

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-075174
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. Sundance
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Sundance Federal K-10-9-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-34143
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/SW 1998' FSL 677' FWL Sec. 11, T9S R17E At proposed prod. zone 2660' FNL 70' FEL Sec. 10, T9S R17E		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximately 15.0 miles southeast of Myton, UT		11. Sec., T, R, M. or Blk. and Survey or Area Sec. 11, T9S R17E
15. Distance from proposed* location to nearest property or lease line, ft. Approx. 20' f/lse, 1250' f/unit (Also to nearest drig. unit line, if any)	16. No. of acres in lease 720.00	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. 1369'	19. Proposed Depth 5,895'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5116' GL	22. Approximate date work will start* 1st Qtr. 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 11/14/08
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Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL	Date 11-24-08
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)

Surf

586997X  
4432894Y  
40.043686  
-109.980204

BHL

586768X  
4433084Y  
40.045421  
-109.982863

Federal Approval of this  
Action is Necessary

RECEIVED

NOV 19 2008

DIV. OF OIL, GAS & MINING

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

# NEWFIELD PRODUCTION COMPANY

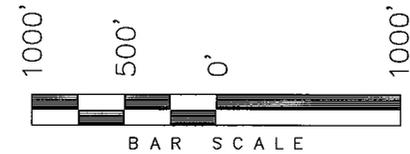
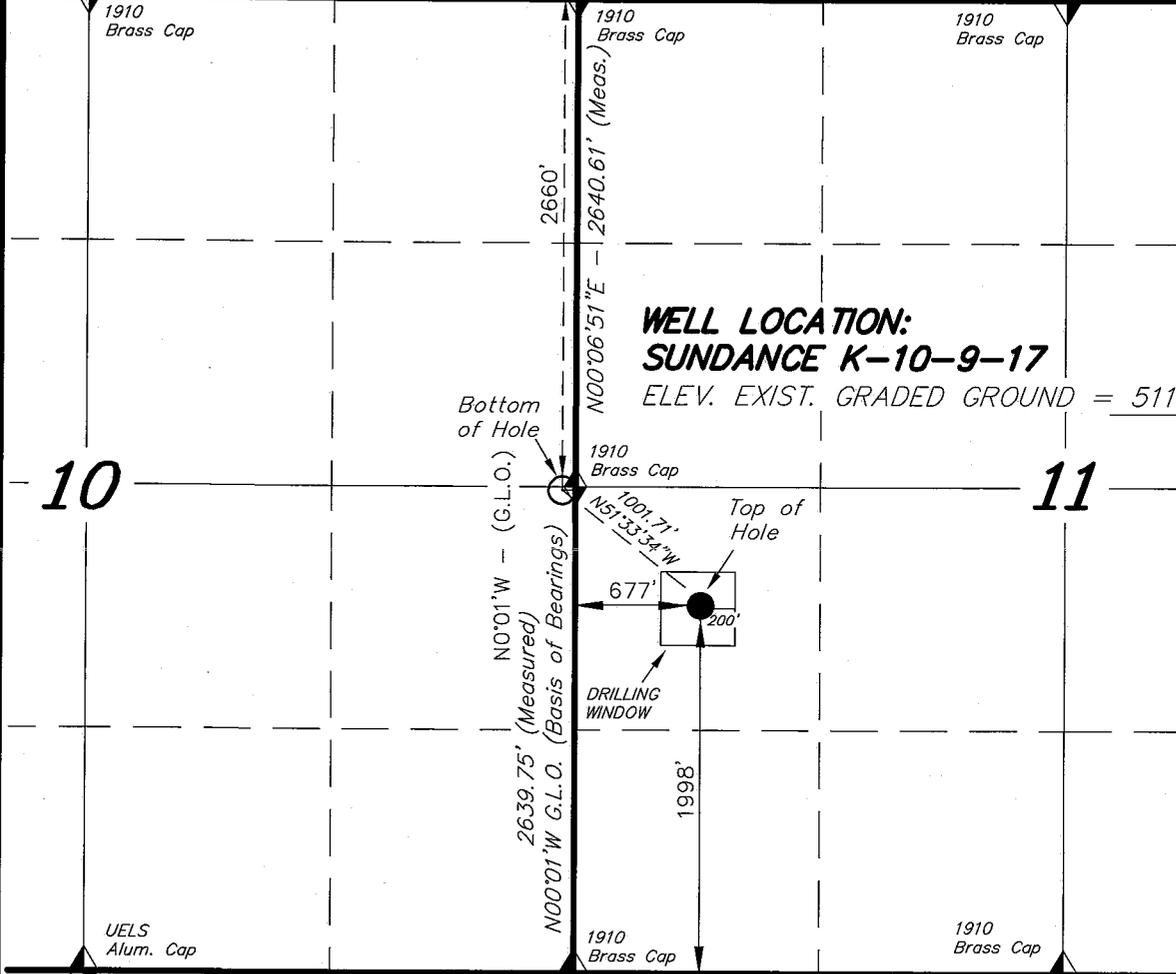
N89°57'W - 80.12 (G.L.O.)

N89°59'W - 80.06 (G.L.O.)

N89°49'56"W - 2646.43' (Meas.)

S89°58'18"W - 2644.21' (Meas.)

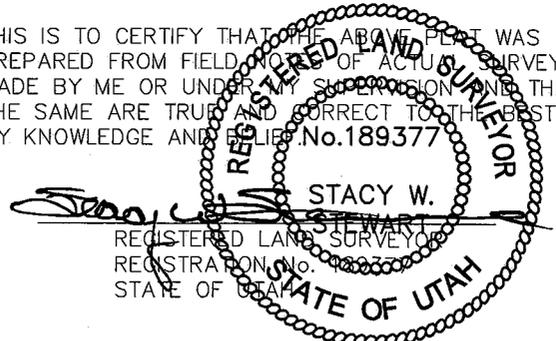
WELL LOCATION, SUNDANCE K-10-9-17,  
LOCATED AS SHOWN IN THE NW 1/4 SW  
1/4 OF SECTION 11, T9S, R17E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.



**WELL LOCATION:**  
**SUNDANCE K-10-9-17**  
ELEV. EXIST. GRADED GROUND = 5116'

**Note:**  
1. The bottom of hole footages  
are 2660' FNL & 70' FEL.

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



N89°59'27"W - 2641.82' (Meas.) N89°59'29"W - 2644.91' (Meas.)  
N89°58'W - 80.14 (G.L.O.) N89°58'W - 80.10 (G.L.O.)

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

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

**SUNDANCE K-10-9-17**  
**(Surface Location) NAD 83**  
LATITUDE = 40° 02' 37.23"  
LONGITUDE = 109° 58' 51.23"

DATE SURVEYED: 08-19-08	SURVEYED BY: T.H.
DATE DRAWN: 09-15-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

NEWFIELD PRODUCTION COMPANY  
SUNDANCE FEDERAL K-10-9-17  
AT SURFACE: NW/SW SECTION 11, 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' – 1248'
Green River	1248'
Wasatch	5895'

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

Green River Formation 1248' – 5895' - 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  
SUNDANCE FEDERAL K-10-9-17  
AT SURFACE: NW/SW SECTION 11, 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 Sundance Federal K-10-9-17 located in the NW 1/4 SW 1/4 Section 11, 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 - 13.0 miles  $\pm$  to its junction with an existing dirt road to the south; proceed southerly - 0.3 miles  $\pm$  to its junction with an existing dirt road to the northeast; proceed northeasterly - 0.3 miles  $\pm$  to the existing Federal 12-11-9-17 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 Federal 12-11-9-17 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 Federal 12-11-9-17 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Sundance Federal K-10-9-17. 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 Sundance Federal K-10-9-17 will be drilled off of the existing Federal 12-11-9-17 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 1350' of disturbed area be granted in Lease UTU-075174 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. 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 Sundance Federal K-10-9-17.

**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 Sundance Federal K-10-9-17 was on-sited on 9/24/08. The following were present; Kevan Stevens (Newfield Production ), Brandon McDonald (Bureau of Land Management), 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

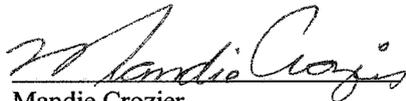
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #K-10-9-17 NW/SW Section 11, Township 9S, Range 17E: Lease UTU-075174 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.

