

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. UTU-13905	
6. If Indian, Allottee or Tribe Name NA	
7. If Unit or CA Agreement, Name and No. Lone Tree	
8. Lease Name and Well No. Lone Tree Federal G-22-9-17	
9. API Well No. 43013-34159	
1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER	10. Field and Pool, or Exploratory Monument Butte
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone	11. Sec., T. R. M. or Blk. and Survey or Area Sec. 22, T9S R17E
2. Name of Operator Newfield Production Company	12. County or Parish Duchesne
3a. Address Route #3 Box 3630, Myton UT 84052	13. State UT
3b. Phone No. (include area code) (435) 646-3721	14. Distance in miles and direction from nearest town or post office* Approximately 16.8 miles southeast of Myton, UT
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SW/NW 1829' FNL 724' FWL At proposed prod. zone ^{SE/NW} 1213' FNL 1375' FWL	15. Distance from proposed* location to nearest property or lease line, ft. Approx. 1213' f/lse, 3905' f/unit (Also to nearest drig. unit line, if any)
16. No. of acres in lease 1,200.00	17. Spacing Unit dedicated to this well 20 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1269'	19. Proposed Depth 5,680'
20. BLM/BIA Bond No. on file WYB000493	21. Elevations (Show whether DF, KDB, RI, GL, etc.) 5278' GL
22. Approximate date work will start* 12th Oct. 2009	23. Estimated duration (7) days from SPUD to rig release

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- | | |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature:	Name (Printed/Typed) Mandie Crozier	Date 11/24/08
Title Regulatory Specialist		
Approved by (Signature):	Name (Printed/Typed) BRADLEY G. HILL	Date 12-22-08
Title Office ENVIRONMENTAL MANAGER		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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

(Continued on page 2)

*(Instructions on page 2)

**Federal Approval of this
Action is Necessary**

Surf
585446X
44301134
40.018795
-109.998747

BHL
585642X
44303024
40.026471
109.996423

RECEIVED
DEC 11 2008

DIV. OF OIL, GAS & MINING

NEWFIELD PRODUCTION COMPANY
LONE TREE FEDERAL G-22-9-17
AT SURFACE: SW/NW SECTION 22, T9S, R17E
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	0' – 1155'
Green River	1155'
Wasatch	5680'

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

Green River Formation 1155' – 5680' - Oil

4. PROPOSED CASING PROGRAM

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

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

**NEWFIELD PRODUCTION COMPANY
LONE TREE FEDERAL G-22-9-17
AT SURFACE: SW/NW SECTION 22, T9S, R17E
DUCHESNE COUNTY, UTAH**

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site Lone Tree Federal G-22-9-17 located in the SW 1/4 NW 1/4 Section 22, T9S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles \pm to the junction of this highway and UT State Hwy 53; proceed southeasterly - 11.5 miles \pm to it's junction with an existing dirt road to the southwest; proceed southwesterly - 0.9 miles \pm to it's junction with an existing dirt road to the south; proceed southeasterly - 2.3 miles \pm to it's junction with an existing road to the northeast; proceed northeasterly - 0.7 miles \pm to it's junction with the beginning of the access road to the existing Lone Tree Federal 5-22-9-17 well location.

2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing Lone Tree Federal 5-22-9-17 well pad. See attached Topographic Map "B".

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

The proposed well will be drilled directionally off of the Lone Tree Federal 5-22-9-17 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Lone Tree Federal G-22-9-17. All permanent surface equipment will be painted Carlsbad Canyon.

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

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).

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. **SOURCE OF CONSTRUCTION MATERIALS**

The proposed Lone Tree Federal G-22-9-17 will be drilled off of the existing Lone Tree Federal 5-22-9-17 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

8. **ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management (Proposed location and access roads leading to).

12. **OTHER ADDITIONAL INFORMATION**

Newfield Production Company requests 3530' of disturbed area be granted in Lease UTU-13905 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 and 30' wide upon completion of the proposed water lines. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP. 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. AERC Project #1592, 12/29/97. Paleontological Resource Survey prepared by, Wade E. Miller, 6/29/05. See attached report cover pages, Exhibit "D".

Water Disposal

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), State of Utah approved surface disposal facilities, or Federally approved surface disposal facilities.

Threatened, Endangered, And Other Sensitive Species

None for the proposed Lone Tree Federal G-22-9-17.

Reserve Pit Liner

A 16 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

Location and Reserve Pit Reclamation

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Squirrel Tail	<i>Elymus Elymoides</i>	6 lbs/acre
Siberian Wheatgrass	<i>Agropyron Fragile</i>	2 lbs/acre
Gardner Saltbush	<i>Atriplex Gardneri</i>	1 lbs/acre
Shadscale	<i>Atriplex Confertifolia</i>	1 lbs/acre
Fourwing Saltbush	<i>Atriplex Canescens</i>	1 lbs/acre
Scarlet Globemallow	<i>Sphaeralcea Conccinea</i>	0.20 lbs/acre

Details of the On-Site Inspection

The proposed Lone Tree Federal G-22-9-17 was on-sited on 8/22/08. The following were present; Dave Allred (Newfield Production), Tim Eaton (Newfield Production), Dave Gordon (Bureau of Land Management), and James Herford (Bureau of Land Management). Weather conditions were clear and ground cover was 100% open.

LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

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

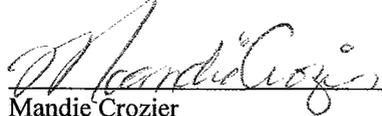
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #G-22-9-17 SW/NW Section 22, Township 9S, Range 17E: Lease UTU-13905 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, Federal Bond #WYB000493.

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 18 U.S.C. 1001 for the filing of a false statement.

11/22/08

Date

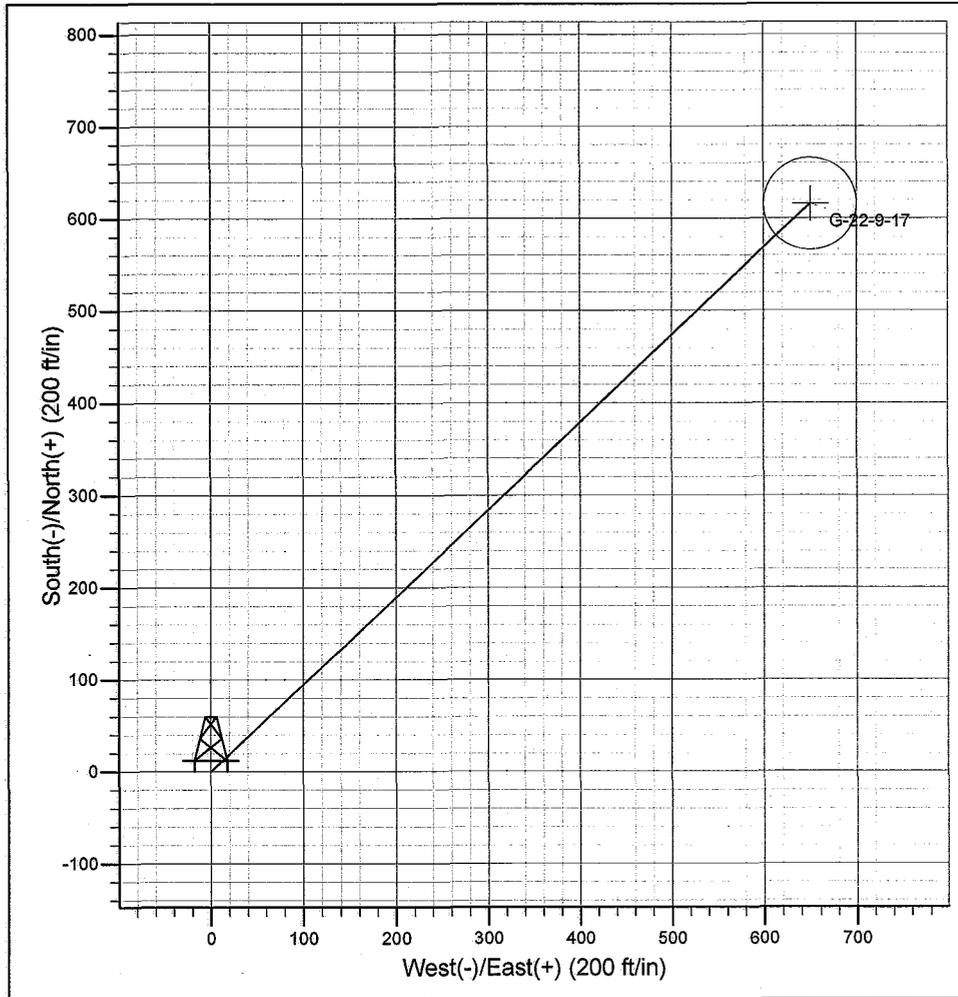
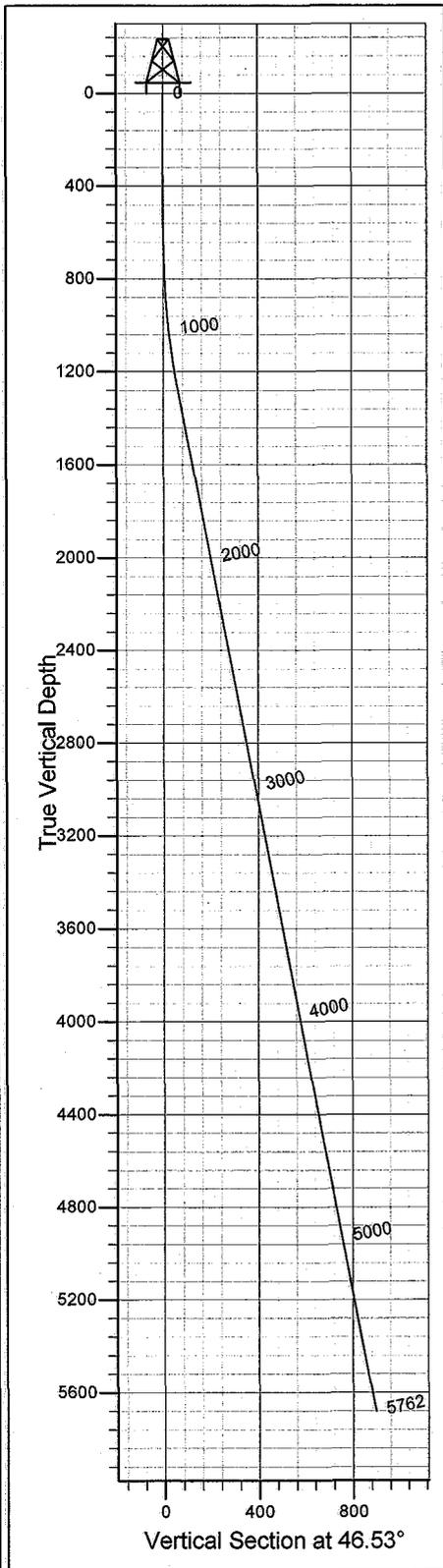

Mandie Crozier
Regulatory Specialist
Newfield Production Company

NEWFIELD



Newfield Production Company

Project: Monument Butte
Site: Lone Tree G-22-9-17
Well: Lone Tree G-22-9-17
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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1315.9	10.74	46.53	1311.7	46.0	48.5	1.50	46.53	66.9	
4	5762.0	10.74	46.53	5680.0	616.0	649.7	0.00	0.00	895.3	G-22-9-17

PROJECT DETAILS: Monument Butte
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Utah Central Zone
 System Datum: Mean Sea Level

Azimuths to True North
 Magnetic North: 11.60°
 Magnetic Field
 Strength: 52547.2snT
 Dip Angle: 65.86°
 Date: 11/21/2008
 Model: IGRF200510

Created by: **Hans Wychgram**
 Date: **11-20-2008**

Database: EDM 2003.21 Single User Db
Company: Newfield Production Company
Project: Monument Butte
Site: Lone Tree G-22-9-17
Well: Lone Tree G-22-9-17
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Lone Tree G-22-9-17
TVD Reference: RKB @ 5290.0ft (NDSI #2)
MD Reference: RKB @ 5290.0ft (NDSI #2)
North Reference: True
Survey Calculation Method: Minimum Curvature

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

Site	Lone Tree G-22-9-17				
Site Position:		Northing:	2,188,178.95 m	Latitude:	40° 1' 7.230 N
From:	Lat/Long	Easting:	628,072.67 m	Longitude:	109° 59' 58.520 W
Position Uncertainty:	0.0 ft	Slot Radius:	in	Grid Convergence:	0.96 °

Well	Lone Tree G-22-9-17					
Well Position	+N/-S	0.0 ft	Northing:	2,188,178.95 m	Latitude:	40° 1' 7.230 N
	+E/-W	0.0 ft	Easting:	628,072.67 m	Longitude:	109° 59' 58.520 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,278.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/21/2008	11.60	65.86	52,547

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	46.53

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,315.9	10.74	46.53	1,311.7	46.0	48.5	1.50	1.50	0.00	46.53	
5,762.0	10.74	46.53	5,680.0	616.0	649.7	0.00	0.00	0.00	0.00	G-22-9-17



