 502' FSL, 2096' FWL, SE SW, Sec. 36, T. 8 South, R. 15 East,
Duchesne 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 43-013-34222.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Duchesne County Assessor
SITLA



Operator: Newfield Production Company

Well Name & Number State 14-36-8-15

API Number: 43-013-34222

Lease: ML-21835

Location: SE SW Sec. 36 T. 8 South R. 15 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

43-013-34222

April 27, 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. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.
7. Surface casing shall be cemented to the surface.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML-21835
---	---

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: STATE 14-36-8-15
------------------------------------	---

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013342220000
--	---

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: 0502 FSL 2096 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 36 Township: 08.0S Range: 15.0E Meridian: S	COUNTY: DUCHESNE 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: 1/29/2010 <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 checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: APD Change

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

Newfield requests to amend the above mentioned APD. This well will now be drilled as a Horizontal Well. The new APD package is attached. The name for this well will be changed as well. The new name will be the Greater Monument Butte 14-36-8-15H. We are also requesting "Tight Hole Status" be place on this APD.

Approved by the Utah Division of Oil, Gas and Mining

Date: February 16, 2010

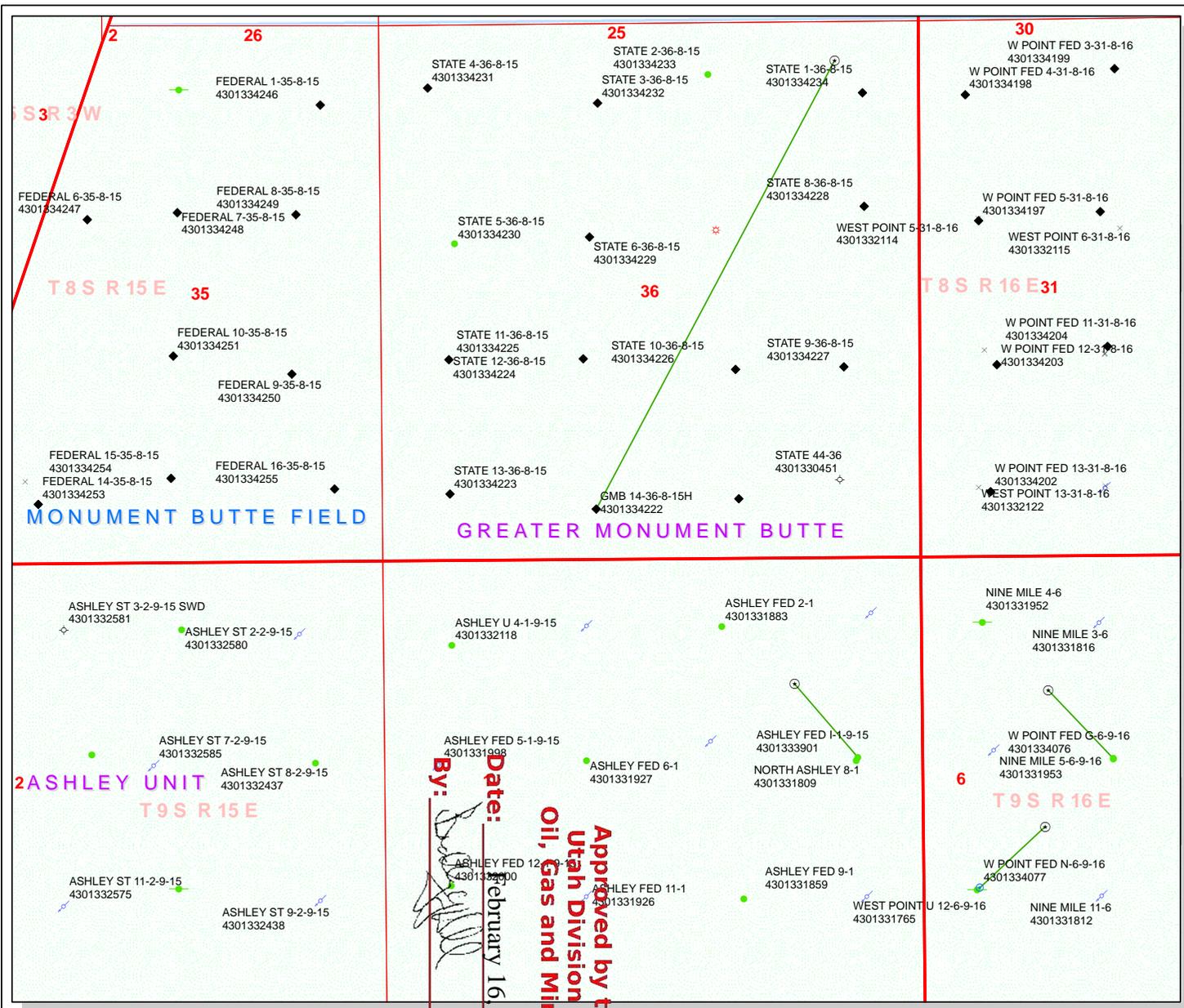
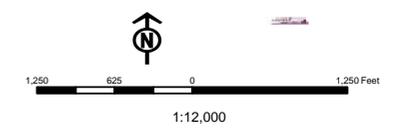
By:

NAME (PLEASE PRINT) Mandie Crozier	PHONE NUMBER 435 646-4825	TITLE Regulatory Tech
SIGNATURE N/A		DATE 1/29/2010

API Number: 4301334222
Well Name: GMB 14-36-8-15H
Township 08.0 S Range 15.0 E Section 36
Meridian: SLBM
 Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
 Map Produced by Diana Mason

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



Approved by the
 Utah Division of
 Oil, Gas and Mining
 Date: February 16, 2010
 By: *[Signature]*

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

February 10, 2010

Memorandum

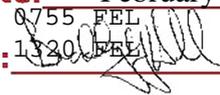
To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2010 Plan of Development Greater Monument
Butte Unit, Duchesne and Uintah Counties,
Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following vertical and horizontal wells are planned for calendar year 2010 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-34222	GMBBU 14-36-8-15H	Sec 36 T08S R15E 0502 FSL 2096 FWL
	Lateral 1	Sec 36 T08S R15E 0386 FNL 0824 FEL
43-013-50242	GMBU 14-14T-9-15H	Sec 14 T09S R15E 0510 FSL 2307 FWL
	Lateral 1	Sec 14 T09S R15E 0283 FNL 1120 FEL
43-013-50243	GMBU 15-22-9-15H	Sec 22 T09S R15E 0661 FSL 1078 FEL
	Lateral 1	Sec 15 T09S R15E 0172 FSL 0375 FEL
43-013-50244	GMBU I-2-9-16	Sec 02 T09S R16E 0750 FNL 0755 FEL
	BHL	Sec 02 T09S R16E 1207 FNL 1320 FEL
43-013-50248	GMBU E-1-9-16	Sec 01 T09S R16E 0787 FNL 0628 FWL
	BHL	Sec 01 T09S R16E 0010 FNL 0010 FWL
43-013-50249	GMBU D-1-9-16	Sec 01 T09S R16E 0775 FNL 0645 FWL
	BHL	Sec 01 T09S R16E 0010 FNL 1395 FWL
43-013-50250	GMBU M-1-9-16	Sec 01 T09S R16E 1998 FSL 1974 FWL
	BHL	Sec 01 T09S R16E 2630 FNL 2630 FEL
43-013-50251	GMBU N-1-9-16	Sec 01 T09S R16E 1965 FNL 0674 FWL
	BHL	Sec 01 T09S R16E 2635 FSL 1325 FWL

Approved by the
Utah Division of
Oil, Gas and Mining

Date: February 16, 2010

By: 

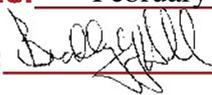
43-013-50252	GMBU C-26-8-16	Sec 23 T08S R16E 0635 FSL 1972 FWL
		BHL Sec 26 T08S R16E 0010 FNL 2635 FEL
43-013-50253	GMBU A-11-9-16	Sec 01 T09S R16E 0856 FSL 0817 FWL
		BHL Sec 11 T09S R16E 0010 FNL 0010 FEL
43-013-50254	GMBU T-2-9-16	Sec 01 T09S R16E 0871 FSL 0831 FWL
		BHL Sec 02 T09S R16E 1325 FSL 0010 FEL
43-013-50255	GMBU F-2-9-16	Sec 03 T09S R16E 2103 FNL 0451 FEL
		BHL Sec 02 T09S R16E 1390 FNL 0010 FWL
43-013-50256	GMBU O-2-9-16	Sec 03 T09S R16E 2113 FNL 0470 FEL
		BHL Sec 02 T09S R16E 2451 FSL 0075 FWL
43-013-50257	GMBU H-1-9-16	Sec 01 T09S R16E 0679 FNL 1992 FEL
		BHL Sec 01 T09S R16E 1325 FNL 2635 FWL
43-013-50258	GMBU R-26-8-16	Sec 26 T08S R16E 1970 FSL 2033 FEL
		BHL Sec 26 T08S R16E 1310 FSL 2635 FWL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

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

Date: February 16, 2010

By: 

bcc: File - Greater Monument Butte Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:2-10-10

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

FORM 3

AMENDED REPORT
(highlight changes)

APPLICATION FOR PERMIT TO DRILL		5. MINERAL LEASE NO: ML-21835	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA	
B. TYPE OF WELL: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. UNIT or CA AGREEMENT NAME: Greater Monument Butte	
2. NAME OF OPERATOR: Newfield Production Company		9. WELL NAME and NUMBER: Greater Mon. Butte 14-36-8-15H	
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: Monument Butte
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: SE/SW 502' FSL 2096' FWL Sec. 36 T8S R15E AT PROPOSED PRODUCING ZONE: NE/NE 386' FNL 824' FEL Sec. 36 T8S R15E		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 36 8S 15E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: Approximately 13.5 miles southwest of Myton, Utah		12. COUNTY: Duchesne	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) Approx. 386' f/lse line, NA' f/unit line	16. NUMBER OF ACRES IN LEASE: 640.00 acres	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 320 acres	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) Approx. 592'	19. PROPOSED DEPTH: 6,244	20. BOND DESCRIPTION: #B001834	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5873' GL	22. APPROXIMATE DATE WORK WILL START: 2nd Qtr. 2010	23. ESTIMATED DURATION: (10) days from SPUD to rig release	

24. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
12 1/4	8 5/8	J-55	24.0	300	Class G w/2% CaCl	155 sx +/-	1.17	15.8
7 7/8	5 1/2	J-55	15.5	6,244	Lead(Prem Lite II)	275 sx +/-	3.26	11.0
					Tail (50/50 Poz)	450 sx +/-	1.24	14.3

25. ATTACHMENTS

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

- | | |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

NAME (PLEASE PRINT) Mandie Crozier TITLE Regulatory Specialist
SIGNATURE *Mandie Crozier* DATE 1/28/10

(This space for State use only)

API NUMBER ASSIGNED: _____

APPROVAL: _____

**NEWFIELD PRODUCTION COMPANY
GREATER MONUMENT BUTTE 14-36-8-15H
SHL: SE/SW SECTION 36, T8S, R15E
BHL: NE/NE SECTION 36, T8S, R15E
DUCHESNE COUNTY, UTAH**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

This well is designed as a horizontal in the Basal Carbonate formation, at the base of the Green River formation. The well will be drilled vertically to a kick off point of 5,766'. Directional tools will then be used to build to 90° inclination and the well will be landed in the Basal Carbonate formation. The lateral will be drilled to the proposed bottomhole location, and 5-1/2" production casing will be run to TD and cemented in place.

1. GEOLOGIC SURFACE FORMATION:

Uinta formation

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Green River	1,605'
Target (Basal Carbonate)	6,244'
TD	6,244' TVD / 11,032' MD

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

Green River Formation (Oil) 4,200' – 6,244' TVD

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 Bicarbonate (NaHCO₃) (mg/l)
 Dissolved Sulfate (SO₄) (mg/l)

Dissolved Carbonate (CO₃) (mg/l)
 Dissolved Chloride (Cl) (mg/l)
 Dissolved Total Solids (TDS) (mg/l)

4. PROPOSED CASING PROGRAM

a. Casing Design

Description	Interval		Weight (lb/ft)	Grade	Coupling	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Design Factors		
	Top	Btm							Burst	Collapse	Tension
Surface 8-5/8"	0'	300'	24.0	J-55	STC	8.33	8.33	12.0	15.02	12.30	29.05
Prod 5-1/2"	0'	6244' TVD 11032' MD	15.5	J-55	LTC	8.33	8.5	--	2.42	2.03	2.24

Assumptions:

- 1) Surface casing MASP = (frac gradient + 1.0 ppg) - gas gradient
- 2) Interm casing MASP = frac gradient - seawater gradient
- 3) Production casing MASP (production mode) = reservoir pressure - gas gradient
- 4) All collapse calculations assume fully evacuated casing = mud weightTD - gas gradient
- 5) All tension calculations assume air weight

All casing shall be new.

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

b. Cement Design

Job	Fill	Description	Sacks FT ³	Excess	Weight (ppg)	Yield (ft ³ /sk)
Surface Casing	300'	Class G w/ 2% CaCl ₂ , 0.25 lbs/sk Cello Flake	138 161	30%	15.8	1.17
Prod Casing Lead	4,200'	Prem Lite II w/ 3% KCl, 2% Bentonite (or equivalent cement)	271 946	30%	11.0	3.49
Prod Casing Tail	6,832'	50/50 Poz Class G w/ 3% KCl, 2% Bentonite (or equivalent cement)	1241 1539	30%	14.3	1.24

A 12-1/4" hole will be drilled for the surface casing. A 7-7/8" hole will be drilled vertically, for the curve, and for the lateral. The 5-1/2" production casing will be set in 7-7/8" hole size.

Actual cement volumes will be calculated from open hole logs, plus 15% excess.

Waiting On Cement: A minimum of four (4) hours shall elapse prior to attempting any pressure testing of the BOP equipment which would subject the surface casing cement to pressure, and a minimum of six (6) hours shall elapse before drilling out of the wiper plug, cement, or shoe is begun. WOC time shall be recorded in the Driller's Log. Compressive Strength shall be a minimum of 500 psi prior to drilling out.

The Vernal BLM Office shall be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

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

The production casing cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals.

The minimum diameter for conductor pipe shall be 13 3/8". The conductor pipe will be cemented back to surface or removed.

As a minimum, usable water zones shall be isolated and/or protected by having a cement top for the production casing at least 200 feet above the base of the usable water. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc., shall be utilized to help isolate the cement from contamination by the mud being displaced ahead of the cement slurry.

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or to 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action shall be taken.

A Form 3160-5, "Sundry Notices and Reports on Wells" shall be filed with the Vernal Office Manager within 30 days after the work is completed. This report must include the following information:

Setting of each string of casing showing the size, grade, weight of casing set, depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of the cementing tools used, casing test method and results, and the date of the work done. Spud date will be shown on the first reports submitted.

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

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

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

A 2000 psi WP hydraulic BOP stack consisting of two ram preventers (double or two singles) and a rotating head per **Exhibit C**. This system will be in accordance to the specifications listed in the Standard Operating Procedures for the Greater Monument Butte Green River Development Program.

Function test of the BOP equipment shall be made daily. All required BOP tests and/or drills shall be recorded in the Driller's report.

Chart recorders will be used for all pressure tests. Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to BLM representatives upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2 regarding air or gas shall be adhered to. If a mist system is being utilized, the requirement for a deduster shall be waived.

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

From surface to 300', an air system will be used. From 300' to TD, a fresh water or brine water system will be utilized. Anticipated maximum mud weight is 9.0 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.

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

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

a. **Logging Program:**

(the log types run may change at the discretion of the geologist)

FDC/CNL/GR/DIL: TD - 3,200'

CBL: A cement bond log will be run from KOP to the cement top of the production casing. A field copy will be submitted to the Vernal BLM Office.

b. **Cores:** As deemed necessary.

c. **Drill Stem Tests:** No DSTs are planned in the Green River/Wasatch section. It is possible that DST may be required in the Green River Formation.

Drill stem tests, if they are run, will adhere to the following requirements: Initial opening of the drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the Authorized Officer (AO). However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released but tripping shall not begin before daylight, unless prior approval is obtained from the AO. Closed chamber DSTs may be performed day or night.

Some means of reverse circulation shall be provided in case of flow to the surface showing evidence of hydrocarbons.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

If a DST is performed, all engines within 100 feet of the wellbore that are required to be operational during the test shall have spark arresters or water-cooled exhausts.

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

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

There is no abnormal pressure or temperature expected. Maximum anticipated bottomhole pressure will be approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

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

a. **Drilling Activity**

Anticipated Commencement Date:	Upon approval of the site specific APD.
Drilling Days:	Approximately 10 days.
Completion Days:	Approximately 12 - 20 days.

b. **Notification of Operations**

The Vernal BLM office will be notified at least 24 hours **prior** to the commencement of spudding the well (to be followed with a Sundry Notice, Form 3160-5), of initiating pressure tests of the blowout preventer and related equipment, and running casing and cementing of all casing strings. Notification will be made during regular work hours (7:45 a.m.-4:30 p.m., Monday - Friday except holidays).

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the appropriate regulations, Onshore Orders, or BLM policy.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in suspended status without prior approval from the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given to the BLM before resumption of operations.

Daily drilling and completion reports shall be submitted to the Vernal BLM Office on a weekly basis.

Whether the well is completed as a dry hole or a producer, the "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. One copy of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Authorized Officer (AO).

A completion rig will be used for completion operations after the wells are stimulated to run the production tubing. All conditions of this approved plan will be applicable during all operations conducted with the completion rig.

Operator shall report production data to the MMS pursuant to 30 CFR 216.5 using form MMS/3160. In accordance with Onshore Oil and Gas Order No. 1, a well will be reported on form 3160-6, "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM Office.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated, or the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever occurs first; and for gas wells, as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated, or the date on which gas is measured through permanent metering facilities, whichever occurs first.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by written communication not later than 5 days following the date when the well is placed on production.

Pursuant to Onshore Order No. 7, with the approval of the AO, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During this period, an application for approval of the permanent disposal method must be submitted to the AO.

Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during the initial well evaluation tests, not to exceed 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the AO and approval received for any venting/flaring of gas beyond the initial 30 days or authorized test period.

A schematic facilities diagram, as required by 43 CFR 3162.7-5(b.9.d), shall be submitted to the Vernal BLM Office within 60 days of installation or first production, whichever occurs first. All site security regulations, as specified in Onshore Oil & Gas Order No. 3, shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5(b.4).

Well abandonment operations shall not be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment", Form 3160-5, will be filed with the Authorized Officer within 30 days following completion of the well for abandonment. This report will indicate placement of the plugs and current status of the surface restoration. Final Abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO, or the appropriate surface managing agency.

Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with the State and local laws, to the extent to which they are applicable, to operations on Federal or Indian lands.