11/14/08

Date

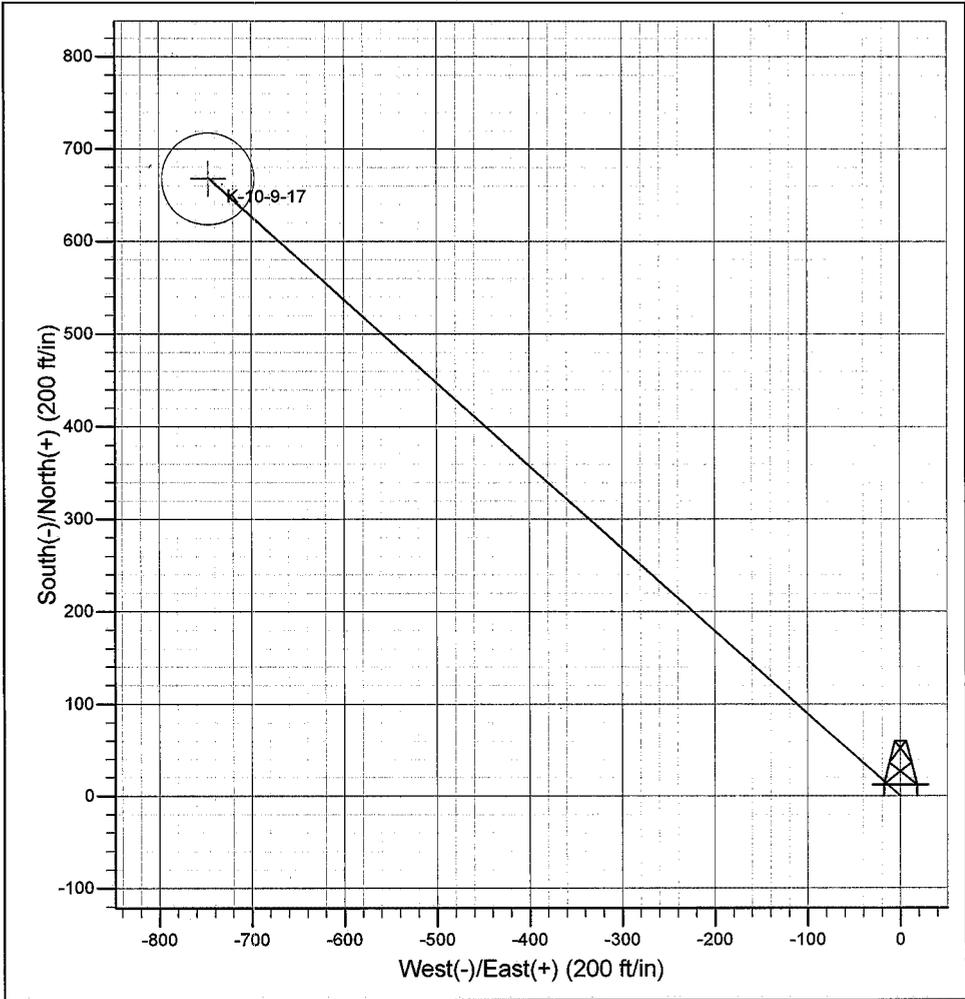
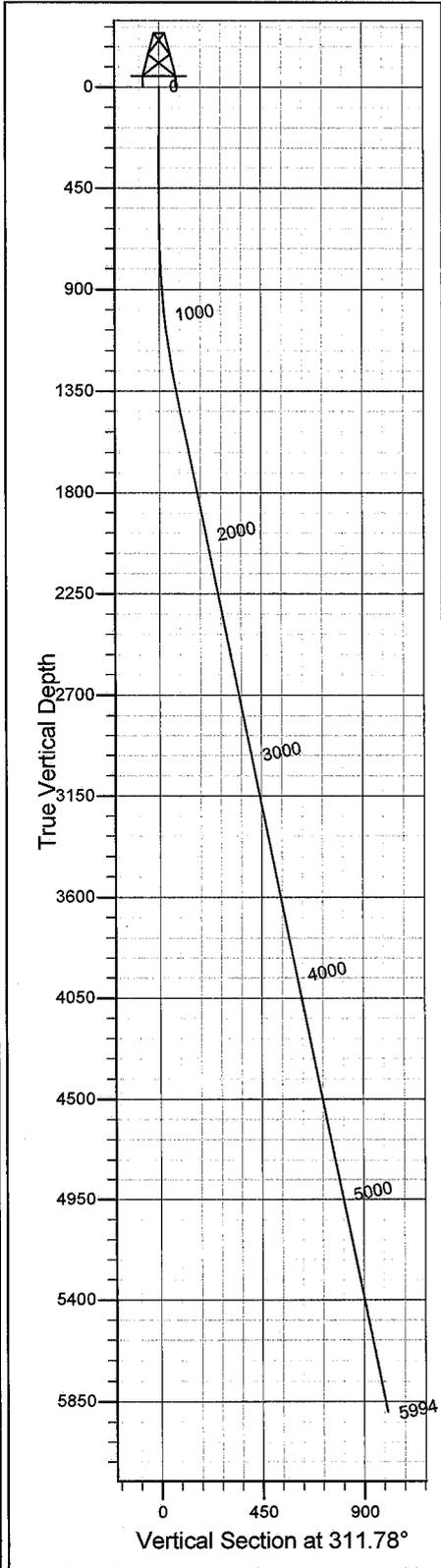
  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD



# Newfield Production Company

**Project: Monument Butte**  
**Site: Sundance K-10-9-17**  
**Well: Sundance K-10-9-17**  
**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	1368.8	11.53	311.78	1363.7	51.4	-57.5	1.50	311.78	77.1	
4	5993.5	11.53	311.78	5895.0	667.4	-747.0	0.00	0.00	1001.7	K-10-9-17

**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

T M  
 Azimuths to True North  
 Magnetic North: 11.60°  
 Magnetic Field  
 Strength: 52569.0snT  
 Dip Angle: 65.88°  
 Date: 11/5/2008  
 Model: IGRF200510

**Created by: Hans Wychgram**  
**Date: 11-05-2008**

**Database:** EDM 2003.21 Single User Db  
**Company:** Newfield Production Company  
**Project:** Monument Butte  
**Site:** Sundance K-10-9-17  
**Well:** Sundance K-10-9-17  
**Wellbore:** Wellbore #1  
**Design:** Design #1

**Local Co-ordinate Reference:** Well Sundance K-10-9-17  
**TVD Reference:** RKB @ 5128.0ft (NDSI #2)  
**MD Reference:** RKB @ 5128.0ft (NDSI #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

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

<b>Site</b>	Sundance K-10-9-17				
<b>Site Position:</b>		<b>Northing:</b>	2,190,981.09 m	<b>Latitude:</b>	40° 2' 37.230 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	629,620.87 m	<b>Longitude:</b>	109° 58' 51.230 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	0.97 °

<b>Well</b>	Sundance K-10-9-17					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	2,190,981.09 m	<b>Latitude:</b>	40° 2' 37.230 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	629,620.87 m	<b>Longitude:</b>	109° 58' 51.230 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,116.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	11/5/2008	11.60	65.88	52,569

<b>Design</b>	Design #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	311.78	

<b>Plan Sections</b>										
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	
1,368.8	11.53	311.78	1,363.7	51.4	-57.5	1.50	1.50	0.00	311.78	
5,993.5	11.53	311.78	5,895.0	667.4	-747.0	0.00	0.00	0.00	0.00	K-10-9-17

**Database:** EDM 2003.21 Single User Db  
**Company:** Newfield Production Company  
**Project:** Monument Butte  
**Site:** Sundance K-10-9-17  
**Well:** Sundance K-10-9-17  
**Wellbore:** Wellbore #1  
**Design:** Design #1

**Local Co-ordinate Reference:** Well Sundance K-10-9-17  
**TVD Reference:** RKB @ 5128.0ft (NDSI #2)  
**MD Reference:** RKB @ 5128.0ft (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	311.78	700.0	0.9	-1.0	1.3	1.50	1.50	0.00
800.0	3.00	311.78	799.9	3.5	-3.9	5.2	1.50	1.50	0.00
900.0	4.50	311.78	899.7	7.8	-8.8	11.8	1.50	1.50	0.00
1,000.0	6.00	311.78	999.3	13.9	-15.6	20.9	1.50	1.50	0.00
1,100.0	7.50	311.78	1,098.6	21.8	-24.4	32.7	1.50	1.50	0.00
1,200.0	9.00	311.78	1,197.5	31.3	-35.1	47.0	1.50	1.50	0.00
1,300.0	10.50	311.78	1,296.1	42.6	-47.7	64.0	1.50	1.50	0.00
1,368.8	11.53	311.78	1,363.7	51.4	-57.5	77.1	1.50	1.50	0.00
1,400.0	11.53	311.78	1,394.2	55.5	-62.2	83.3	0.00	0.00	0.00
1,500.0	11.53	311.78	1,492.2	68.9	-77.1	103.3	0.00	0.00	0.00
1,600.0	11.53	311.78	1,590.2	82.2	-92.0	123.3	0.00	0.00	0.00
1,700.0	11.53	311.78	1,688.1	95.5	-106.9	143.3	0.00	0.00	0.00
1,800.0	11.53	311.78	1,786.1	108.8	-121.8	163.3	0.00	0.00	0.00
1,900.0	11.53	311.78	1,884.1	122.1	-136.7	183.3	0.00	0.00	0.00
2,000.0	11.53	311.78	1,982.1	135.5	-151.6	203.3	0.00	0.00	0.00
2,100.0	11.53	311.78	2,080.1	148.8	-166.5	223.3	0.00	0.00	0.00
2,200.0	11.53	311.78	2,178.0	162.1	-181.4	243.3	0.00	0.00	0.00
2,300.0	11.53	311.78	2,276.0	175.4	-196.3	263.3	0.00	0.00	0.00
2,400.0	11.53	311.78	2,374.0	188.7	-211.2	283.3	0.00	0.00	0.00
2,500.0	11.53	311.78	2,472.0	202.1	-226.1	303.3	0.00	0.00	0.00
2,600.0	11.53	311.78	2,570.0	215.4	-241.1	323.3	0.00	0.00	0.00
2,700.0	11.53	311.78	2,667.9	228.7	-256.0	343.2	0.00	0.00	0.00
2,800.0	11.53	311.78	2,765.9	242.0	-270.9	363.2	0.00	0.00	0.00
2,900.0	11.53	311.78	2,863.9	255.3	-285.8	383.2	0.00	0.00	0.00
3,000.0	11.53	311.78	2,961.9	268.7	-300.7	403.2	0.00	0.00	0.00
3,100.0	11.53	311.78	3,059.9	282.0	-315.6	423.2	0.00	0.00	0.00
3,200.0	11.53	311.78	3,157.9	295.3	-330.5	443.2	0.00	0.00	0.00
3,300.0	11.53	311.78	3,255.8	308.6	-345.4	463.2	0.00	0.00	0.00
3,400.0	11.53	311.78	3,353.8	321.9	-360.3	483.2	0.00	0.00	0.00
3,500.0	11.53	311.78	3,451.8	335.3	-375.2	503.2	0.00	0.00	0.00
3,600.0	11.53	311.78	3,549.8	348.6	-390.1	523.2	0.00	0.00	0.00
3,700.0	11.53	311.78	3,647.8	361.9	-405.0	543.2	0.00	0.00	0.00
3,800.0	11.53	311.78	3,745.7	375.2	-420.0	563.2	0.00	0.00	0.00
3,900.0	11.53	311.78	3,843.7	388.5	-434.9	583.2	0.00	0.00	0.00
4,000.0	11.53	311.78	3,941.7	401.9	-449.8	603.2	0.00	0.00	0.00
4,100.0	11.53	311.78	4,039.7	415.2	-464.7	623.1	0.00	0.00	0.00
4,200.0	11.53	311.78	4,137.7	428.5	-479.6	643.1	0.00	0.00	0.00
4,300.0	11.53	311.78	4,235.6	441.8	-494.5	663.1	0.00	0.00	0.00
4,400.0	11.53	311.78	4,333.6	455.1	-509.4	683.1	0.00	0.00	0.00
4,500.0	11.53	311.78	4,431.6	468.5	-524.3	703.1	0.00	0.00	0.00
4,600.0	11.53	311.78	4,529.6	481.8	-539.2	723.1	0.00	0.00	0.00
4,700.0	11.53	311.78	4,627.6	495.1	-554.1	743.1	0.00	0.00	0.00
4,800.0	11.53	311.78	4,725.5	508.4	-569.0	763.1	0.00	0.00	0.00
4,900.0	11.53	311.78	4,823.5	521.7	-584.0	783.1	0.00	0.00	0.00
5,000.0	11.53	311.78	4,921.5	535.1	-598.9	803.1	0.00	0.00	0.00
5,100.0	11.53	311.78	5,019.5	548.4	-613.8	823.1	0.00	0.00	0.00
5,200.0	11.53	311.78	5,117.5	561.7	-628.7	843.1	0.00	0.00	0.00