Database: EDM 2003.21 Single User Db
Company: Newfield Production Company
Project: Monument Butte
Site: Lone Tree G-22-9-17
Well: Lone Tree G-22-9-17
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Local Co-ordinate Reference: Well Lone Tree G-22-9-17
TVD Reference: RKB @ 5290.0ft (NDSI #2)
MD Reference: RKB @ 5290.0ft (NDSI #2)
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	1.50	46.53	700.0	0.9	0.9	1.3	1.50	1.50	0.00
800.0	3.00	46.53	799.9	3.6	3.8	5.2	1.50	1.50	0.00
900.0	4.50	46.53	899.7	8.1	8.5	11.8	1.50	1.50	0.00
1,000.0	6.00	46.53	999.3	14.4	15.2	20.9	1.50	1.50	0.00
1,100.0	7.50	46.53	1,098.6	22.5	23.7	32.7	1.50	1.50	0.00
1,200.0	9.00	46.53	1,197.5	32.4	34.1	47.0	1.50	1.50	0.00
1,300.0	10.50	46.53	1,296.1	44.0	46.4	64.0	1.50	1.50	0.00
1,315.9	10.74	46.53	1,311.7	46.0	48.5	66.9	1.50	1.50	0.00
1,400.0	10.74	46.53	1,394.3	56.8	59.9	82.6	0.00	0.00	0.00
1,500.0	10.74	46.53	1,492.6	69.6	73.4	101.2	0.00	0.00	0.00
1,600.0	10.74	46.53	1,590.8	82.4	87.0	119.8	0.00	0.00	0.00
1,700.0	10.74	46.53	1,689.1	95.3	100.5	138.5	0.00	0.00	0.00
1,800.0	10.74	46.53	1,787.3	108.1	114.0	157.1	0.00	0.00	0.00
1,900.0	10.74	46.53	1,885.6	120.9	127.5	175.7	0.00	0.00	0.00
2,000.0	10.74	46.53	1,983.8	133.7	141.0	194.4	0.00	0.00	0.00
2,100.0	10.74	46.53	2,082.1	146.5	154.6	213.0	0.00	0.00	0.00
2,200.0	10.74	46.53	2,180.3	159.4	168.1	231.6	0.00	0.00	0.00
2,300.0	10.74	46.53	2,278.6	172.2	181.6	250.3	0.00	0.00	0.00
2,400.0	10.74	46.53	2,376.8	185.0	195.1	268.9	0.00	0.00	0.00
2,500.0	10.74	46.53	2,475.1	197.8	208.7	287.5	0.00	0.00	0.00
2,600.0	10.74	46.53	2,573.3	210.6	222.2	306.2	0.00	0.00	0.00
2,700.0	10.74	46.53	2,671.6	223.5	235.7	324.8	0.00	0.00	0.00
2,800.0	10.74	46.53	2,769.8	236.3	249.2	343.4	0.00	0.00	0.00
2,900.0	10.74	46.53	2,868.1	249.1	262.7	362.1	0.00	0.00	0.00
3,000.0	10.74	46.53	2,966.3	261.9	276.3	380.7	0.00	0.00	0.00
3,100.0	10.74	46.53	3,064.6	274.7	289.8	399.3	0.00	0.00	0.00
3,200.0	10.74	46.53	3,162.8	287.6	303.3	418.0	0.00	0.00	0.00
3,300.0	10.74	46.53	3,261.1	300.4	316.8	436.6	0.00	0.00	0.00
3,400.0	10.74	46.53	3,359.3	313.2	330.3	455.2	0.00	0.00	0.00
3,500.0	10.74	46.53	3,457.6	326.0	343.9	473.8	0.00	0.00	0.00
3,600.0	10.74	46.53	3,555.8	338.8	357.4	492.5	0.00	0.00	0.00
3,700.0	10.74	46.53	3,654.1	351.7	370.9	511.1	0.00	0.00	0.00
3,800.0	10.74	46.53	3,752.3	364.5	384.4	529.7	0.00	0.00	0.00
3,900.0	10.74	46.53	3,850.6	377.3	398.0	548.4	0.00	0.00	0.00
4,000.0	10.74	46.53	3,948.8	390.1	411.5	567.0	0.00	0.00	0.00
4,100.0	10.74	46.53	4,047.1	402.9	425.0	585.6	0.00	0.00	0.00
4,200.0	10.74	46.53	4,145.3	415.8	438.5	604.3	0.00	0.00	0.00
4,300.0	10.74	46.53	4,243.6	428.6	452.0	622.9	0.00	0.00	0.00
4,400.0	10.74	46.53	4,341.8	441.4	465.6	641.5	0.00	0.00	0.00
4,500.0	10.74	46.53	4,440.1	454.2	479.1	660.2	0.00	0.00	0.00
4,600.0	10.74	46.53	4,538.3	467.0	492.6	678.8	0.00	0.00	0.00
4,700.0	10.74	46.53	4,636.6	479.8	506.1	697.4	0.00	0.00	0.00
4,800.0	10.74	46.53	4,734.8	492.7	519.7	716.1	0.00	0.00	0.00
4,900.0	10.74	46.53	4,833.1	505.5	533.2	734.7	0.00	0.00	0.00
5,000.0	10.74	46.53	4,931.3	518.3	546.7	753.3	0.00	0.00	0.00
5,100.0	10.74	46.53	5,029.5	531.1	560.2	772.0	0.00	0.00	0.00
5,200.0	10.74	46.53	5,127.8	543.9	573.7	790.6	0.00	0.00	0.00



Database: EDM 2003.21 Single User Db
Company: Newfield Production Company
Project: Monument Butte
Site: Lone Tree G-22-9-17
Well: Lone Tree G-22-9-17
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Lone Tree G-22-9-17
TVD Reference: RKB @ 5290.0ft (NDSI #2)
MD Reference: RKB @ 5290.0ft (NDSI #2)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	10.74	46.53	5,226.0	556.8	587.3	809.2	0.00	0.00	0.00
5,400.0	10.74	46.53	5,324.3	569.6	600.8	827.9	0.00	0.00	0.00
5,500.0	10.74	46.53	5,422.5	582.4	614.3	846.5	0.00	0.00	0.00
5,600.0	10.74	46.53	5,520.8	595.2	627.8	865.1	0.00	0.00	0.00
5,700.0	10.74	46.53	5,619.0	608.0	641.4	883.8	0.00	0.00	0.00
5,762.0	10.74	46.53	5,680.0	616.0	649.7	895.3	0.00	0.00	0.00

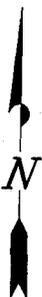
NEWFIELD PRODUCTION COMPANY

WELL PAD INTERFERENCE PLAT

LONE TREE G-22-9-17 (Proposed Well)

LONE TREE 5-22-9-17 (Existing Well)

Pad Location: SWNW Section 22, T9S, R17E, S.L.B.&M.



Existing Road

Existing Road

TOP HOLE FOOTAGES

G-22-9-17 (PROPOSED)
1829' FNL & 724' FWL

Future Pit

(To Bottom Hole)
N46°33'25"E - 895.33'

Existing Tanks

Boiler

Pump Jack

S88°50'17"W

5-22-9-17 (EXISTING)

G-22-9-17 (PROPOSED)

Existing Anchor (Typ.)

Existing Stock Pile

Existing Access

BOTTOM HOLE FOOTAGES

G-22-9-17 (PROPOSED)
1213' FNL & 1375' FWL

Edge of Existing Pad

Existing Stock Pile

Note:

Bearings are based on GLO Information.

RELATIVE COORDINATES From top hole to bottom hole

WELL	NORTH	EAST
G-22-9-17	616'	650'

LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
G-22-9-17	40° 01' 07.23"	109° 59' 58.52"
5-22-9-17	40° 01' 07.37"	109° 59' 58.72"

SURVEYED BY: T.C.	DATE SURVEYED: 10-10-08
DRAWN BY: F.T.M.	DATE DRAWN: 10-14-08
SCALE: 1" = 50'	REVISED:

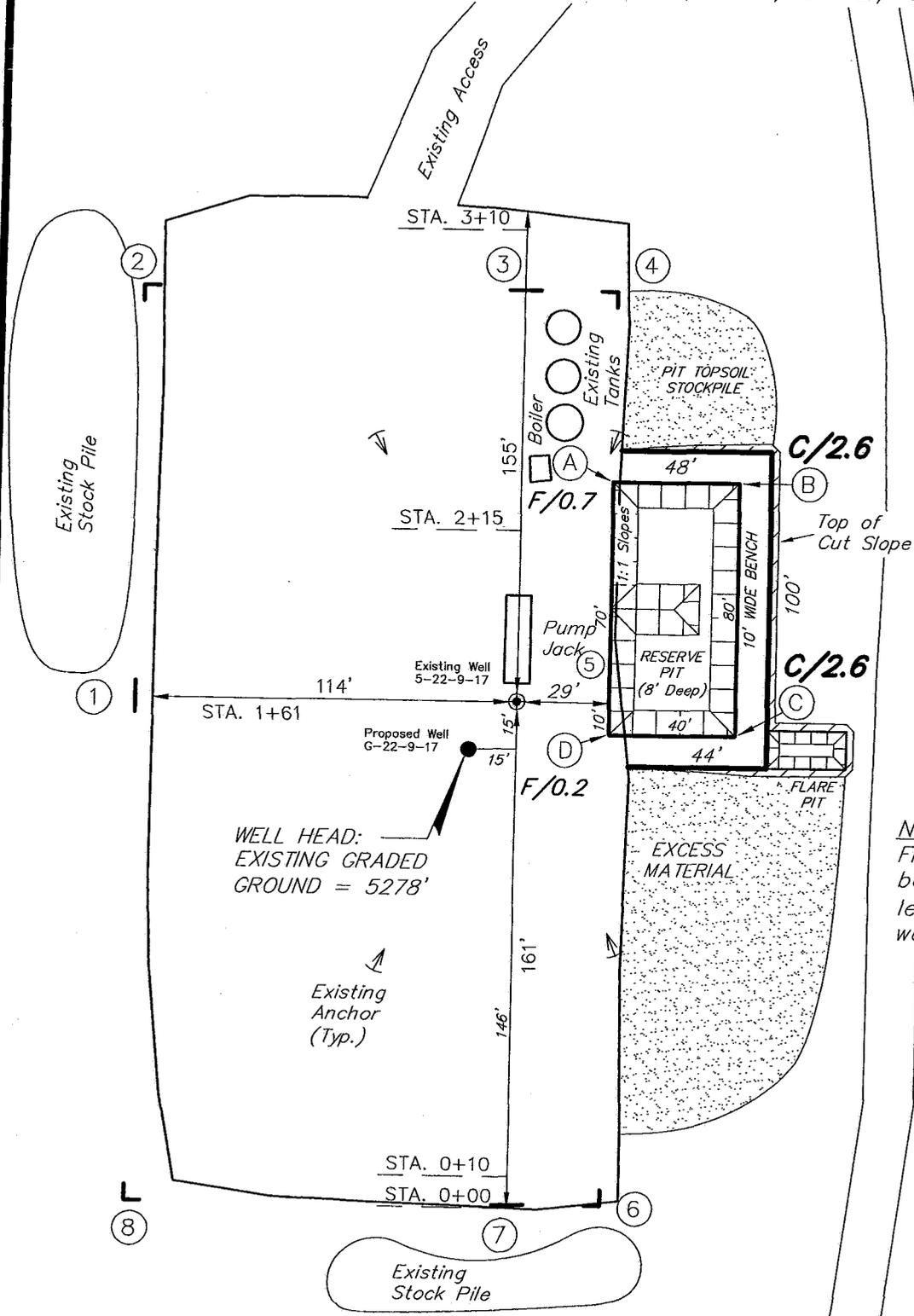
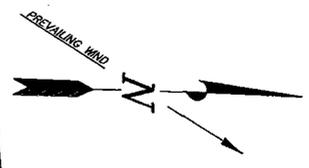
Tri State
Land Surveying, Inc. (435) 781-2501
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD PRODUCTION COMPANY

LONE TREE G-22-9-17 (Proposed Well)

LONE TREE 5-22-9-17 (Existing Well)

Pad Location: SWNW Section 22, T9S, R17E, S.L.B.&M.



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

SURVEYED BY: T.C.	DATE SURVEYED: 10-13-08
DRAWN BY: F.T.M.	DATE DRAWN: 10-15-08
SCALE: 1" = 50'	REVISED:

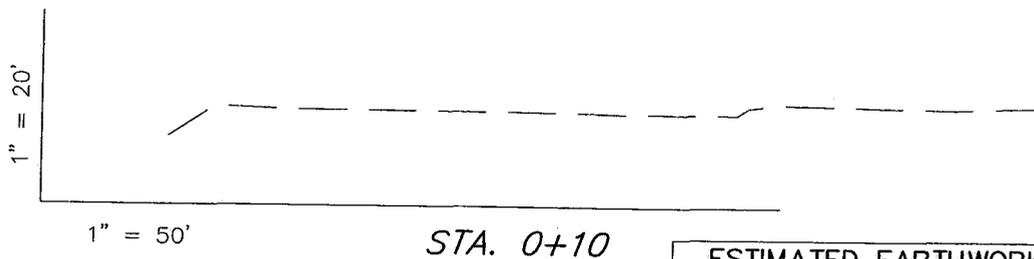
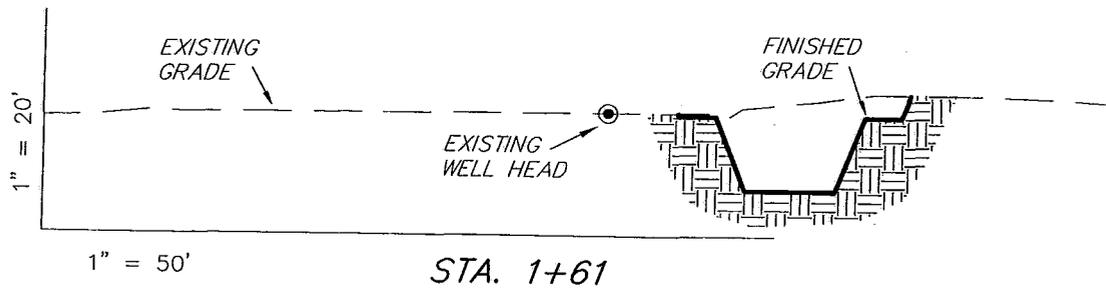
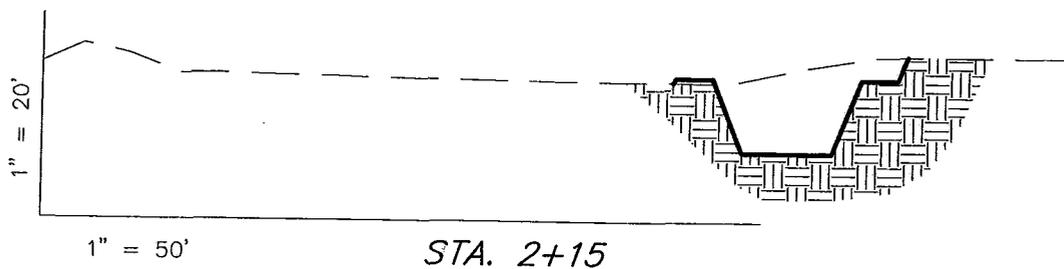
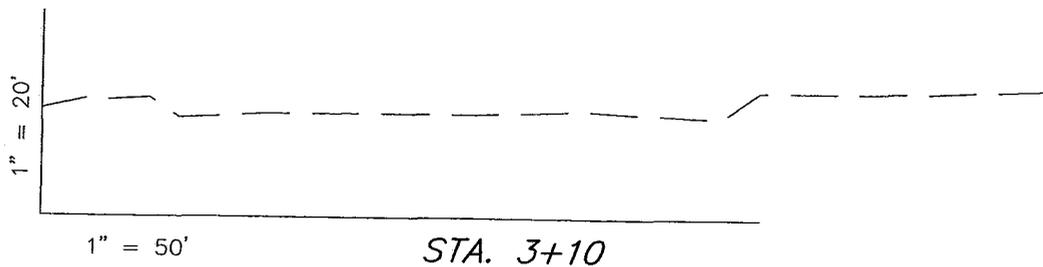
Tri State
Land Surveying, Inc. (435) 781-2501
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD PRODUCTION COMPANY

CROSS SECTIONS

LONE TREE G-22-9-17 (Proposed Well)

LONE TREE 5-22-9-17 (Existing Well)



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

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	290	10	Topsoil is not included in Pad Cut	280
PIT	640	0		640
TOTALS	930	10	130	920

SURVEYED BY: T.C.	DATE SURVEYED: 10-13-08
DRAWN BY: F.T.M.	DATE DRAWN: 10-15-08
SCALE: 1" = 50'	REVISED:

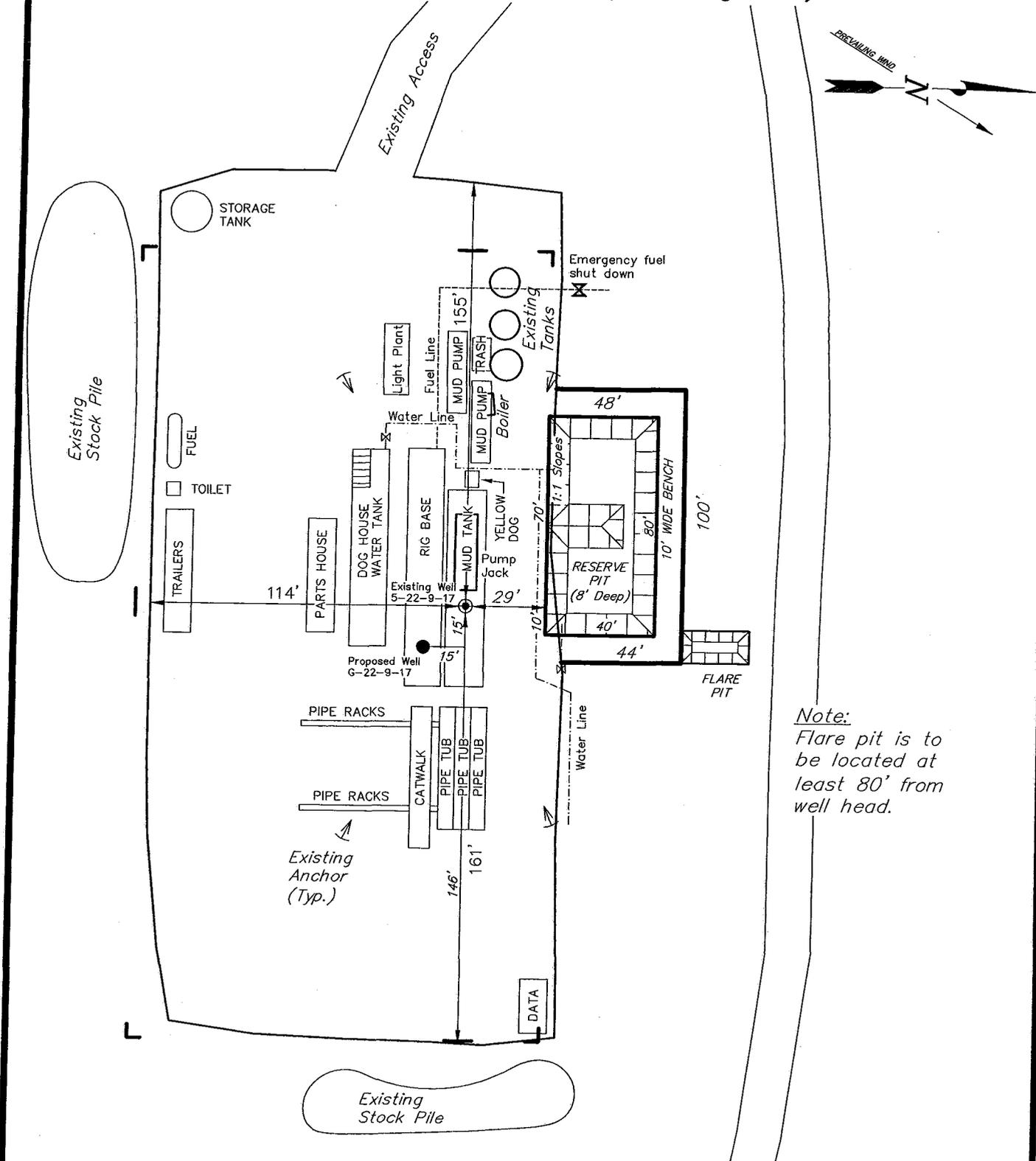
Tri State (435) 781-2501
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD PRODUCTION COMPANY

TYPICAL RIG LAYOUT

LONE TREE G-22-9-17 (Proposed Well)

LONE TREE 5-22-9-17 (Existing Well)



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

SURVEYED BY: T.C.	DATE SURVEYED: 10-13-08
DRAWN BY: F.T.M.	DATE DRAWN: 10-15-08
SCALE: 1" = 50'	REVISED:

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

Oilfield Production Comparison Proposed Site Facility Diagram

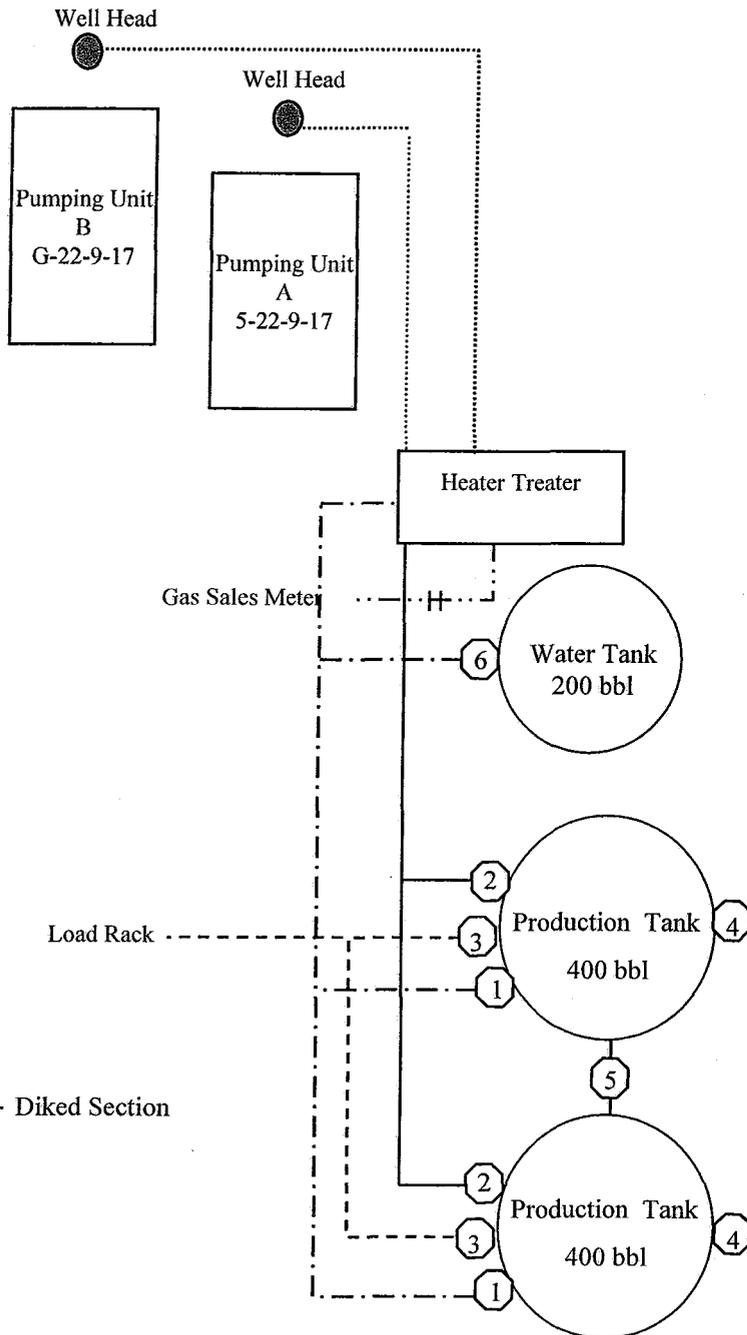
Lone Tree Federal G-22-9-17

From the 5-22-9-17 Location

SW/NW Sec. 22 T9S, R17E

Duchesne County, Utah

UTU-13905



Site Security Plan is held at the Pleasant Valley Office, Duchesne County, Utah

Production Phase:

- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5, and 6 sealed open

Sales Phase:

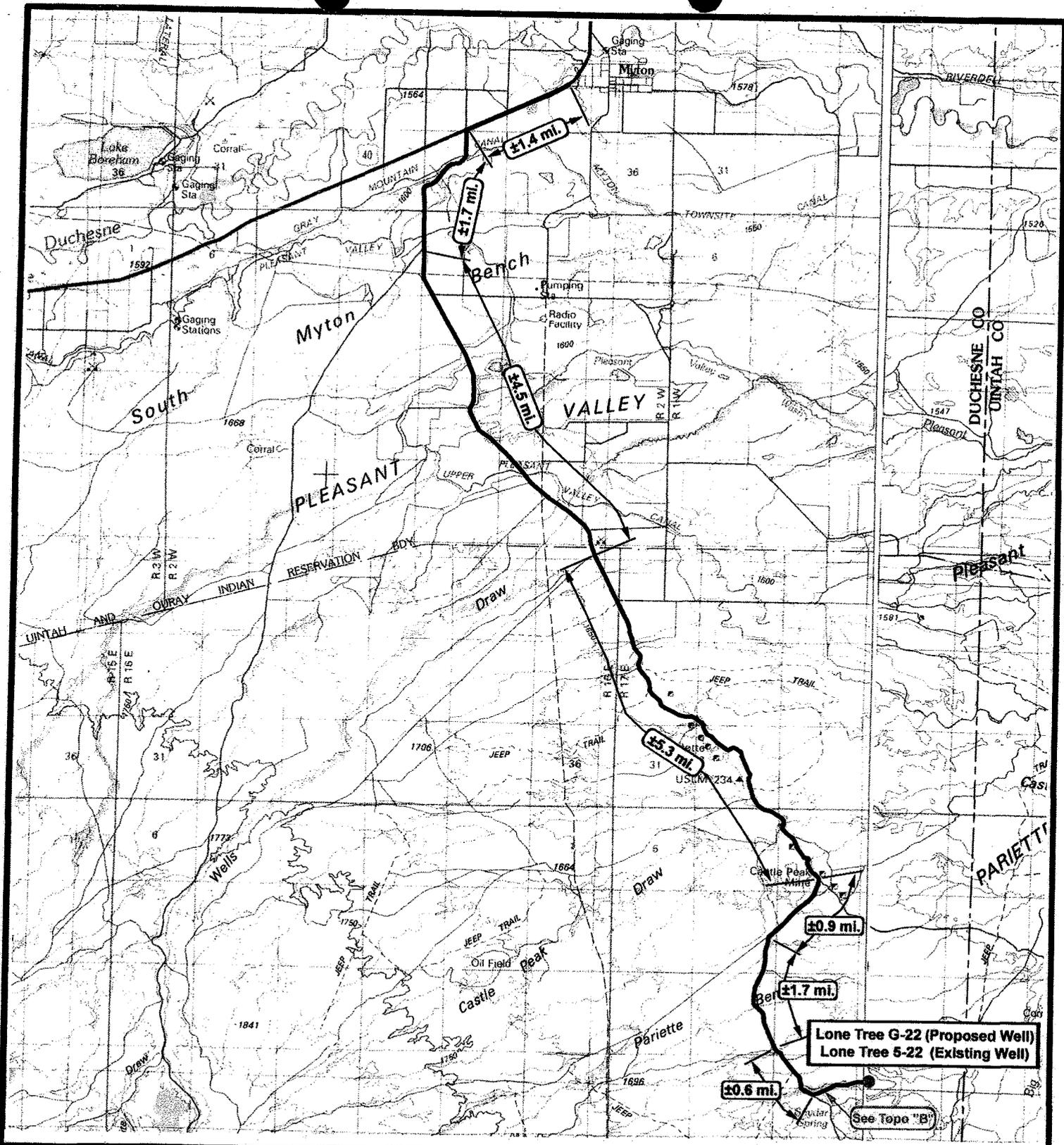
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

Draining Phase:

- 1) Valves 1 and 6 open

Legend

Emulsion Line
Load Rack	-----
Water Line	- . - . - .
Gas Sales	- . - . - . - .
Oil Line	—————



Lone Tree G-22 (Proposed Well)
 Lone Tree 5-22 (Existing Well)

See Topo "B"

NEWFIELD
 Exploration Company

Lone Tree G-22-9-17 (Proposed Well)
Lone Tree 5-22-9-17 (Existing Well)
 Pad Location: SWNW SEC. 9, T9S, R17E, S.L.B.&M.



Tri-State
 Land Surveying Inc.

(435) 781-2501
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000
 DRAWN BY: JAS
 DATE: 10-17-2008

Legend

- Existing Road
- Proposed Access

TOPOGRAPHIC MAP
"A"

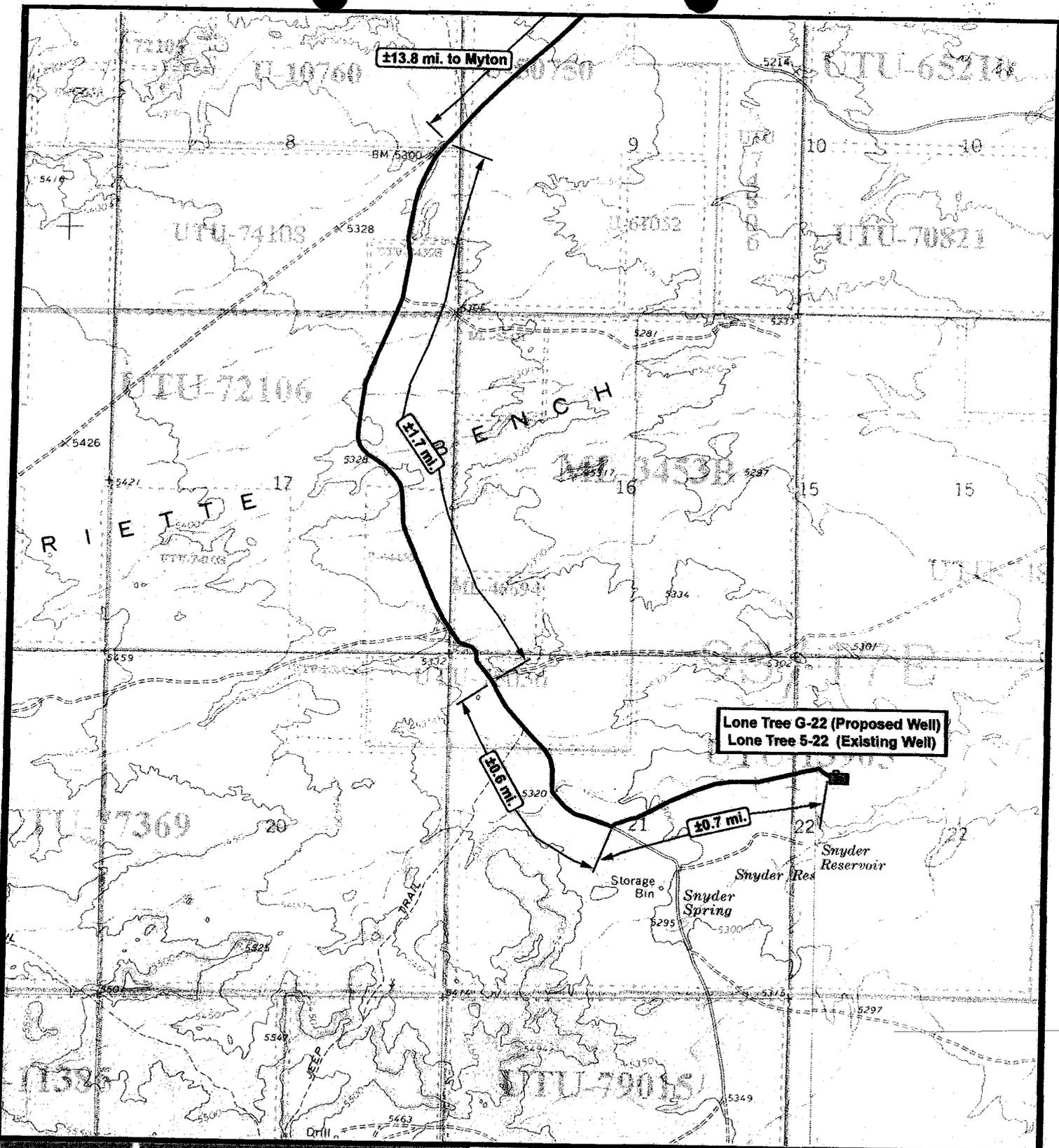
±13.8 mi. to Myton

±17.0 mi.