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

2-M SYSTEM
Blowout Prevention Equipment Systems

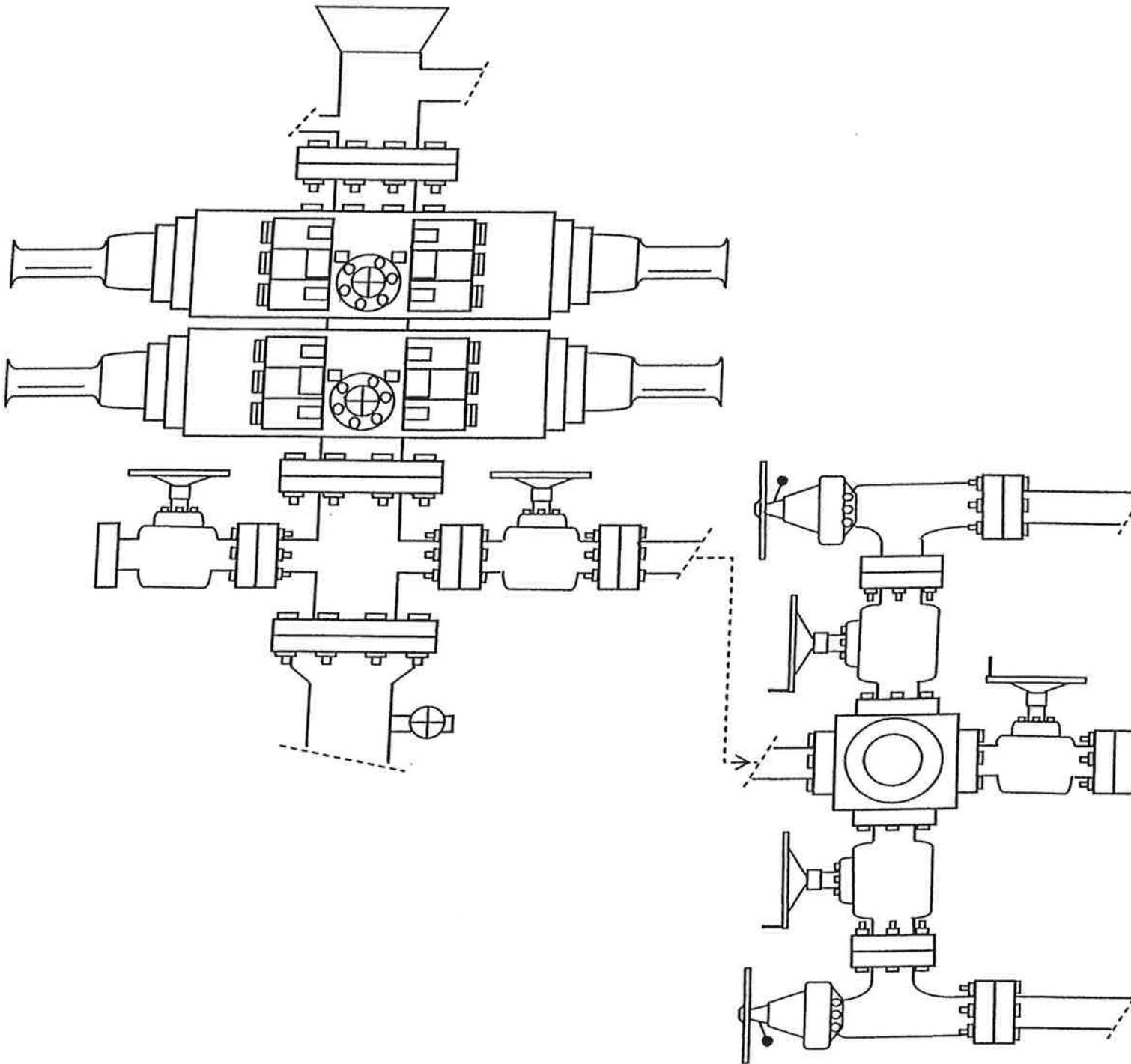
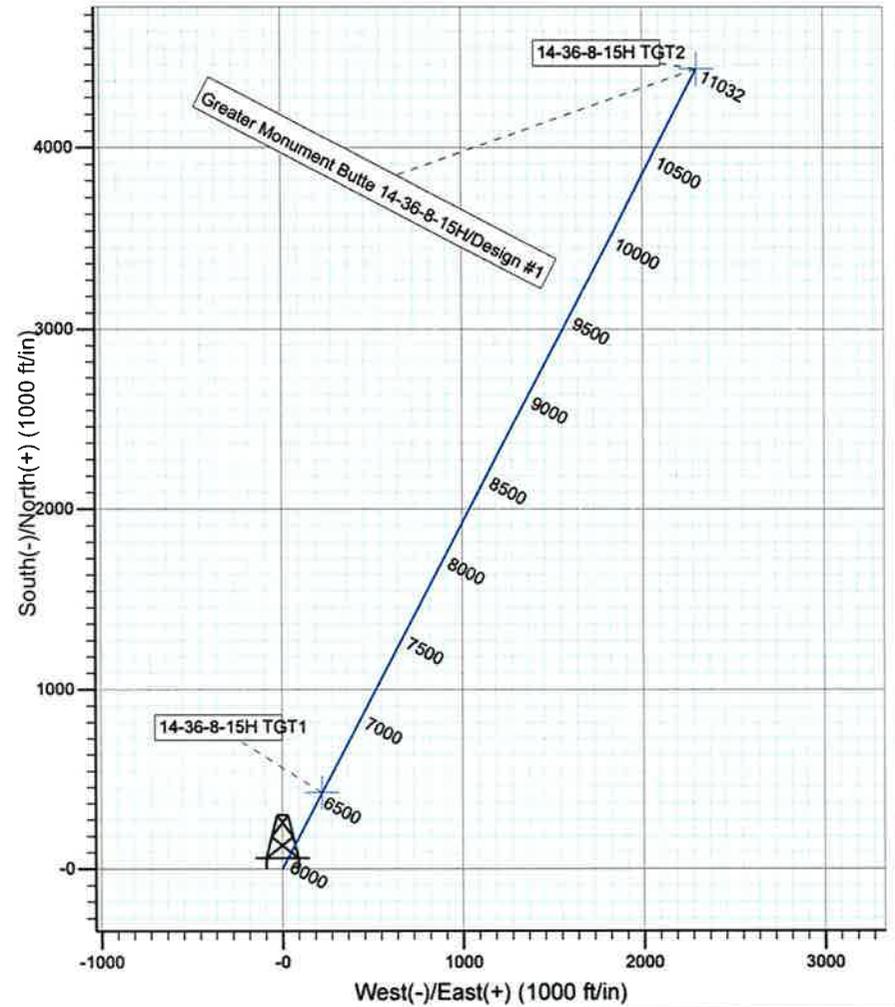
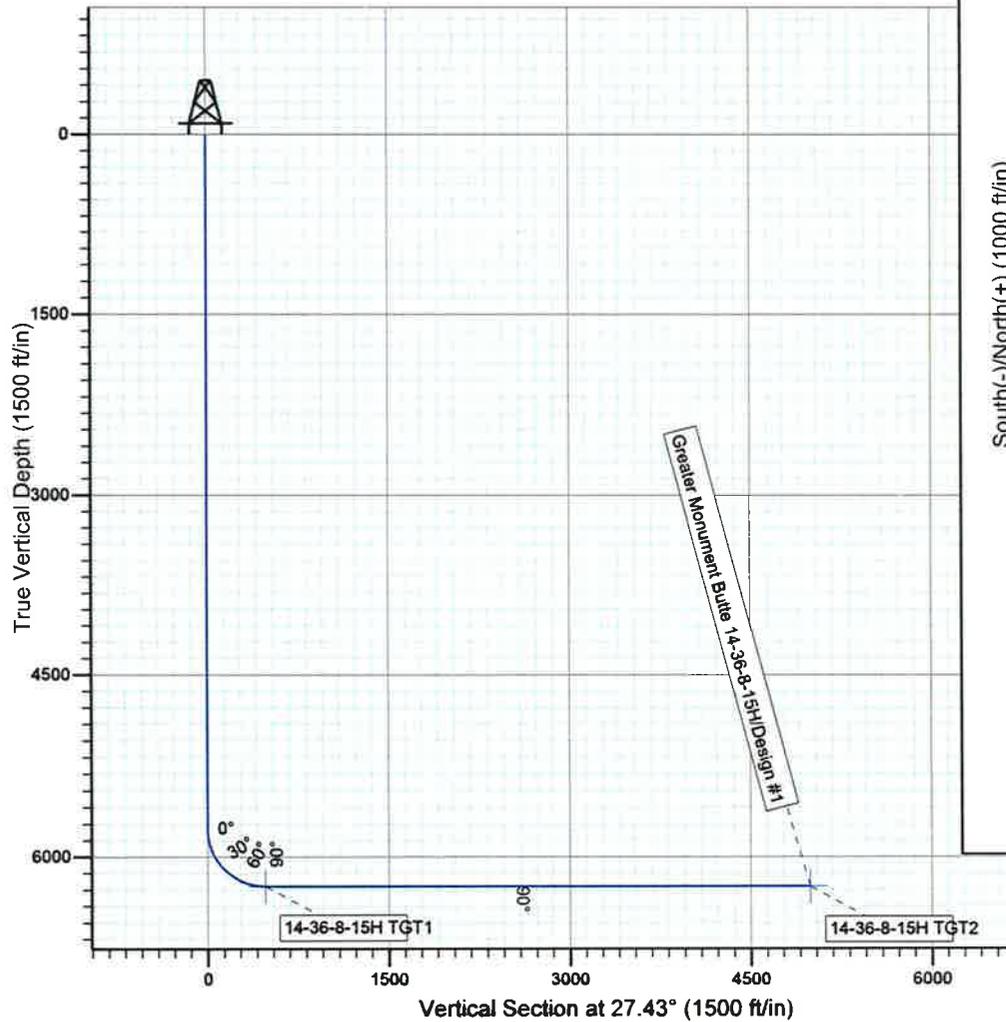


EXHIBIT C



KOP @ 5766.5'
MAX DOGLEG RATE 12"
TARGET POINTS

Project: USGS Myton SW (UT)
Site: SECTION 36 T8S, R15E
Well: Greater Monument Butte 14-36-8-15H
Wellbore: Wellbore #1
Design: Design #1



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	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	5766.5	0.00	0.00	5766.5	0.0	0.0	0.00	0.00	0.0	
4	6516.5	90.00	27.43	6244.0	423.8	220.0	12.00	27.43	477.5	
5	11031.6	90.00	27.43	6244.0	4431.2	2299.9	0.00	0.00	4992.5	14-36-8-15H TGT2

WELLBORE TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape
14-36-8-15H TGT1	6244.0	423.8	219.9	7196848.14	2009349.73	40° 4' 11.088 N 110° 10' 53.891 W		Point
14-36-8-15H TGT2	6244.0	4431.2	2299.9	7200885.40	2011370.21	40° 4' 50.689 N 110° 10' 27.133 W		Point

RECEIVED January 29, 2010

NEWFIELD



NEWFIELD EXPLORATION

**USGS Myton SW (UT)
SECTION 36 T8S, R15E
Greater Monument Butte 14-36-8-15H**

Wellbore #1

Plan: Design #1

Standard Planning Report

25 January, 2010

HATHAWAY **HB** **BURNHAM**
TIB
DIRECTIONAL & MWD SERVICES

RECEIVED January 29, 2010



Hathaway Burnham Planning Report



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Greater Monument Butte 14-36-8-15H
Company:	NEWFIELD EXPLORATION	TVD Reference:	14-36-8-15H @ 5885.6ft (NEWFIELD RIG)
Project:	USGS Myton SW (UT)	MD Reference:	14-36-8-15H @ 5885.6ft (NEWFIELD RIG)
Site:	SECTION 36 T8S, R15E	North Reference:	True
Well:	Greater Monument Butte 14-36-8-15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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

Site	SECTION 36 T8S, R15E				
Site Position:		Northing:	7,198,500.00ft	Latitude:	40° 4' 27.419 N
From:	Lat/Long	Easting:	2,009,300.00ft	Longitude:	110° 10' 54.217 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.84 °

Well	Greater Monument Butte 14-36-8-15H, SHL LAT: 40 04 06.90, LONG: -110 10 56.72					
Well Position	+N/-S	-2,076.4 ft	Northing:	7,196,421.20 ft	Latitude:	40° 4' 6.900 N
	+E/-W	-194.6 ft	Easting:	2,009,136.07 ft	Longitude:	110° 10' 56.720 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	5,885.6 ft	Ground Level:	5,873.6 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2009/12/07	11.54	65.84	52,445

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	27.43

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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,766.5	0.00	0.00	5,766.5	0.0	0.0	0.00	0.00	0.00	0.00	
6,516.5	90.00	27.43	6,244.0	423.8	220.0	12.00	12.00	0.00	27.43	
11,031.6	90.00	27.43	6,244.0	4,431.2	2,299.9	0.00	0.00	0.00	0.00	14-36-8-15H TGT2



Hathaway Burnham

Planning Report



Database: EDM 2003.21 Single User Db
Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 36 T8S, R15E
Well: Greater Monument Butte 14-36-8-15H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Greater Monument Butte 14-36-8-15H
TVD Reference: 14-36-8-15H @ 5885.6ft (NEWFIELD RIG)
MD Reference: 14-36-8-15H @ 5885.6ft (NEWFIELD RIG)
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
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00



Database: EDM 2003.21 Single User Db
Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 36 T8S, R15E
Well: Greater Monument Butte 14-36-8-15H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Greater Monument Butte 14-36-8-15H
 14-36-8-15H @ 5885.6ft (NEWFIELD RIG)
 14-36-8-15H @ 5885.6ft (NEWFIELD RIG)
 True
 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)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,766.5	0.00	0.00	5,766.5	0.0	0.0	0.0	0.00	0.00	0.00
5,775.0	1.02	27.43	5,775.0	0.1	0.0	0.1	12.00	12.00	0.00
5,800.0	4.02	27.43	5,800.0	1.0	0.5	1.2	12.00	12.00	0.00
5,825.0	7.02	27.43	5,824.9	3.2	1.6	3.6	12.00	12.00	0.00
5,850.0	10.02	27.43	5,849.6	6.5	3.4	7.3	12.00	12.00	0.00
5,875.0	13.02	27.43	5,874.1	10.9	5.7	12.3	12.00	12.00	0.00
5,900.0	16.02	27.43	5,898.3	16.4	8.5	18.5	12.00	12.00	0.00
5,925.0	19.02	27.43	5,922.1	23.1	12.0	26.1	12.00	12.00	0.00
5,950.0	22.02	27.43	5,945.5	30.9	16.0	34.8	12.00	12.00	0.00
5,975.0	25.02	27.43	5,968.4	39.8	20.6	44.8	12.00	12.00	0.00
6,000.0	28.02	27.43	5,990.8	49.7	25.8	56.0	12.00	12.00	0.00
6,025.0	31.02	27.43	6,012.6	60.6	31.4	68.3	12.00	12.00	0.00
6,050.0	34.02	27.43	6,033.6	72.5	37.6	81.7	12.00	12.00	0.00
6,075.0	37.02	27.43	6,054.0	85.4	44.3	96.2	12.00	12.00	0.00
6,100.0	40.02	27.43	6,073.5	99.2	51.5	111.8	12.00	12.00	0.00
6,125.0	43.02	27.43	6,092.3	113.9	59.1	128.4	12.00	12.00	0.00
6,150.0	46.02	27.43	6,110.1	129.5	67.2	145.9	12.00	12.00	0.00
6,175.0	49.02	27.43	6,127.0	145.8	75.7	164.3	12.00	12.00	0.00
6,200.0	52.02	27.43	6,142.9	163.0	84.6	183.6	12.00	12.00	0.00
6,225.0	55.02	27.43	6,157.7	180.8	93.8	203.7	12.00	12.00	0.00
6,250.0	58.02	27.43	6,171.5	199.3	103.4	224.6	12.00	12.00	0.00
6,275.0	61.02	27.43	6,184.2	218.4	113.4	246.1	12.00	12.00	0.00
6,300.0	64.02	27.43	6,195.7	238.1	123.6	268.3	12.00	12.00	0.00
6,325.0	67.02	27.43	6,206.1	258.3	134.1	291.0	12.00	12.00	0.00
6,350.0	70.02	27.43	6,215.3	279.0	144.8	314.3	12.00	12.00	0.00
6,375.0	73.02	27.43	6,223.2	300.0	155.7	338.0	12.00	12.00	0.00
6,400.0	76.02	27.43	6,229.8	321.4	166.8	362.1	12.00	12.00	0.00
6,425.0	79.02	27.43	6,235.3	343.0	178.0	386.5	12.00	12.00	0.00
6,450.0	82.02	27.43	6,239.4	364.9	189.4	411.1	12.00	12.00	0.00
6,475.0	85.02	27.43	6,242.2	387.0	200.8	436.0	12.00	12.00	0.00
6,500.0	88.02	27.43	6,243.7	409.1	212.3	460.9	12.00	12.00	0.00
6,516.5	90.00	27.43	6,244.0	423.8	220.0	477.5	12.00	12.00	0.00
14-36-8-15H TGT1									
6,600.0	90.00	27.43	6,244.0	497.9	258.4	560.9	0.00	0.00	0.00
6,700.0	90.00	27.43	6,244.0	586.6	304.5	660.9	0.00	0.00	0.00
6,800.0	90.00	27.43	6,244.0	675.4	350.5	760.9	0.00	0.00	0.00
6,900.0	90.00	27.43	6,244.0	764.1	396.6	860.9	0.00	0.00	0.00
7,000.0	90.00	27.43	6,244.0	852.9	442.7	960.9	0.00	0.00	0.00
7,100.0	90.00	27.43	6,244.0	941.7	488.7	1,060.9	0.00	0.00	0.00
7,200.0	90.00	27.43	6,244.0	1,030.4	534.8	1,160.9	0.00	0.00	0.00
7,300.0	90.00	27.43	6,244.0	1,119.2	580.9	1,260.9	0.00	0.00	0.00
7,400.0	90.00	27.43	6,244.0	1,207.9	626.9	1,360.9	0.00	0.00	0.00
7,500.0	90.00	27.43	6,244.0	1,296.7	673.0	1,460.9	0.00	0.00	0.00
7,600.0	90.00	27.43	6,244.0	1,385.4	719.1	1,560.9	0.00	0.00	0.00
7,700.0	90.00	27.43	6,244.0	1,474.2	765.1	1,660.9	0.00	0.00	0.00
7,800.0	90.00	27.43	6,244.0	1,563.0	811.2	1,760.9	0.00	0.00	0.00
7,900.0	90.00	27.43	6,244.0	1,651.7	857.3	1,860.9	0.00	0.00	0.00
8,000.0	90.00	27.43	6,244.0	1,740.5	903.3	1,960.9	0.00	0.00	0.00
8,100.0	90.00	27.43	6,244.0	1,829.2	949.4	2,060.9	0.00	0.00	0.00



Hathaway Burnham Planning Report



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TVD Reference: 14-36-8-15H @ 5885.6ft (NEWFIELD RIG)
MD Reference: 14-36-8-15H @ 5885.6ft (NEWFIELD RIG)
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)
8,200.0	90.00	27.43	6,244.0	1,918.0	995.5	2,160.9	0.00	0.00	0.00
8,300.0	90.00	27.43	6,244.0	2,006.7	1,041.5	2,260.9	0.00	0.00	0.00
8,400.0	90.00	27.43	6,244.0	2,095.5	1,087.6	2,360.9	0.00	0.00	0.00
8,500.0	90.00	27.43	6,244.0	2,184.3	1,133.7	2,460.9	0.00	0.00	0.00
8,600.0	90.00	27.43	6,244.0	2,273.0	1,179.7	2,560.9	0.00	0.00	0.00
8,700.0	90.00	27.43	6,244.0	2,361.8	1,225.8	2,660.9	0.00	0.00	0.00
8,800.0	90.00	27.43	6,244.0	2,450.5	1,271.9	2,760.9	0.00	0.00	0.00
8,900.0	90.00	27.43	6,244.0	2,539.3	1,317.9	2,860.9	0.00	0.00	0.00
9,000.0	90.00	27.43	6,244.0	2,628.0	1,364.0	2,960.9	0.00	0.00	0.00
9,100.0	90.00	27.43	6,244.0	2,716.8	1,410.1	3,060.9	0.00	0.00	0.00
9,200.0	90.00	27.43	6,244.0	2,805.6	1,456.1	3,160.9	0.00	0.00	0.00
9,300.0	90.00	27.43	6,244.0	2,894.3	1,502.2	3,260.9	0.00	0.00	0.00
9,400.0	90.00	27.43	6,244.0	2,983.1	1,548.3	3,360.9	0.00	0.00	0.00
9,500.0	90.00	27.43	6,244.0	3,071.8	1,594.3	3,460.9	0.00	0.00	0.00
9,600.0	90.00	27.43	6,244.0	3,160.6	1,640.4	3,560.9	0.00	0.00	0.00
9,700.0	90.00	27.43	6,244.0	3,249.3	1,686.5	3,660.9	0.00	0.00	0.00
9,800.0	90.00	27.43	6,244.0	3,338.1	1,732.5	3,760.9	0.00	0.00	0.00
9,900.0	90.00	27.43	6,244.0	3,426.9	1,778.6	3,860.9	0.00	0.00	0.00
10,000.0	90.00	27.43	6,244.0	3,515.6	1,824.7	3,960.9	0.00	0.00	0.00
10,100.0	90.00	27.43	6,244.0	3,604.4	1,870.7	4,060.9	0.00	0.00	0.00
10,200.0	90.00	27.43	6,244.0	3,693.1	1,916.8	4,160.9	0.00	0.00	0.00
10,300.0	90.00	27.43	6,244.0	3,781.9	1,962.9	4,260.9	0.00	0.00	0.00
10,400.0	90.00	27.43	6,244.0	3,870.6	2,008.9	4,360.9	0.00	0.00	0.00
10,500.0	90.00	27.43	6,244.0	3,959.4	2,055.0	4,460.9	0.00	0.00	0.00
10,600.0	90.00	27.43	6,244.0	4,048.2	2,101.1	4,560.9	0.00	0.00	0.00
10,700.0	90.00	27.43	6,244.0	4,136.9	2,147.1	4,660.9	0.00	0.00	0.00
10,800.0	90.00	27.43	6,244.0	4,225.7	2,193.2	4,760.9	0.00	0.00	0.00
10,900.0	90.00	27.43	6,244.0	4,314.4	2,239.3	4,860.9	0.00	0.00	0.00
11,000.0	90.00	27.43	6,244.0	4,403.2	2,285.3	4,960.9	0.00	0.00	0.00
11,031.6	90.00	27.43	6,244.0	4,431.2	2,299.9	4,992.5	0.00	0.00	0.00

14-36-8-15H TGT2

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
14-36-8-15H TGT1 - plan hits target - Point	0.00	0.00	6,244.0	423.8	219.9	7,196,848.14	2,009,349.73	40° 4' 11.088 N	110° 10' 53.891 W
14-36-8-15H TGT2 - plan hits target - Point	0.00	0.00	6,244.0	4,431.2	2,299.9	7,200,885.40	2,011,370.21	40° 4' 50.689 N	110° 10' 27.133 W

NEWFIELD PRODUCTION COMPANY
GREATER MONUMENT BUTTE 14-36-8-15H
AT SURFACE: SE/SW SECTION 36, T8S, R15E
DUCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. EXISTING ROADS

See attached **Topographic Map "A"**

To reach Newfield Production Company well location site Greater Monument Butte 14-36-8-15H located in the SE¼ SW¼ Section 36, T8S, R15E, S.L.B. & M., Duchesne 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 southwesterly - 6.4 miles to its junction with an existing road to the west; proceed southwesterly - 2.8 miles ± to its junction with an existing road to the south; proceed in a southerly direction - 2.3 miles ± to its junction with an existing road to the southwest; proceed southwesterly - 0.3 miles ± to its junction with an existing road to the north; proceed northerly - 0.1 miles ± to its junction with the beginning of the proposed access road to the northwest; proceed northerly along the proposed access road - 1,480' ± to the proposed 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

Approximately 1,480 of access road is proposed. See attached **Topographic Map "B"**.

The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%.

There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

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

3. **LOCATION OF EXISTING WELLS**

Refer to **EXHIBIT B**.

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

There are no existing facilities that will be used by this well.

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 a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. 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**

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not 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. A 16 mil liner with felt will be required. Newfield requests approval that a flare pit be constructed and 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:**

Newfield Production Company requests 1110' of disturbed area be granted in Lease UTU-74826 and 370' of disturbed area be granted in Lease ML-21835 to allow for construction of the planned access road. **Refer to Topographic Map "B"**. A permanent width of 30' and a running surface of 18' is proposed for the planned access road. The construction phase of the planned access road will last approximately (5) days. The planned access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road

Newfield Production Company requests 1790' of disturbed area be granted in Lease UTU-74826 and 370' of disturbed area be granted in Lease ML-21835 to allow for construction of the proposed surface gas lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a 10" or smaller gas gathering line, and a 3" poly fuel gas line, with a permanent width of 30' upon completion of the proposed gas lines. The construction phase of the proposed gas lines will last approximately (5) days. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."**

Newfield Production Company requests 1110' of disturbed area be granted in Lease UTU-74826 and 370' of disturbed area be granted in Lease ML-21835 to allow for construction of the proposed water lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line, with a permanent width of 30' upon completion of the proposed water return line. The construction phase of the proposed water lines will last approximately (5) days. **Refer to Topographic Map "C."** In the event that the proposed well is converted to a water injection well, a separate injection permit will be applied for through the proper agencies.

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #08-301, 1/26/09. Paleontological Resource Survey prepared by, Wade E. Miller, 3/5/09. See attached report cover pages, Exhibit "D".

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 Greater Monument Butte 14-36-8-15H, 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 Greater Monument Butte 14-36-8-15H. 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 #14-36-8-15H, SE/SW Section 36, T8S, R15E, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Bond #B001834.