**Database:** EDM 2003.21 Single User Db  
**Company:** Newfield Production Company  
**Project:** Monument Butte  
**Site:** Sundance K-10-9-17  
**Well:** Sundance K-10-9-17  
**Wellbore:** Wellbore #1  
**Design:** Design #1

**Local Co-ordinate Reference:** Well Sundance K-10-9-17  
**TVD Reference:** RKB @ 5128.0ft (NDSI #2)  
**MD Reference:** RKB @ 5128.0ft (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	11.53	311.78	5,215.5	575.0	-643.6	863.1	0.00	0.00	0.00
5,400.0	11.53	311.78	5,313.4	588.3	-658.5	883.0	0.00	0.00	0.00
5,500.0	11.53	311.78	5,411.4	601.7	-673.4	903.0	0.00	0.00	0.00
5,600.0	11.53	311.78	5,509.4	615.0	-688.3	923.0	0.00	0.00	0.00
5,700.0	11.53	311.78	5,607.4	628.3	-703.2	943.0	0.00	0.00	0.00
5,800.0	11.53	311.78	5,705.4	641.6	-718.1	963.0	0.00	0.00	0.00
5,900.0	11.53	311.78	5,803.3	655.0	-733.0	983.0	0.00	0.00	0.00
5,993.5	11.53	311.78	5,895.0	667.4	-747.0	1,001.7	0.00	0.00	0.00

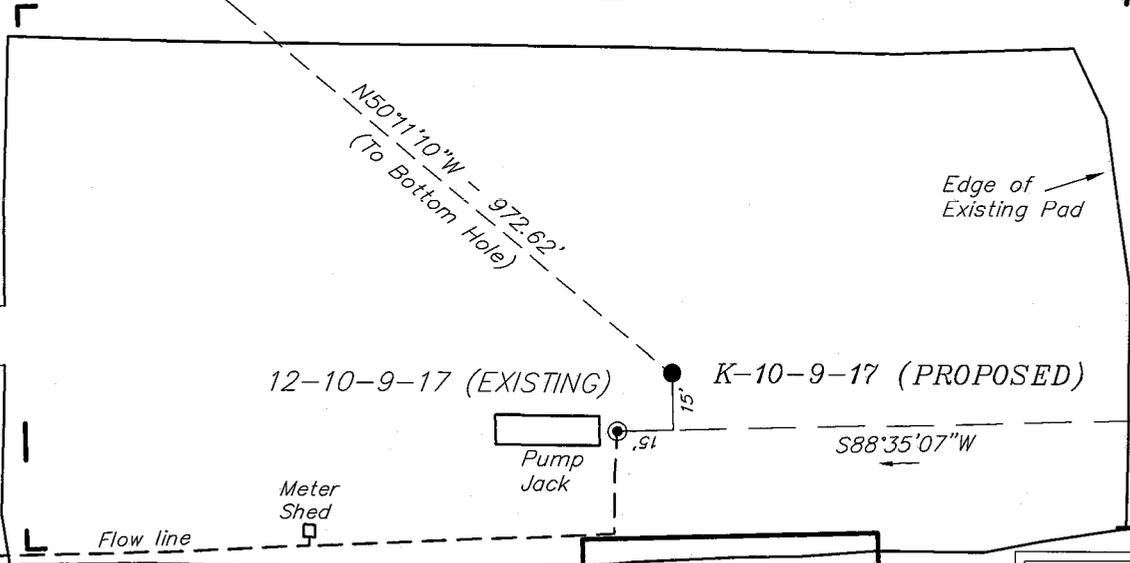
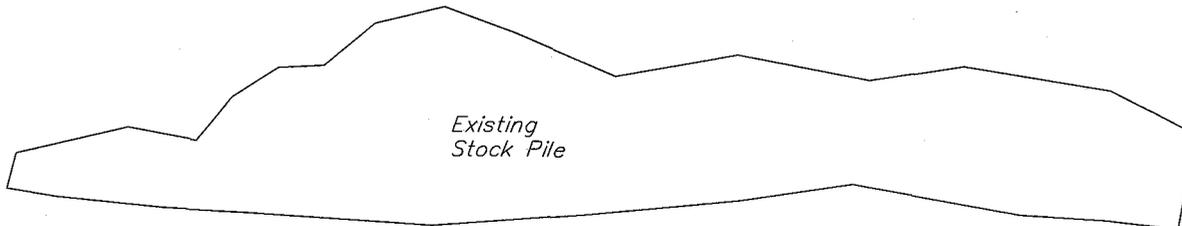
# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

SUNDANCE K-10-9-17 (Proposed Well)

SUNDANCE 12-11-9-17 (Existing Well)

Pad Location: NWSW Section 11, T9S, R17E, S.L.B.&M.



### TOP HOLE FOOTAGES

K-10-9-17 (PROPOSED)  
1998' FSL & 677' FWL

### BOTTOM HOLE FOOTAGES

K-10-9-17 (PROPOSED)  
2660' FNL & 70' FEL

Existing Access

12-10-9-17 (EXISTING)

K-10-9-17 (PROPOSED)

S88°35'07\"/>

Future Pit

**Note:**  
Bearings are based on  
GLO Information.

### LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
K-10-9-17	40° 02' 37.23\"/>	

RELATIVE COORDINATES From top hole to bottom hole		
WELL	NORTH	EAST
K-10-9-17	622'	-747'

SURVEYED BY: T.H.	DATE SURVEYED: 08-19-08
DRAWN BY: F.T.M.	DATE DRAWN: 09-15-08
SCALE: 1" = 50'	REVISED:

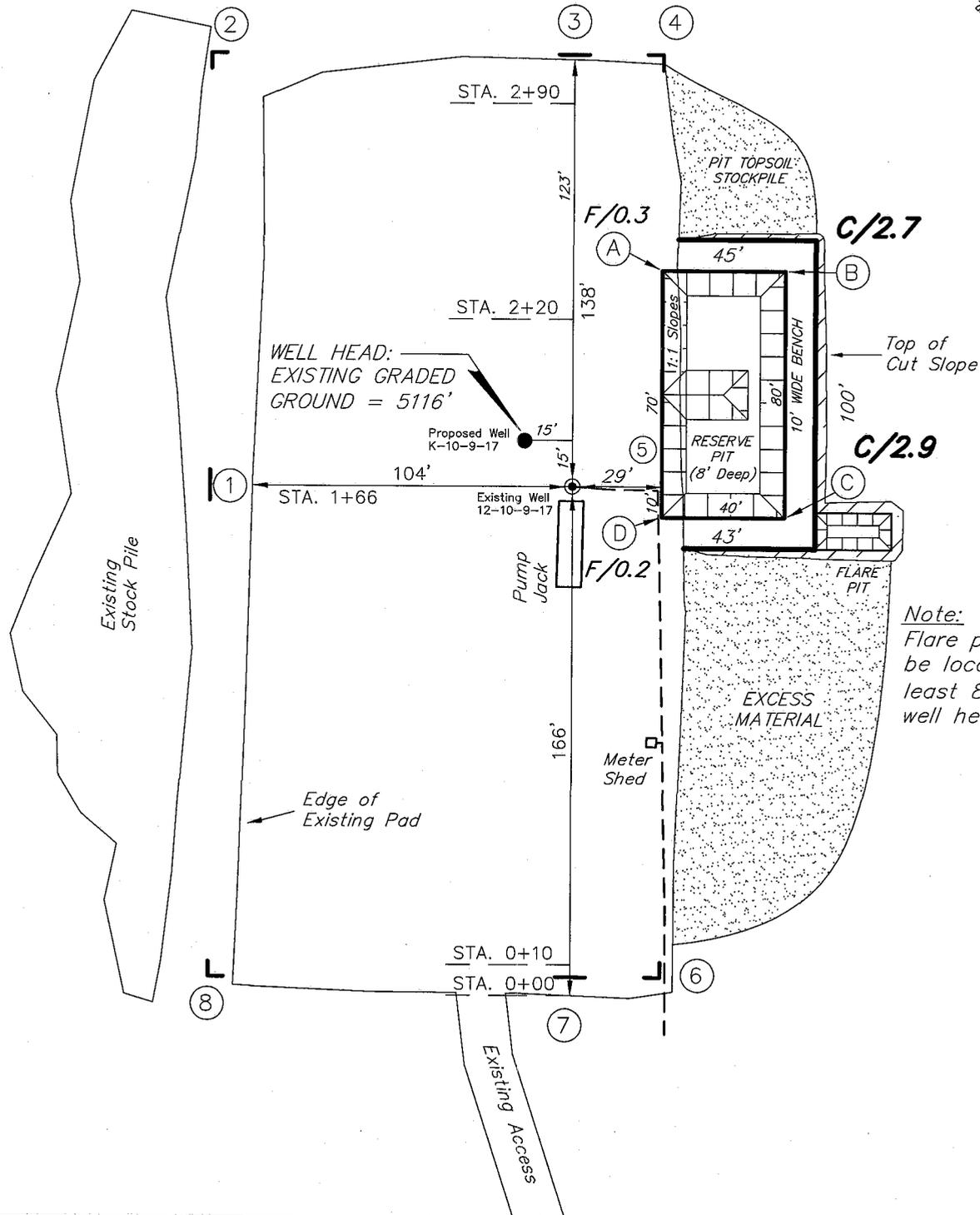
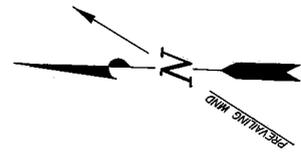
**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

SUNDANCE K-10-9-17 (Proposed Well)

SUNDANCE 12-11-9-17 (Existing Well)

Pad Location: NWSW Section 11, T9S, R17E, S.L.B.&M.



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

SURVEYED BY: T.H.	DATE SURVEYED: 08-19-08
DRAWN BY: F.T.M.	DATE DRAWN: 09-15-08
SCALE: 1" = 50'	REVISED:

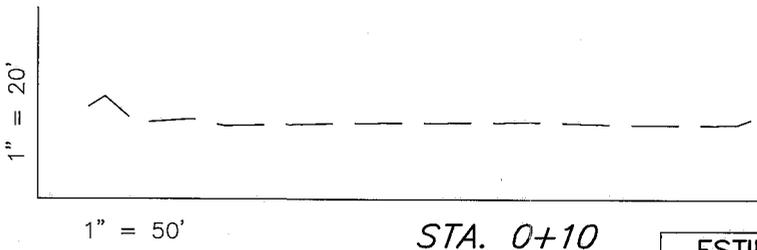
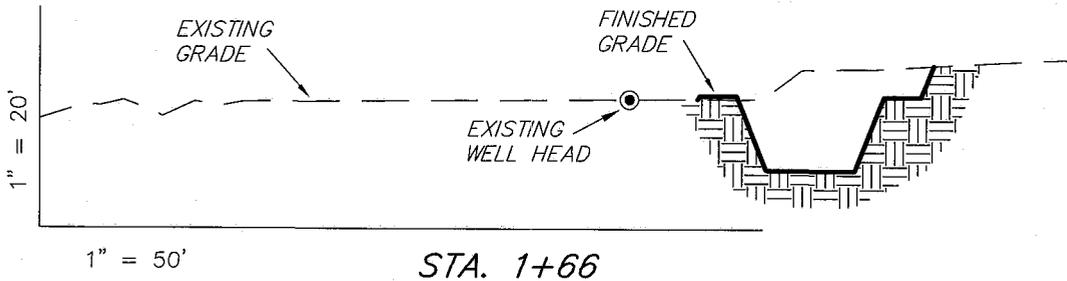
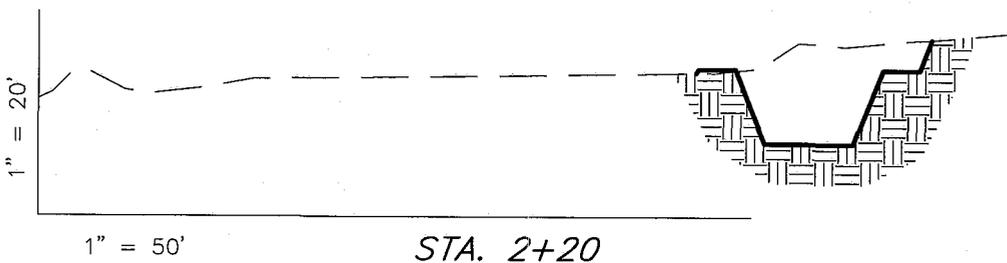
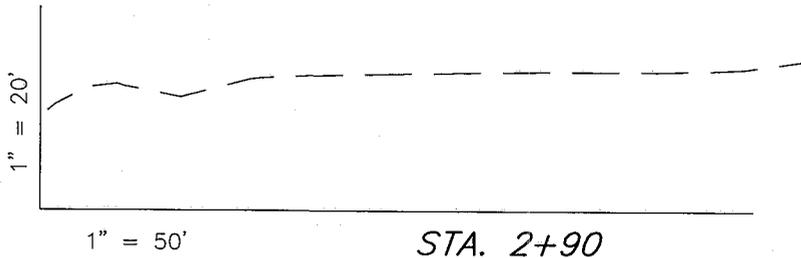
**Tri State** (435) 781-2501  
**Land Surveying, Inc.**  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

*SUNDANCE K-10-9-17 (Proposed Well)*

*SUNDANCE 12-11-9-17 (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	480	10	Topsoil is not included in Pad Cut	470
PIT	640	0		640
<b>TOTALS</b>	<b>1,120</b>	<b>10</b>	<b>130</b>	<b>1,110</b>

SURVEYED BY: T.H.	DATE SURVEYED: 08-19-08	
DRAWN BY: F.T.M.	DATE DRAWN: 09-15-08	
SCALE: 1" = 50'	REVISED:	