±10.6 mi.

±0.7 mi.

Lone Tree G-22 (Proposed Well)
Lone Tree 5-22 (Existing Well)



NEWFIELD
Exploration Company

Lone Tree G-22-9-17 (Proposed Well)
Lone Tree 5-22-9-17 (Existing Well)
 Pad Location: SWNW SEC. 9, T9S, R17E, S.L.B.&M.



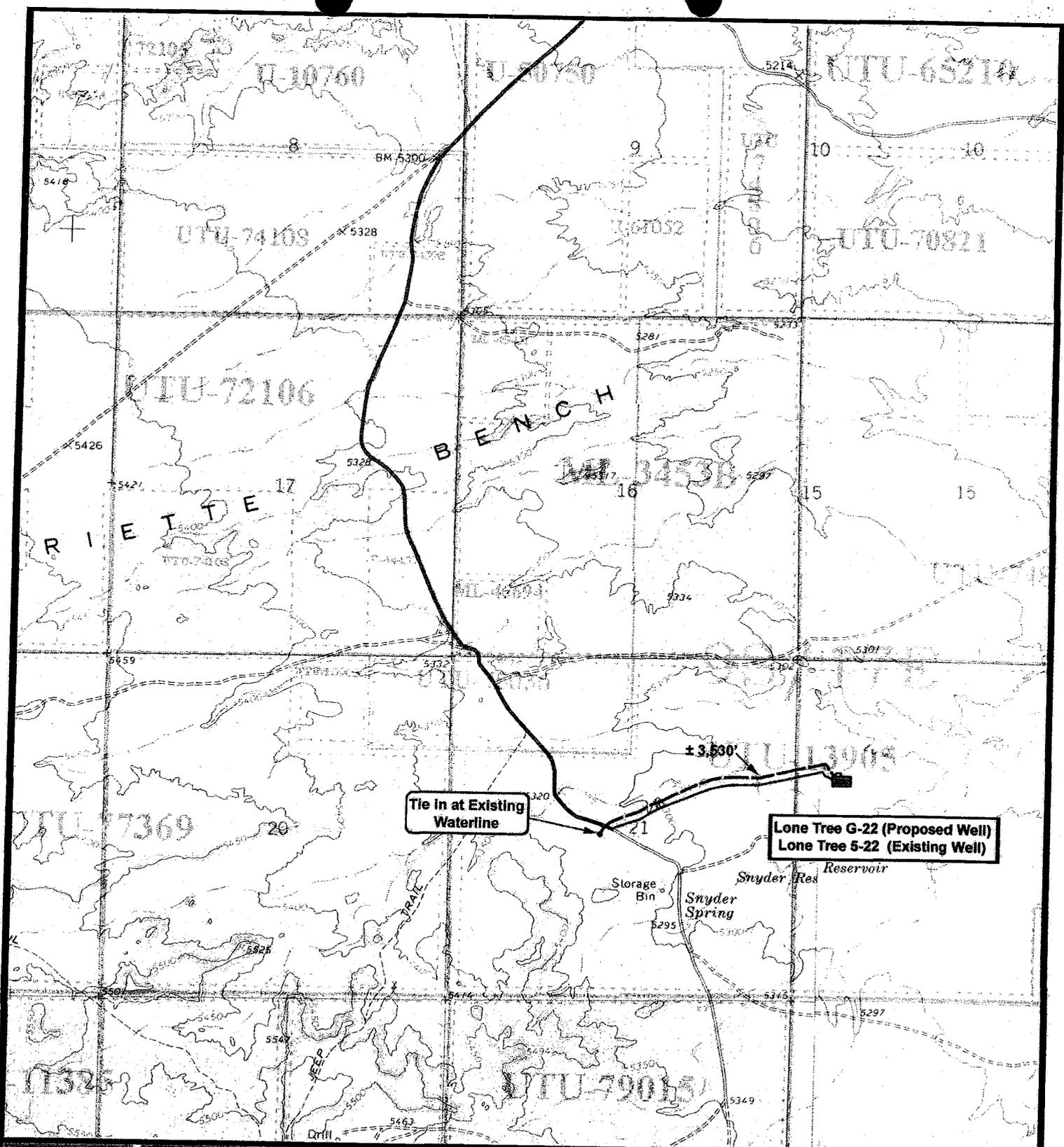
Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'
 DRAWN BY: JAS
 DATE: 10-17-2008

Legend
 Existing Road
 Proposed Access

TOPOGRAPHIC MAP

"B"



Lone Tree G-22-9-17 (Proposed Well)
Lone Tree 5-22-9-17 (Existing Well)
 Pad Location: SWNW SEC. 9, T9S, R17E, S.L.B.&M.



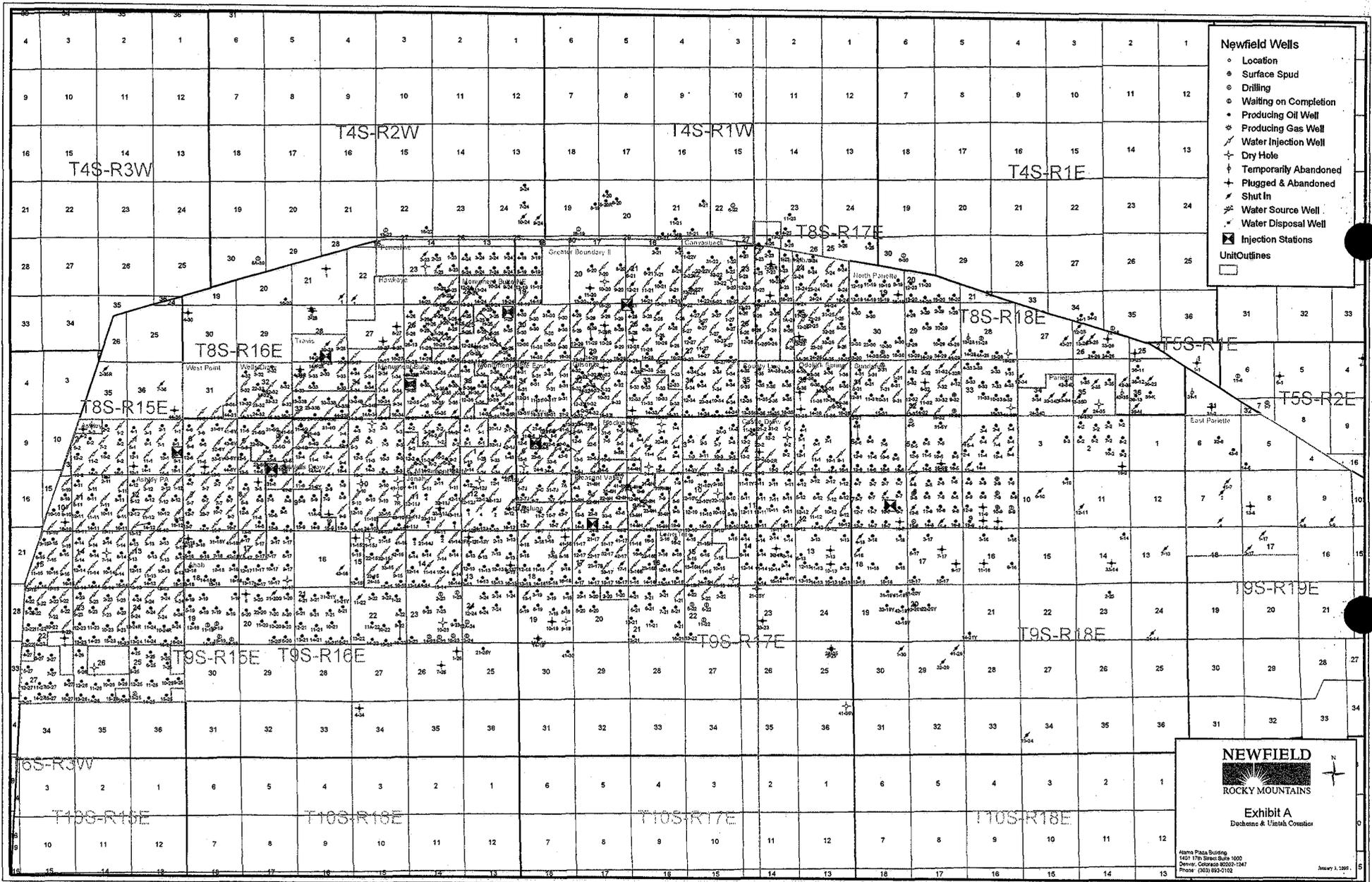
Tri-State
Land Surveying Inc.
 (435) 781-2501
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'
 DRAWN BY: JAS
 DATE: 10-17-2008

Legend

- Roads
- Proposed Gas Line
- Proposed Water Line

TOPOGRAPHIC MAP
"C"



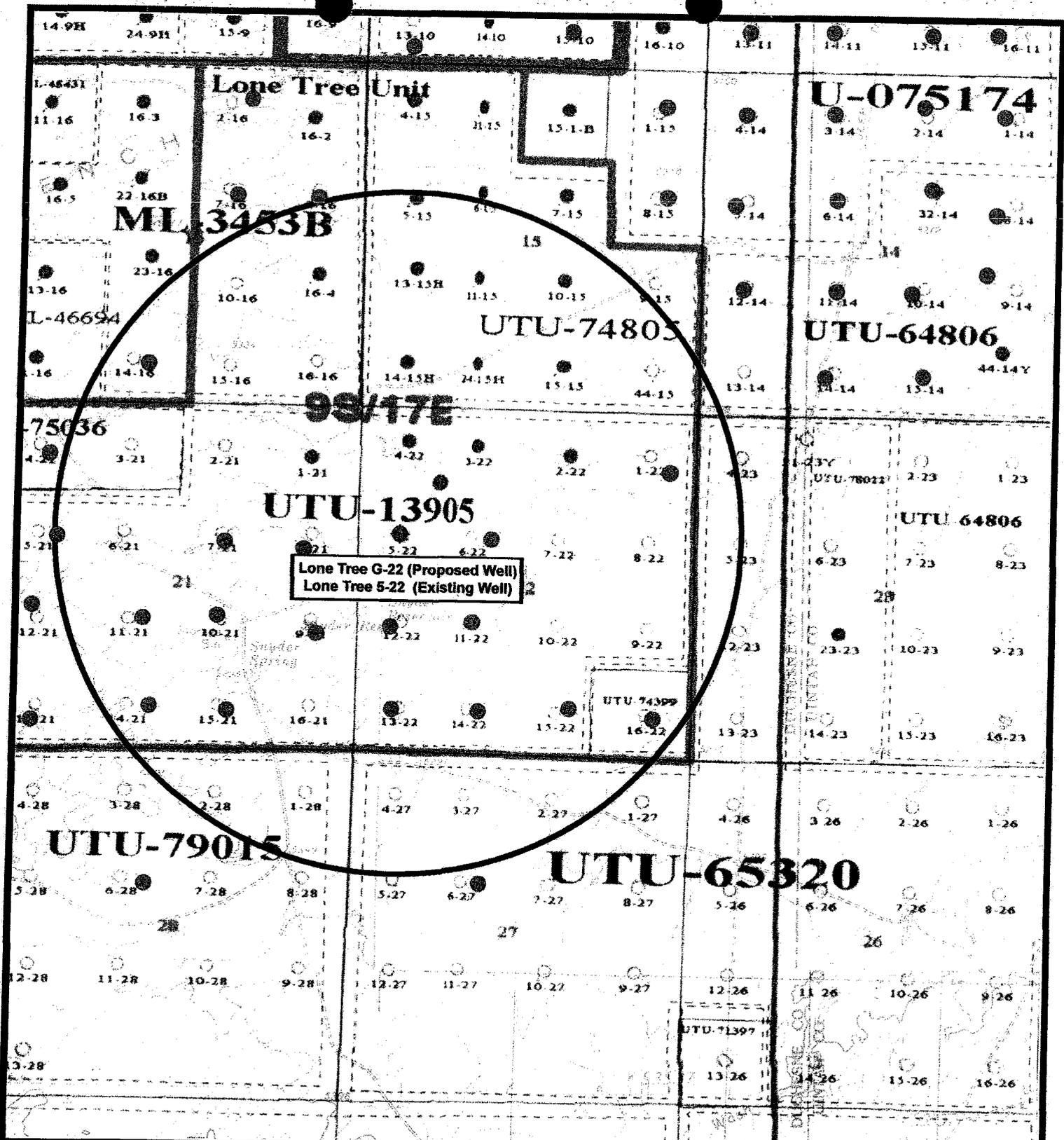
- Newfield Wells**
- Location
 - Surface Spud
 - Drilling
 - Waiting on Completion
 - Producing Oil Well
 - Producing Gas Well
 - Water Injection Well
 - Dry Hole
 - Temporarily Abandoned
 - Plugged & Abandoned
 - Shut In
 - Water Source Well
 - Water Disposal Well
 - ⊠ Injection Stations
- Unit Outlines**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

NEWFIELD
 ROCKY MOUNTAINS

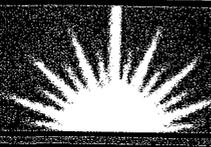
Exhibit A
 Dechene & Uintah Counties

Alamo Plaza Building
 1607 17th Street Suite 1000
 Denver, Colorado 80202-1247
 Phone: (303) 854-0100

January 1, 1995



Lone Tree G-22 (Proposed Well)
 Lone Tree 5-22 (Existing Well)



NEWFIELD
 Exploration Company

Lone Tree G-22-9-17 (Proposed Well)
Lone Tree 5-22-9-17 (Existing Well)
 Pad Location: SWNW SEC. 9, T9S, R17E, S.L.B.&M.