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

_____ 1/28/10 _____
Date

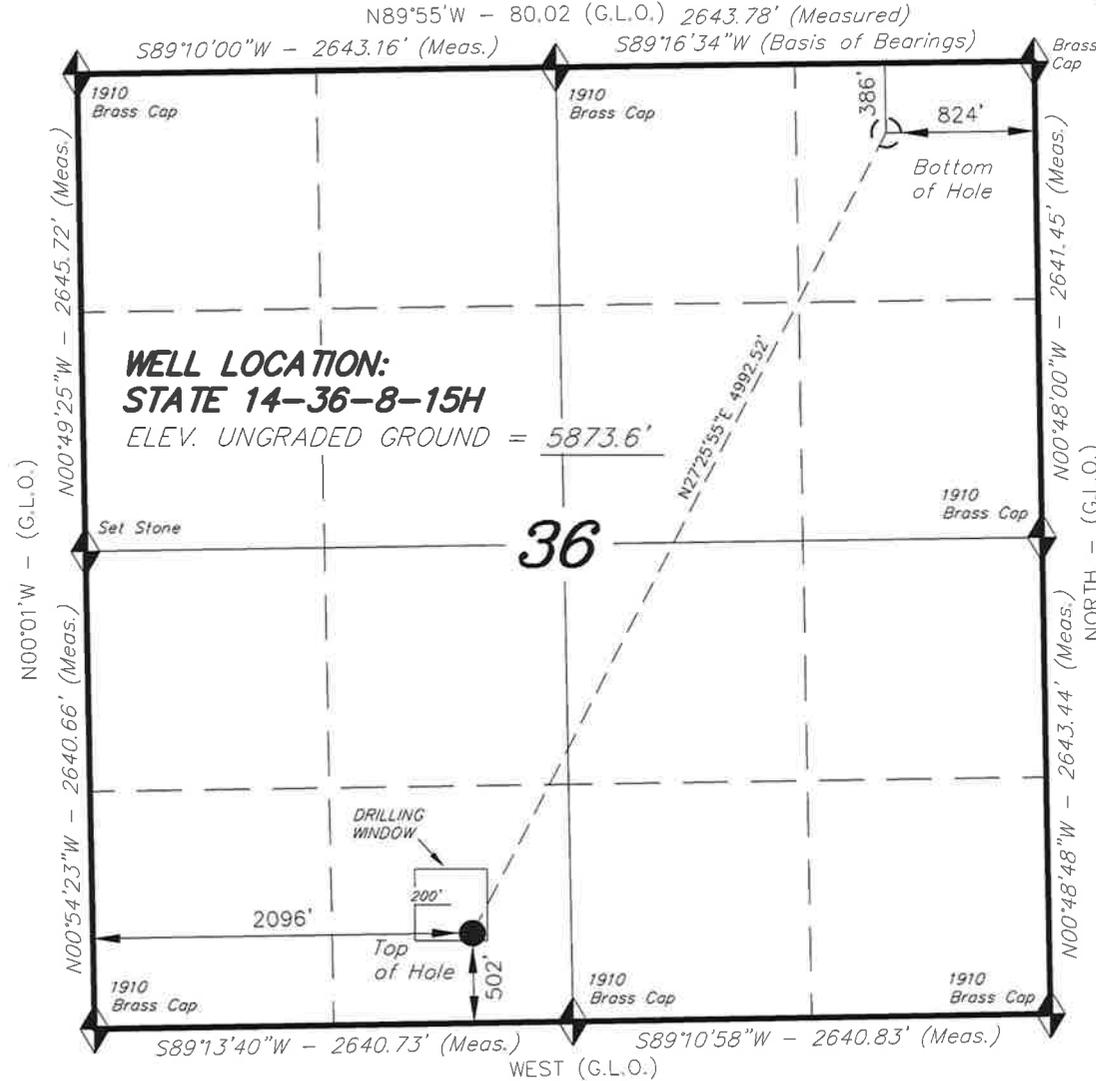


Mandie Crozier
Regulatory Specialist
Newfield Production Company

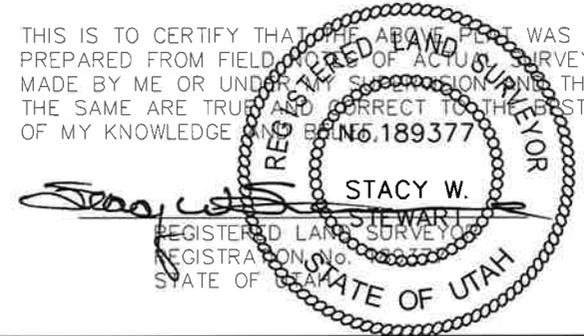
T8S, R15E, S.L.B.&M.

NEWFIELD PRODUCTION COMPANY

WELL LOCATION, STATE 14-36-8-15H,
 LOCATED AS SHOWN IN THE SE 1/4 SW
 1/4 OF SECTION 36, T8S, R15E,
 S.L.B.&M. DUCHESNE COUNTY, UTAH.



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



TRI STATE LAND SURVEYING & CONSULTING

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

DATE SURVEYED: 11-12-09	SURVEYED BY: C.M.
DATE DRAWN: 11-18-09	DRAWN BY: M.W.
REVISED: 11-24-09 F.T.M.	SCALE: 1" = 1000'

◆ = SECTION CORNERS LOCATED

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

STATE 14-36-8-15H
 (Surface Location) NAD 83
 LATITUDE = 40° 04' 06.90"
 LONGITUDE = 110° 10' 56.72"

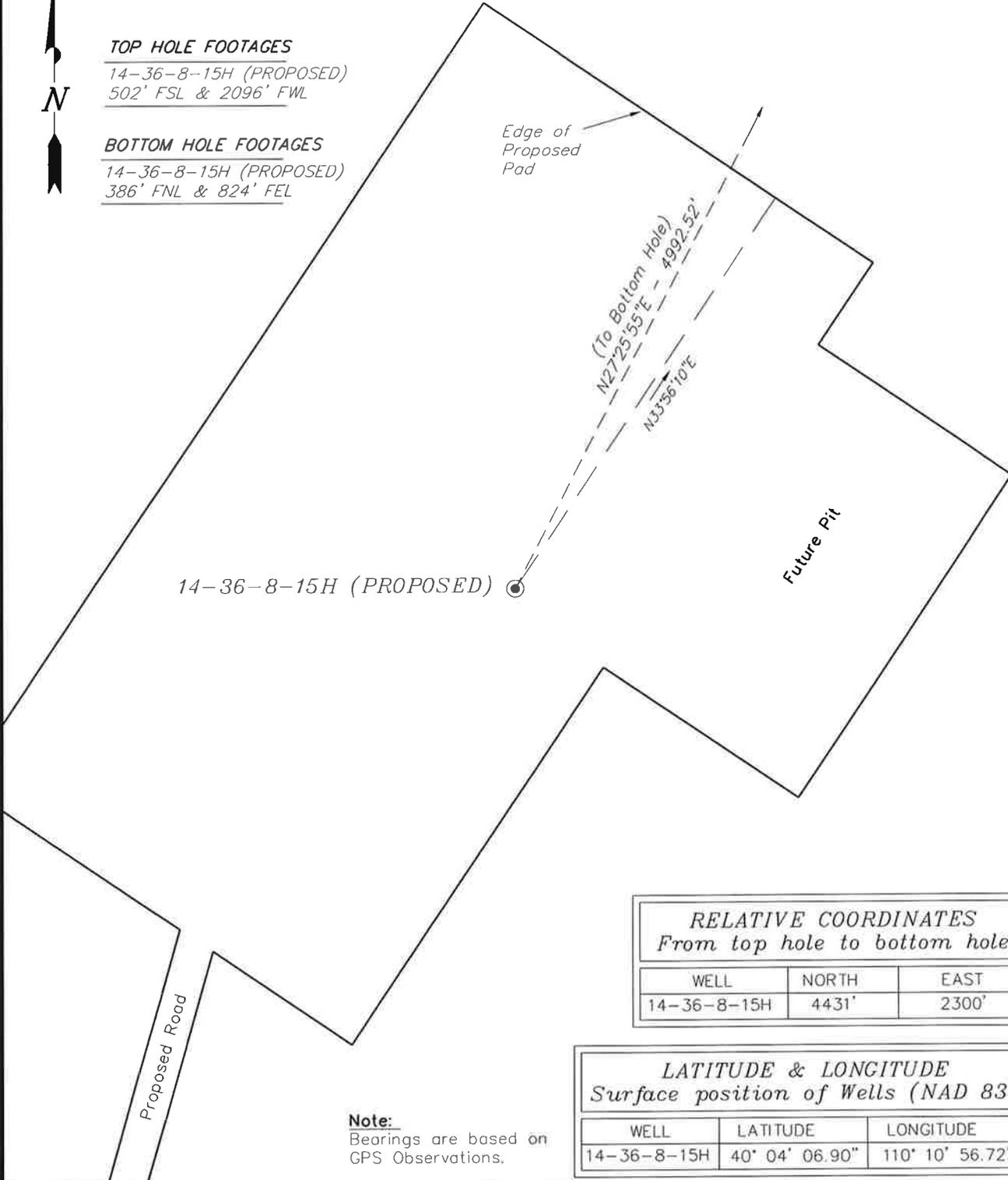
RECEIVED January 29, 2010

NEWFIELD PRODUCTION COMPANY
INTERFERENCE
STATE 14-36-8-15H
 SECTION 36, T8S, R15E, S.L.B.&M.



TOP HOLE FOOTAGES
 14-36-8-15H (PROPOSED)
 502' FSL & 2096' FWL

BOTTOM HOLE FOOTAGES
 14-36-8-15H (PROPOSED)
 386' FNL & 824' FEL



RELATIVE COORDINATES From top hole to bottom hole		
WELL	NORTH	EAST
14-36-8-15H	4431'	2300'

LATITUDE & LONGITUDE Surface position of Wells (NAD 83)		
WELL	LATITUDE	LONGITUDE
14-36-8-15H	40° 04' 06.90"	110° 10' 56.72"

Note:
 Bearings are based on
 GPS Observations.

SURVEYED BY: C.M.	DATE SURVEYED: 11-12-09
DRAWN BY: M.W.	DATE DRAWN: 11-18-09
SCALE: 1" = 60'	REVISED: F.T.M. 11-24-09

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

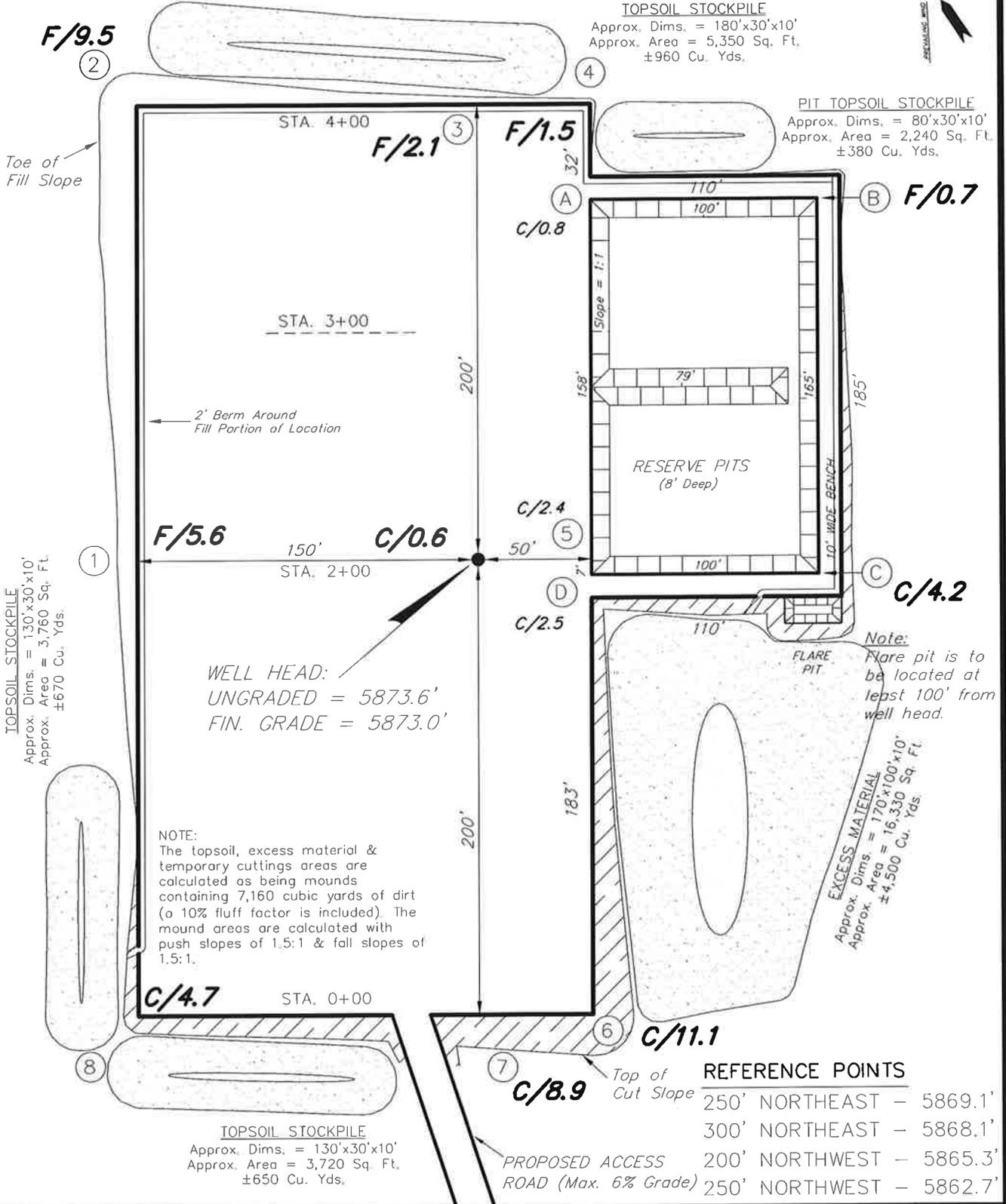
NEWFIELD PRODUCTION COMPANY

STATE 14-36-8-15H
SECTION 36, T8S, R15E, S.L.B.&M.



TOPSOIL STOCKPILE
Approx. Dims. = 180'x30'x10'
Approx. Area = 5,350 Sq. Ft.
±960 Cu. Yds.

PIT TOPSOIL STOCKPILE
Approx. Dims. = 80'x30'x10'
Approx. Area = 2,240 Sq. Ft.
±380 Cu. Yds.



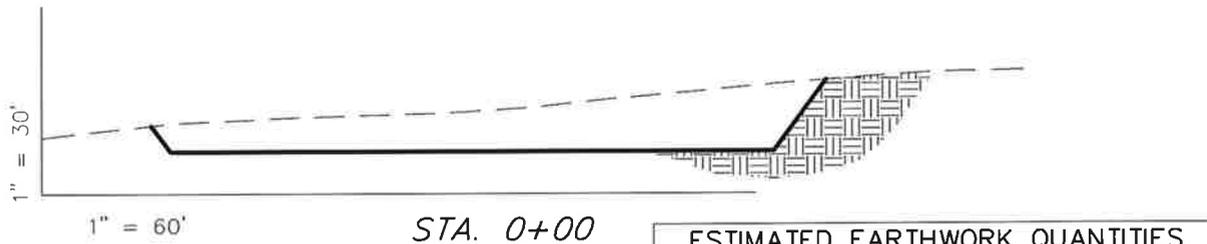
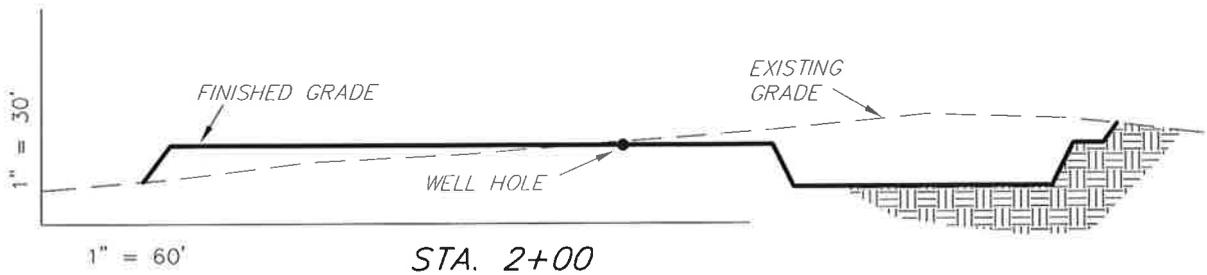
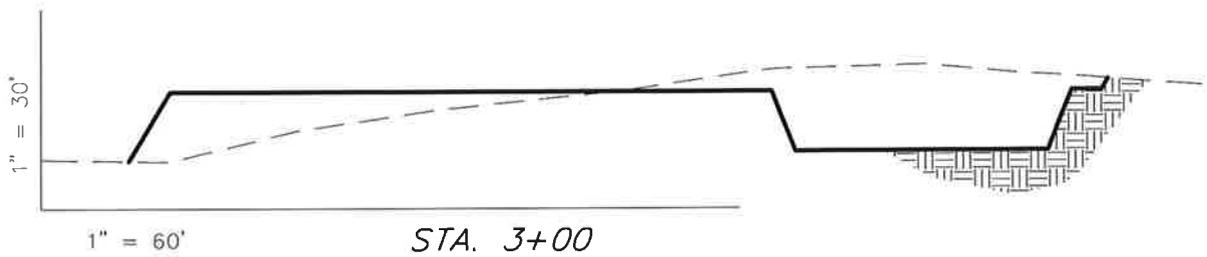
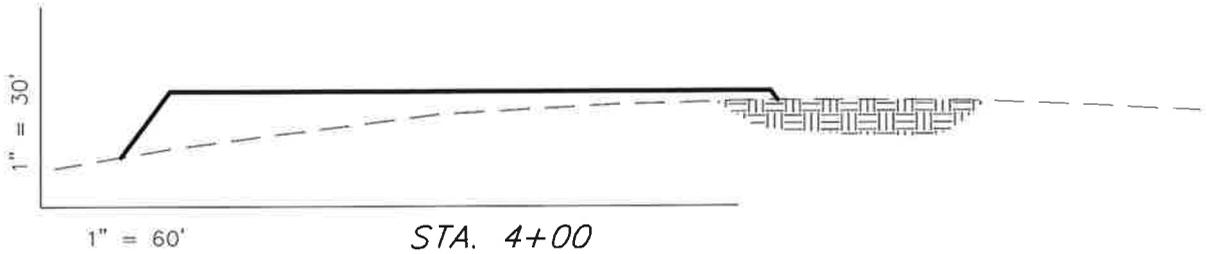
REFERENCE POINTS	
250' NORTHEAST	5869.1'
300' NORTHEAST	5868.1'
200' NORTHWEST	5865.3'
250' NORTHWEST	5862.7'

SURVEYED BY: C.M.	DATE SURVEYED: 11-12-09
DRAWN BY: M.W.	DATE DRAWN: 11-18-09
SCALE: 1" = 60'	REVISED: F.T.M. 11-24-09

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

NEWFIELD PRODUCTION COMPANY
CROSS SECTIONS
STATE 14-36-8-15H



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

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	0	0	Topsoil is not included in Pad Cut	0
PIT	4,100	0		4,100
TOTALS	0	0	890	4,100

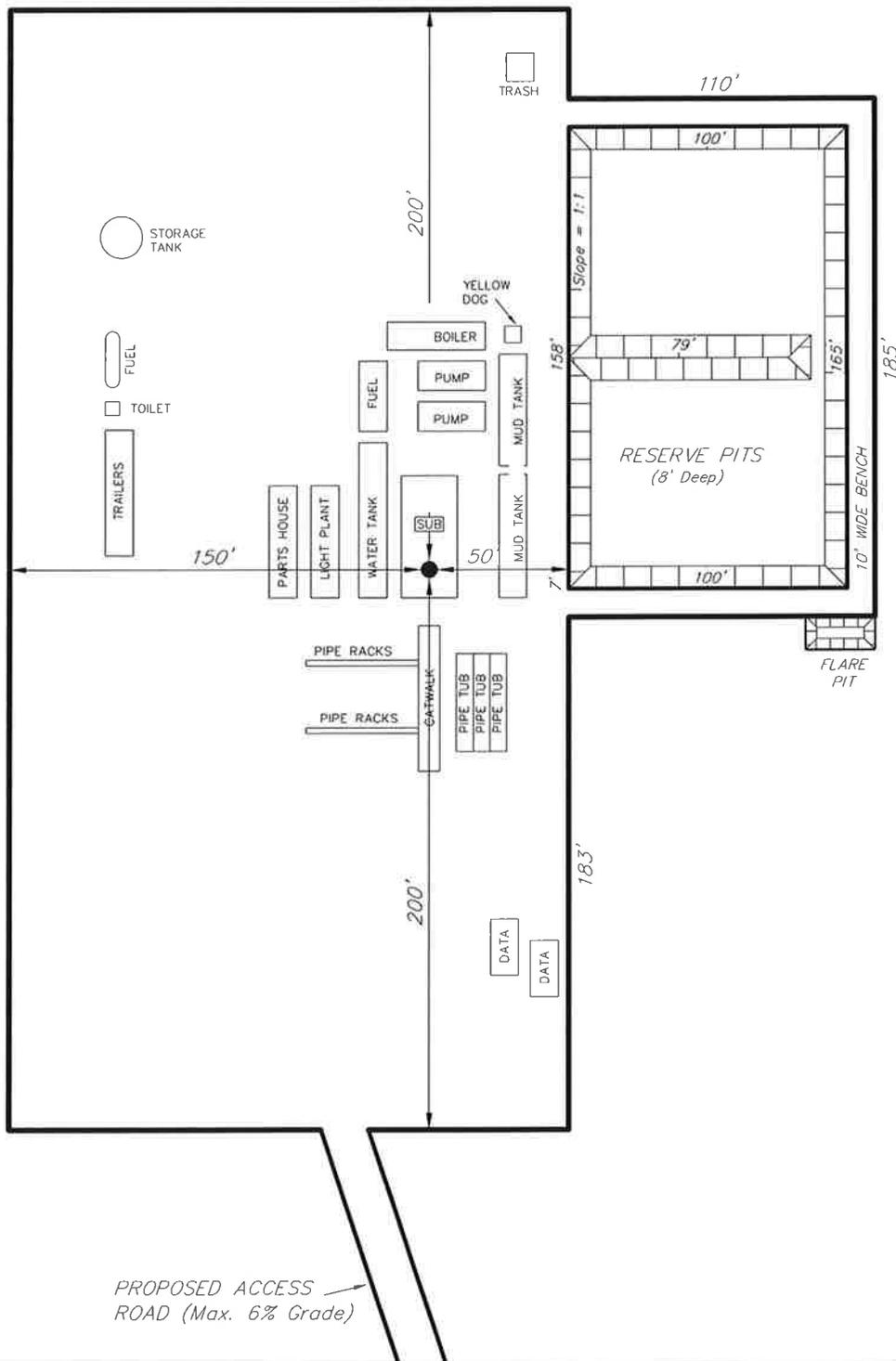
NOTE:
 UNLESS OTHERWISE NOTED
 CUT SLOPES ARE AT 1:1
 FILL SLOPES ARE AT 1.5:1

SURVEYED BY: C.M.	DATE SURVEYED: 11-12-09
DRAWN BY: M.W.	DATE DRAWN: 11-18-09
SCALE: 1" = 60'	REVISED: F.T.M. 11-24-09

Tri State
 Land Surveying, Inc. (435) 781-2501
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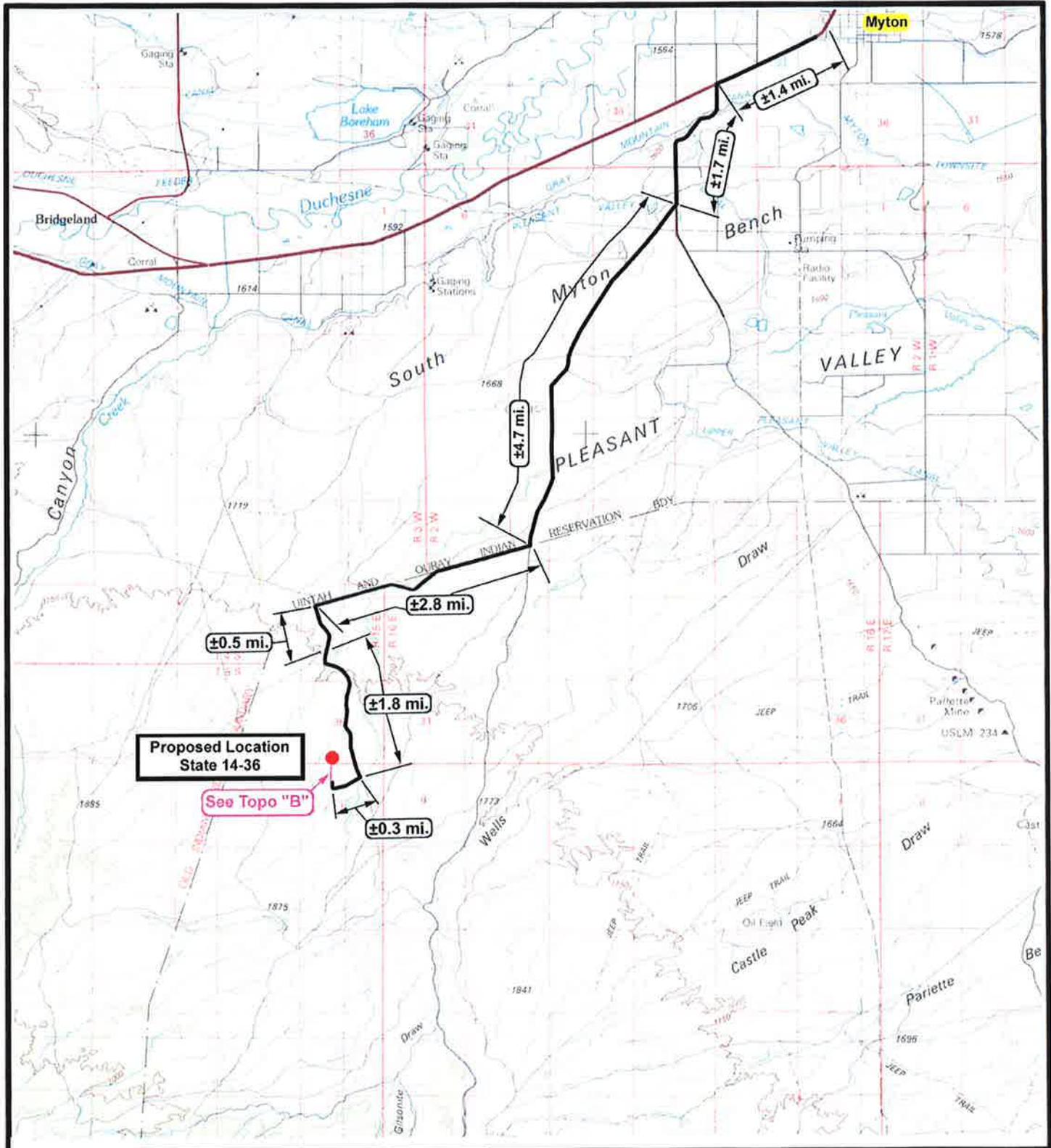
NEWFIELD PRODUCTION COMPANY