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



# Novfield Production Company Proposed Site Facility Diagram

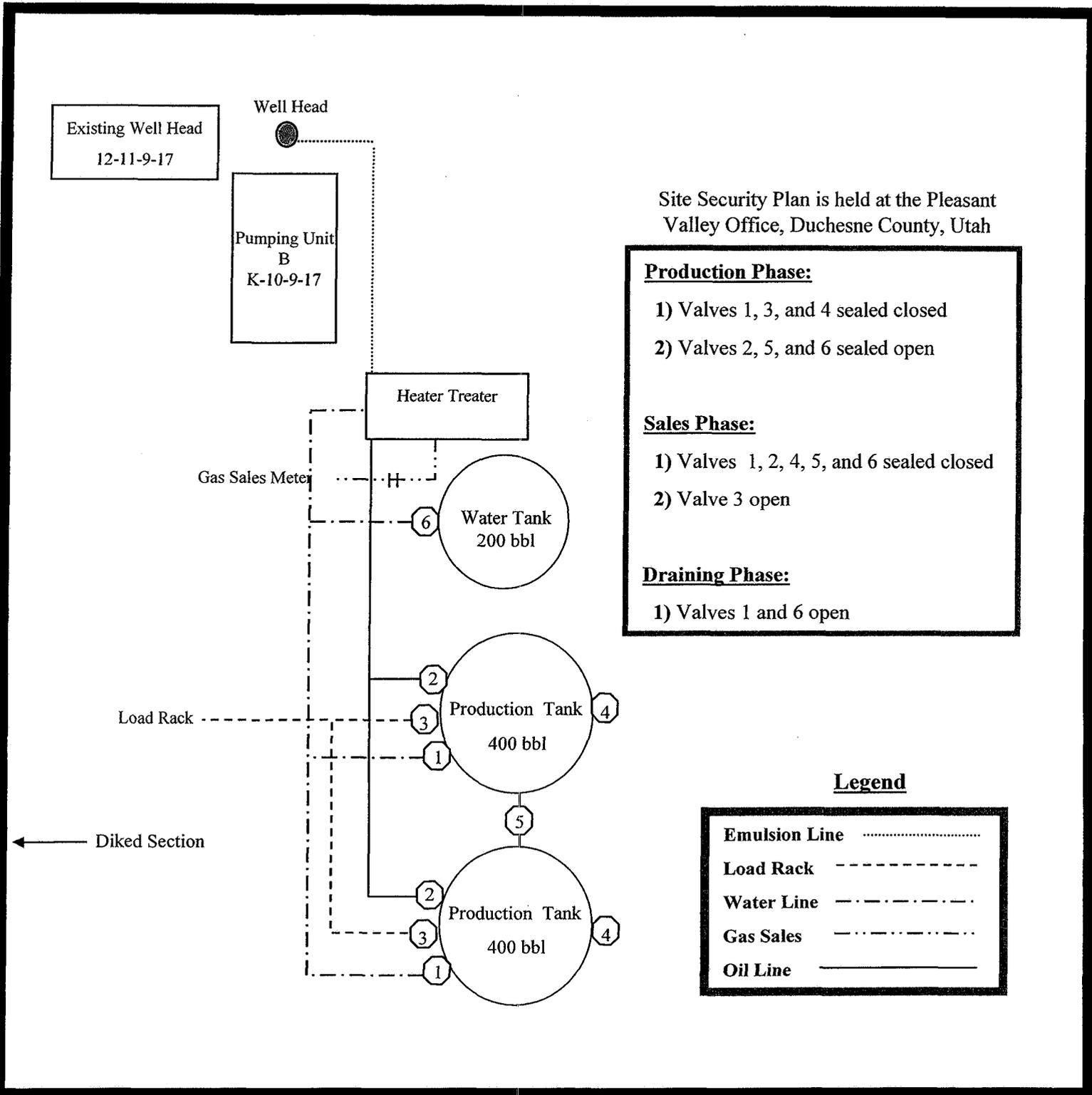
Sundance Federal K-10-9-17

From the 12-11-9-17 Location

NW/SW Sec. 11 T9S, R17E

Duchesne County, Utah

UTU-075174

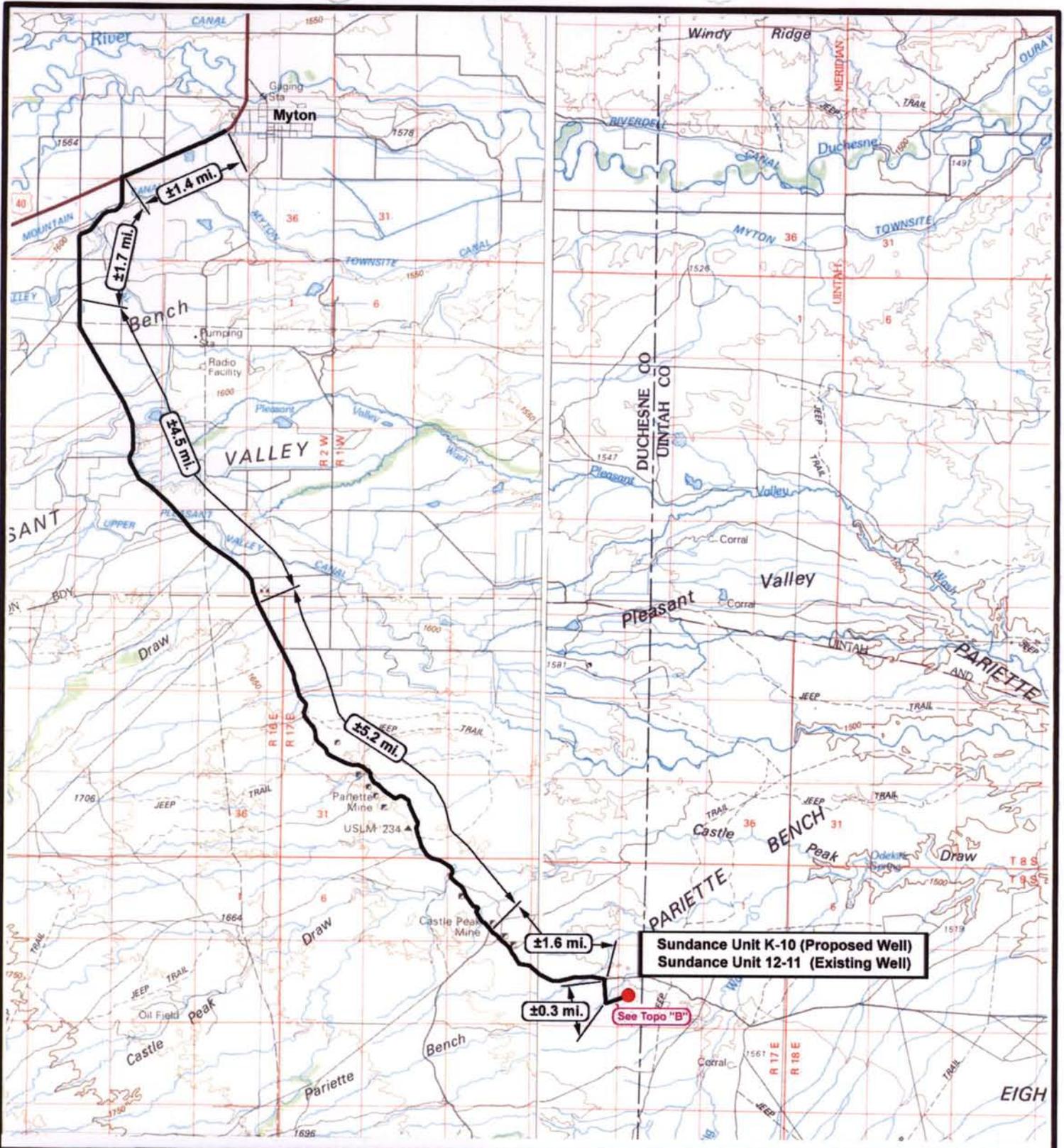


Site Security Plan is held at the Pleasant Valley Office, Duchesne County, Utah

- 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	_____



**NEWFIELD**  
Exploration Company

**Sundance Unit K-10-9-17 (Proposed Well)**  
**Sundance Unit 12-11-9-17 (Existing Well)**  
 Pad Location: NWSW SEC. 11, T9S, R17E, S.L.B.&M.



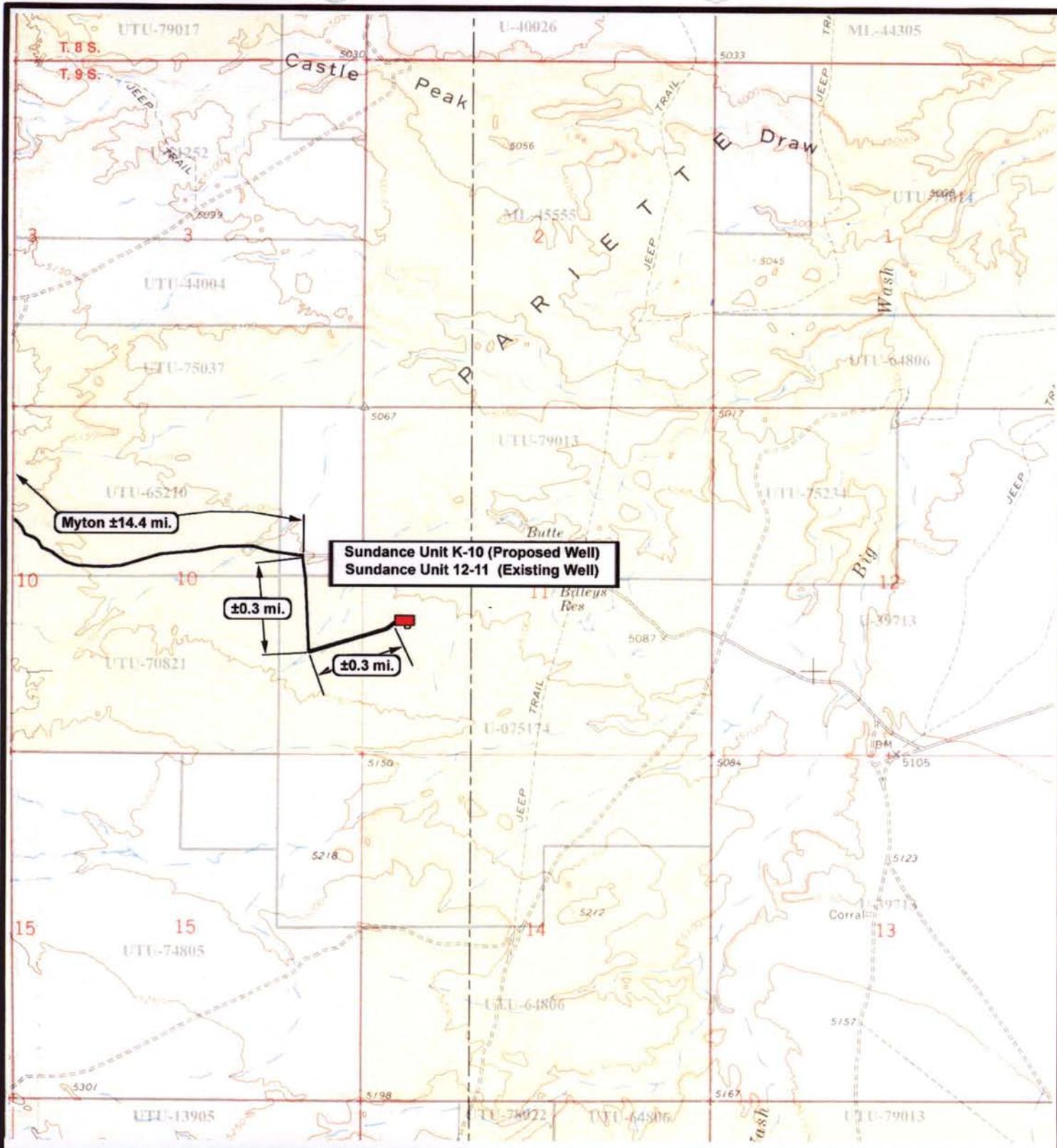
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
 DRAWN BY: JAS  
 DATE: 09-16-2008

**Legend**

- Existing Road
- Proposed Access

TOPOGRAPHIC MAP  
**"A"**



 **NEWFIELD**  
Exploration Company

**Sundance Unit K-10-9-17 (Proposed Well)**  
**Sundane Unit 12-11-9-17 (Existing Well)**  
 Pad Location: NWSW SEC. 11, T9S, R17E, S.L.B.&M.