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

SCALE: 1" = 2,000'
 DRAWN BY: JAS
 DATE: 10-17-2008

Legend

- Location
- One-Mile Radius

Exhibit "B"

2-M SYSTEM
Blowout Prevention Equipment Systems

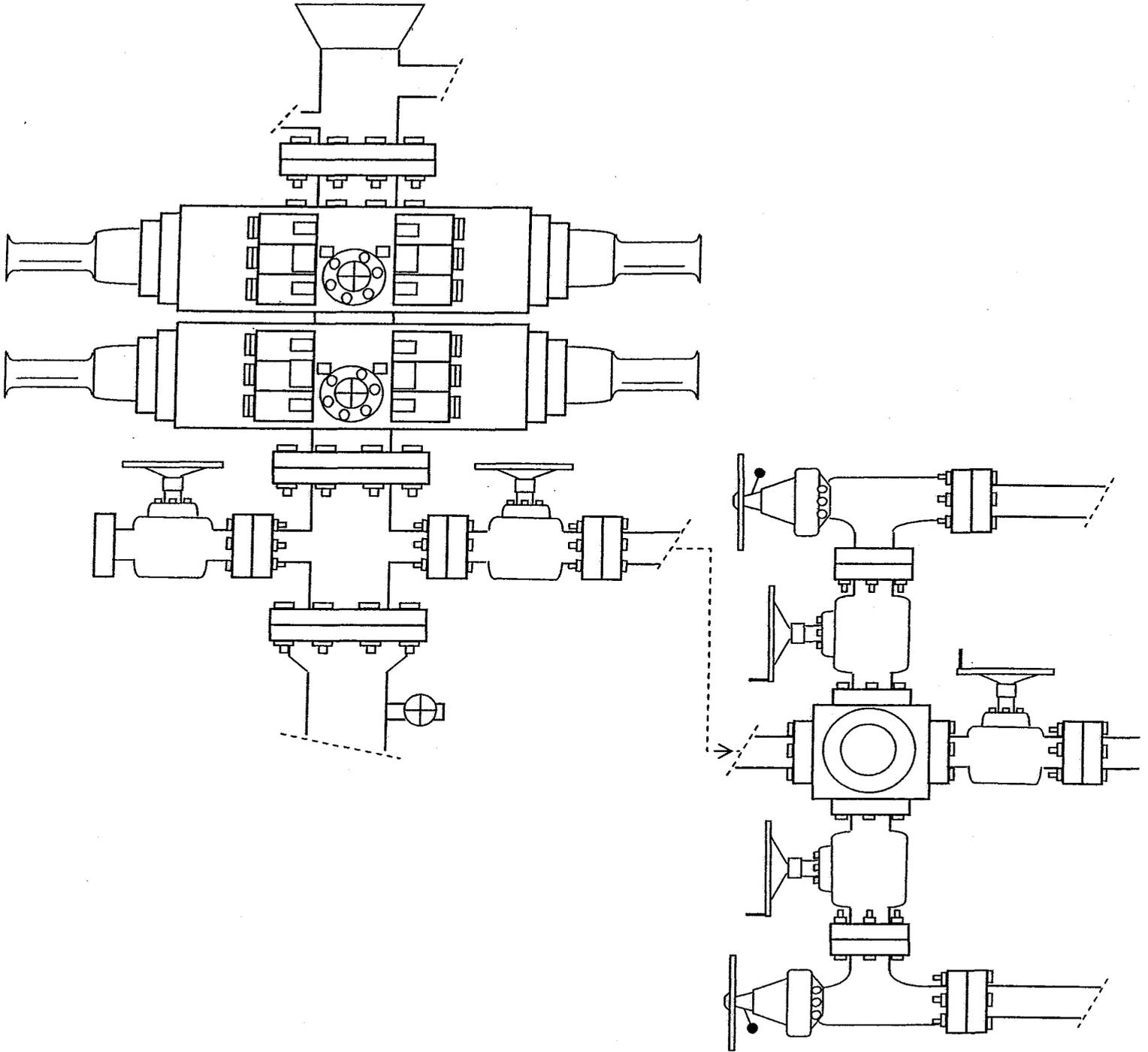


EXHIBIT C

Exhibit "D" program
1 of 2 1999cd

CULTURAL RESOURCE EVALUATION OF THE ASHLEY UNIT, SOUTH WELLS DRAW UNIT & SOUTH PLEASANT VALLEY UNIT LEASE AREAS IN THE WELLS DRAW & PLEASANT VALLEY LOCALITIES IN DUCHESNE COUNTY, UTAH

Report Prepared for Inland Production Company

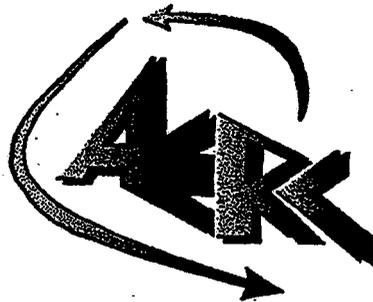
Department of Interior Permit No.: UT-97-54937

Utah State Project No.: UT-97-AF-0722b,s

AERC Project 1592 (IPC-97-5A)

Authors of the Report:

F. Richard Hauck & Glade Hadden



ARCHEOLOGICAL-ENVIRONMENTAL RESEARCH CORPORATION

181 North 200 West, Suite 5 -- Bountiful, Utah 84010

P.O. Box 853, Bountiful, Utah 84011

Phone: (801) 292-7061, 292-9668

Fax: (801) 292-0614

ari@xmission.com

December 29, 1997

07 217

252

NEWFIELD PRODUCTION COMPANY

**PALEONTOLOGICAL FIELD SURVEY OF PROPOSED
PRODUCTION DEVELOPMENT AREAS,
DUCHESNE COUNTY, UTAH**

Section 22, T 9 S, R 17 E [entire section excluding the NW 1/4, NE 1/4;
NE 1/4 and NW 1/4, NW 1/4]; NE 1/4, Section 9, T 9 S, R 16 E;
NE 1/4, NE 1/4, Section 10, T 9 S, R 17 E

REPORT OF SURVEY

Prepared for:

Newfield Production Company

Prepared by:

Wade E. Miller
Consulting Paleontologist
June 29, 2005

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 12/11/2008

API NO. ASSIGNED: 43-013-34159

WELL NAME: LONE TREE FED G-22-9-17
 OPERATOR: NEWFIELD PRODUCTION (N2695)
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SWNW 22 090S 170E
 SURFACE: 1829 FNL 0724 FWL
 BOTTOM: 1213 FNL 1375 FWL
 COUNTY: DUCHESNE
 LATITUDE: 40.01880 LONGITUDE: -109.9988
 UTM SURF EASTINGS: 585446 NORTHINGS: 4430113
 FIELD NAME: MONUMENT BUTTE (105)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal
 LEASE NUMBER: UTU-13905
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]
(No. WYB000493)
- N Potash (Y/N)
- N Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 43-7478)
- N RDCC Review (Y/N)
(Date: _____)
- N/A Fee Surf Agreement (Y/N)
- N/A Intent to Commingle (Y/N)

LOCATION AND SITING:

- ___ R649-2-3.
- Unit: LONE TREE (GRRV)
- ___ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- ___ R649-3-3. Exception
- Drilling Unit
Board Cause No: 2285
Eff Date: 8-26-1998
Siting: Suspend General Siting
- R649-3-11. Directional Drill

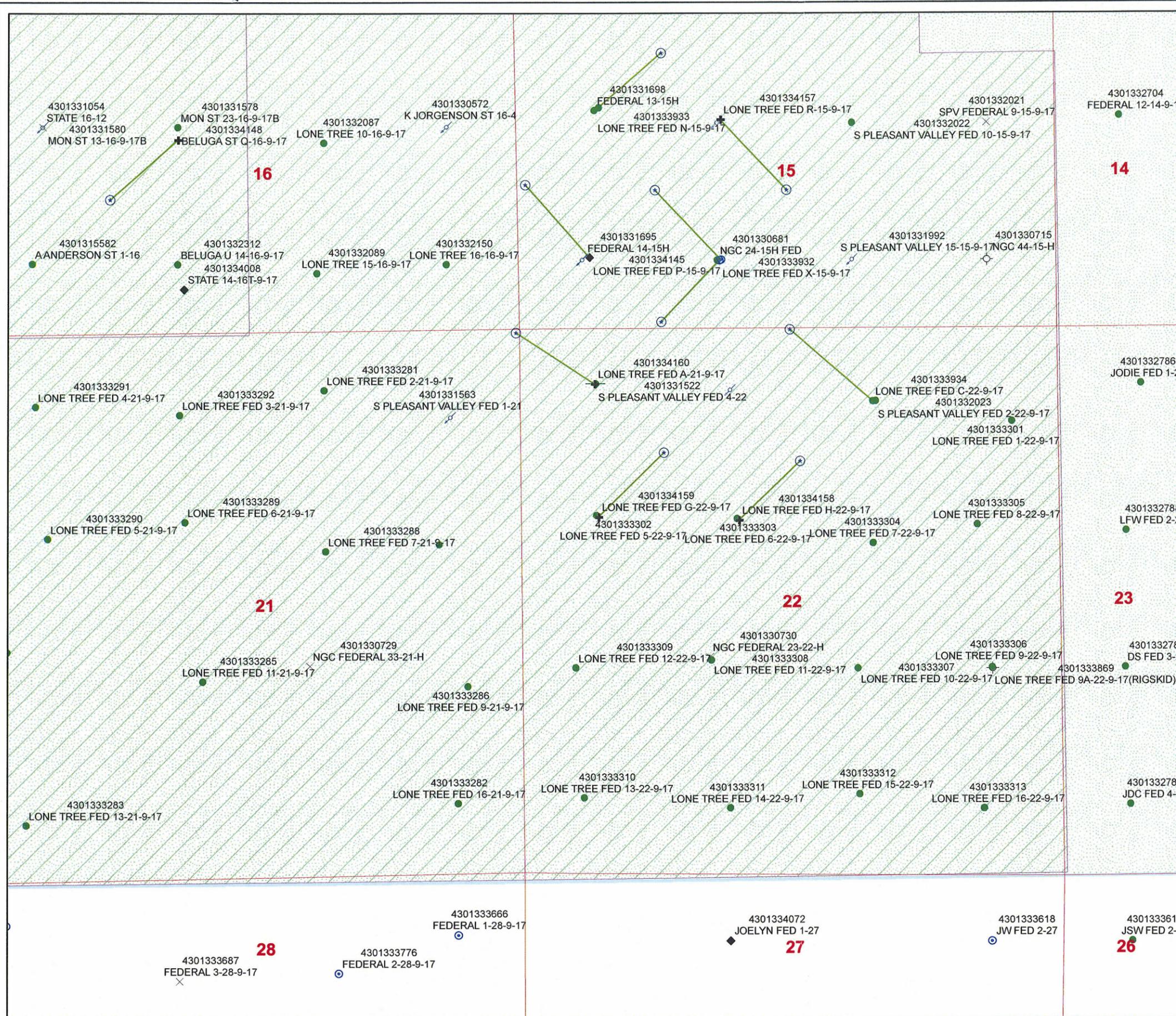
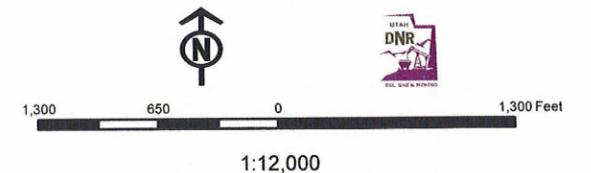
COMMENTS: Sep. Separate file

STIPULATIONS: 1- Fed. Appr. (Signature)

API Number: 4301334159
Well Name: LONE TREE FED G-22-9-17
Township 09.0 S Range 17.0 E Section 22
Meridian: SLBM
Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
 Map Produced by Diana Mason

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





December 9, 2008

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

RE: Directional Drilling
Lone Tree Federal G-22-9-17
Lone Tree Unit
UTU-77236X
Surface Hole: T9S R17E, Section 22: SWNW
1829' FNL 724' FWL
Bottom Hole: T9S R17E, Section 22
1213' FNL 1375' FWL
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated November 24, 2008, a copy of which is attached, for the above referenced well, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole location and bottom hole location of this well are both within the boundaries of the Lone Tree Unit UTU-77236X. Newfield certifies that it is the Lone Tree Unit Operator and all lands within 460 feet of the entire directional well bore are within the Lone Tree Unit.

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

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at reveland@newfield.com. Your consideration of this matter is greatly appreciated.

Sincerely,
NEWFIELD PRODUCTION COMPANY

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

Roxann Eveland
Land Associate

RECEIVED

DEC 15 2008

DIV. OF OIL, GAS & MINING

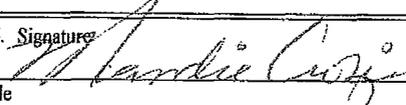
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. UTU-13905	
6. If Indian, Allottee or Tribe Name NA	
7. If Unit or CA Agreement, Name and No. Lone Tree	
8. Lease Name and Well No. Lone Tree Federal G-22-9-17	
9. API Well No.	
10. Field and Pool, or Exploratory Monument Butte	11. Sec., T. R. M. or Blk. and Survey or Area Sec. 22, T9S R17E
12. County or Parish Duchesne	13. State UT
14. Distance in miles and direction from nearest town or post office* Approximately 16.8 miles southeast of Myton, UT	15. Distance from proposed* location to nearest property or lease line, ft. Approx. 1213' f/lease, 3905' f/unit (Also to nearest drig, unit line, if any)
16. No. of acres in lease 1,200.00	17. Spacing Unit dedicated to this well 20 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1269'	19. Proposed Depth 5,680'
20. BLM/BIA Bond No. on file WYB000493	21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5278' GL
22. Approximate date work will start* 12/24/08	23. Estimated duration (7) days from SPUD to rig release

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- | | |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 11/24/08
Title Regulatory Specialist		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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

(Continued on page 2)

*(Instructions on page 2)

RECEIVED

DEC 15 2008

DIV. OF OIL, GAS & MINING

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)

December 19, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2008 Plan of Development Lone Tree Unit, Duchesne County, 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 wells are planned for calendar year 2008 within the Lone Tree Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-013-34161	Lone Tree Fed	14-21-9-17 Sec 21 T09S R17E 0655 FSL 2179 FWL
43-013-34162	Lone Tree Fed	10-21-9-17 Sec 21 T09S R17E 2058 FSL 2079 FEL
43-013-34163	Lone Tree Fed	15-21-9-17 Sec 21 T09S R17E 0589 FSL 1893 FEL
43-013-34157	Lone Tree Fed	R-15-9-17 Sec 15 T09S R17E 1998 FSL 1983 FWL
		BHL Sec 15 T09S R17E 1320 FSL 2620 FEL
43-013-34158	Lone Tree Fed	H-22-9-17 Sec 22 T09S R17E 1863 FNL 2098 FWL
		BHL Sec 22 T09S R17E 1295 FNL 2517 FEL
43-013-34159	Lone Tree Fed	G-22-9-17 Sec 22 T09S R17E 1829 FNL 0724 FWL
		BHL Sec 22 T09S R17E 1213 FNL 1375 FWL
43-013-34160	Lone Tree Fed	A-21-9-17 Sec 22 T09S R17E 0546 FNL 0697 FWL
		BHL Sec 21 T09S R17E 0050 FNL 0060 FEL

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File – Lone Tree Unit
 Division of Oil Gas and Mining
 Central Files
 Agr. Sec. Chron
 Fluid Chron



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

December 22, 2008

Newfield Production Company
Rt 3 Box 3630
Myton, UT 84052

Re: Lone Tree Federal G-22-9-17 Well, Surface Location 1829' FNL, 724' FWL,
SW NW, Sec. 22, T. 9 South, R. 17 East, Bottom Location 1213' FNL, 1375' FWL,
NE NW, Sec. 22, T. 9 South, R. 17 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 43-013-34159.