TYPICAL RIG LAYOUT STATE 14-36-8-15H



SURVEYED BY: C.M.	DATE SURVEYED: 11-12-09
DRAWN BY: M.W.	DATE DRAWN: 11-18-09
SCALE: 1" = 60'	REVISED: F.T.M. 11-24-09

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NEWFIELD
 Exploration Company

State 14-36-8-15H
SEC. 36, T8S, R15E, S.L.B.&M.



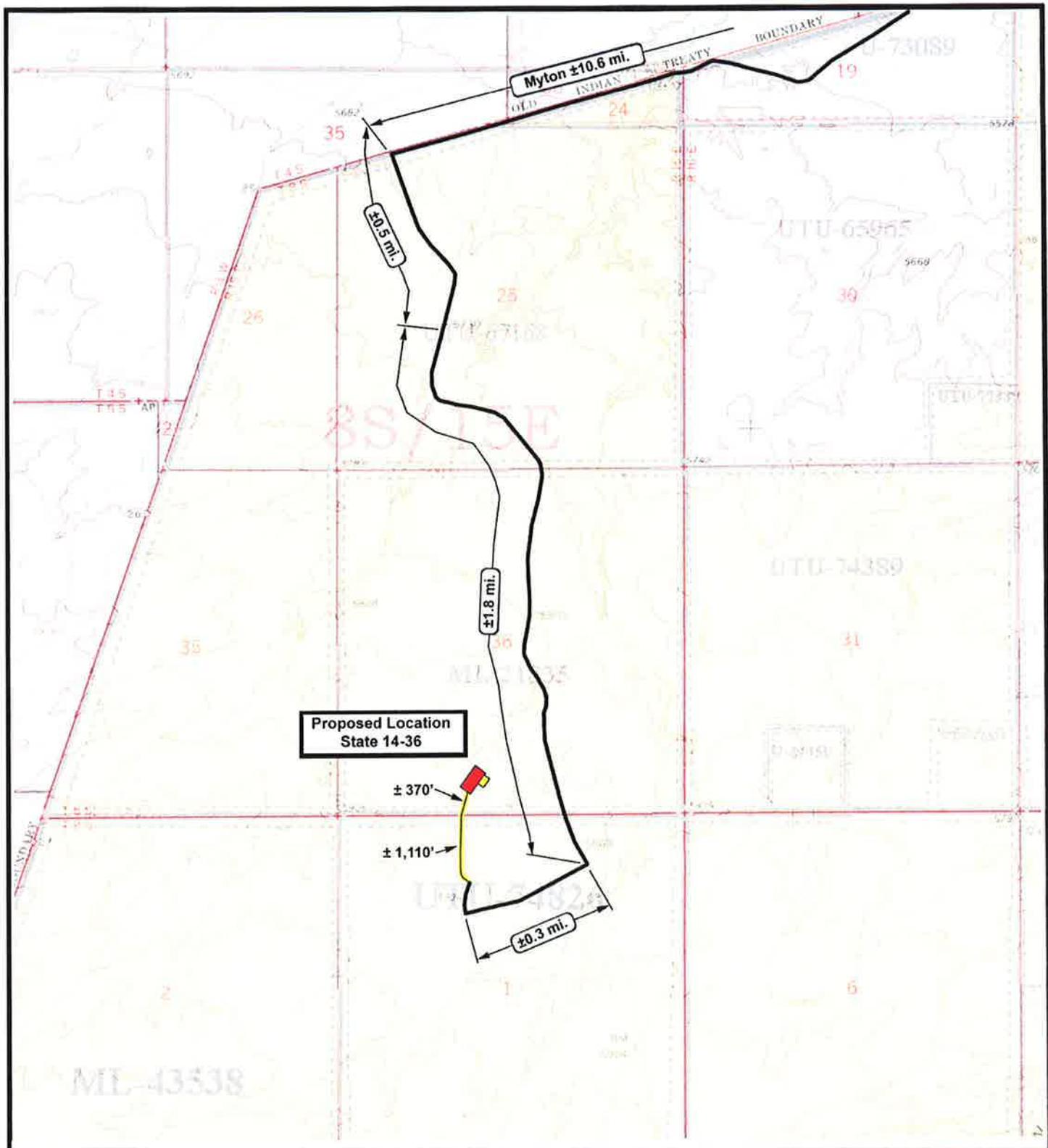

Tri-State
 Land Surveying Inc.
 (435) 781-2501
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000
DRAWN BY: mw
DATE: 11-20-2009

Legend

-  Existing Road
-  Proposed Access

TOPOGRAPHIC MAP
"A"



NEWFIELD
Exploration Company

State 14-36-8-15H
SEC. 36, T8S, R15E, S.L.B.&M.



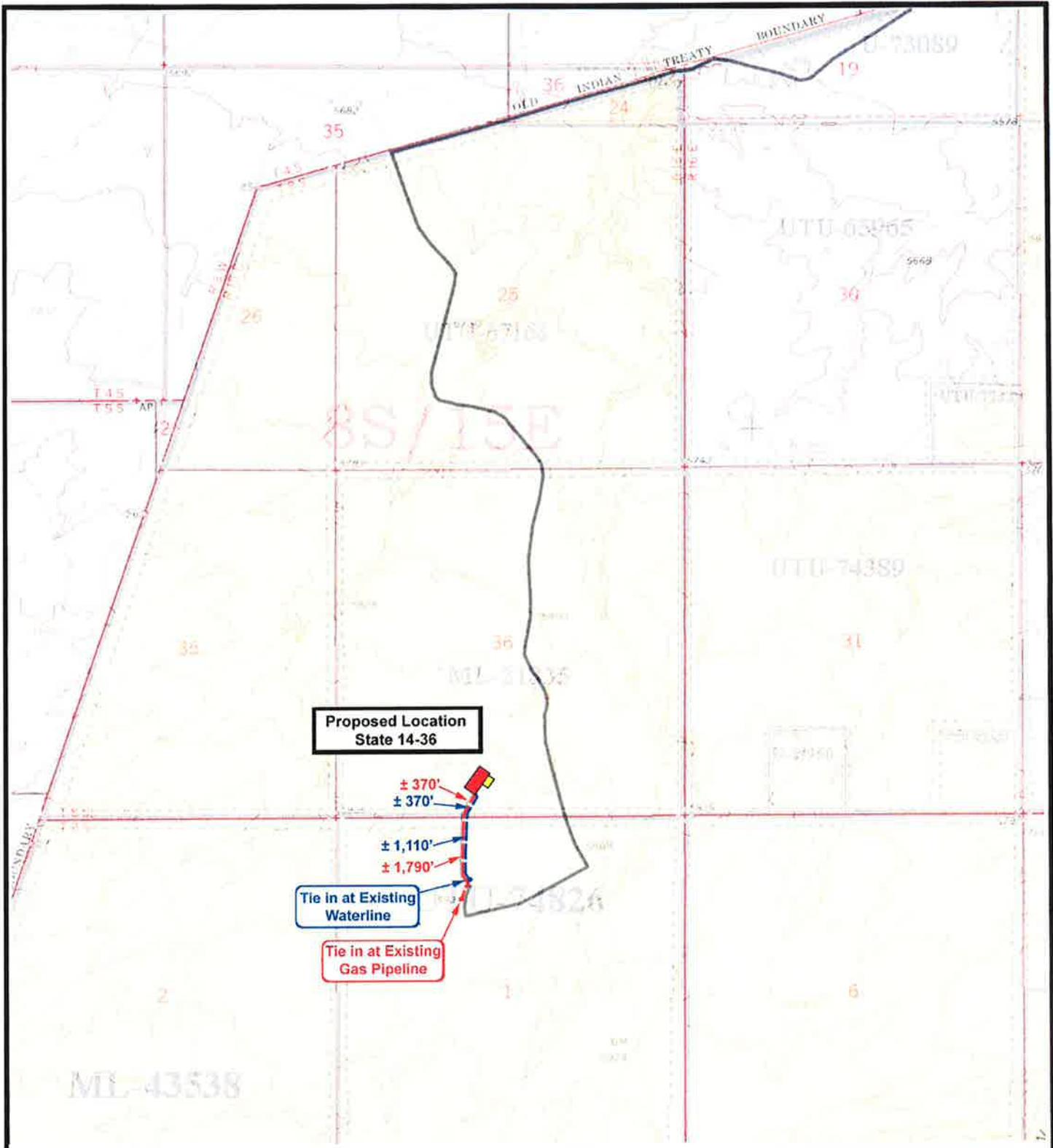
Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'
DRAWN BY: mw
DATE: 11-20-2009

Legend

- Existing Road
- Proposed Access

TOPOGRAPHIC MAP
"B"



**Proposed Location
State 14-36**

± 370'
± 370'
± 1,110'
± 1,790'

**Tie in at Existing
Waterline**

**Tie in at Existing
Gas Pipeline**

NEWFIELD
Exploration Company

**State 14-36-8-15H
SEC. 36, T8S, R15E, S.L.B.&M.**



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Land Surveying Inc.*
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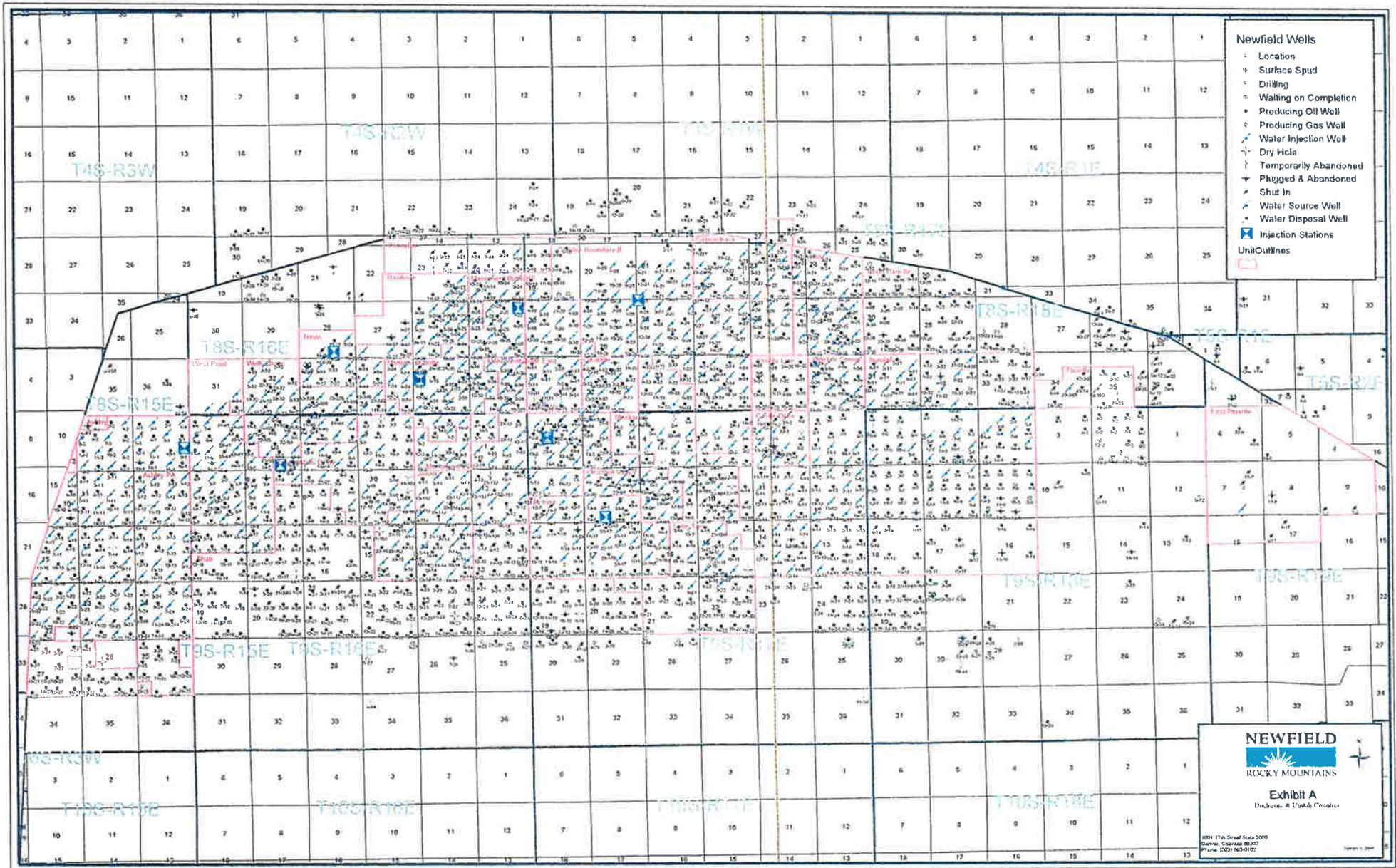
SCALE: 1" = 2,000'
DRAWN BY: mw
DATE: 11-20-2009

Legend

- Roads
- Proposed Gas Line
- Proposed Water Line

TOPOGRAPHIC MAP
"C"

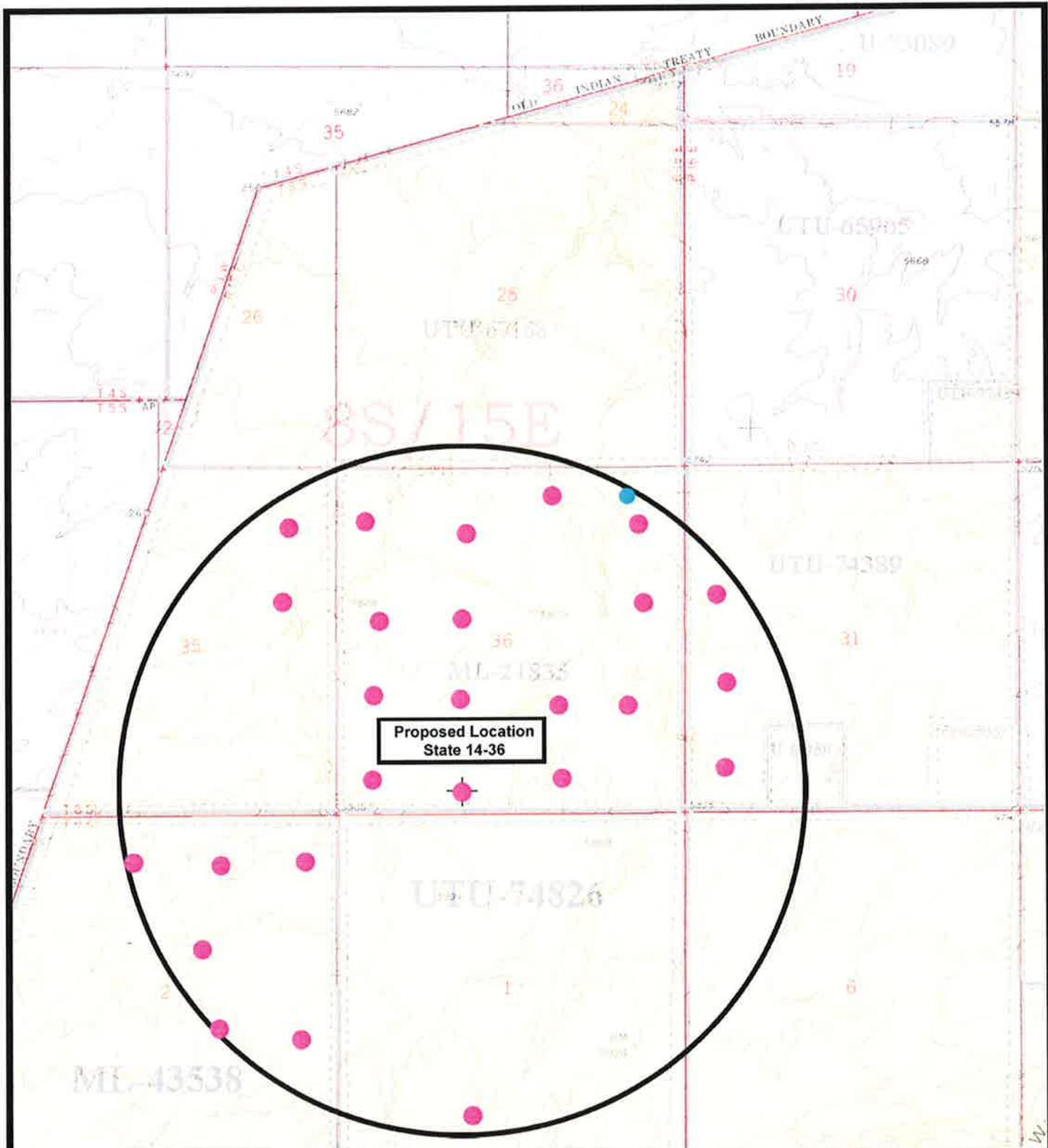
RECEIVED January 29, 2010



NEWFIELD
ROCKY MOUNTAINS

Exhibit A
Duckens & Childs Contour

1001 The Great State 2000
Denver, Colorado 80202
Phone: (303) 934-9100



 **NEWFIELD**
Exploration Company

State 14-36-8-15H
SEC. 36, T8S, R15E, 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: mw
DATE: 11-20-2009

Legend

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

Exhibit "B"

CULTURAL RESOURCE INVENTORY OF
NEWFIELD EXPLORATION'S FOUR BLOCK PARCELS
(T8S, R15E, SECTIONS 25, 26, 35, AND 36)
DUCHESNE COUNTY, UTAH

By:

Nicole Shelnut

Prepared For:

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

Prepared Under Contract With:

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

Prepared By:

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

MOAC Report No. 08-301

January 26, 2009

United States Department of Interior (FLPMA)
Permit No. 08-UT-60122

State of Utah Antiquities Project (Survey)
Permit No. U-08-MQ-1227b,s

NEWFIELD EXPLORATION COMPANY**PALEONTOLOGICAL SURVEY OF PROPOSED
PRODUCTION DEVELOPMENT AREAS,
DUCHESNE & Uintah COUNTIES, UTAH
(Includes Water Pipeline Surveys)**

Section 36 [Entire Section, excluding SW 1/4, NE 1/4 & SE 1/4, SE 1/4 (7 & 16-36-8-15)];
Section 25 [Entire Section]; Section 26 [SE 1/4, NE 1/4, & SE 1/4 (8, 9, 10, 15 & 16-26-8-15)];
Section 35 [NE 1/4, SE 1/4 & SW 1/4, NE 1/4 (1, 7 & 8-35-8-15), SE 1/4, NW 1/4 (6-35-8-15),
NE 1/4 & SE 1/4, SW 1/4 (11 & 14-35-8-15), & SE 1/4 (9, 10, 15 & 16-35-8-15)]. NE 1/4 & SE
1/4, Section 32, T 8 S, R 17 E (11 & 14-32-8-17); NE 1/4, SE 1/4, Section 6, T 9 S, R 19 E (43-
6-9-19); NE 1/4, SE 1/4, Section 7, T 9 S, R 17 E (43-7-9-17); SE 1/4, SE 1/4, Section 4, T 9 S,
R 16 E (16-4-9-16)

REPORT OF SURVEY

Prepared for:

Newfield Exploration Company

Prepared by:

Wade E. Miller
Consulting Paleontologist
March 5, 2009

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: ML-21835	

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: GMB 14-36-8-15H
------------------------------------	--

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013342220000
--	---

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: 0502 FSL 2096 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 36 Township: 08.0S Range: 15.0E Meridian: S	COUNTY: DUCHESNE
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: 4/27/2010 <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 proposes to extend the permit to drill this well for one year.