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

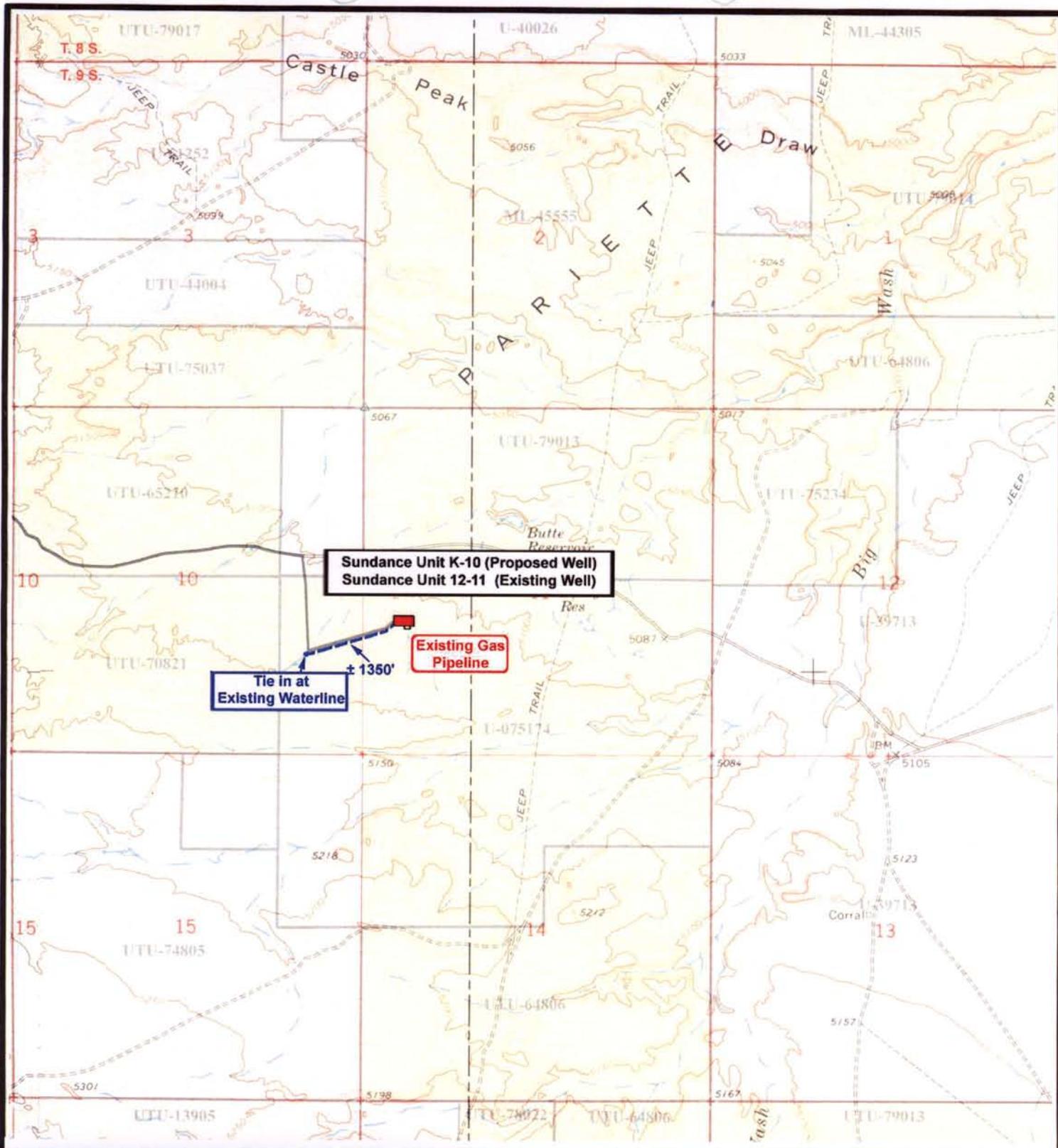
SCALE: 1" = 2,000'  
 DRAWN BY: JAS  
 DATE: 09-16-2008

**Legend**

-  Existing Road
-  Proposed Access

TOPOGRAPHIC MAP

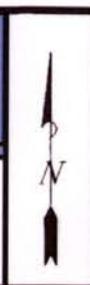
**"B"**




  
**NEWFIELD**  
 Exploration Company

---

**Sundance Unit K-10-9-17 (Proposed Well)**  
**Sundance Unit 12-11-9-17 (Existing Well)**  
 Pad Location: NWSW SEC. 11, 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: 09-16-2008**

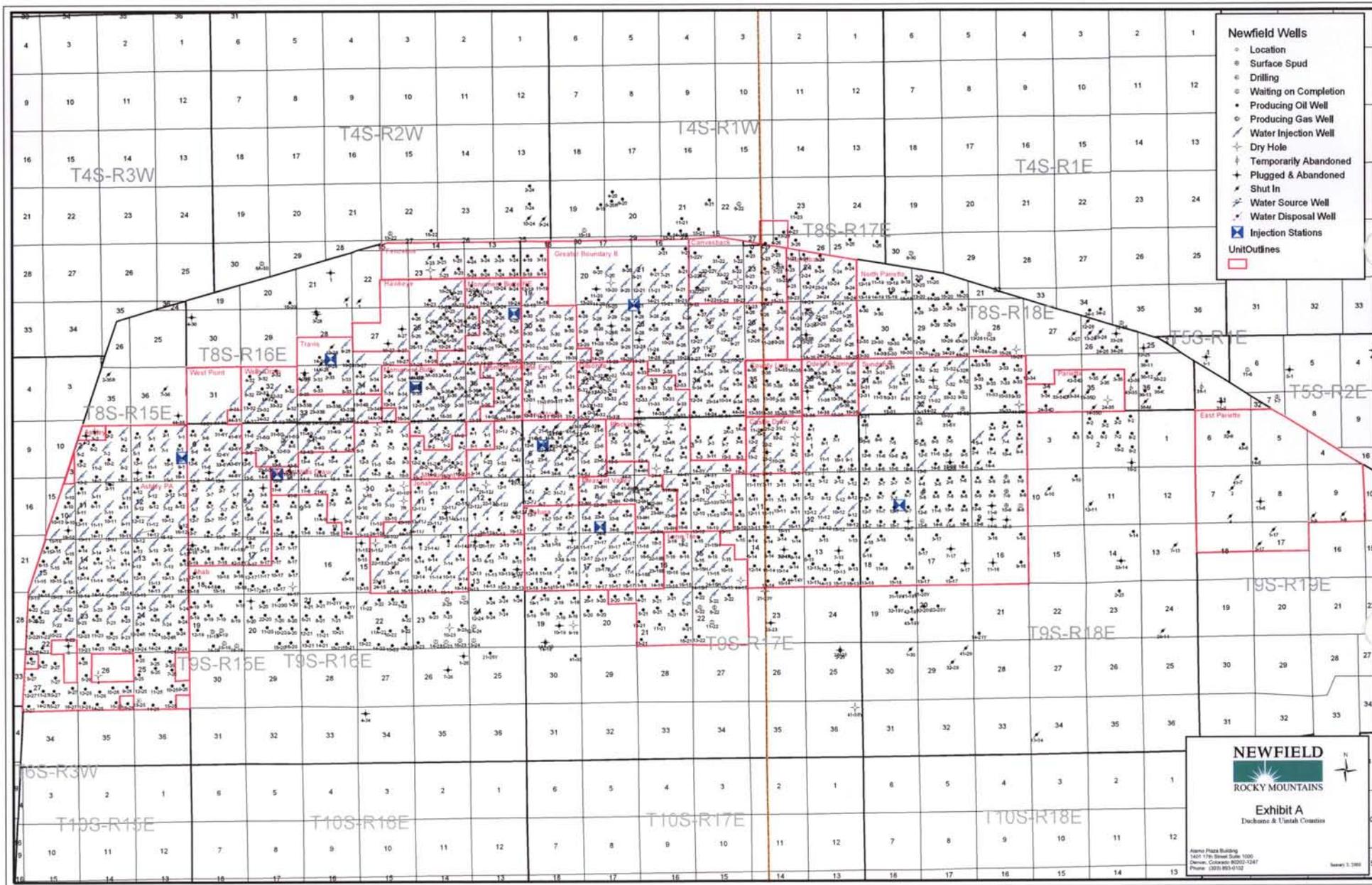
**Legend**

-  Roads
-  Existing Gas Line
-  Proposed Gas Line
-  Existing Water Line
-  Proposed Water Line