Sincerely,

Gil Hunt
Associate Director

js
Enclosures

cc: Duchesne County Assessor
Bureau of Land Management, Vernal Field Office



Operator: Newfield Production Company
Well Name & Number Lone Tree Federal G-22-9-17
API Number: 43-013-34159
Lease: UTU-13905

Surface Location: SW NW **Sec.** 22 **T.** 9 South **R.** 17 East
Bottom Location: NE NW **Sec.** 22 **T.** 9 South **R.** 17 East

Conditions of Approval

1. General

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

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 (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.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-13905
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name NA
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Lone Tree
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721	8. Lease Name and Well No. Lone Tree Federal G-22-9-17
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SW/NW 1829' FNL 724' FWL At proposed prod. zone 1213' FNL 1375' FWL <i>NENW</i>		9. API Well No. <i>43 D13 3A159</i>
14. Distance in miles and direction from nearest town or post office* Approximately 16.8 miles southeast of Myton, UT		10. Field and Pool, or Exploratory Monument Butte
15. Distance from proposed* location to nearest property or lease line, ft. Approx. 1213' f/lse, 3905' f/unit (Also to nearest drig. unit line, if any)		11. Sec., T, R. M. or Blk. and Survey or Area Sec. 22, T9S R17E
16. No. of acres in lease 1,200.00		12. County or Parish Duchesne
17. Spacing Unit dedicated to this well 20 Acres		13. State UT
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1269'		20. BLM/BIA Bond No. on file WYB000493
19. Proposed Depth 5,680'		21. Estimated duration (7) days from SPUD to rig release
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5278' GL		22. Approximate date work will start* <i>1st Qtr. 2009</i>

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature <i>Mandie Crozier</i>	Name (Printed/Typed) Mandie Crozier	Date 11/24/08
Title Regulatory Specialist		

Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed) <i>Jerry Kezela</i>	Date MAY 28 2009
Title Land & Mineral Resources		
Office VERNAL FIELD OFFICE		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached. **CONDITIONS OF APPROVAL ATTACHED**

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

(Continued on page 2)

*(Instructions on page 2)

DEPT OF THE INTERIOR
BUREAU OF LAND MGMT

2008 DEC 10 PM 1 14

NOTICE OF APPROVAL

UDOGM

RECEIVED
RECEIVED
VERNAL FIELD OFFICE

JUN 11 2009

DIV. OF OIL, GAS & MINING

NOS and posted 12/15/08
AFMSS#09RRH0018A



**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE**

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Newfield Production Company	Location:	SWNW, Sec. 22, T9S, R17E (s) NENW, Sec. 22, T9S, R17E (b)
Well No:	Lone Tree Federal G-22-9-17	Lease No:	UTU-13905
API No:	43-013-34159	Agreement:	Lone Tree (GR) Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Christine Cimiluca	(435) 781-4475	
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	(435) 828-4029
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Lori Ford	(435) 781-4406	
NRS/Enviro Scientist:	David Gordon	(435) 781-4424	
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	(435) 828-3546
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	(435) 828-7381
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544

Fax: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM
 CONDITIONS OF APPROVAL (COAs)**

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, an Interim/Final Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. At a minimum, this will include the reshaping of the pad to the original contour to the extent possible; the respreading of the top soil up to the rig anchor points; and, the area reseeded using appropriate reclamation methods. The AO will provide written approval or concurrence within 30 calendar days of receipt.

Interim Reclamation:

The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is dry and free of all trash and residual hydrocarbons it will be closed, it shall be recontoured and the topsoil respread, and the area shall be seeded using a rangeland drill. Seeding depth as per AO, or seed distributor. If portions of the site are too steep (>40%), or rocky, that portion may be broadcast seeded. If broadcasting seed, the seed shall be walked into the soil with a dozer immediately after the seeding is completed, or covered by soil using a drag chain. Seeding shall occur in the fall (August 1st until snow or ground is frozen) with the following seed mix:

Seed mix:

Common name	Latin name	lbs/acre	Recommended seed planting depth
Forage Kochia	<i>Kochia Prostrata</i>	0.20	1/2"
Squirreltail grass	<i>Elymus elymoides</i>	3.0	1/4 - 1/2"
Siberian wheatgrass	<i>Agropyron fragile</i>	1.0	1/2"
Shadscale saltbush	<i>Atriplex confertifolia</i>	0.50	1/2"
Four-wing saltbush	<i>Atriplex canescens</i>	0.50	1/2"
Gardner's saltbush	<i>Atriplex gardneri</i>	0.50	1/2"
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	0.10	1/8 - 1/4"

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.
- Reseeding may be required if initial seeding is not successful.

Final reclamation:

Noxious and/or invasive weeds will be controlled along access roads, pipelines, well sites, and all other applicable facilities. Any noxious and/or invasive weeds outbreak, directly attributed to the activities of the Operator, will be the responsibility of the Operator to control. On BLM administered land, a Pesticide Use Proposal (PUP) must be submitted and approved prior to the application of herbicides, pesticides, or other possibly hazardous chemicals.

The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.

Once the location is plugged and abandoned, it shall be recontoured to natural topology, topsoil shall be respread, and the entire location shall be seeded with a seed mix recommended by the AO (see above). Seed application will follow all guidelines in the interim seed mix bullet statement above, and in Green River reclamation guidelines. If reclamation seeding should take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- Newfield Production Co. shall adhere to all referenced requirements in the SOP (version: June 24, 2008) along with all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth

(from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 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 Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-13905
	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: LONE TREE FED G-22-9-17
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013341590000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1829 FNL 0724 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 22 Township: 09.0S Range: 17.0E 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 checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/18/2009	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input 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 checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

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

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

Date: December 21, 2009

By: 

NAME (PLEASE PRINT) Mandie Crozier	PHONE NUMBER 435 646-4825	TITLE Regulatory Tech
SIGNATURE N/A	DATE 12/17/2009	



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 43013341590000

API: 43013341590000

Well Name: LONE TREE FED G-22-9-17

Location: 1829 FNL 0724 FWL QTR SWNW SEC 22 TWNP 090S RNG 170E MER S

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 12/22/2008

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: 12/17/2009

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

Date: December 21, 2009

By: 

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

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

OPERATOR ACCT. NO. N2695

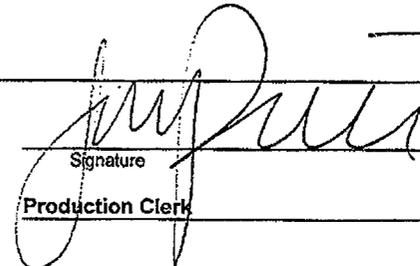
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG			
A	99999	17613	4304740584	UTE TRIBAL 3-8-5-2E	NENW	8	5S 8S	2E	UINTAH	5/14/2010	5/18/10
WELL 1 COMMENTS: GRRV											
B	99999	17400 ✓	4301333958	MB NE FED MON BUTTE FEDERAL S-24-8-16	NWSE	24	8S	16E	DUCHESNE	5/14/2010	5/18/10
GRRV BHL = NESE											
B	99999	17400 ✓	4301334205	WEST POINT 10-31-8-16	NWSE	31	8S	16E	DUCHESNE	5/6/2010	5/18/10
GRRV											
B	99999	17400 ✓	4301334074	Fed CANVASBACK R-22-8-17	SESW	22	8S	17E	DUCHESNE	5/13/2010	5/18/10
GRRV BHL = NESW											
B	99999	17400 ✓	4301334159	Fed LONE TREE G-22-9-17	SWNW	22	9S	17E	DUCHESNE	5/11/2010	5/18/10
WELL 5 COMMENTS: GRRV BHL = NENW											
B	99999	17400 ✓	4301350047	FEDERAL 11-25-8-15	NESW	25	8S	15E	DUCHESNE	5/5/2010	5/18/10
WELL 5 COMMENTS: GRRV											

- ACTION CODES (See instructions on back of form)
- A - 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)

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

RECEIVED
 MAY 17 2010

DIV. OF OIL, GAS & MINING


 Signature Jentri Park
 Production Clerk 05/14/10
 Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

SUBMIT IN TRIPLICATE - Other Instructions on page 2

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 NEWFIELD PRODUCTION COMPANY

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

3b. Phone (include are code)
 435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 1829 FWL 0734 FWL
 Section 22 T9S R17E

5. Lease Serial No.
 USA UTU-13905

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.
 LONE TREE FEDERAL G-22-9-17

9. API Well No.
 4301334159

10. Field and Pool, or Exploratory Area
 GREATER MB UNIT

11. County or Parish, State
 DUCHESNE, UT

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

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

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

On 5/11/10 MIRU Ross rig # 29. Spud well @ 8:00 AM. Drill 320' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 323.03 KB On 5/16/10 cement with 160 sks of class "G" w/ 2% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 3 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed) Alvin Nielsen	Title Drilling Foreman
Signature <i>Alvin Nielsen</i>	Date 05/17/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

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

(Instructions on page 2)

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MAY 25 2010

DIV. OF OIL, GAS & MINING

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

5. LEASE DESIGNATION AND SERIAL NUMBER:
USA UTU-13905

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
GMBU

1. TYPE OF WELL: OIL WELL GAS WELL OTHER

8. WELL NAME and NUMBER:
LONE TREE FEDERAL G-22-9-17

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
4301334159

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

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

4. LOCATION OF WELL:
FOOTAGES AT SURFACE:

COUNTY: DUCHESNE

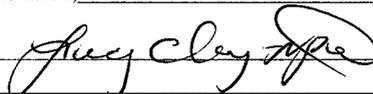
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: , 22, T9S, R17E

STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 06/12/2010	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant
SIGNATURE  DATE 06/14/2010

(This space for State use only)

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JUN 21 2010
DIV. OF OIL, GAS & MINING

Daily Activity Report

Format For Sundry

LONE TREE G-22-9-17

4/1/2010 To 8/30/2010

6/4/2010 Day: 1

Completion

Rigless on 6/4/2010 - Run CBL & perf 1st stage. - RU frac head & Cameron BOP's. RU Hot Oiler & test casing, frac head w/ valves & BOP's to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD was 5622' w/ cement top @ 204'. RIH & perforate CP4 sds @ 5429-31', 5399-5403', CP3 sds @ 5370-5374' w/ 3-1/8" Port Guns (11 gram, .36"EH, 120°, 16.82"pen) w/ 3'spf for total of 30 shots. SIFN w/ 135 bbls EWTR.

Daily Cost: \$0

Cumulative Cost: \$10,045

6/9/2010 Day: 2

Completion

Rigless on 6/9/2010 - Frac well. Flow well back. - Stage #2; RU PSI WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" (6K) composite flow through frac plug & perf guns. Set plug @ 5320'. Perforate CP2 sds @ 5284-87', 5269-73' w/ 3-1/8" Slick Guns (16 gram, .34"EH, 120°, 21"pen) w/ 3 spf for total of 21 shots. RU BJ & open well w/ 1565 psi on casing. Perfs broke down @ 2691 back to 1901 psi. Pressure to low to shut down. Pump 30 gals of Techni Hib 767 chemical @ 4% by volume. Frac w/ 14,770#'s of 20/40 sand in 285 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2450 @ ave rate of 30 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1886 w/ .79FG. 5 min was 1727. 10 min was 1683. 15 min was 1668. Leave pressure on well. 831 bbls EWTR. - Stage #5; RU WLT. RIH w/ frac plug & perf guns. Set plug @ 4510'. Perforate D2 sds @ 4410-14' w/ 3 spf for total of 12 shots. RU BJ & open well w/ 1500 psi on casing. Perfs broke down @ 1970 back to 1863 psi. Pressure to low to shut down. Pump 30 gals of Techni Hib 767 chemical @ 4% by volume. Frac w/ 8932#'s of 20/40 sand in 236 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2669 @ ave rate of 27 bpm w/ 6 ppg of sand. ISIP was 1690 w/ .82FG. 5 min was 1401. 10 min was 1388. 15 min was 1343. 1807 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 4 hours & died w/ 480 bbls rec'd. SIFN w/ 1327 bbls EWTR. - Stage #4; RU WLT. RIH w/ frac plug & perf guns. Set plug @ 4720'. Perforate B2 sds @ 4660-64', B1 sds @ 4629-33' w/ 3 spf for total of 24 shots. RU BJ & open well w/ 1435 psi on casing. Perfs broke down @ 2020 back to 1786 psi. Pressure to low to shut down. Pump 30 gals of Techni Hib 767 chemical @ 4% by volume. Frac w/ 24,437#'s of 20/40 sand in 285 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2450 @ ave rate of 30 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1923 w/ .85FG. 5 min was 1611. 10 min was 1547. 15 min was 1512. Leave pressure on well. 1571 bbls EWTR. - Stage #1; RU BJ Services "Ram Head" frac flange. Open well w/ 23 psi on casing. Perfs broke down @ 3148 bck to 2500 psi. ISIP was 1951 w/ .79FG. 1 min was 1646. 4 min was 1492. Pump 6 bbls of 15% HCL acid. Pump 30 gals of Techni Hib 767 chemical @ 4% by volume. Frac w/ 35,017#'s of 20/40 sand in 411 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2820 @ ave rate of 40 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1957 w/ .80FG. 5 min was 1696. 10 min was 1641. 15 min was 1601. Leave pressure on well. 546 bbls EWTR. - Stage #3; RU WLT. RIH w/ frac plug & perf guns. Set plug @ 5010'. Perforate LODC sds @ 4911-14', A3 sds @ 4833-36', 4802-04', A1 sds @ 4776-79' w/ 3 spf for total of 33 shots. RU BJ & open well w/ 1530 psi on casing. Perfs broke down @ 4063 back to 1543 psi. Pressure to low to shut down. Pump 30 gals of Techni Hib 767 chemical @ 4% by volume. Frac w/ 34,450#'s of 20/40 sand in 382 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2912 @ ave rate of 40 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1952 w/ .84FG. 5 min was 1791. 10 min was 1610. 15 min was 1559. Leave pressure on well. 1213 bbls EWTR.

Daily Cost: \$0**Cumulative Cost:** \$89,956

6/10/2010 Day: 3**Completion**

Leed #731 on 6/10/2010 - MIRUSU. Instal well head. PU tbg. - Open well w/ 50 psi on casing. RD Cameron BOP's & frac head. Instal 3M production tbg head & Schefer BOP's. RU 4-3/4" Chomp mill & x-over sub. Tally, pickup & TIH w/ new J-55, 2-7/8" 6.5#, 8EUE tbg to tag plug @ 4510'.

Daily Cost: \$0**Cumulative Cost:** \$121,112

6/11/2010 Day: 4**Completion**

Leed #731 on 6/11/2010 - Drlg plugs. Swab well for C/O. - Open well w/ 50 psi on casing. Drlg out plug #1. TIH w/ tbg to tag fill @ 4710'. Drlg out plug #2. TIH w/ tbg to tag plug @ 5010'. Drlg out plug #3. TIH w/ tbg to tag fill @ 5310'. Drlg out plug #4. TIH w/ tbg to tag fill @ 5591'. C/O to PBTD @ 5671'. Circulate well clean. TOOH w/ 3 jts tbg. RU swab equipment. Made runs 10 & rec'd 140 bbls of fluid. FFL was 3000' w/ last run showing trace of oil w/ no sand. RD swab equipment. TIH w/ tbg. Circulate well clean w/ 1' of new sand. SIFN. 1227 bbls EWTR.