Approved by the Utah Division of Oil, Gas and Mining

Date: April 21, 2010

By:

NAME (PLEASE PRINT) Mandie Crozier	PHONE NUMBER 435 646-4825	TITLE Regulatory Tech
SIGNATURE N/A	DATE 4/21/2010	



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 43013342220000

API: 43013342220000

Well Name: GMB 14-36-8-15H

Location: 0502 FSL 2096 FWL QTR SESW SEC 36 TWNP 080S RNG 150E MER S

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 4/27/2009

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: 4/21/2010

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

Date: April 21, 2010

By:

CONFIDENTIAL

Spud

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross Rig # 21
Submitted By Ryan Crum Phone Number 823-7065
Well Name/Number State ^{gms} 14-36-8-15H
Qtr/Qtr SE/SW Section 36 Township 8s Range 15e
Lease Serial Number ML-21835
API Number 43-013342220000

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

Date/Time 6/8/10 8:00 AM PM

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

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

Date/Time 6/8/10 2:00 AM PM

BOPE

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

Date/Time _____ AM PM

Remarks _____

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

CONFIDENTIAL

LEASE DESIGNATION AND SERIAL NUMBER:
UTAH STATE ML-21835
IF INDIAN, ALLOTTEE OR TRIBE 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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT or CA AGREEMENT NAME: GMBU
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		8. WELL NAME and NUMBER: STATE 14-36-8-15
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052	PHONE NUMBER 435.646.3721	9. API NUMBER: 4301334222
4. LOCATION OF WELL: FOOTAGES AT SURFACE:		10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SESW, 36, T8S, R15E		COUNTY: DUCHESNE 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: 06/13/2010	<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: - Spud Notice
	<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.
On 6/8/2010 MIRU Ross # 21. Spud well @ 9:00 AM. Drill 310' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 314'/KB. On 6/12/2010 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 4 bbls cement to pit. WOC.

NAME (PLEASE PRINT) Justin Crum TITLE Drilling Foreman
SIGNATURE *Justin Crum* DATE 06/14/2010

(This space for State use only)

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JUN 22 2010
DIV. OF OIL, GAS & MINING

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				SPUD DATE	EFFECTIVE DATE	
					QQ	SC	TP	RG			COUNTY
B	99999	17400	4301334222	GREATER MONUMENT BUTTE 14-36-8-15H	SESW	36	8S	15E	DUCHESNE	6/8/2010	7/28/10
WELL 1 COMMENTS: <i>GRRV</i> <i>3HL=NENE</i> CONFIDENTIAL											
O	99999	17584	4301350067	UTE TRIBAL 3-19-4-1	NENW	19	4S	1W	DUCHESNE	4/28/2010	7/28/10
CHANGE FROMATION F/ <u>GRRV</u> TO <u>GR-WS</u>											
O	99999	17583	4301350068	UTE TRIBAL 6-19-4-1	SENW	19	4S	1W	DUCHESNE	4/28/2010	7/28/10
CHANGE FORMATION F/ <u>GRRV</u> TO <u>GR-WS</u>											
O	99999	17594	4301350206	HANCOCK 6-21-4-1	SESE	21	4S	1W	DUCHESNE	4/28/2010	7/28/10
CHANGE FORMATION F/ <u>GRRV</u> TO <u>GR-WS</u>											
WELL 5 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - 1 new entity for new well (single well only)
- B - well to existing entity (group or unit well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - ther (explain in comments section)

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 JUL 28 2010

Jentri Park
 Signature
 Production Clerk

Jentri Park

07/28/10
 Date

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML-21835
---	---

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: GMB 14-36-8-15H
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013342220000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0502 FSL 2096 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 36 Township: 08.0S Range: 15.0E Meridian: S	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE COUNTY: DUCHESNE STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/31/2010	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Change to downhole de"/>

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

Upon dilling the above mentioned well, a few changes were made to the original downhole design. See attachments.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 August 18, 2010

NAME (PLEASE PRINT) Mandie Crozier	PHONE NUMBER 435 646-4825	TITLE Regulatory Tech
SIGNATURE N/A	DATE 8/17/2010	

NEWFIELD



ROCKY MOUNTAINS

Greater Monument Butte 14-36-8-15H

SE/SW Section 36, T8S, R15E

Duchesne County, UT

Sundry for change of operations (see attached diagram):

- Instead of cemented casing in the horizontal lateral of this well, an open hole packer system was installed. This packer system accomplished the following goals...
 - o Isolation between 11 frac stages
 - o Isolation of the last frac stage from the curve
 - o Isolation above the curve so that cement could be placed in the vertical portion of the well bore.
- The packer system is hydraulically activated. There are no swell packers in this system.
- A mechanical port cementing collar was installed in the production casing. This allowed cement to be placed in the vertical portion of the well and circulated to surface.
- Ball activated sleeves were used to access each of the 11 frac stages during completion operations.
- The original permit described 5-1/2", 15.5#, J-55, LTC production casing to be used. A stronger casing string was installed. A string of 5-1/2", 17#, N-80, LTC casing was run in the vertical and curve sections of the well. A crossover was installed and 4-1/2", 11.6#, N-80, LTC casing was run in the lateral with the open hole packer system.

NEWFIELD

Greater Monument Butte 14-36-J-15H

SE/SW Section 36, T8S, R15E

Duchesne County, UT

ROCKY MOUNTAINS

8-5/8" surface casing @ 314'

5-1/2", 17#, N-80, LTC production casing,
cemented to surface

Mechanically activated port cementing collar
Isolation packers for cement job

5-1/2" x 4-1/2" crossover

Hydraulically set open hole packer system with ball shifted sliding sleeves

TD: 11,049' MD

Stage 11 Stage 10 Stage 9 Stage 8 Stage 7 Stage 6 Stage 5 Stage 4 Stage 3 Stage 2 Stage 1
4-1-2", 11.6#, N-80, LTC casing in lateral

RECEIVED August 17, 2010

CONFIDENTIAL

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. Reserv.,
 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 502' FSL & 2096' FWL (SE/SW) SEC. 36, T8S, R15E (ML-21835)

At top prod. interval reported below 1174' FSL & 2437' FWL (SE/SW) SEC. 36, T8S, R15E (ML-21835)

At total depth ^{503' FSL & 749' FEL} 498' FNL & 742' FEL (NE/NE) SEC. 36, T8S, R15E (ML-21835)

14. Date Spudded
06/08/2010

15. Date T.D. Reached
07/07/2010

16. Date Completed 07/31/2010
 D & A Ready to Prod.

9. AFI Well No.
43-013-34222

10. Field and Pool or Exploratory
GREATER MB UNIT

11. Sec., T., R., M., on Block and
Survey or Area SEC. 36, T8S, R15E

12. County or Parish
DUCHESNE

13. State
UT

17. Elevations (DF, RKB, RT, GL)*
5874' GL 5886' KB

18. Total Depth: MD 11049'
TVD 6418'

19. Plug Back T.D.: MD 11003'
TVD 6418'

20. Depth Bridge Plug Set: MD
TVD

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	314'		160 CLASS G	34	00'	
7-7/8"	5-1/2" N-80	17#	0	6576'	5577'	300 PRIMLITE	189 (lead)	00'	
						300 50/50 POZ	66 (tail)	3959'	
6-1/8"	4-1/2" N-80	11.6#	6576'	11015'					

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@ 6301'	TA @ 6118'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River			10929'	16.9 sq in		Sliding Sleeve
B) Green River			10540'	16.9 sq in		Sliding Sleeve
C) Green River			10109'	16.9 sq in		Sliding Sleeve
D) Green River			9719'	16.9 sq in		Sliding Sleeve

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

Depth Interval	Amount and Type of Material
10812-11003'	Frac w/ 45687#'s 30/50 sand in 1714 bbls of slick water.
10307-10738'	Frac w/ 64397#'s 30/50 sand in 2250 bbls of slick water.
9914-10302'	Frac w/ 66519#'s 30/50 sand in 2062 bbls of slick water.
9526-9914'	Frac w/ 66715#'s 30/50 sand in 2012 bbls of slick water.

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
7-23-10	7-31-10	24	→	58	12	248			2-1/2" x 1-3/4" x 16' x 20' RTBC Macgyver pump w/ 20' SM plunger
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	

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NOV 08 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.)
 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	3818' 4045'
				GARDEN GULCH 2 POINT 3	4158' 4426'
				X MRKR Y MRKR	4697' 4733'
				DOUGALS CREEK MRK BI CARBONATE MRK	4846' 5092'
				B LIMESTON MRK CASTLE PEAK	5210' 5732'
				BASAL CARBONATE	6276'

32. Additional remarks (include plugging procedure):
 All Stages - Green River Formation

- Stage 5: Perf Interval 9324', Frac Interval 9134-9520', 16.9 sq in, Sliding Sleeve, Frac w/ 660148#'s of 30/50 sand in 1962 bbls of slick water.
- Stage 6: Perf Interval 8891', Frac Interval 8698-9129', 16.9 sq in, Sliding Sleeve, Frac w/ 65741#'s of 30/50 sand in 1972 bbls of slick water.
- Stage 7: Perf Interval 8498', Frac Interval 8309-8693', 16.9 sq in, Sliding Sleeve, Frac w/ 54926#'s of 30/50 sand in 1593 bbls of slick water.
- Stage 8: Perf Interval 8110', Frac Interval 7882-8304', 16.9 sq in, Sliding Sleeve, Frac w/ 63473#'s of 30/50 sand in 1775 bbls of slick water.
- Stage 9: Perf Interval 7682', Frac Interval 7493-7877', 16.9 sq in, Sliding Sleeve, Frac w/ 71540#'s of 30/50 sand in 1933 bbls of slick water.
- Stage 10: Perf Interval 7293', Frac Interval 7061-7487', 16.9 sq in, Sliding Sleeve, Frac w/ 75282#'s of 30/50 sand in 1944 bbls of slick water.
- Stage 11: Perf Interval 6864', Frac Interval 6674-7055', 16.9 sq in, Sliding Sleeve, Frac w/ 89396#'s of 30/50 sand in 2412 bbls of slick water.

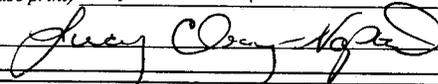
33. Indicate which items have been attached by placing a check in the appropriate boxes:

- 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

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

DIV. OF OIL, GAS & MINING

Name (please print) Lucy Chavez-Naupoto Title Administrative Assistant
 Signature  Date 10/26/2010

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.



Company: NEWFIELD EXPLORATION CO.
 Project: DUCHESNE COUNTY, UT
 Site: GMB 14-36-8-15H
 Well: GMB 14-36-8-15H
 Wellbore: GMB 14-36-8-15H
 Design: GMB 14-36-8-15H
 Lat: 40° 4' 6.900 N
 Long: 110° 10' 56.720 W
 GL: 5874.00
 KB: WELL @ 5886.00ft (CAPSTAR 529)



SECTION DETAILS									
MD	Inc	Azi	TVD	+N-S	+E-W	DLeg	TFace	VSec	Annotation
5641.01	0.44	198.00	5640.01	-75.07	-53.28	0.00	0.00	-91.17	TIE ON TO EXTREME SVY
5708.20	0.44	198.00	5707.20	-75.56	-53.44	0.00	0.00	-91.68	Start DLS 12.00 TFO 189.48
6045.15	40.00	27.67	6017.72	23.34	-1.55	12.00	189.48	20.01	Start 100.00 hold at 6045.15 MD
6145.15	40.00	27.67	6094.33	80.32	28.20	0.00	0.00	84.29	Start Build 12.22
6539.58	88.20	27.67	6261.58	385.65	187.62	12.22	0.00	428.73	Start 4666.09 hold at 6539.58 MD
11105.67	88.20	27.67	6405.00	4431.26	2299.88	0.00	0.00	4992.55	TD at 11105.67

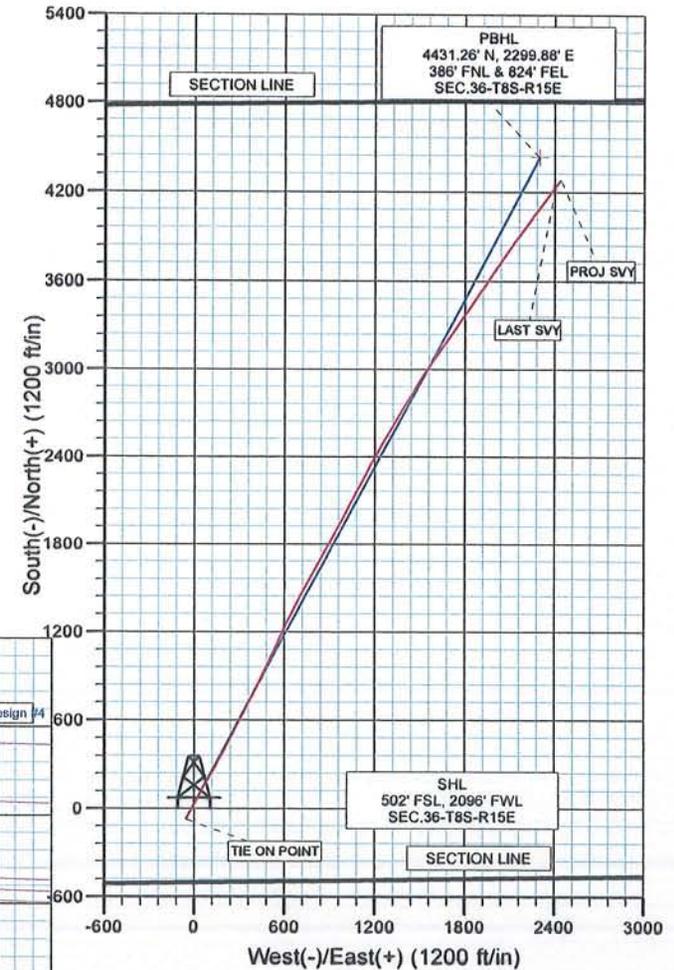
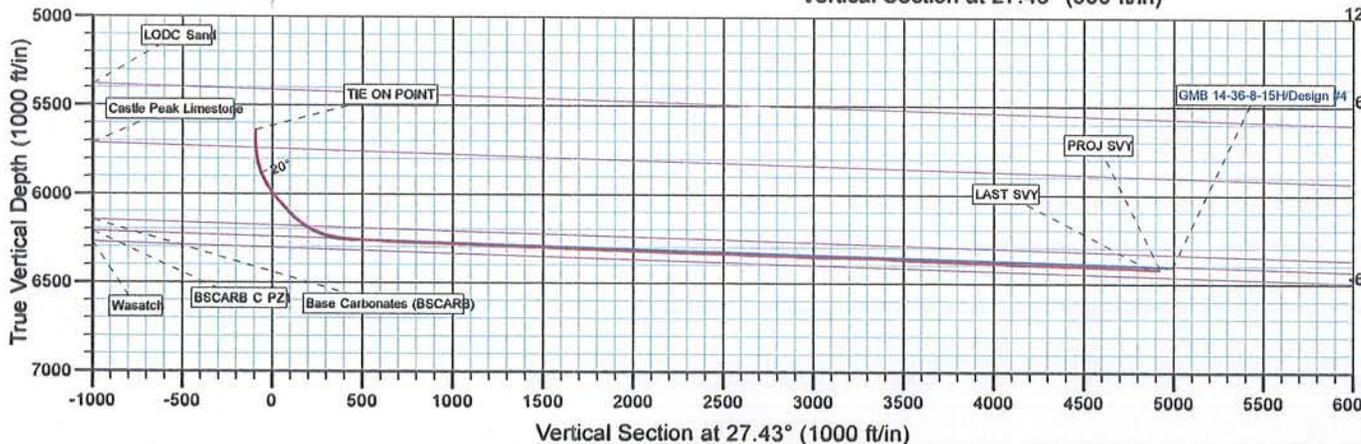
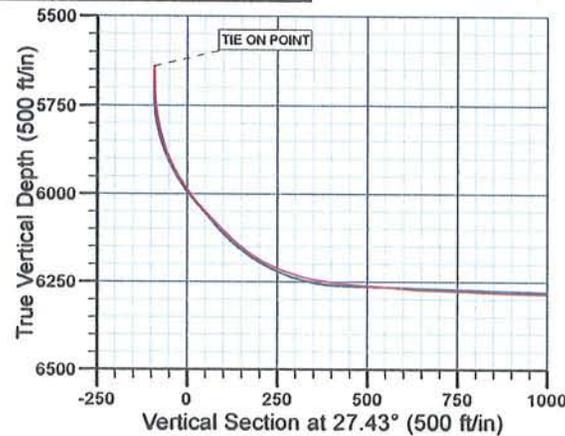
WELL DETAILS: GMB 14-36-8-15H							
+N-S	+E-W	Northing	Ground Level: Easting	5874.00	Latitude	Longitude	Slot
0.00	0.00	7196421.21	2009136.07		40° 4' 6.900 N	110° 10' 56.720 W	

WELLBORE TARGET DETAILS (LAT/LONG)							
Name	TVD	+N-S	+E-W	Latitude	Longitude	Shape	Point
PBHL GMB 14-36-8-15H	6405.00	4431.26	2299.89	40° 4' 60.694 N	110° 10' 27.130 W		

Azimuths to True North
 Magnetic North: 11.53°
 Magnetic Field
 Strength: 52342.8snT
 Dip Angle: 65.83°
 Date: 6/15/2010
 Model: BGGM2010

CASING DETAILS			
TVD	MD	Name	Size
300.00	300.00	8-5/8	8-5/8
6261.58	6539.58	5 1/2"	5-1/2

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Survey: Survey #1 (GMB 14-36-8-15H/GMB 14-36-8-15H)
 Created By: TRACY WILLIAMS Date: 8:29, July 01 2010



Weatherford International Ltd.
Survey Report



Company: NEWFIELD EXPLORATION CO.
Project: DUCHESNE COUNTY, UT
Site: GMB 14-36-8-15H
Well: GMB 14-36-8-15H
Wellbore: GMB 14-36-8-15H
Design: GMB 14-36-8-15H

Local Co-ordinate Reference: Well GMB 14-36-8-15H
TVD Reference: WELL @ 5886.00ft (CAPSTAR 529)
MD Reference: WELL @ 5886.00ft (CAPSTAR 529)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Project	DUCHESNE COUNTY, UT		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	GMB 14-36-8-15H		
Site Position:		Northing:	7,196,421.21 ft
From:	Lat/Long	Easting:	2,009,136.07 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	40° 4' 6.900 N
		Longitude:	110° 10' 56.720 W
		Grid Convergence:	0.84 °

Well	GMB 14-36-8-15H		
Well Position	+N-S	0.00 ft	Northing: 7,196,421.21 ft
	+E-W	0.00 ft	Easting: 2,009,136.07 ft
Position Uncertainty	0.00 ft		Wellhead Elevation: ft
			Latitude: 40° 4' 6.900 N
			Longitude: 110° 10' 56.720 W
			Ground Level: 5,874.00 ft

Wellbore	GMB 14-36-8-15H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	6/15/2010	11.53	65.83	52,343

Design	GMB 14-36-8-15H				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N-S (ft)	+E-W (ft)	Direction (°)	
	0.00	0.00	0.00	27.43	

Survey Program	Date 7/1/2010				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
5,704.00	11,045.00	Survey #1 (GMB 14-36-8-15H)	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)
TIE ON POINT									
5,641.01	0.44	198.00	5,640.01	-75.07	-53.28	-91.17	0.00	0.00	0.00
5,704.00	2.13	43.53	5,702.99	-74.45	-52.55	-90.29	4.02	2.68	-245.23
Castle Peak Limestone									
5,743.35	5.64	37.42	5,742.24	-72.38	-50.87	-87.68	8.98	8.93	-15.52
5,749.00	6.15	37.12	5,747.86	-71.92	-50.52	-87.11	8.98	8.96	-5.38
5,795.00	10.94	30.91	5,793.34	-66.21	-46.79	-80.32	10.59	10.41	-13.50
5,825.00	13.94	27.91	5,822.63	-60.57	-43.63	-73.86	10.23	10.00	-10.00
5,857.00	17.00	27.16	5,853.47	-53.00	-39.69	-65.33	9.58	9.56	-2.34
5,887.00	20.50	27.41	5,881.87	-44.43	-35.27	-55.69	11.67	11.67	0.83
5,917.00	24.54	26.95	5,909.58	-34.21	-30.02	-44.20	13.48	13.47	-1.53
5,947.00	28.56	27.03	5,936.41	-22.27	-23.94	-30.79	13.40	13.40	0.27
5,975.00	31.06	28.03	5,960.70	-9.93	-17.50	-16.87	9.10	8.93	3.57