---

TOPOGRAPHIC MAP

**"C"**



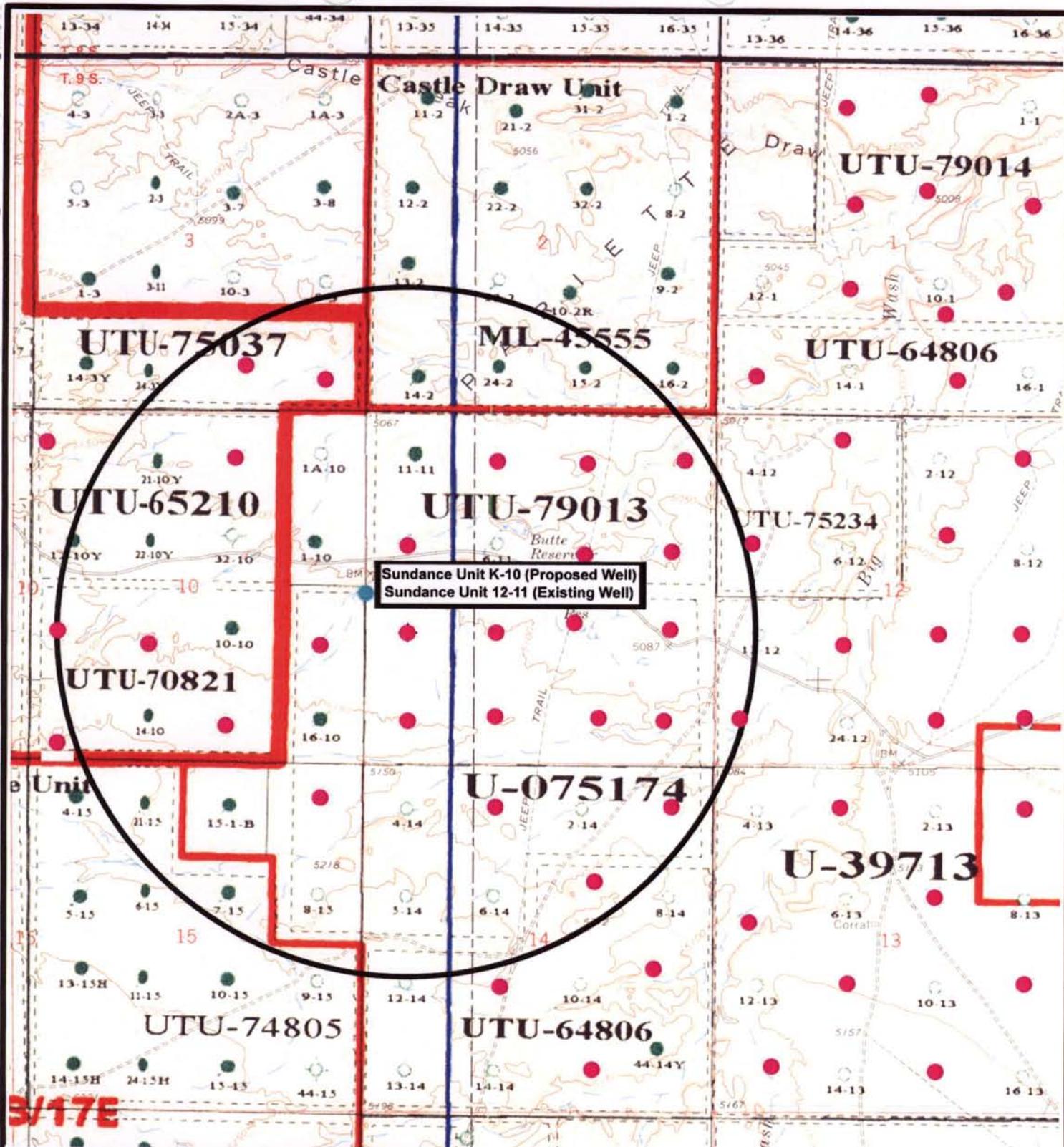
- Newfield Wells**
- Location
  - Surface Spud
  - Drilling
  - Waiting on Completion
  - Producing Oil Well
  - Producing Gas Well
  - Water Injection Well
  - Dry Hole
  - Temporarily Abandoned
  - Plugged & Abandoned
  - Shut In
  - Water Source Well
  - Water Disposal Well
  - ⊠ Injection Stations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

**NEWFIELD**  
 ROCKY MOUNTAINS

**Exhibit A**  
 Duchesne & Uintah Counties

Alamo Plaza Building  
 1401 17th Street, Suite 1000  
 Denver, Colorado 80202-1247  
 Phone: 303.855.6100

Issued: 1.1995



Sundance Unit K-10 (Proposed Well)  
 Sundance Unit 12-11 (Existing Well)

 **NEWFIELD**  
 Exploration Company

**Sundance Unit K-10-9-17 (Proposed Well)**  
**Sundance Unit 12-11-9-17 (Existing Well)**  
 Pad Location: NWSW SEC. 11, 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: 09-16-2008

**Legend**

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

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

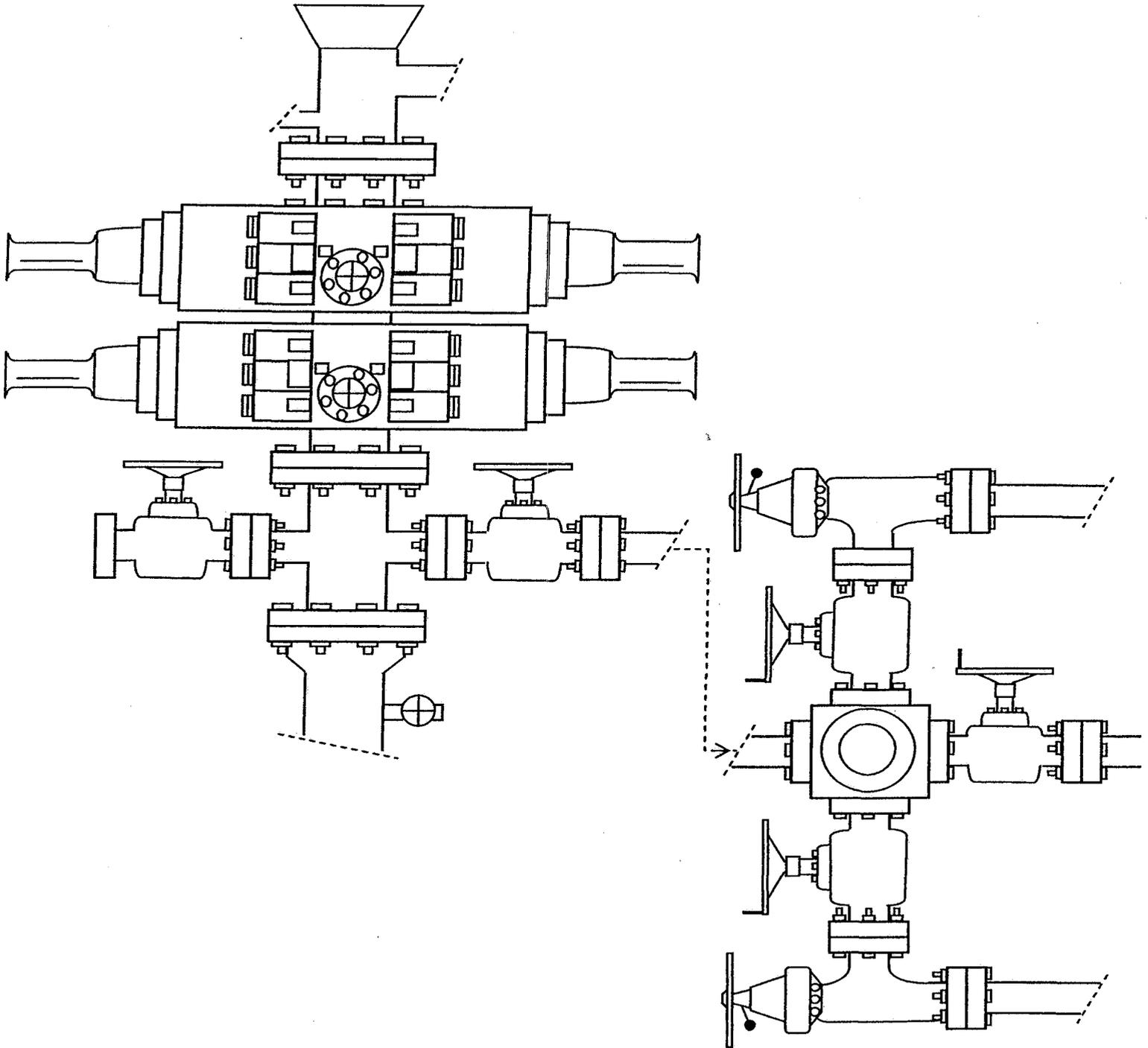


EXHIBIT C

Exhibit "D"  
1 of 4

# CULTURAL RESOURCE EVALUATION OF 16 PROPOSED INLAND UNITS IN THE SOUTH WELLS DRAW -- CASTLE PEAK DRAW -- PARIETTE BENCH LOCALITIES OF UINTAH & DUCHESNE COUNTIES, UTAH

Report Prepared for Inland Resources, Inc.