Daily Cost: \$0**Cumulative Cost:** \$125,403

6/12/2010 Day: 5**Completion**

Leed #731 on 6/12/2010 - TOOH w/ tbg. TIH w/ production. Put well on pump. Final Report. - Open well w/ 50 psi on casing. TOOH w/ tbg. LD mill & x-over sub. RU NC, 2 jts tbg, SN, 2 jts tbg, TA new Cntrl Hydril w/ 45,000# shear, TIH w/ 170 jts tbg. RD BOP's Set TA @ 5344' w/ 18,000#'s tension w/ SN @ 5411' & EOT @ 5474'. Flush tbg w/ 50 bbls watr. Pickup & prime pump. TIH w/ 2-1/2" x 1-3/4" x 17' x 24' new Cntrl Hydrilc RHAC pump w/ 224"SL, 4- 1-1/2" weight bars, 211- 7/8" 8 per guided rods, 2', 4', 8' x 7/8" pony rod, 1-1/2" x 30' polish. Space pump. Test tbg & pump to 800 psi. RDMOSU. POP @ 5PM w/ 168"SL @ 5 spm w/ 1227 bbls EWTR. Final Report. **Finalized**

Daily Cost: \$0**Cumulative Cost:** \$173,591

Pertinent Files: Go to File List

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU-13905

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
GMBU

8. Lease Name and Well No.
LONETREE FEDERAL G-22-9-17

9. AFI Well No.
43-013-34159

10. Field and Pool or Exploratory
MONUMENT BUTTE

11. Sec., T., R., M., on Block and
Survey or Area SEC. 22, T9S, R17E

12. County or Parish
DUCHESENE

13. State
UT

14. Date Spudded
05/11/2010

15. Date T.D. Reached
05/28/2010

16. Date Completed
06/12/2010
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
5263' GL 5275' KB

18. Total Depth: MD 5725'
TVD 5206' 5643

19. Plug Back T.D.: MD 5671'
TVD 5589

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	323'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	5717'		225 PRIMLITE		204'	
						400 50/50 POZ			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT @ 5475'	TA @ 5344'						

25. Producing Intervals

Formation	Top	Bottom	Perforation Record	Size	No. Holes	Perf. Status
A) Green River			5370-5431' CP3 CP4	.36"	3	30
B) Green River			5269-5287' CP2	.34"	3	21
C) Green River			4776-4914' A1 A3 LODC	.34"	3	33
D) Green River			4629-4664' B1 B2	.34"	3	24

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

Depth Interval	Amount and Type of Material
5370-5431'	Frac w/ 35017#'s 20/40 sand in 164 bbls of Lightning 17 fluid.
5269-5287'	Frac w/ 14770#'s 20/40 sand in 285 bbls of Lightning 17 fluid.
4776-4914'	Frac w/ 34450#'s 20/40 sand in 166 bbls of Lightning 17 fluid.
4629-4664'	Frac w/ 24437#'s 20/40 sand in 152 bbls of Lightning 17 fluid.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
6-14-10	6-29-10	24	→	58	0	20			2-1/2" x 1-3/4" x 17' x 24' RHAC Pump

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

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

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

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*(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	3348' 3542'
				GARDEN GULCH 2 POINT 3	3658' 3906'
				X MRKR Y MRKR	4164' 4201'
				DOUGALS CREEK MRK BI CARBONATE MRK	4329' 4563'
				B LIMESTON MRK CASTLE PEAK	4672' 5170'
				BASAL CARBONATE	5600'

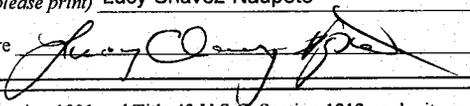
32. Additional remarks (include plugging procedure):

Stage 5: Green River Formation (D2) 4410-4414', .34" 3/12 Frac w/ 8932#'s of 20/40 sand in 62 bbls of Lightning 17 fluid

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

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

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

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

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



NEWFIELD EXPLORATION

**USGS Myton SW (UT)
SECTION 22 T9S R17E
G-22-9-17**

Wellbore #1

Design: Actual

Standard Survey Report

01 July, 2010

HATHAWAY ^{HB} BURNHAM
DIRECTIONAL & MWD SERVICES



HATHAWAY BURNHAM

Survey Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 22 T9S R17E
Well: G-22-9-17
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well G-22-9-17
TVD Reference: G-22-9-17 @ 5290.0ft (CAPSTAR 328)
MD Reference: G-22-9-17 @ 5290.0ft (CAPSTAR 328)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

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

Site	SECTION 22 T9S R17E, SEC 22 T9S R17E				
Site Position:		Northing:	7,178,000.00ft	Latitude:	40° 0' 56.518 N
From:	Lat/Long	Easting:	2,062,600.00ft	Longitude:	109° 59' 33.065 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.97 °

Well	G-22-9-17, SHL LAT: 40 01 07.23, LONG: -109 59 58.52					
Well Position	+N/-S	0.0 ft	Northing:	7,179,050.42 ft	Latitude:	40° 1' 7.230 N
	+E/-W	0.0 ft	Easting:	2,060,601.75 ft	Longitude:	109° 59' 58.520 W
Position Uncertainty	0.0 ft	Wellhead Elevation:	5,290.0 ft	Ground Level:	5,278.0 ft	

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2010/05/19	11.42	65.81	52,373

Design	Actual				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	46.56	

Survey Program	Date 2010/07/01				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
352.0	5,297.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
352.0	0.59	100.23	352.0	-0.3	1.8	1.1	0.17	0.17	0.00
414.0	0.55	111.51	414.0	-0.5	2.4	1.4	0.19	-0.06	18.19
506.0	0.64	101.55	506.0	-0.8	3.3	1.9	0.15	0.10	-10.83
537.0	0.70	97.00	537.0	-0.8	3.6	2.1	0.26	0.19	-14.68
567.0	0.88	70.37	567.0	-0.8	4.0	2.4	1.35	0.60	-88.77
598.0	1.03	61.40	598.0	-0.5	4.5	2.9	0.68	0.48	-28.94
628.0	1.10	53.32	628.0	-0.2	5.0	3.5	0.55	0.23	-26.93
659.0	1.48	46.16	659.0	0.2	5.5	4.1	1.33	1.23	-23.10
689.0	2.00	37.70	688.9	0.9	6.1	5.1	1.93	1.73	-28.20
720.0	2.22	41.00	719.9	1.8	6.8	6.2	0.81	0.71	10.65
751.0	2.68	36.10	750.9	2.8	7.7	7.5	1.63	1.48	-15.81
782.0	3.05	41.30	781.9	4.0	8.6	9.0	1.46	1.19	16.77



Company: NEWFIELD EXPLORATION
 Project: USGS Myton SW (UT)
 Site: SECTION 22 T9S R17E
 Well: G-22-9-17
 Wellbore: Wellbore #1
 Design: Actual

Local Co-ordinate Reference: Well G-22-9-17
 TVD Reference: G-22-9-17 @ 5290.0ft (CAPSTAR 328)
 MD Reference: G-22-9-17 @ 5290.0ft (CAPSTAR 328)
 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)
812.0	3.43	38.03	811.8	5.3	9.7	10.7	1.41	1.27	-10.90
858.0	4.10	41.17	857.7	7.7	11.6	13.7	1.52	1.46	6.83
903.0	4.97	41.40	902.6	10.3	14.0	17.3	1.93	1.93	0.51
948.0	5.30	40.50	947.4	13.4	16.6	21.3	0.75	0.73	-2.00
994.0	5.75	44.36	993.2	16.6	19.6	25.7	1.27	0.98	8.39
1,039.0	6.40	46.50	1,037.9	20.0	23.0	30.4	1.53	1.44	4.76
1,084.0	7.10	45.50	1,082.6	23.6	26.8	35.7	1.58	1.56	-2.22
1,130.0	7.70	48.20	1,128.2	27.7	31.1	41.6	1.51	1.30	5.87
1,175.0	8.48	48.20	1,172.8	31.9	35.9	48.0	1.73	1.73	0.00
1,220.0	9.01	46.90	1,217.3	36.5	40.9	54.8	1.26	1.18	-2.89
1,266.0	9.20	44.34	1,262.7	41.6	46.1	62.1	0.97	0.41	-5.57
1,311.0	9.71	45.40	1,307.1	46.9	51.3	69.5	1.20	1.13	2.36
1,356.0	10.02	45.41	1,351.4	52.3	56.8	77.2	0.69	0.69	0.02
1,401.0	10.74	44.20	1,395.7	58.0	62.5	85.3	1.67	1.60	-2.69
1,447.0	10.81	45.10	1,440.9	64.1	68.6	93.9	0.40	0.15	1.96
1,492.0	11.23	44.40	1,485.0	70.3	74.6	102.5	0.98	0.93	-1.56
1,537.0	11.62	45.70	1,529.1	76.5	80.9	111.4	1.04	0.87	2.89
1,583.0	12.00	44.00	1,574.2	83.2	87.6	120.8	1.12	0.83	-3.70
1,674.0	12.04	45.50	1,663.2	96.7	100.9	139.7	0.35	0.04	1.65
1,764.0	12.15	45.24	1,751.2	109.9	114.3	158.6	0.14	0.12	-0.29
1,855.0	12.26	45.32	1,840.1	123.5	128.0	177.8	0.12	0.12	0.09
1,945.0	12.46	47.00	1,928.0	136.8	141.9	197.1	0.46	0.22	1.87
2,036.0	12.60	48.00	2,016.9	150.1	156.4	216.8	0.28	0.15	1.10
2,126.0	12.30	46.40	2,104.7	163.3	170.7	236.2	0.51	-0.33	-1.78
2,217.0	12.30	44.00	2,193.7	177.0	184.4	255.6	0.56	0.00	-2.64
2,307.0	11.60	43.00	2,281.7	190.5	197.3	274.2	0.81	-0.78	-1.11
2,398.0	11.50	43.60	2,370.9	203.8	209.8	292.4	0.17	-0.11	0.66
2,489.0	12.90	45.20	2,459.8	217.5	223.2	311.6	1.58	1.54	1.76
2,579.0	12.64	46.51	2,547.6	231.3	237.5	331.5	0.43	-0.29	1.46
2,670.0	13.36	49.30	2,636.2	245.0	252.7	352.0	1.05	0.79	3.07
2,761.0	12.60	47.52	2,724.9	258.6	268.0	372.4	0.94	-0.84	-1.96
2,851.0	13.20	49.60	2,812.6	271.9	283.1	392.5	0.84	0.67	2.31
2,942.0	12.60	48.20	2,901.3	285.2	298.4	412.8	0.74	-0.66	-1.54
3,033.0	12.70	47.30	2,990.1	298.6	313.1	432.7	0.24	0.11	-0.99
3,123.0	12.90	48.60	3,077.9	312.0	327.9	452.6	0.39	0.22	1.44
3,214.0	12.80	48.70	3,166.6	325.4	343.1	472.9	0.11	-0.11	0.11
3,304.0	12.20	46.40	3,254.5	338.5	357.5	492.3	0.87	-0.67	-2.56
3,395.0	11.70	44.70	3,343.5	351.7	370.9	511.2	0.67	-0.55	-1.87
3,486.0	11.30	45.10	3,432.7	364.5	383.7	529.3	0.45	-0.44	0.44
3,576.0	11.30	44.00	3,520.9	377.1	396.1	546.9	0.24	0.00	-1.22
3,667.0	11.80	45.90	3,610.1	390.0	409.0	565.1	0.69	0.55	2.09
3,757.0	12.00	44.30	3,698.2	403.1	422.1	583.7	0.43	0.22	-1.78
3,848.0	11.70	46.30	3,787.2	416.2	435.4	602.4	0.56	-0.33	2.20
3,938.0	11.70	49.40	3,875.4	428.5	448.9	620.6	0.70	0.00	3.44
4,029.0	11.20	49.60	3,964.6	440.2	462.7	638.6	0.55	-0.55	0.22
4,119.0	11.30	47.30	4,052.8	451.9	475.8	656.2	0.51	0.11	-2.56
4,210.0	11.60	47.80	4,142.0	464.1	489.1	674.3	0.35	0.33	0.55
4,301.0	11.60	49.10	4,231.2	476.2	502.8	692.5	0.29	0.00	1.43
4,391.0	11.40	47.70	4,319.3	488.1	516.3	710.5	0.38	-0.22	-1.56
4,482.0	11.80	46.90	4,408.5	500.5	529.7	728.8	0.47	0.44	-0.88
4,572.0	11.70	49.17	4,496.6	512.8	543.3	747.1	0.53	-0.11	2.52
4,663.0	11.50	46.00	4,585.7	525.1	556.8	765.4	0.73	-0.22	-3.48
4,754.0	11.80	45.00	4,674.9	538.0	569.9	783.7	0.40	0.33	-1.10
4,844.0	12.24	48.70	4,762.9	550.8	583.6	802.5	0.99	0.49	4.11

Company: NEWFIELD EXPLORATION
 Project: USGS Myton SW (UT)
 Site: SECTION 22 T9S R17E
 Well: G-22-9-17
 Wellbore: Wellbore #1
 Design: Actual

Local Co-ordinate Reference: Well G-22-9-17
 TVD Reference: G-22-9-17 @ 5290.0ft (CAPSTAR 328)
 MD Reference: G-22-9-17 @ 5290.0ft (CAPSTAR 328)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,935.0	11.71	50.10	4,851.9	563.1	597.9	821.3	0.66	-0.58	1.54
5,025.0	11.50	47.00	4,940.1	575.1	611.5	839.4	0.73	-0.23	-3.44
5,116.0	12.90	46.03	5,029.0	588.3	625.5	858.7	1.55	1.54	-1.07
5,207.0	11.20	47.00	5,118.0	601.4	639.2	877.6	1.88	-1.87	1.07
5,290.9	12.04	45.13	5,200.2	613.1	651.4	894.5	1.10	1.00	-2.23
G-22-9-17 TGT									
5,297.0	12.10	45.00	5,206.2	614.0	652.3	895.8	1.10	1.01	-2.07

$\frac{59}{673}$ $\frac{64}{716}$

Wellbore Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
G-22-9-17 TGT	0.00	0.00	5,200.0	615.6	650.1	7,179,676.86	2,061,241.43	40° 1' 13.314 N	109° 59' 50.163 W
- actual wellpath misses by 2.8ft at 5290.9ft MD (5200.2 TVD, 613.1 N, 651.4 E)									
- Circle (radius 75.0)									

Checked By: _____ Approved By: _____ Date: _____

$$\frac{N/S}{614} = \frac{5297}{4391} = \frac{5206}{4319} = \frac{652}{516} = 4$$

$$\frac{488}{126} = \frac{906}{887}$$

$$\frac{906}{887} = 1.02142052 \times 428 = 437$$

$$5206 + 437 = 5643$$

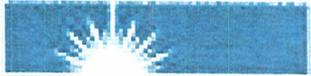
$$\frac{126}{906} = \frac{x}{428} = \frac{53928}{906} = 59$$

$$\frac{136}{906} = \frac{y}{428} = \frac{58208}{906} = 64$$

$$\frac{59}{428}$$

inclination & Azimuth reasonably stable over last 900 ft.
 Extrapolations made accordingly. H. Sadle
 8/25/2010