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Company: NEWFIELD EXPLORATION CO.
Project: DUCHESNE COUNTY, UT
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TVD Reference: WELL @ 5886.00ft (CAPSTAR 529)
MD Reference: WELL @ 5886.00ft (CAPSTAR 529)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,006.00	33.94	28.78	5,986.84	4.72	-9.58	-0.22	9.38	9.29	2.42
6,036.00	37.56	28.91	6,011.19	20.07	-1.12	17.30	12.07	12.07	0.43
6,066.00	41.12	28.01	6,034.39	36.79	7.94	36.31	12.02	11.87	-3.00
6,096.00	42.88	27.66	6,056.68	54.54	17.31	56.38	5.92	5.87	-1.17
6,127.00	43.06	27.91	6,079.36	73.23	27.16	77.51	0.80	0.58	0.81
6,157.00	42.94	27.78	6,101.30	91.33	36.71	97.97	0.50	-0.40	-0.43
6,188.00	45.31	27.41	6,123.55	110.45	46.71	119.55	7.69	7.65	-1.19
6,217.00	48.51	27.87	6,143.36	129.21	56.53	140.73	11.10	11.03	1.59
6,248.00	52.50	28.16	6,163.08	150.32	67.77	164.64	12.89	12.87	0.94
6,278.00	57.06	28.91	6,180.37	171.85	79.48	189.14	15.34	15.20	2.50
Base Carbonates (BSCARB)									
6,289.04	58.76	28.88	6,186.24	180.04	84.00	198.49	15.42	15.42	-0.30
6,323.00	64.00	28.78	6,202.50	206.14	98.37	228.28	15.42	15.42	-0.28
6,356.00	68.19	28.53	6,215.87	232.61	112.83	258.44	12.72	12.70	-0.76
6,386.00	71.00	28.78	6,226.33	257.28	126.31	286.55	9.40	9.37	0.83
6,413.00	74.31	27.92	6,234.37	279.96	138.55	312.31	12.63	12.26	-3.19
6,443.00	77.50	28.16	6,241.68	305.64	152.22	341.40	10.66	10.63	0.80
6,474.00	80.13	27.91	6,247.69	332.48	166.51	371.81	8.52	8.48	-0.81
6,504.00	82.56	27.66	6,252.21	358.72	180.34	401.46	8.14	8.10	-0.83
6,534.00	84.25	27.53	6,255.65	385.13	194.14	431.26	5.65	5.63	-0.43
6,565.00	85.19	27.66	6,258.50	412.48	208.44	462.13	3.06	3.03	0.42
BSCARB C PZ1									
6,565.37	85.20	27.65	6,258.53	412.81	208.61	462.50	2.93	2.15	-2.00
6,585.00	85.62	27.26	6,260.11	430.17	217.63	482.07	2.93	2.15	-2.00
6,615.00	85.92	27.13	6,262.32	456.78	231.31	511.99	1.09	1.00	-0.43
6,645.00	85.68	26.66	6,264.52	483.47	244.84	541.90	1.76	-0.80	-1.57
6,675.00	85.62	26.78	6,266.79	510.19	258.29	571.82	0.45	-0.20	0.40
6,705.00	85.12	26.72	6,269.21	536.89	271.75	601.72	1.68	-1.67	-0.20
6,735.00	85.56	26.90	6,271.65	563.58	285.24	631.61	1.58	1.47	0.60
6,767.00	86.60	27.15	6,273.84	592.01	299.74	663.54	3.34	3.25	0.78
6,797.00	88.77	28.10	6,275.05	618.57	313.64	693.51	7.90	7.23	3.17
6,827.00	87.66	27.13	6,275.98	645.14	327.54	723.50	4.91	-3.70	-3.23
6,857.00	88.34	27.35	6,277.03	671.80	341.26	753.48	2.38	2.27	0.73
6,887.00	88.06	26.87	6,277.97	698.49	354.93	783.46	1.85	-0.93	-1.60
6,917.00	87.90	26.26	6,279.03	725.30	368.34	813.44	2.10	-0.53	-2.03
6,948.00	88.27	26.27	6,280.07	753.09	382.05	844.42	1.19	1.19	0.03
6,978.00	88.77	26.52	6,280.84	779.95	395.38	874.40	1.86	1.67	0.83
7,008.00	88.27	26.02	6,281.62	806.84	408.65	904.38	2.36	-1.67	-1.67
7,039.00	87.66	25.31	6,282.72	834.77	422.07	935.35	3.02	-1.97	-2.29
7,069.00	88.21	25.34	6,283.80	861.87	434.89	965.31	1.84	1.83	0.10
7,099.00	88.21	25.21	6,284.74	888.98	447.70	995.27	0.43	0.00	-0.43
7,129.00	88.40	25.70	6,285.62	916.06	460.59	1,025.24	1.75	0.63	1.63
7,159.00	88.15	24.91	6,286.53	943.16	473.40	1,055.21	2.76	-0.83	-2.63
7,189.00	88.02	24.91	6,287.53	970.36	486.03	1,085.16	0.43	-0.43	0.00
7,220.00	88.58	25.21	6,288.45	998.43	499.16	1,116.12	2.05	1.81	0.97
7,265.00	88.09	24.41	6,289.76	1,039.26	518.03	1,161.06	2.08	-1.09	-1.78
7,311.00	87.84	23.99	6,291.39	1,081.19	536.87	1,206.95	1.06	-0.54	-0.91
7,356.00	86.98	23.43	6,293.42	1,122.35	554.95	1,251.81	2.28	-1.91	-1.24
7,401.00	88.58	24.49	6,295.17	1,163.44	573.21	1,296.69	4.26	3.56	2.36
7,447.00	87.22	24.29	6,296.85	1,205.30	592.19	1,342.60	2.99	-2.96	-0.43
7,492.00	88.15	24.82	6,298.67	1,246.20	610.88	1,387.50	2.38	2.07	1.18
7,537.00	87.78	26.28	6,300.27	1,286.77	630.27	1,432.45	3.35	-0.82	3.24
7,583.00	89.26	26.78	6,301.46	1,327.91	650.81	1,478.43	3.40	3.22	1.09
7,628.00	88.09	25.61	6,302.50	1,368.28	670.67	1,523.40	3.68	-2.60	-2.60

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Company: NEWFIELD EXPLORATION CO.
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MD Reference: WELL @ 5886.00ft (CAPSTAR 529)
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)
7,673.00	86.61	24.74	6,304.58	1,408.96	689.79	1,568.32	3.81	-3.29	-1.93
7,719.00	88.64	27.05	6,306.48	1,450.30	709.86	1,614.26	6.68	4.41	5.02
7,764.00	87.47	28.23	6,308.01	1,490.14	730.73	1,659.23	3.69	-2.60	2.62
7,809.00	88.03	27.95	6,309.78	1,529.81	751.90	1,704.19	1.39	1.24	-0.62
7,855.00	87.84	27.95	6,311.43	1,570.42	773.44	1,750.16	0.41	-0.41	0.00
7,900.00	88.21	27.81	6,312.98	1,610.17	794.47	1,795.13	0.88	0.82	-0.31
7,945.00	87.72	27.24	6,314.58	1,650.05	815.26	1,840.10	1.67	-1.09	-1.27
7,991.00	88.15	27.46	6,316.24	1,690.88	836.38	1,886.07	1.05	0.93	0.48
8,036.00	88.15	28.90	6,317.69	1,730.53	857.62	1,931.04	3.20	0.00	3.20
8,081.00	87.72	28.12	6,319.31	1,770.04	879.08	1,976.01	1.98	-0.96	-1.73
8,127.00	88.09	28.02	6,321.00	1,810.60	900.71	2,021.97	0.83	0.80	-0.22
8,172.00	87.47	27.59	6,322.74	1,850.38	921.69	2,066.94	1.68	-1.38	-0.96
8,217.00	88.15	27.32	6,324.46	1,890.28	942.42	2,111.90	1.63	1.51	-0.60
8,263.00	88.40	27.89	6,325.84	1,931.03	963.72	2,157.88	1.35	0.54	1.24
8,308.00	87.72	27.16	6,327.37	1,970.91	984.51	2,202.86	2.22	-1.51	-1.62
8,353.00	88.21	26.78	6,328.97	2,010.99	1,004.90	2,247.83	1.38	1.09	-0.84
8,386.00	87.72	26.56	6,330.14	2,040.46	1,019.71	2,280.80	1.63	-1.48	-0.67
8,431.00	88.39	27.03	6,331.66	2,080.60	1,039.98	2,325.77	1.82	1.49	1.04
8,477.00	87.47	26.92	6,333.33	2,121.57	1,060.83	2,371.74	2.01	-2.00	-0.24
8,522.00	89.44	27.96	6,334.54	2,161.49	1,081.56	2,416.72	4.95	4.38	2.31
8,567.00	88.03	27.11	6,335.53	2,201.38	1,102.36	2,461.71	3.66	-3.13	-1.89
8,613.00	88.85	27.57	6,336.78	2,242.23	1,123.48	2,507.69	2.04	1.78	1.00
8,658.00	88.09	26.48	6,337.99	2,282.30	1,143.92	2,552.67	2.95	-1.69	-2.42
8,703.00	87.90	26.30	6,339.56	2,322.59	1,163.91	2,597.64	0.58	-0.42	-0.40
8,749.00	87.10	27.65	6,341.57	2,363.54	1,184.75	2,643.59	3.41	-1.74	2.93
8,794.00	87.90	28.57	6,343.53	2,403.20	1,205.93	2,688.55	2.71	1.78	2.04
8,839.00	89.88	29.66	6,344.40	2,442.50	1,227.82	2,733.51	5.02	4.40	2.42
8,884.00	88.77	29.75	6,344.93	2,481.58	1,250.12	2,778.48	2.47	-2.47	0.20
8,930.00	88.27	29.34	6,346.12	2,521.59	1,272.80	2,824.43	1.41	-1.09	-0.89
8,975.00	87.47	29.08	6,347.79	2,560.84	1,294.74	2,869.38	1.87	-1.78	-0.58
9,021.00	86.60	28.87	6,350.17	2,601.03	1,316.99	2,915.30	1.95	-1.89	-0.46
9,066.00	86.61	28.69	6,352.84	2,640.40	1,338.62	2,960.21	0.40	0.02	-0.40
9,111.00	87.78	29.51	6,355.04	2,679.67	1,360.48	3,005.13	3.17	2.60	1.82
9,157.00	89.81	30.52	6,356.01	2,719.49	1,383.48	3,051.07	4.93	4.41	2.20
9,202.00	89.69	30.70	6,356.20	2,758.22	1,406.40	3,096.00	0.48	-0.27	0.40
9,247.00	89.51	30.19	6,356.52	2,797.01	1,429.20	3,140.94	1.20	-0.40	-1.13
9,293.00	89.63	30.28	6,356.86	2,836.75	1,452.36	3,186.88	0.33	0.26	0.20
9,338.00	89.94	30.01	6,357.03	2,875.67	1,474.96	3,231.83	0.91	0.69	-0.60
9,383.00	88.83	29.85	6,357.51	2,914.66	1,497.41	3,276.78	2.49	-2.47	-0.36
9,429.00	88.77	31.47	6,358.48	2,954.22	1,520.86	3,322.70	3.52	-0.13	3.52
9,474.00	87.72	33.17	6,359.86	2,992.23	1,544.91	3,367.51	4.44	-2.33	3.78
9,519.00	86.11	34.11	6,362.28	3,029.64	1,569.80	3,412.18	4.14	-3.58	2.09
9,565.00	85.55	33.55	6,365.62	3,067.75	1,595.34	3,457.77	1.72	-1.22	-1.22
9,610.00	86.11	34.16	6,368.89	3,105.02	1,620.34	3,502.37	1.84	1.24	1.36
9,655.00	87.72	34.74	6,371.32	3,142.07	1,645.76	3,546.97	3.80	3.58	1.29
9,701.00	88.64	34.73	6,372.78	3,179.86	1,671.96	3,592.57	2.00	2.00	-0.02
9,746.00	87.59	34.05	6,374.26	3,216.97	1,697.36	3,637.21	2.78	-2.33	-1.51
9,791.00	88.95	34.70	6,375.62	3,254.09	1,722.76	3,681.86	3.35	3.02	1.44
9,836.00	88.27	34.07	6,376.71	3,291.22	1,748.16	3,726.52	2.06	-1.51	-1.40
9,881.00	87.41	33.99	6,378.40	3,328.49	1,773.33	3,771.19	1.92	-1.91	-0.18
9,927.00	87.22	33.26	6,380.56	3,366.75	1,798.77	3,816.87	1.64	-0.41	-1.59
9,972.00	88.09	33.60	6,382.40	3,404.27	1,823.54	3,861.58	2.08	1.93	0.76
10,018.00	88.46	33.47	6,383.78	3,442.60	1,848.94	3,907.30	0.85	0.80	-0.28
10,063.00	89.14	34.09	6,384.73	3,479.99	1,873.96	3,952.02	2.04	1.51	1.38

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Weatherford International Ltd.
Survey Report



Company: NEWFIELD EXPLORATION CO.
Project: DUCHESNE COUNTY, UT
Site: GMB 14-36-8-15H
Well: GMB 14-36-8-15H
Wellbore: GMB 14-36-8-15H
Design: GMB 14-36-8-15H

Local Co-ordinate Reference: Well GMB 14-36-8-15H
TVD Reference: WELL @ 5886.00ft (CAPSTAR 529)
MD Reference: WELL @ 5886.00ft (CAPSTAR 529)
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)
10,108.00	89.51	34.73	6,385.26	3,517.11	1,899.39	3,996.68	1.64	0.82	1.42
10,154.00	86.67	33.67	6,386.79	3,555.13	1,925.22	4,042.33	6.59	-6.17	-2.30
10,199.00	86.05	33.80	6,389.65	3,592.48	1,950.16	4,086.97	1.41	-1.38	0.29
10,244.00	86.73	33.78	6,392.48	3,629.80	1,975.14	4,131.60	1.51	1.51	-0.04
10,291.00	89.81	35.33	6,393.90	3,668.49	2,001.78	4,178.21	7.34	6.55	3.30
10,335.00	89.20	34.83	6,394.28	3,704.50	2,027.07	4,221.81	1.79	-1.39	-1.14
10,380.00	87.84	34.67	6,395.44	3,741.46	2,052.71	4,266.43	3.04	-3.02	-0.36
10,426.00	88.40	35.02	6,396.95	3,779.19	2,078.98	4,312.02	1.44	1.22	0.76
10,471.00	88.09	34.00	6,398.33	3,816.25	2,104.46	4,356.66	2.37	-0.69	-2.27
10,516.00	87.90	34.61	6,399.90	3,853.40	2,129.81	4,401.31	1.42	-0.42	1.36
10,562.00	88.46	37.04	6,401.36	3,890.68	2,156.72	4,446.79	5.42	1.22	5.28
10,607.00	88.03	36.73	6,402.74	3,926.65	2,183.71	4,491.15	1.18	-0.96	-0.69
10,652.00	88.15	36.48	6,404.24	3,962.76	2,210.53	4,535.55	0.62	0.27	-0.56
10,698.00	88.21	35.22	6,405.70	4,000.02	2,237.46	4,581.03	2.74	0.13	-2.74
10,743.00	88.21	34.57	6,407.11	4,036.91	2,263.19	4,625.63	1.44	0.00	-1.44
10,788.00	88.09	35.74	6,408.56	4,073.68	2,289.09	4,670.20	2.61	-0.27	2.60
10,834.00	87.66	36.40	6,410.27	4,110.84	2,316.15	4,715.64	1.71	-0.93	1.43
10,879.00	88.03	35.82	6,411.96	4,147.17	2,342.65	4,760.10	1.53	0.82	-1.29
10,924.00	87.00	35.91	6,413.91	4,183.60	2,368.99	4,804.57	2.30	-2.29	0.20
10,970.00	87.90	36.95	6,415.96	4,220.58	2,396.28	4,849.96	2.99	1.96	2.26
LAST SVY									
10,987.00	88.15	37.08	6,416.54	4,234.14	2,406.51	4,866.71	1.66	1.47	0.76
PROJ SVY - PBLH GMB 14-36-8-15H									
11,045.00	89.00	37.52	6,417.99	4,280.26	2,441.64	4,923.83	1.65	1.47	0.76

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	5,415.00	LODC Sand		1.80	27.43
5,743.35	5,745.00	Castle Peak Limestone		1.80	27.43
6,289.04	6,180.00	Base Carbonates (BSCARB)		1.80	27.43
6,565.37	6,244.00	BSCARB C PZ1		1.80	27.43
	6,305.00	Wasatch		1.80	27.43

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
5,641.01	5,640.01	-75.07	-53.28	TIE ON POINT
10,987.00	6,416.54	4,234.14	2,406.51	LAST SVY
11,045.00	6,417.99	4,280.26	2,441.64	PROJ SVY

Checked By: _____ Approved By: _____ Date: _____

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A Gyrodata Directional Survey

for

NEWFIELD

Lease: State Well: 14-36-815H, 5-1/2"

Location: Well Head, Duchesne County, Utah

Job Number: RM0710GCM449

Run Date: 7/15/2010 10:38:55 AM

Surveyor: Levi French

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Hand Held GPS

Survey Latitude: 40.068611 deg. N Longitude: 110.182444 deg. W

Azimuth Correction:

Gyro: Bearings are Relative to True North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

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DIV. OF OIL, GAS & MINING

A Gyrodata Directional Survey

Newfield

Lease: State Well: 14-36-815H, 5-1/2" Casing

Location: Well Head, Duchesne County, Utah

Job Number: RM0710GCM449

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet	
0.00	0.00	0.00	N 0 0 E	0.00	0.00	0.0	0.0	0.00 N 0.00 E	

0 - 6495 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 5-1/2" CASING ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO WELL HEAD									

100.00	0.90	171.55	S 8 27 E	0.90	100.00	0.8	171.6	0.77 S 0.12 E	
125.00	0.89	172.64	S 7 22 E	0.07	124.99	1.2	171.7	1.16 S 0.17 E	
150.00	0.88	170.42	S 9 35 E	0.15	149.99	1.6	171.7	1.54 S 0.23 E	
175.00	0.92	172.23	S 7 46 E	0.19	174.99	2.0	171.6	1.93 S 0.28 E	
200.00	1.02	178.36	S 1 38 E	0.57	199.98	2.4	172.3	2.35 S 0.32 E	
225.00	1.12	183.42	S 3 25 W	0.56	224.98	2.8	173.7	2.81 S 0.31 E	
250.00	1.31	188.80	S 8 48 W	0.91	249.97	3.4	175.7	3.34 S 0.25 E	
275.00	1.41	188.67	S 8 40 W	0.37	274.97	3.9	177.7	3.93 S 0.16 E	
300.00	1.41	188.80	S 8 48 W	0.03	299.96	4.5	179.1	4.54 S 0.07 E	
325.00	1.45	187.38	S 7 23 W	0.19	324.95	5.2	180.2	5.15 S 0.02 W	
350.00	1.47	187.74	S 7 44 W	0.11	349.94	5.8	181.0	5.78 S 0.10 W	
375.00	1.48	188.62	S 8 37 W	0.09	374.93	6.4	181.7	6.42 S 0.20 W	
400.00	1.46	187.63	S 7 38 W	0.13	399.93	7.1	182.3	7.05 S 0.29 W	
425.00	1.47	187.81	S 7 49 W	0.07	424.92	7.7	182.8	7.69 S 0.37 W	
450.00	1.44	187.26	S 7 16 W	0.13	449.91	8.3	183.1	8.32 S 0.46 W	
475.00	1.47	187.41	S 7 25 W	0.11	474.90	9.0	183.4	8.95 S 0.54 W	
500.00	1.46	187.52	S 7 31 W	0.05	499.89	9.6	183.7	9.58 S 0.62 W	
525.00	1.46	187.20	S 7 12 W	0.04	524.89	10.2	183.9	10.21 S 0.70 W	
550.00	1.42	188.85	S 8 51 W	0.24	549.88	10.9	184.2	10.84 S 0.79 W	
575.00	1.43	187.22	S 7 13 W	0.16	574.87	11.5	184.4	11.45 S 0.88 W	

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DIV. OF OIL, GAS & MINING

A Gyrodata Directional Survey

Newfield

Lease: State Well: 14-36-815H, 5-1/2" Casing

Location: Well Head, Duchesne County, Utah

Job Number: RM0710GCM449

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE		HORIZONTAL COORDINATES	
						DIST. feet	AZIMUTH deg.	feet	feet
600.00	1.25	186.00	S 6 0 W	0.70	599.86	12.1	184.5	12.03 S	0.94 W
625.00	0.90	178.09	S 1 54 E	1.53	624.86	12.5	184.4	12.50 S	0.96 W
650.00	0.83	175.41	S 4 35 E	0.34	649.86	12.9	184.2	12.88 S	0.94 W
675.00	0.75	173.52	S 6 29 E	0.31	674.85	13.3	183.9	13.22 S	0.91 W
700.00	0.73	172.30	S 7 42 E	0.13	699.85	13.6	183.7	13.54 S	0.87 W
725.00	0.69	172.29	S 7 43 E	0.16	724.85	13.9	183.4	13.84 S	0.83 W
750.00	0.68	173.42	S 6 35 E	0.06	749.85	14.2	183.2	14.14 S	0.79 W
775.00	0.55	181.62	S 1 37 W	0.62	774.85	14.4	183.1	14.41 S	0.78 W
800.00	0.53	180.59	S 0 35 W	0.07	799.85	14.7	183.1	14.64 S	0.78 W
825.00	0.49	192.53	S 12 32 W	0.46	824.84	14.9	183.1	14.86 S	0.81 W
850.00	0.49	195.48	S 15 29 W	0.10	849.84	15.1	183.3	15.07 S	0.86 W
875.00	0.46	202.32	S 22 19 W	0.26	874.84	15.3	183.5	15.27 S	0.93 W
900.00	0.46	204.91	S 24 55 W	0.08	899.84	15.5	183.7	15.45 S	1.01 W
925.00	0.44	207.29	S 27 18 W	0.11	924.84	15.7	184.0	15.62 S	1.09 W
950.00	0.41	211.02	S 31 1 W	0.14	949.84	15.8	184.3	15.79 S	1.18 W
975.00	0.42	207.69	S 27 41 W	0.10	974.84	16.0	184.6	15.94 S	1.27 W
1000.00	0.42	209.65	S 29 39 W	0.06	999.84	16.2	184.8	16.10 S	1.36 W
1025.00	0.39	208.45	S 28 27 W	0.11	1024.84	16.3	185.1	16.26 S	1.44 W
1050.00	0.36	209.65	S 29 39 W	0.12	1049.84	16.5	185.3	16.40 S	1.52 W
1075.00	0.32	214.46	S 34 27 W	0.20	1074.84	16.6	185.5	16.53 S	1.60 W
1100.00	0.37	212.66	S 32 40 W	0.19	1099.84	16.7	185.8	16.65 S	1.69 W
1125.00	0.33	214.07	S 34 4 W	0.14	1124.84	16.9	186.0	16.78 S	1.77 W
1150.00	0.30	211.73	S 31 44 W	0.14	1149.84	17.0	186.2	16.90 S	1.85 W
1175.00	0.33	215.07	S 35 4 W	0.15	1174.84	17.1	186.4	17.01 S	1.92 W

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DIV. OF OIL, GAS & MINING

A Gyrodata Directional Survey

Newfield

Lease: State Well: 14-36-815H, 5-1/2" Casing

Location: Well Head, Duchesne County, Utah

Job Number: RM0710GCM449

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE		HORIZONTAL COORDINATES	
						DIST. feet	AZIMUTH deg.	feet	feet
1200.00	0.33	214.27	S 34 16 W	0.02	1199.84	17.2	186.7	17.13 S	2.00 W
1225.00	0.32	214.51	S 34 31 W	0.03	1224.83	17.4	186.9	17.25 S	2.08 W
1250.00	0.33	218.84	S 38 51 W	0.10	1249.83	17.5	187.1	17.36 S	2.17 W
1275.00	0.37	212.70	S 32 42 W	0.22	1274.83	17.6	187.4	17.49 S	2.26 W
1300.00	0.32	224.02	S 44 1 W	0.33	1299.83	17.8	187.6	17.61 S	2.35 W
1325.00	0.39	226.54	S 46 32 W	0.27	1324.83	17.9	187.9	17.71 S	2.46 W
1350.00	0.41	226.48	S 46 29 W	0.09	1349.83	18.0	188.3	17.83 S	2.59 W
1375.00	0.40	227.71	S 47 43 W	0.05	1374.83	18.2	188.6	17.96 S	2.72 W
1400.00	0.40	229.57	S 49 34 W	0.06	1399.83	18.3	189.0	18.07 S	2.85 W
1425.00	0.41	228.97	S 48 58 W	0.04	1424.83	18.4	189.3	18.19 S	2.98 W
1450.00	0.42	228.46	S 48 28 W	0.07	1449.83	18.6	189.7	18.30 S	3.12 W
1475.00	0.42	232.20	S 52 12 W	0.11	1474.83	18.7	190.0	18.42 S	3.26 W
1500.00	0.38	227.64	S 47 38 W	0.19	1499.83	18.8	190.4	18.53 S	3.39 W
1525.00	0.41	225.32	S 45 19 W	0.12	1524.83	19.0	190.7	18.65 S	3.52 W
1550.00	0.41	211.11	S 31 7 W	0.41	1549.83	19.1	190.9	18.79 S	3.63 W
1575.00	0.42	206.04	S 26 3 W	0.15	1574.83	19.3	191.1	18.95 S	3.71 W
1600.00	0.42	206.68	S 26 41 W	0.03	1599.83	19.5	191.2	19.12 S	3.79 W
1625.00	0.40	205.79	S 25 47 W	0.11	1624.83	19.7	191.4	19.28 S	3.87 W
1650.00	0.42	207.89	S 27 53 W	0.13	1649.82	19.8	191.5	19.44 S	3.95 W
1675.00	0.42	207.43	S 27 26 W	0.03	1674.82	20.0	191.6	19.60 S	4.04 W
1700.00	0.42	210.11	S 30 7 W	0.08	1699.82	20.2	191.8	19.76 S	4.13 W
1725.00	0.43	207.26	S 27 16 W	0.09	1724.82	20.4	192.0	19.92 S	4.22 W
1750.00	0.48	212.89	S 32 54 W	0.27	1749.82	20.5	192.1	20.09 S	4.32 W
1775.00	0.47	211.48	S 31 29 W	0.06	1774.82	20.7	192.3	20.26 S	4.43 W