NEWFIELD



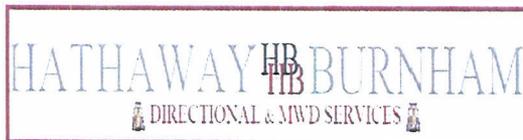
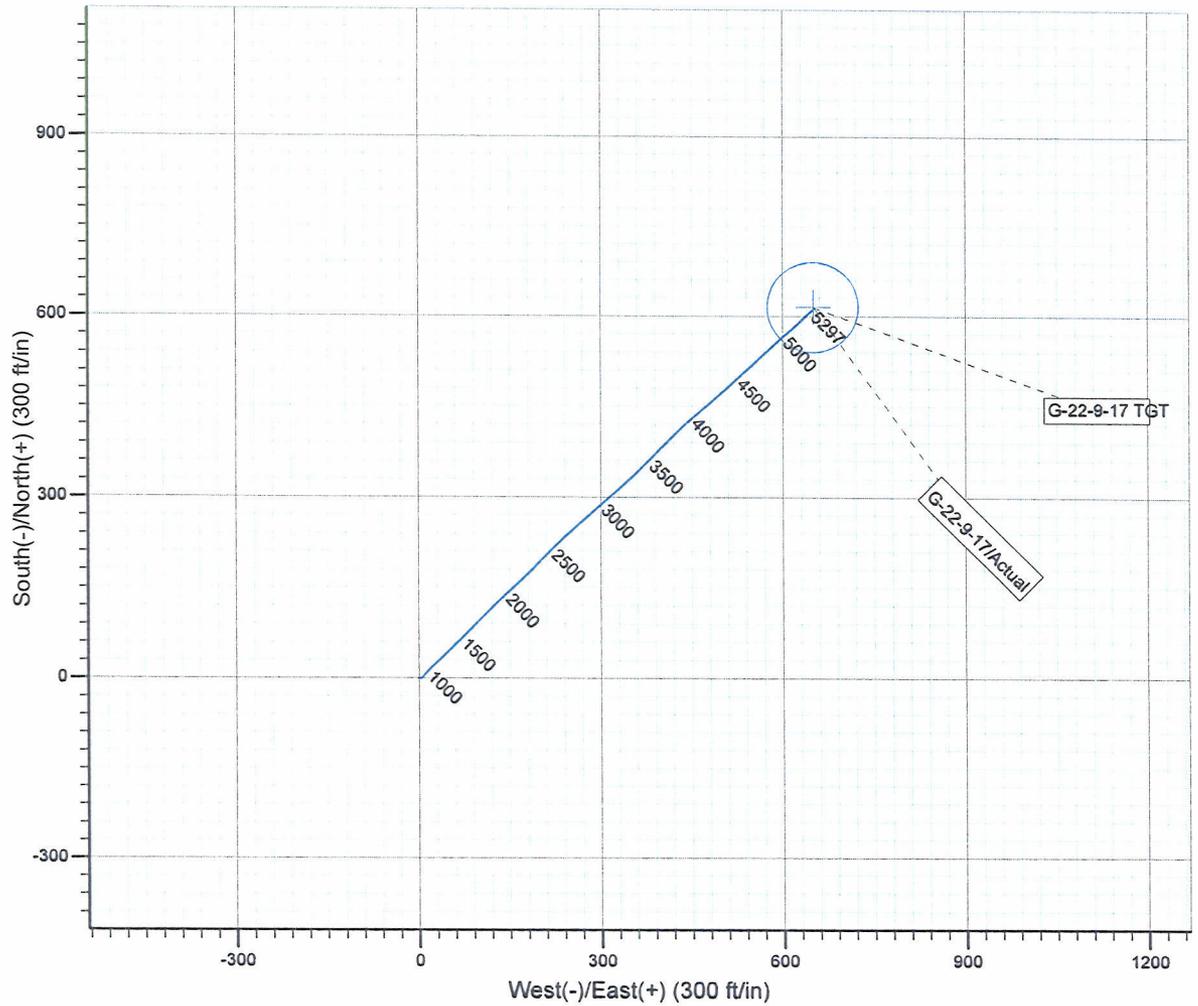
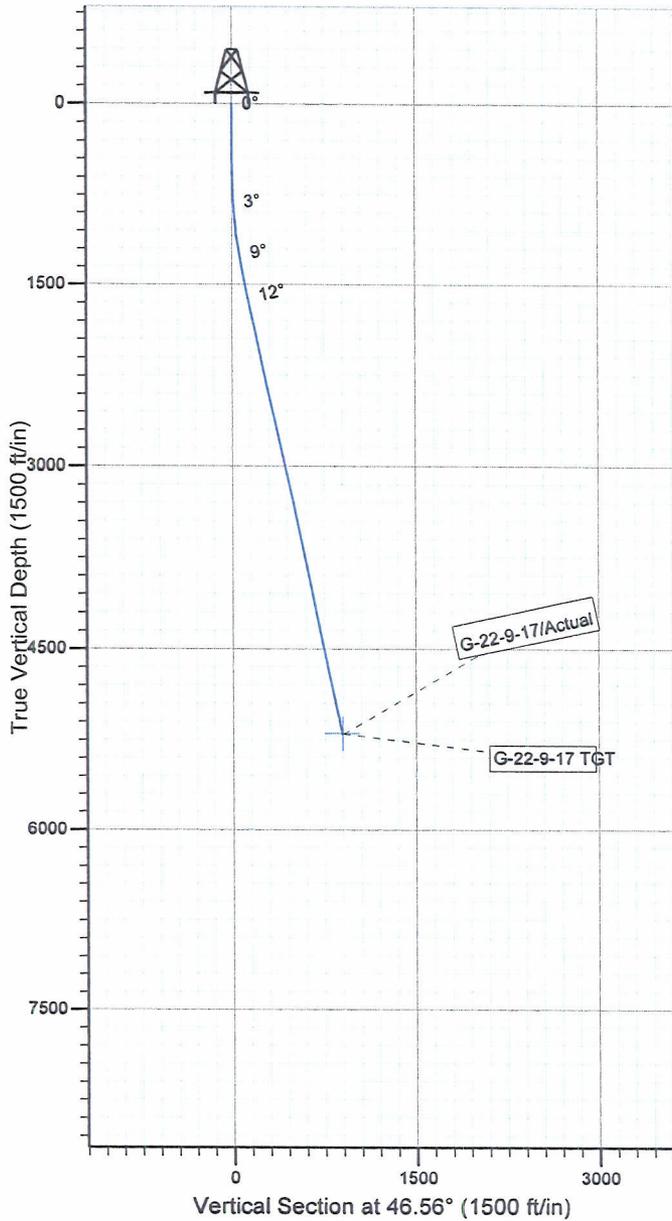
Project: USGS Myton SW (UT)
 Site: SECTION 22 T9S R17E
 Well: G-22-9-17
 Wellbore: Wellbore #1
 SURVEY: Actual

FINAL SURVEY REPORT



Azimuths to True North
 Magnetic North: 11.42°

Magnetic Field
 Strength: 52373.0snT
 Dip Angle: 65.81°
 Date: 2010/05/19
 Model: IGRF2010



Design: Actual (G-22-9-17/Wellbore #1)

Created By: *Jim Hudson* Date: 21:26, July 01 2010
 THIS SURVEY IS CORRECT TO THE BEST OF MY
 KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.

Daily Activity Report

Format For Sundry

LONE TREE G-22-9-17**3/1/2010 To 7/30/2010****LONE TREE G-22-9-17****Waiting on Cement****Date:** 5/12/2010

Ross #29 at 320. Days Since Spud - BLM & State were notified - On 5/11/10 ran 85/8" surface casing (Guide shoe, shoe jt, baffle plate, 6jts) set @ 323.03' - On 5/16/10 cemented 85/8" surface casing w/ 160 sks mixed @ 15.8 ppg & 1.17 yeild G+2%CaCL - Ross rig # 21 spud the Lone Tree Fed G-22-9-17 on 5/11/10 @ 8:00 AM TD 320' - Returned 3 bbls of cmt to pit

Daily Cost: \$0**Cumulative Cost:** \$46,586**LONE TREE G-22-9-17****Drill 7 7/8" hole with fresh water****Date:** 5/27/2010

Capstar #328 at 2811. 1 Days Since Spud - PU BHA Smith PDC bit Dog sub Hunting MM 7/8 mil 4.8 stg .33 NMDC Gap sub Ant sub NMDC 25 4.5 HWDP - & TIH & Tag cmt @ 255' - TIH & Tag cmt @ 255' to 2810' WOB= 16/20 RPMS= 184 GPM= 409 ROP= 189' pr hr - No H2S in the last 24 hrs - Strap BHA - Casing to 1500#s for 30 min - Accept Rig 1:00 PM on 5/26/10 Hold saftey mtg w/ B&C Quick test & Test upper kelly floor valve, Pipe - Nipple up bops - Move rig 8.5 miles w/ Howcroft Trucking & RU on the Lone Tree Fed G-22-9-17 on 5/26/10 - rams blind rams, Inside out side choke valves to 2000#s for 10 min & Hydril to 1500#s f/10 min &

Daily Cost: \$0**Cumulative Cost:** \$113,012**LONE TREE G-22-9-17****Drill 7 7/8" hole with fresh water****Date:** 5/28/2010

Capstar #328 at 5574. 2 Days Since Spud - Drill 77/8 hole f/ 2810' to 4396' WOB= 18/25 RPMS= 184 GPM= 409 ROP= 166' pr hr - Drill 77/8 hole f/ 4396' to 5574' WOB= 18/25 RPMS= 184 GPM= 409 ROP= 84' pr hr - No H2S in the last 24 hrs - Rig serv

Daily Cost: \$0**Cumulative Cost:** \$133,611**LONE TREE G-22-9-17****Rigging down****Date:** 5/29/2010

Capstar #328 at 5725. 3 Days Since Spud - Circ f/ laydown - LDDP & BHA - Held saftey mtg & RU Phoenix Survey Inc & log well w/ Duel Guard Gamma Ray Compensated Density - Compensated Neutron Gamma Ray Loggers TD 5696' - RU to run 5.5 csg - Run 131 jts of 5.5 J55 15.5# LT&C shoe @ 5717' Float collar @ 5670' 4 jts will be transferred to the - Drill 77/8 hole f/ 5574' to 5725' WOB= 22 RPMS= 184 GPM= 409 ROP= 151' pr hr - Circ f/ cement job & Hold saftey mtg - Cement w/ BJ with 225sks mixed @ 11 ppg 3.53 yeild PLII+3% KCL+5#CSE+0.5#CF+2#KOL+.5SMS+FP+SF& - 400sks mixed @ 14.4 ppg 1.24 yeild 50:50:2+3%KCL+0.5%EC-1+.25#CF+.05#SF+.3SMS+FP-6L - Nipple down & set 5.5 casing slips w/ 75,000#s - Clean mud pits - Release rig @ 3:30 AM on 5/29/10 - Lone Tree Federal H-22-9-17 **Finalized**

Daily Cost: \$0**Cumulative Cost:** \$256,800**Pertinent Files: Go to File List**

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-13905
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: LONE TREE FED G-22-9-17
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013341590000
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: 1829 FNL 0724 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 22 Township: 09.0S Range: 17.0E 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: 8/19/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input 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="Well Clean Out"/>

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

The above mentioned well has had a history of scale. Newfield will be doing a well clean out of the wellbore with the intention to increase hydrocarbon production and bring the well back up to economic production volumes.

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

Date: August 25, 2016
 By: *Dark Oust*

NAME (PLEASE PRINT) Mandie Crozier	PHONE NUMBER 435 646-4825	TITLE Regulatory Tech
SIGNATURE N/A	DATE 8/19/2016	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-13905
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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.		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: LONE TREE FED G-22-9-17
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		9. API NUMBER: 43013341590000
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: 1829 FNL 0724 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 22 Township: 09.0S Range: 17.0E 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/23/2016 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Well Clean Out"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
The well clean out has been completed on the above mentioned well. See attached job summary report.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 02, 2016		
NAME (PLEASE PRINT) Mandie Crozier	PHONE NUMBER 435 646-4825	TITLE Regulatory Tech
SIGNATURE N/A		DATE 8/30/2016

LiteChem Acid Job Procedure



8/22/2016

Derwin Priebe
 Hope Weller
 Newfield Exploration

Lone Tree G-22-9-17

LiteChem Acid Cleanup Treatment Volumes

Table 1: Recommended Volume for HCl Acid Cleanup

Stage	Chemical	Volume
<i>Pre Flush</i>	Fresh Water	10 gallons
<i>Pre Flush</i>	PAW3900	5 gallons
<i>Pre Flush</i>	FAW21	1 gallon
<i>Main Pill</i>	15% HCl Acid	110 gallons
<i>Main Pill</i>	CRO242ES	.5 gallons
<i>Main Pill</i>	PAW3900	10 gallons
<i>Main Pill</i>	FAW21	6 gallons
<i>1st Over Flush</i>	Fresh Water	282 gallons
<i>1st Over Flush</i>	FAW21	3 gallons
<i>1st Over Flush</i>	CRW9220	5 gallons
<i>1st Over Flush</i>	SCW356	5 gallons
<i>2nd Over Flush</i>	Fresh Water	68 gallons
<i>2nd Over Flush</i>	FAW21	1 gallons

Treatment recommendation needs to be applied as follows:

1. RUMO LiteChem equipment with necessary chemical and fresh water volumes
2. Inspect the equipment and tank vessels for condition/cleanliness (no solids, residual chemicals, crude or water should be present).
3. Conduct a pretreatment safety meeting with all personnel on location. **Review all related Material Safety Data Sheets and handling of dangerous goods. Take all necessary precautions when handling the chemicals.**
4. Stage recommended volume for treatment of **Fresh Water, PAW3900, 15% HCl, CRO242ES and FAW21** (See Table 1) on location
5. **Clutch unit and shut tubing and casing in at surface to ensure treatment to go down casing**
6. Load the recommended *Pre Flush Volume* of **Fresh Water, PAW3900 and FAW21** (in that order) (See Table 1) onto application vessel, circulate the mixture to reach complete mix and **pump via LiteChem applicator down the casing**

LiteChem Acid Job Procedure



7. Load the recommended *Main Pill Volume* of **15% HCl, CRO242ES, PAW3900** and **FAW21** (in that order) (See Table 1) onto application vessel, circulate the mixture to reach complete mix and **pump via LiteChem applicator down the casing**
8. Load the recommended *1st Over Flush Volume* of **Fresh Water, FAW21, CRW9220, and SCW356** (in that order) (See Table 1) onto application vessel, circulate the mixture to reach complete mix and **pump via LiteChem applicator down the casing**
9. **Wait 30 minutes in-between pumping step 8 and 9.** Load the recommended *2nd Over Flush Volume* of **Fresh Water and FAW21** (in that order) (See Table 1) onto application vessel, circulate the mixture to reach complete mix and **pump via LiteChem applicator down the casing**
10. Disconnect LiteChem equipment
11. **Leave well shut in for a minimum of 12-24 hours and return to production**