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DIV. OF OIL, GAS & MINING

A Gyrodata Directional Survey

Newfield

Lease: State Well: 14-36-815H, 5-1/2" Casing

Location: Well Head, Duchesne County, Utah

Job Number: RM0710GCM449

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE		HORIZONTAL COORDINATES	
						DIST. feet	AZIMUTH deg.	feet	feet
1800.00	0.53	214.93	S 34 56 W	0.29	1799.82	20.9	192.5	20.45 S	4.54 W
1825.00	0.53	218.77	S 38 46 W	0.14	1824.82	21.2	192.8	20.63 S	4.68 W
1850.00	0.57	217.69	S 37 41 W	0.17	1849.82	21.4	193.1	20.82 S	4.83 W
1875.00	0.63	223.23	S 43 14 W	0.34	1874.82	21.6	193.4	21.02 S	5.00 W
1900.00	0.67	220.91	S 40 55 W	0.20	1899.81	21.9	193.7	21.23 S	5.19 W
1925.00	0.69	222.81	S 42 48 W	0.12	1924.81	22.1	194.1	21.45 S	5.39 W
1950.00	0.76	225.09	S 45 5 W	0.30	1949.81	22.4	194.5	21.67 S	5.61 W
1975.00	0.79	224.49	S 44 29 W	0.14	1974.81	22.7	194.9	21.91 S	5.85 W
2000.00	0.84	226.16	S 46 9 W	0.20	1999.81	23.0	195.4	22.16 S	6.10 W
2025.00	0.89	226.01	S 46 0 W	0.22	2024.80	23.3	195.9	22.43 S	6.37 W
2050.00	0.99	227.07	S 47 4 W	0.39	2049.80	23.7	196.4	22.71 S	6.67 W
2075.00	1.03	229.33	S 49 20 W	0.23	2074.80	24.0	196.9	23.00 S	7.00 W
2100.00	1.05	230.30	S 50 18 W	0.10	2099.79	24.4	197.5	23.30 S	7.34 W
2125.00	1.08	228.25	S 48 15 W	0.19	2124.79	24.8	198.1	23.60 S	7.70 W
2150.00	1.13	228.80	S 48 48 W	0.22	2149.78	25.2	198.6	23.92 S	8.06 W
2175.00	1.18	229.29	S 49 17 W	0.17	2174.78	25.7	199.2	24.25 S	8.44 W
2200.00	1.20	228.59	S 48 35 W	0.11	2199.77	26.1	199.8	24.59 S	8.83 W
2225.00	1.18	228.70	S 48 42 W	0.07	2224.77	26.6	200.3	24.93 S	9.22 W
2250.00	1.20	229.40	S 49 24 W	0.10	2249.76	27.0	200.8	25.27 S	9.61 W
2275.00	1.25	226.80	S 46 48 W	0.29	2274.76	27.5	201.3	25.63 S	10.01 W
2300.00	1.23	227.42	S 47 25 W	0.08	2299.75	28.0	201.8	26.00 S	10.41 W
2325.00	1.27	228.14	S 48 8 W	0.16	2324.74	28.5	202.3	26.37 S	10.81 W
2350.00	1.31	227.36	S 47 21 W	0.17	2349.74	29.0	202.8	26.75 S	11.23 W
2375.00	1.28	228.09	S 48 5 W	0.16	2374.73	29.5	203.2	27.13 S	11.65 W

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 DIV. OF OIL, GAS & MINING

A Gyrodata Directional Survey

Newfield

Lease: State Well: 14-36-815H, 5-1/2" Casing

Location: Well Head, Duchesne County, Utah

Job Number: RM0710GCM449

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
2400.00	1.39	228.87	S 48 52 W	0.47	2399.72	30.0 203.7	27.51 S 12.08 W
2425.00	1.39	228.99	S 48 59 W	0.01	2424.72	30.6 204.2	27.91 S 12.54 W
2450.00	1.44	228.68	S 48 41 W	0.20	2449.71	31.2 204.7	28.32 S 13.00 W
2475.00	1.46	228.56	S 48 33 W	0.07	2474.70	31.7 205.1	28.73 S 13.48 W
2500.00	1.50	229.11	S 49 7 W	0.18	2499.69	32.3 205.6	29.16 S 13.97 W
2525.00	1.49	228.54	S 48 32 W	0.07	2524.68	32.9 206.0	29.59 S 14.46 W
2550.00	1.51	228.54	S 48 32 W	0.08	2549.68	33.5 206.5	30.02 S 14.95 W
2575.00	1.50	227.98	S 47 59 W	0.10	2574.67	34.2 206.9	30.46 S 15.44 W
2600.00	1.53	228.31	S 48 19 W	0.13	2599.66	34.8 207.3	30.90 S 15.93 W
2625.00	1.51	227.71	S 47 43 W	0.08	2624.65	35.4 207.7	31.34 S 16.42 W
2650.00	1.53	227.30	S 47 18 W	0.09	2649.64	36.0 208.0	31.79 S 16.91 W
2675.00	1.51	228.10	S 48 6 W	0.14	2674.63	36.6 208.4	32.24 S 17.40 W
2700.00	1.28	221.69	S 41 41 W	1.11	2699.63	37.2 208.6	32.67 S 17.83 W
2725.00	1.24	218.30	S 38 18 W	0.34	2724.62	37.8 208.8	33.09 S 18.18 W
2750.00	1.23	217.99	S 38 0 W	0.04	2749.61	38.3 208.9	33.51 S 18.52 W
2775.00	1.25	217.81	S 37 49 W	0.08	2774.61	38.8 209.0	33.94 S 18.85 W
2800.00	1.26	217.58	S 37 35 W	0.05	2799.60	39.4 209.2	34.37 S 19.18 W
2825.00	1.28	217.58	S 37 35 W	0.08	2824.60	39.9 209.3	34.81 S 19.52 W
2850.00	1.36	217.26	S 37 16 W	0.34	2849.59	40.5 209.4	35.26 S 19.87 W
2875.00	1.40	217.47	S 37 28 W	0.16	2874.58	41.1 209.5	35.74 S 20.24 W
2900.00	1.41	219.10	S 39 6 W	0.17	2899.57	41.7 209.6	36.22 S 20.62 W
2925.00	1.44	219.64	S 39 39 W	0.10	2924.57	42.3 209.8	36.71 S 21.01 W
2950.00	1.27	219.95	S 39 57 W	0.68	2949.56	42.9 209.9	37.16 S 21.39 W
2975.00	0.76	221.32	S 41 19 W	2.02	2974.56	43.3 210.0	37.49 S 21.68 W

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DIV. OF OIL, GAS & MINING

A Gyrodata Directional Survey

Newfield

Lease: State Well: 14-36-815H, 5-1/2" Casing

Location: Well Head, Duchesne County, Utah

Job Number: RM0710GCM449

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE		HORIZONTAL COORDINATES	
						feet	deg.	feet	feet
3000.00	0.68	227.00	S 47 0 W	0.43	2999.55	43.6	210.1	37.72 S	21.89 W
3025.00	0.70	225.88	S 45 53 W	0.09	3024.55	43.9	210.2	37.93 S	22.11 W
3050.00	0.66	226.65	S 46 39 W	0.17	3049.55	44.2	210.3	38.13 S	22.33 W
3075.00	0.69	226.77	S 46 46 W	0.11	3074.55	44.5	210.5	38.33 S	22.54 W
3100.00	0.71	231.56	S 51 34 W	0.25	3099.55	44.8	210.6	38.53 S	22.77 W
3125.00	0.73	232.71	S 52 42 W	0.10	3124.54	45.0	210.7	38.72 S	23.02 W
3150.00	0.73	234.88	S 54 53 W	0.11	3149.54	45.3	210.9	38.91 S	23.27 W
3175.00	0.75	237.75	S 57 45 W	0.17	3174.54	45.6	211.1	39.09 S	23.54 W
3200.00	0.81	242.98	S 62 59 W	0.36	3199.54	45.9	211.3	39.26 S	23.84 W
3225.00	0.78	246.53	S 66 32 W	0.23	3224.54	46.2	211.5	39.41 S	24.15 W
3250.00	0.80	243.90	S 63 54 W	0.17	3249.53	46.5	211.7	39.55 S	24.47 W
3275.00	0.81	245.27	S 65 16 W	0.08	3274.53	46.8	212.0	39.70 S	24.78 W
3300.00	0.58	241.53	S 61 32 W	0.91	3299.53	47.1	212.2	39.84 S	25.05 W
3325.00	0.45	225.96	S 45 58 W	0.78	3324.53	47.3	212.3	39.97 S	25.24 W
3350.00	0.44	227.71	S 47 43 W	0.06	3349.53	47.5	212.3	40.10 S	25.38 W
3375.00	0.45	227.85	S 47 51 W	0.02	3374.53	47.6	212.4	40.23 S	25.52 W
3400.00	0.48	226.86	S 46 51 W	0.12	3399.53	47.8	212.5	40.37 S	25.67 W
3425.00	0.52	225.28	S 45 17 W	0.18	3424.52	48.0	212.5	40.52 S	25.83 W
3450.00	0.56	224.94	S 44 56 W	0.16	3449.52	48.3	212.6	40.68 S	25.99 W
3475.00	0.59	224.05	S 44 3 W	0.12	3474.52	48.5	212.6	40.86 S	26.17 W
3500.00	0.61	222.41	S 42 24 W	0.11	3499.52	48.8	212.7	41.05 S	26.35 W
3525.00	0.60	223.26	S 43 16 W	0.05	3524.52	49.0	212.7	41.25 S	26.53 W
3550.00	0.63	223.65	S 43 39 W	0.12	3549.52	49.3	212.8	41.44 S	26.71 W
3575.00	0.63	221.63	S 41 38 W	0.09	3574.52	49.6	212.9	41.65 S	26.90 W

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A Gyrodata Directional Survey

Newfield

Lease: State Well: 14-36-815H, 5-1/2" Casing

Location: Well Head, Duchesne County, Utah

Job Number: RM0710GCM449

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE		HORIZONTAL COORDINATES	
						DIST. feet	AZIMUTH deg.	feet	feet
3600.00	0.64	218.70	S 38 42 W	0.14	3599.51	49.9	212.9	41.86 S	27.08 W
3625.00	0.63	220.14	S 40 8 W	0.08	3624.51	50.1	212.9	42.07 S	27.25 W
3650.00	0.65	220.69	S 40 41 W	0.08	3649.51	50.4	213.0	42.28 S	27.43 W
3675.00	0.70	219.88	S 39 53 W	0.24	3674.51	50.7	213.0	42.51 S	27.62 W
3700.00	0.76	221.40	S 41 24 W	0.22	3699.51	51.0	213.1	42.75 S	27.83 W
3725.00	0.87	222.37	S 42 22 W	0.47	3724.51	51.4	213.1	43.01 S	28.07 W
3750.00	0.96	225.90	S 45 54 W	0.40	3749.50	51.8	213.2	43.30 S	28.35 W
3775.00	1.04	224.35	S 44 21 W	0.37	3774.50	52.2	213.3	43.61 S	28.66 W
3800.00	1.04	225.80	S 45 48 W	0.11	3799.49	52.6	213.4	43.93 S	28.98 W
3825.00	1.09	224.94	S 44 57 W	0.19	3824.49	53.1	213.5	44.26 S	29.31 W
3850.00	1.14	224.47	S 44 28 W	0.21	3849.49	53.6	213.6	44.60 S	29.65 W
3875.00	1.12	224.95	S 44 57 W	0.10	3874.48	54.0	213.7	44.95 S	30.00 W
3900.00	1.21	224.00	S 44 0 W	0.37	3899.48	54.5	213.8	45.31 S	30.36 W
3925.00	1.27	223.03	S 43 2 W	0.24	3924.47	55.1	213.9	45.71 S	30.73 W
3950.00	1.32	222.51	S 42 31 W	0.22	3949.46	55.6	214.0	46.12 S	31.11 W
3975.00	1.35	223.62	S 43 37 W	0.18	3974.46	56.2	214.1	46.55 S	31.51 W
4000.00	1.36	224.35	S 44 21 W	0.08	3999.45	56.8	214.2	46.97 S	31.92 W
4025.00	1.36	223.97	S 43 58 W	0.04	4024.44	57.4	214.3	47.40 S	32.33 W
4050.00	1.62	221.51	S 41 31 W	1.06	4049.43	58.0	214.4	47.88 S	32.77 W
4075.00	1.60	220.91	S 40 55 W	0.10	4074.42	58.7	214.5	48.41 S	33.24 W
4100.00	1.65	222.07	S 42 4 W	0.25	4099.41	59.4	214.6	48.94 S	33.71 W
4125.00	1.65	222.19	S 42 12 W	0.04	4124.40	60.1	214.6	49.47 S	34.19 W
4150.00	1.63	222.43	S 42 26 W	0.05	4149.39	60.8	214.7	50.00 S	34.67 W
4175.00	1.38	225.52	S 45 31 W	1.06	4174.38	61.5	214.8	50.47 S	35.13 W
4200.00	0.81	240.39	S 60 23 W	2.55	4199.38	61.9	215.0	50.77 S	35.49 W

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DIV. OF OIL, GAS & MINING

A Gyrodata Directional Survey

Newfield

Lease: State Well: 14-36-815H, 5-1/2" Casing

Location: Well Head, Duchesne County, Utah

Job Number: RM0710GCM449

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet	
4225.00	0.64	258.74	S 78 45 W	1.14	4224.38	62.2	215.1	50.89 S	35.78 W
4250.00	0.61	257.62	S 77 37 W	0.10	4249.38	62.4	215.3	50.94 S	36.05 W
4275.00	0.61	258.21	S 78 12 W	0.04	4274.37	62.6	215.5	51.00 S	36.31 W
4300.00	0.59	249.07	S 69 4 W	0.39	4299.37	62.8	215.6	51.07 S	36.56 W
4325.00	0.59	237.71	S 57 43 W	0.47	4324.37	63.0	215.7	51.19 S	36.79 W
4350.00	0.67	236.65	S 56 39 W	0.33	4349.37	63.3	215.8	51.33 S	37.02 W
4375.00	0.76	231.85	S 51 51 W	0.45	4374.37	63.6	215.9	51.52 S	37.27 W
4400.00	0.84	226.76	S 46 46 W	0.41	4399.37	63.9	216.0	51.75 S	37.54 W
4425.00	0.90	228.69	S 48 41 W	0.29	4424.36	64.3	216.0	52.00 S	37.82 W
4450.00	0.97	226.19	S 46 11 W	0.31	4449.36	64.7	216.1	52.28 S	38.12 W
4475.00	1.10	220.71	S 40 43 W	0.66	4474.36	65.1	216.1	52.61 S	38.43 W
4500.00	1.10	219.88	S 39 53 W	0.06	4499.35	65.6	216.2	52.97 S	38.74 W
4525.00	1.05	218.46	S 38 28 W	0.20	4524.35	66.1	216.2	53.34 S	39.04 W
4550.00	1.31	216.55	S 36 33 W	1.04	4549.34	66.6	216.2	53.75 S	39.35 W
4575.00	1.33	215.83	S 35 50 W	0.09	4574.34	67.2	216.2	54.21 S	39.69 W
4600.00	1.31	214.33	S 34 20 W	0.15	4599.33	67.8	216.2	54.68 S	40.02 W
4625.00	1.30	214.97	S 34 58 W	0.08	4624.32	68.3	216.2	55.15 S	40.34 W
4650.00	1.34	214.72	S 34 43 W	0.16	4649.32	68.9	216.2	55.62 S	40.67 W
4675.00	1.43	216.39	S 36 23 W	0.40	4674.31	69.5	216.2	56.11 S	41.02 W
4700.00	1.47	217.58	S 37 35 W	0.19	4699.30	70.1	216.2	56.62 S	41.40 W
4725.00	1.42	215.01	S 35 1 W	0.31	4724.29	70.8	216.2	57.12 S	41.78 W
4750.00	1.50	215.64	S 35 39 W	0.30	4749.28	71.4	216.2	57.64 S	42.14 W
4775.00	1.48	214.52	S 34 31 W	0.13	4774.28	72.1	216.2	58.18 S	42.52 W
4800.00	1.49	213.94	S 33 56 W	0.06	4799.27	72.7	216.1	58.71 S	42.88 W

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A Gyrodata Directional Survey

Newfield

Lease: State Well: 14-36-815H, 5-1/2" Casing

Location: Well Head, Duchesne County, Utah

Job Number: RM0710GCM449

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
4825.00	1.34	212.36	S 32 22 W	0.61	4824.26	73.3 216.1	59.23 S 43.22 W
4850.00	1.33	214.21	S 34 13 W	0.18	4849.25	73.9 216.1	59.72 S 43.54 W
4875.00	1.29	214.24	S 34 14 W	0.17	4874.25	74.5 216.1	60.19 S 43.86 W
4900.00	0.98	203.07	S 23 4 W	1.49	4899.24	75.0 216.0	60.62 S 44.10 W
4925.00	0.87	197.15	S 17 9 W	0.59	4924.24	75.4 216.0	60.99 S 44.24 W
4950.00	0.90	193.62	S 13 37 W	0.25	4949.24	75.7 215.9	61.37 S 44.34 W
4975.00	0.92	193.72	S 13 43 W	0.06	4974.23	76.1 215.7	61.75 S 44.44 W
5000.00	0.92	193.93	S 13 56 W	0.02	4999.23	76.5 215.6	62.14 S 44.53 W
5025.00	1.19	194.71	S 14 43 W	1.10	5024.22	76.9 215.5	62.59 S 44.65 W
5050.00	1.23	195.80	S 15 48 W	0.18	5049.22	77.4 215.4	63.10 S 44.79 W
5075.00	1.22	195.73	S 15 44 W	0.04	5074.21	77.9 215.2	63.62 S 44.93 W
5100.00	1.20	195.43	S 15 26 W	0.11	5099.21	78.4 215.1	64.13 S 45.08 W
5125.00	1.20	197.73	S 17 44 W	0.19	5124.20	78.9 215.0	64.63 S 45.23 W
5150.00	1.19	198.18	S 18 11 W	0.05	5149.20	79.4 214.9	65.13 S 45.39 W
5175.00	1.19	198.70	S 18 42 W	0.05	5174.19	79.9 214.8	65.62 S 45.55 W
5200.00	1.19	198.35	S 18 21 W	0.03	5199.19	80.4 214.7	66.11 S 45.72 W
5225.00	1.24	197.99	S 17 59 W	0.20	5224.18	80.9 214.6	66.61 S 45.88 W
5250.00	1.15	200.66	S 20 40 W	0.40	5249.17	81.4 214.5	67.10 S 46.05 W
5275.00	1.21	205.86	S 25 52 W	0.48	5274.17	81.9 214.4	67.58 S 46.26 W
5300.00	1.23	208.59	S 28 35 W	0.24	5299.16	82.4 214.3	68.05 S 46.50 W
5325.00	1.23	208.63	S 28 38 W	0.02	5324.16	83.0 214.3	68.52 S 46.76 W
5350.00	1.21	208.68	S 28 41 W	0.09	5349.15	83.5 214.3	68.99 S 47.01 W
5375.00	1.20	217.09	S 37 5 W	0.71	5374.15	84.0 214.3	69.43 S 47.30 W
5400.00	1.21	223.04	S 43 3 W	0.50	5399.14	84.5 214.3	69.83 S 47.64 W

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Lease: State Well: 14-36-815H, 5-1/2" Casing

Location: Well Head, Duchesne County, Utah

Job Number: RM0710GCM449

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE		HORIZONTAL COORDINATES	
						DIST. feet	AZIMUTH deg.	feet	feet
5425.00	1.24	223.33	S 43 20 W	0.13	5424.14	85.1	214.4	70.22 S	48.00 W
5450.00	1.23	228.87	S 48 52 W	0.48	5449.13	85.6	214.4	70.60 S	48.39 W
5475.00	1.27	231.96	S 51 57 W	0.30	5474.12	86.1	214.5	70.94 S	48.81 W
5500.00	1.06	228.94	S 48 56 W	0.86	5499.12	86.6	214.6	71.27 S	49.20 W
5525.00	0.89	227.79	S 47 47 W	0.69	5524.11	87.0	214.7	71.55 S	49.52 W
5550.00	0.65	203.30	S 23 18 W	1.60	5549.11	87.3	214.7	71.81 S	49.72 W
5575.00	0.52	196.48	S 16 29 W	0.59	5574.11	87.6	214.7	72.05 S	49.81 W
5600.00	0.49	194.53	S 14 32 W	0.13	5599.11	87.8	214.6	72.26 S	49.87 W
5625.00	0.40	186.51	S 6 30 W	0.44	5624.11	88.0	214.6	72.45 S	49.90 W
5650.00	0.43	193.16	S 13 10 W	0.24	5649.11	88.1	214.5	72.62 S	49.93 W
5675.00	0.57	58.19	N 58 12 E	3.70	5674.11	88.1	214.5	72.65 S	49.85 W
5700.00	2.50	43.10	N 43 6 E	7.85	5699.10	87.5	214.4	72.19 S	49.37 W
5725.00	4.97	39.05	N 39 3 E	9.92	5724.04	85.8	214.3	70.95 S	48.32 W
5750.00	6.84	36.34	N 36 20 E	7.56	5748.91	83.3	214.2	68.91 S	46.75 W
5775.00	9.76	32.51	N 32 31 E	11.86	5773.65	79.7	214.2	65.92 S	44.73 W
5800.00	12.34	29.96	N 29 58 E	10.51	5798.18	74.9	214.4	61.82 S	42.26 W
5810.00	13.31	28.78	N 28 47 E	10.05	5807.93	72.7	214.5	59.88 S	41.17 W
5820.00	14.12	27.60	N 27 36 E	8.57	5817.65	70.3	214.7	57.79 S	40.05 W
5830.00	14.78	27.36	N 27 22 E	6.63	5827.33	67.8	215.0	55.58 S	38.90 W
5840.00	15.69	27.53	N 27 32 E	9.11	5836.98	65.2	215.3	53.25 S	37.69 W
5850.00	16.93	27.43	N 27 26 E	12.40	5846.57	62.5	215.6	50.76 S	36.39 W
5860.00	18.22	26.99	N 26 59 E	12.97	5856.11	59.5	216.1	48.07 S	35.01 W
5870.00	19.21	26.87	N 26 52 E	9.91	5865.58	56.3	216.6	45.21 S	33.56 W
5880.00	20.39	27.05	N 27 3 E	11.82	5874.99	53.0	217.2	42.19 S	32.02 W

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Newfield

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Location: Well Head, Duchesne County, Utah

Job Number: RM0710GCM449

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet	
5890.00	21.87	27.28	N 27 17 E	14.82	5884.31	49.4	217.9	38.98 S	30.38 W
5900.00	23.37	27.26	N 27 16 E	15.00	5893.55	45.6	218.8	35.57 S	28.61 W
5910.00	24.75	27.20	N 27 12 E	13.80	5902.68	41.7	219.9	31.94 S	26.75 W
5920.00	25.97	27.24	N 27 14 E	12.20	5911.71	37.5	221.4	28.13 S	24.79 W
5930.00	27.17	27.12	N 27 7 E	12.01	5920.66	33.2	223.3	24.15 S	22.75 W
5940.00	28.45	27.32	N 27 19 E	12.83	5929.50	28.7	225.9	20.00 S	20.61 W
5950.00	29.48	27.59	N 27 35 E	10.38	5938.25	24.2	229.5	15.71 S	18.38 W
5960.00	30.36	27.91	N 27 55 E	8.94	5946.92	19.6	234.9	11.29 S	16.06 W
5970.00	31.09	28.27	N 28 16 E	7.53	5955.51	15.2	243.6	6.79 S	13.65 W
5980.00	31.79	28.59	N 28 35 E	7.20	5964.05	11.4	258.9	2.20 S	11.17 W
5990.00	32.70	28.82	N 28 49 E	9.18	5972.50	9.0	286.1	2.48 N	8.61 W
6000.00	33.71	28.97	N 28 58 E	10.13	5980.87	9.4	320.7	7.28 N	5.96 W
6010.00	34.64	29.11	N 29 7 E	9.33	5989.14	12.6	345.1	12.19 N	3.23 W
6020.00	35.80	29.07	N 29 4 E	11.60	5997.31	17.2	358.6	17.23 N	0.43 W
6030.00	37.25	28.96	N 28 58 E	14.51	6005.35	22.6	6.3	22.43 N	2.46 E
6040.00	38.47	28.84	N 28 50 E	12.22	6013.24	28.3	11.0	27.80 N	5.42 E
6050.00	39.70	28.78	N 28 47 E	12.31	6021.01	34.4	14.2	33.33 N	8.46 E
6060.00	40.94	28.69	N 28 41 E	12.41	6028.63	40.7	16.5	39.00 N	11.57 E
6070.00	41.93	28.58	N 28 35 E	9.93	6036.13	47.2	18.2	44.81 N	14.74 E
6080.00	42.53	28.47	N 28 28 E	6.05	6043.53	53.8	19.5	50.71 N	17.95 E
6090.00	42.84	28.40	N 28 24 E	3.14	6050.88	60.5	20.5	56.68 N	21.18 E
6100.00	43.00	28.24	N 28 14 E	1.94	6058.21	67.3	21.3	62.67 N	24.41 E
6110.00	43.17	28.17	N 28 10 E	1.77	6065.51	74.0	21.9	68.69 N	27.64 E
6120.00	43.24	28.09	N 28 5 E	0.89	6072.80	80.9	22.4	74.73 N	30.87 E

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A Gyrodata Directional Survey

Newfield

Lease: State Well: 14-36-815H, 5-1/2" Casing

Location: Well Head, Duchesne County, Utah

Job Number: RM0710GCM449

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE		HORIZONTAL COORDINATES	
						DIST. feet	AZIMUTH deg.	feet	feet
6130.00	43.17	27.99	N 27 59 E	0.98	6080.09	87.7	22.9	80.77 N	34.09 E
6140.00	43.04	27.90	N 27 54 E	1.44	6087.39	94.5	23.2	86.81 N	37.29 E
6150.00	43.21	27.78	N 27 47 E	1.89	6094.69	101.3	23.6	92.85 N	40.48 E
6160.00	43.68	27.70	N 27 42 E	4.73	6101.95	108.2	23.8	98.94 N	43.68 E
6170.00	44.38	27.73	N 27 44 E	7.00	6109.14	115.1	24.1	105.09 N	46.92 E
6180.00	45.31	27.71	N 27 43 E	9.30	6116.23	122.1	24.3	111.33 N	50.20 E
6190.00	46.25	27.81	N 27 49 E	9.43	6123.20	129.3	24.5	117.68 N	53.53 E
6200.00	47.17	27.87	N 27 52 E	9.21	6130.06	136.5	24.6	124.11 N	56.93 E
6210.00	48.30	27.95	N 27 57 E	11.32	6136.78	143.9	24.8	130.65 N	60.40 E
6220.00	49.58	28.17	N 28 10 E	12.91	6143.35	151.5	25.0	137.31 N	63.94 E
6230.00	50.83	28.33	N 28 20 E	12.56	6149.75	159.1	25.1	144.07 N	67.58 E
6240.00	52.14	28.53	N 28 32 E	13.19	6155.98	166.9	25.3	150.95 N	71.31 E
6250.00	53.60	28.72	N 28 43 E	14.68	6162.01	174.9	25.4	157.95 N	75.12 E
6260.00	55.11	28.94	N 28 56 E	15.21	6167.84	183.0	25.6	165.07 N	79.04 E
6270.00	56.59	29.12	N 29 7 E	14.87	6173.46	191.3	25.7	172.31 N	83.06 E
6280.00	58.10	29.17	N 29 10 E	15.11	6178.85	199.7	25.9	179.66 N	87.16 E
6290.00	59.75	29.10	N 29 6 E	16.51	6184.01	208.2	26.0	187.14 N	91.33 E
6300.00	61.45	29.04	N 29 2 E	17.01	6188.92	216.9	26.1	194.75 N	95.56 E
6310.00	63.02	28.96	N 28 58 E	15.72	6193.58	225.8	26.2	202.49 N	99.85 E
6320.00	64.49	28.90	N 28 54 E	14.71	6198.00	234.7	26.4	210.34 N	104.19 E
6330.00	65.95	28.94	N 28 56 E	14.60	6202.19	243.8	26.4	218.29 N	108.58 E
6340.00	67.29	29.09	N 29 5 E	13.47	6206.16	253.0	26.5	226.32 N	113.03 E
6350.00	68.34	29.19	N 29 11 E	10.54	6209.94	262.2	26.6	234.40 N	117.54 E
6360.00	69.28	29.16	N 29 10 E	9.40	6213.55	271.5	26.7	242.55 N	122.09 E

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DIV. OF OIL, GAS & MINING

A Gyrodata Directional Survey

Newfield

Lease: State Well: 14-36-815H, 5-1/2" Casing

Location: Well Head, Duchesne County, Utah

Job Number: RM0710GCM449

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet
6370.00	70.25	29.11	N 29 7 E	9.71	6217.01	280.9	26.8	250.74 N 126.66 E
6380.00	71.21	29.04	N 29 2 E	9.62	6220.31	290.3	26.9	258.99 N 131.24 E
6390.00	72.19	29.07	N 29 4 E	9.80	6223.45	299.8	26.9	267.29 N 135.85 E
6400.00	73.30	29.12	N 29 7 E	11.11	6226.42	309.4	27.0	275.64 N 140.50 E
6410.00	74.43	29.05	N 29 3 E	11.32	6229.20	319.0	27.1	284.03 N 145.17 E
6420.00	75.61	28.91	N 28 55 E	11.88	6231.78	328.6	27.1	292.48 N 149.85 E
6430.00	76.73	28.73	N 28 44 E	11.34	6234.17	338.3	27.2	300.99 N 154.53 E
6440.00	77.80	28.58	N 28 35 E	10.80	6236.38	348.1	27.2	309.55 N 159.20 E
6450.00	78.81	28.44	N 28 26 E	10.19	6238.40	357.9	27.3	318.15 N 163.88 E
6460.00	79.71	28.30	N 28 18 E	9.10	6240.27	367.7	27.3	326.80 N 168.55 E
6470.00	80.61	28.13	N 28 8 E	9.15	6241.97	377.6	27.3	335.48 N 173.21 E
6480.00	81.40	27.98	N 27 59 E	8.04	6243.54	387.4	27.3	344.19 N 177.85 E
6490.00	82.10	27.88	N 27 53 E	7.07	6244.97	397.3	27.3	352.94 N 182.49 E
6495.00	82.40	27.89	N 27 53 E	6.00	6245.65	402.3	27.3	357.32 N 184.80 E

Final Station Closure: Distance: 402.28 ft Az: 27.35 deg.

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Daily Activity Report

Format For Sundry

GREATER MB 14-36-8-15H**5/1/2010 To 9/30/2010****GREATER MB 14-36-8-15H****Waiting on Cement****Date:** 6/10/2010

Ross #21 at 310. Days Since Spud - On 6/8/10 Spud W/ Ross # 21 on 6/8/10 @ 9:00 AM Drill 310' of 12 1/4" hole. Run 7 jts - +.25#sk Cello Flake Mixed @ 15.8ppg W/ 1.17 yield.

Returned 4bbls Cement to pit. - 8 5/8" casing set @ 314'KB. On 6/12/10 R/U BJ and Cmt W/ 160sks Class "G"+ 2%CaCl

Daily Cost: \$0**Cumulative Cost:** \$91,903**GREATER MB 14-36-8-15H****Rigging Up****Date:** 6/17/2010

Capstar #329 at 310. 0 Days Since Spud - MIRU - Pipe & Blind rams,choke man,inside and outside valves,kill line valves,kelly valve 2000psi - Waite on crossover to install wear bushing.

- Rig up gas buster, build panic lines. - for 30 min. Ann 1500 for 15min. Surface casing 1500 for 30 min.

Daily Cost: \$0**Cumulative Cost:** \$144,477**GREATER MB 14-36-8-15H****Drill 7 7/8" hole with fresh water****Date:** 6/18/2010

Capstar #329 at 3647. 1 Days Since Spud - Pick up mud motor & scribe tools - Trip in & tag cement - Drill 7 7/8 hole w/fresh water from 1350' to 3647' WOB/17,TRPM 155,GPM/410,AVG ROP/153 - Rig service - Drill 7 7/8 hole w/fresh water from 312' to 1350' WOB/15,TRPM 155,GPM/410,AVG ROP/159

Daily Cost: \$0**Cumulative Cost:** \$179,182**GREATER MB 14-36-8-15H****Drill 7 7/8" hole with fresh water****Date:** 6/19/2010

Capstar #329 at 5550. 2 Days Since Spud - Drill 7 7/8 hole w/fresh water from 3647' to 4310' WOB/17,TRPM 155,GPM/410,AVG ROP/94 - Drill 7 7/8 hole w/fresh water from 4310' to 5550' WOB/17,TRPM 155,GPM/410,AVG ROP/75 - Rig service

Daily Cost: \$0**Cumulative Cost:** \$217,116**GREATER MB 14-36-8-15H****Drill 7 7/8" hole with fresh water****Date:** 6/20/2010

Capstar #329 at 5820. 3 Days Since Spud - Drill 7 7/8 hole w/fresh water from 5550' to 5686' WOB/17,TRPM 155,GPM/410,AVG ROP/75 - Condition hole - TOO H - Drill 7 7/8 hole w/fresh water & build bend from 5686' to 5820' - TIH - Log last 400' going in - Pick up wheatherford tools & Scribe

Daily Cost: \$0**Cumulative Cost:** \$261,491**RECEIVED****GREATER MB 14-36-8-15H****NOV 08 2010****Drill 7 7/8" hole with fresh water**

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Date: 6/21/2010

Capstar #329 at 6237. 4 Days Since Spud - Drill 7 7/8 hole w/fresh water & build bend from 5686' to 6237'

Daily Cost: \$0**Cumulative Cost:** \$281,691**GREATER MB 14-36-8-15H****Circulate & Condition Hole****Date:** 6/22/2010

Capstar #329 at 6615. 5 Days Since Spud - Drill 7 7/8" hole from 6237' to 6342'/WOB 22/RPM 40/ GPM 420/ ROP 17.5 FPH - Circ . & Cond. For trip - Drill 7 7/8" hole from 6342' to 6615'/WOB 22/ RPM 40/ GPM 420/ ROP 16 FPH - Work tight hole @ 6434' & pump sweep

Daily Cost: \$0**Cumulative Cost:** \$320,556**GREATER MB 14-36-8-15H****TIH****Date:** 6/23/2010

Capstar #329 at 6615. 6 Days Since Spud - Circulate and condition mud. - P/U and go in hole for clean out run. - Circulate - Wash and ream back to 6615 TD. - Circulate and pump high vis sweep - Short trip to 6340' Tight hole 6450 to 6340 30K over string weight. - Wash and ream to 6615'. TD - Circulate and condition fluid w/ brine. 9.4 wt. and 45 vis. - Short trip to 5625'. Tight hole f/ 6450' to 6120' Pulling 40K over string weight - Wash and ream to 6615'. TD - Circulate and condition mud. A lot of cutting going over shakers. Lost 400 psi of pump pressure. - Trip out of hole. Tight, but getting better from 6500 to 6120'. 20K over weight. Come all th way out - to check for hole in drill string. - Strap BHA and check mud pump. Pump ok. - Short trip. Tight at 6340' Work free.

Daily Cost: \$0**Cumulative Cost:** \$358,311**GREATER MB 14-36-8-15H****TIH****Date:** 6/24/2010

Capstar #329 at 6615. 7 Days Since Spud - Rig Service - Trip in hole to 6300' - Wash and ream 6300' - 6615'. A lot of big shale over shakers. Bring wt up to 9.8#/gal - Circulate and condition mud. Well bore cleaned up. - Trip in hole - wiped it out. - P/U new 4 3/4" BHA as follows; 6 1/8" Smith Mi613, Wenzel Mud Motor, LWD 24.05, MWD 22.18, DC-NM - 29.11', x/o 3.5-xt39 1.27', 78 jts 4" xt39 pipe 2507.24', x/o 4.5-xt39 3.86' and 28 jts HWDP 4 1/2" - 857.33' Do shallow test on directional tools. Test ok. - Trip out of hole. Tight hole at 6320'. Pulled 25K over string wt. Worked up and down through it and

Daily Cost: \$0**Cumulative Cost:** \$400,514**GREATER MB 14-36-8-15H****Drill 6 1/8" hole with mud****Date:** 6/25/2010

Capstar #329 at 7242. 8 Days Since Spud - Trip in hole - Tag at 6462'. Was and ream 6462' to 6615' TD. (Soft fill) - every 30 feet. - Trip in hole - Drill 6 1/8" hole with brine mud from 6615' to 7242' WOB/5, TGPM 268, TRPM 203 TRPM ROP/40.45. Survey - Log the curve up w/ Weatherford MWD. Pulled at 3 to 6 foot/hr with rig 6615' to 6400'.

Daily Cost: \$0**Cumulative Cost:** \$452,006**GREATER MB 14-36-8-15H****Drill 6 1/8" hole with mud****Date:** 6/26/2010**RECEIVED**

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Capstar #329 at 8018. 9 Days Since Spud - H2S alarm was set off. Shut down and waited for self contained air packs to arrive. Went and checked - at shakers, rig floor and at well head. 0 ppm. Alarm was tripped by getting it wet while they were - scrubbing the rig. - Drill 6 1/8" hole with brine mud from 7242' to 7460' WOB/5,TGPM 268,TRPM 203 TRPM ROP/40.45. - Rig service. Function test BOP and crown-0-matic - every 45' - Circulate - Make a wiper trip up to 5803'. Nothing was encountered on the way out or on the back in. - Circulate and calibrate directional equipment - Drill 6 1/8" hole with brine mud from 7596' to 8018' WOB/5,TGPM 268,TRPM 203 TRPM ROP/40.45.Survey - Drill 6 1/8" hole with brine mud from 7460' to 7596' WOB/5,TGPM 268,TRPM 203 TRPM ROP/40.45.

Daily Cost: \$0

Cumulative Cost: \$499,574

GREATER MB 14-36-8-15H

Drill 6 1/8" hole with mud

Date: 6/27/2010

Capstar #329 at 8489. 10 Days Since Spud - Drill 6 1/8" hole with brine mud from 8018' to 8414' WOB/5-18K,TGPM 268,TRPM 203 TRPM ROP/56 - Rig service. Function test BOP and crown-o-omatic - Circulate - Trip out of hole to 2643'. P/U 2434' of 4" pipe and 500' of 4 1/2" DP to finish drilling. - Trip in hole. Wash and ream 8299' to 8414'. (2' of soft fill) - Drill 6 1/8" hole with brine mud from 8414' to 8489' WOB/5-18K,TGPM 268,TRPM 203 TRPM ROP/30'/hr

Daily Cost: \$0

Cumulative Cost: \$579,829

GREATER MB 14-36-8-15H

Drill 6 1/8" hole with mud

Date: 6/28/2010

Capstar #329 at 9216. 11 Days Since Spud - Drill 6 1/8" hole with brine mud from 8489' to 8740' WOB/5-18K,TGPM 268,TRPM 203 TRPM ROP/50.2'/hr - Replace swivel lock - Re-calibrate directional tools - Drill 6 1/8" hole with brine mud from 8740' to 8943' WOB/5-18K,TGPM 268,TRPM 203 TRPM ROP/31.23'/hr - Rig repair. Replace fuel line. Engine was airing up and dring. - Rig service - Drill 6 1/8" hole with brine mud from 8943' to 9216' WOB/5-18K,TGPM 268,TRPM 203 TRPM ROP/30.3'/hr

Daily Cost: \$0

Cumulative Cost: \$642,111

GREATER MB 14-36-8-15H

Drill 6 1/8" hole with 10#brine mud

Date: 6/29/2010

Capstar #329 at 9889. 12 Days Since Spud - Drill 6 1/8" hole with brine mud from 9315' to 9889' WOB/5-18K,TGPM 268,TRPM 203 TRPM ROP/33.7'/hr - Rig service - Drill 6 1/8" hole with brine mud from 9216' to 9351' WOB/5-18K,TGPM 268,TRPM 203 TRPM ROP/20.76'/hr

Daily Cost: \$0

Cumulative Cost: \$686,029

GREATER MB 14-36-8-15H

Drill 6 1/8" hole with 10#brine mud

Date: 6/30/2010

Capstar #329 at 10700. 13 Days Since Spud - Drill 6 1/8" hole with brine mud from 10257' to 10700' WOB/14-20K,TGPM 268,TRPM 203 TRPM ROP/35'/hr - Rig Service - Drill 6 1/8" hole with brine mud from 9889' to 10257' WOB/5-18K,TGPM 268,TRPM 203 TRPM ROP/35'/hr

Daily Cost: \$0

Cumulative Cost: \$729,591

GREATER MB 14-36-8-15H

Date: 7/1/2010

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TOOH

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Capstar #329 at 11045. 14 Days Since Spud - Spot lubba beads in lateral section of hole. Pump pill for trip. - (about 10108'). After that it came with reasonable over pull. - TOOH from 11045' to 2400'.Had to do some back reaming until we got past the most severe dog legs. - Drill 6 1/8" hole with brine mud from 10700' to 11045' WOB/14-20K,TGPM 268,TRPM 203 TRPM ROP/35'/hr - Condition and circulate.Rotate @ 64rpm.Lay down a jt every bottoms up.

Daily Cost: \$0

Cumulative Cost: \$788,653

GREATER MB 14-36-8-15H

Circulate & Condition Hole

Date: 7/2/2010

Capstar #329 at 11049. 15 Days Since Spud - TOOH - Rig service - Repair Rig (fuel to swivel Motor) - Make up XO's and reamer - TIH and ream. Ream from 9105' to TD. - Condition and circulate. - Lay down tools.Bit was cored.DBR

Daily Cost: \$0

Cumulative Cost: \$832,205

GREATER MB 14-36-8-15H

Circulate & Condition Hole

Date: 7/3/2010

Capstar #329 at 11049. 16 Days Since Spud - Condition and circulate - TIH Good hole condition - Circulate - Rig service - Short trip to bend. TOOH Good hole condition - Circulate and condition - TOOH. Good hole condition.

Daily Cost: \$0

Cumulative Cost: \$856,177

GREATER MB 14-36-8-15H

TIH

Date: 7/4/2010

Capstar #329 at 11049. 17 Days Since Spud - Trip out of hole w/ reamers - Continue to trip in hole. - Fill pipe at 8000' and test tools again - Trip in hole - At 4700' fill pipe and test logging tool with BJ - P/U pipe and strap while tripping in hole to log - Shallow test Weatherford logging tools w/ BJ pump truck. - Hold safety meeting w/ Weatherford and BJ. P/U Memory logging tools - Rig service

Daily Cost: \$0

Cumulative Cost: \$876,223

GREATER MB 14-36-8-15H

Logging

Date: 7/5/2010

Capstar #329 at 11049. 18 Days Since Spud - surface. - Trip out of hole and log well at 15'/hr until 5500'. Then pull out at 65'/hr until tool reached - Rig service - Fill hole w/BJ. Pump spear and open Weatherford Image logging Tool - Rig up Weatherford Wireline logging tools and run in hole to 6387'. Start to log out. - Trip in hole - Rig down Weatherford and lay down Memory tool

Daily Cost: \$0

Cumulative Cost: \$900,969

GREATER MB 14-36-8-15H

TOOH

Date: 7/6/2010

Capstar #329 at 11049. 19 Days Since Spud - Circulate well bore clean and spot luba beads in lateral section of hole. - Trip in hole for clean out run. - Rig down Weatherford Wireline. - Finish logging w Copmensated Photo Density/ Dual Lateral Tripple Combo/Dual Lateral/ Micro Lateral/ - Resistivity Log. F/ 6335 to 4000' 30'/min - Trip out of hole.

Daily Cost: \$0

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Cumulative Cost: \$984,213

GREATER MB 14-36-8-15H

Circulate & Condition Hole

Date: 7/7/2010

Capstar #329 at 11049. 20 Days Since Spud - Finish trip out of hole and retrieve wear bushing - Rig service - R/U and run casing. Install bottom packer on to 4 1/2" 11.6# LTC. - Wait on crossover from 5 1/2" to 4 1/2". - Circulate - Install crossover and run casing set @ 11015'

Daily Cost: \$0

Cumulative Cost: \$1,016,948

GREATER MB 14-36-8-15H

Wait on Completion

Date: 7/8/2010

Capstar #329 at 11049. 21 Days Since Spud - Pump 120 bbls of 3% KCL at 3 bbl/min. Shut down and drop ball, to open packers. Pump - another 196 bbls at 2 to 2.5 bbl/min. Ball hit bottom, pressure up to 2024 psi and wait 5 min. - Pressure up to 2500 psi, wait 5 minutes. Pressure up to 3000 and wait 30 min, Per Packers Plus. - Pressure changes was to open and seat packers. Bleed pressure off. - Nipple down BOP - Set casing slips w/ 132,000# Tension and cut off casing. - Clean mud tanks. Release rig at 4:00 PM. 7/7/2010 - Circulate at 3 bbl/min rig up BJ to displace lateral up to 5680' w/3% KCL fluid. **Finalized**

Daily Cost: \$0

Cumulative Cost: \$1,454,514

Pertinent Files: Go to File List

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