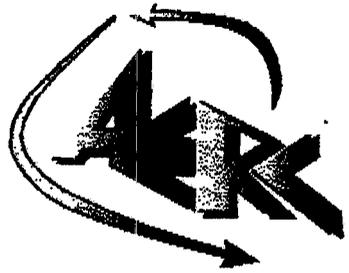
Units 6-10(9-16), 13-10(9-16), 7-36(8-17), 11-36(8-17), 1-35(8-17), 7-35(8-17), 9-35(8-17)  
9-2(9-17), 15-2(9-17), 16-2(9-17), 1-11(9-17), 2-11(9-17), 3-11(9-17), 6-11(9-17), 7-11(9-17),  
& 8-11(9-17)

Department of Interior Permit No.: UT-98-54937

Utah State Project No.: UT-98-AF-0166bs

AERC Project 1597 (CNG98-3B)

Author of the Report:  
F. Richard Hauck



## 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

E-mail: [ari@xmission.com](mailto:ari@xmission.com) Web page: [www.ari-aerc.org](http://www.ari-aerc.org)

April 20, 1998

**CULTURAL RESOURCE INVENTORY OF  
NINE WELL PADS AND IN-FILL  
LOCATIONS IN THE ASHLEY, LONE TREE,  
BLACK JACK, WELLS DRAW EXPANSION,  
AND CASTLE DRAW UNITS  
DUCHESNE AND UINTAH COUNTIES, UTAH**

*JBR Cultural Resource Report 99-26*

by  
*Richard Crosland*

prepared for  
**Inland Resources Inc.**  
**Denver, Colorado**

*submitted by*  
**JBR Environmental Consultants Inc.**  
**Springville, UT**

March 27, 2000

Federal BLM Permit No. 99UT55134  
Utah State Project Authorization No. U-99-JB-0331bs

**INLAND RESOURCES, INC.**

**PALEONTOLOGICAL FIELD SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
DUCHESNE AND UINTAH COUNTIES, UTAH**

(South 1/2 Section 6, T 9 S, R 18 E; South 1/2 Section 1, T 9 S, R 17 E;  
all of Sections 11 and 12, the NW, SE & NE quarters of the SW 1/4 Section 10,  
the NE 1/4 & SE 1/4 of the SE 1/4 Section 9, T 9 S, R 17 E and the SE 1/4, SW 1/4,  
NE 1/4 and SE 1/4 of the SE 1/4, Section 33, T 8 S, R 17 E.)

**REPORT OF SURVEY**

Prepared for:

**Inland Resources, Inc.**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
May 8, 2003

**INLAND RESOURCES, INC.**

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

(NE 1/4, SE 1/4, Sec. 10, T 9 S, R 17 E; SE 1/4, NW 1/4 &  
SW 1/4, NE 1/4, Sec. 29, T 8 S, R 17 E; South 1/2 Sec. 14  
T 9 S, R 16 E; and NW 1/4, Sec. 13, T 9 S, R 16 E)

**REPORT OF SURVEY**

Prepared for:

**Inland Resources, Inc.**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
January 8, 2004

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/19/2008

API NO. ASSIGNED: 43-013-34143
--------------------------------

WELL NAME: SUNDANCE FED K-10-9-17  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NWSW 11 090S 170E  
 SURFACE: 1998 FSL 0677 FWL  
 BOTTOM: 2660 FNL 0070 FEL Sec. 10  
 COUNTY: DUCHESNE  
 LATITUDE: 40.04369 LONGITUDE: -109.9802  
 UTM SURF EASTINGS: 586997 NORTHINGS: 4432894  
 FIELD NAME: MONUMENT BUTTE ( 105 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-075174  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

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

LOCATION AND SITING:

- R649-2-3.
- Unit: SUNDANCE (GRRV)
- R649-3-2. General
- Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 228-08  
Eff Date: 10-15-2005  
Siting: Sundance General Siting
- R649-3-11. Directional Drill

COMMENTS:

See Separate Plat

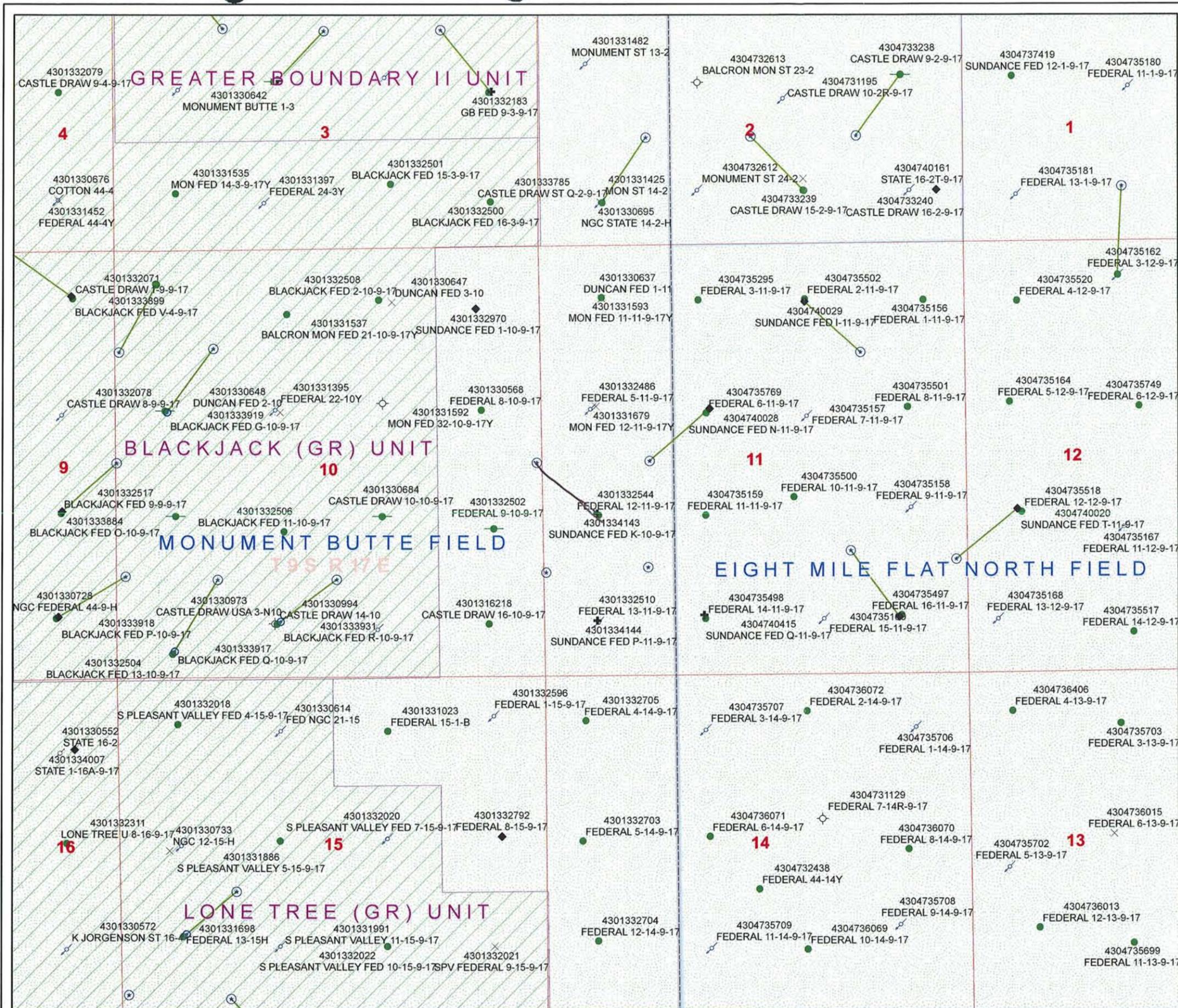
STIPULATIONS:

2 copies provided

**API Number: 4301334143**  
**Well Name: SUNDANCE FED K-10-9-17**  
**Township 09.0 S Range 17.0 E Section 11**  
**Meridian: SLBM**  
**Operator: NEWFIELD PRODUCTION COMPANY**

Map Prepared:  
 Map Produced by Diana Mason

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





November 17, 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  
**Sundance Federal K-10-9-17**  
Sundance Unit  
UTU-82472X  
Surface Hole: T9S R17E, Section 11: NWSW  
1998' FSL 677' FWL  
Bottom Hole: T9S R17E, Section 10  
2660' FNL 70' FEL  
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated November 14, 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 Sundance Unit UTU-82472X. Newfield certifies that it is the Sundance Unit Operator and all lands within 460 feet of the entire directional well bore are within the Sundance 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](mailto:reveland@newfield.com). Your consideration of this matter is greatly appreciated.

Sincerely,

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

Roxann Eveland  
Land Associate

RECEIVED  
NOV 20 2008  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

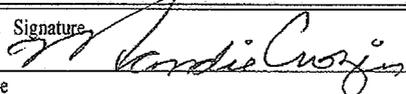
APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. UTU-075174	
6. If Indian, Allottee or Tribe Name NA	
7. If Unit or CA Agreement, Name and No. Sundance	
8. Lease Name and Well No. Sundance Federal K-10-9-17	
9. API Well No.	
10. Field and Pool, or Exploratory Monument Butte	
11. Sec., T, R, M. or Blk. and Survey or Area Sec. 11, T9S R17E	
12. County or Parish Duchesne	13. State UT
14. Distance in miles and direction from nearest town or post office* Approximately 15.0 miles southeast of Myton, UT	15. Distance from proposed* location to nearest property or lease line, ft. Approx. 20' f/lse, 1250' f/unit (Also to nearest drig. unit line, if any)
16. No. of acres in lease 720.00	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. 1369'	19. Proposed Depth 5,895'
20. BLM/BIA Bond No. on file WYB000493	21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5116' GL
22. Approximate date work will start* 1 <sup>st</sup> Qtr. 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 11/14/08
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  
NOV 20 2008  
DIV. OF OIL, GAS & MINING

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

NEWFIELD PRODUCTION COMPANY

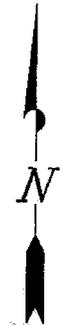
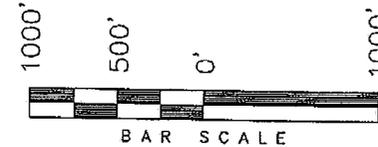
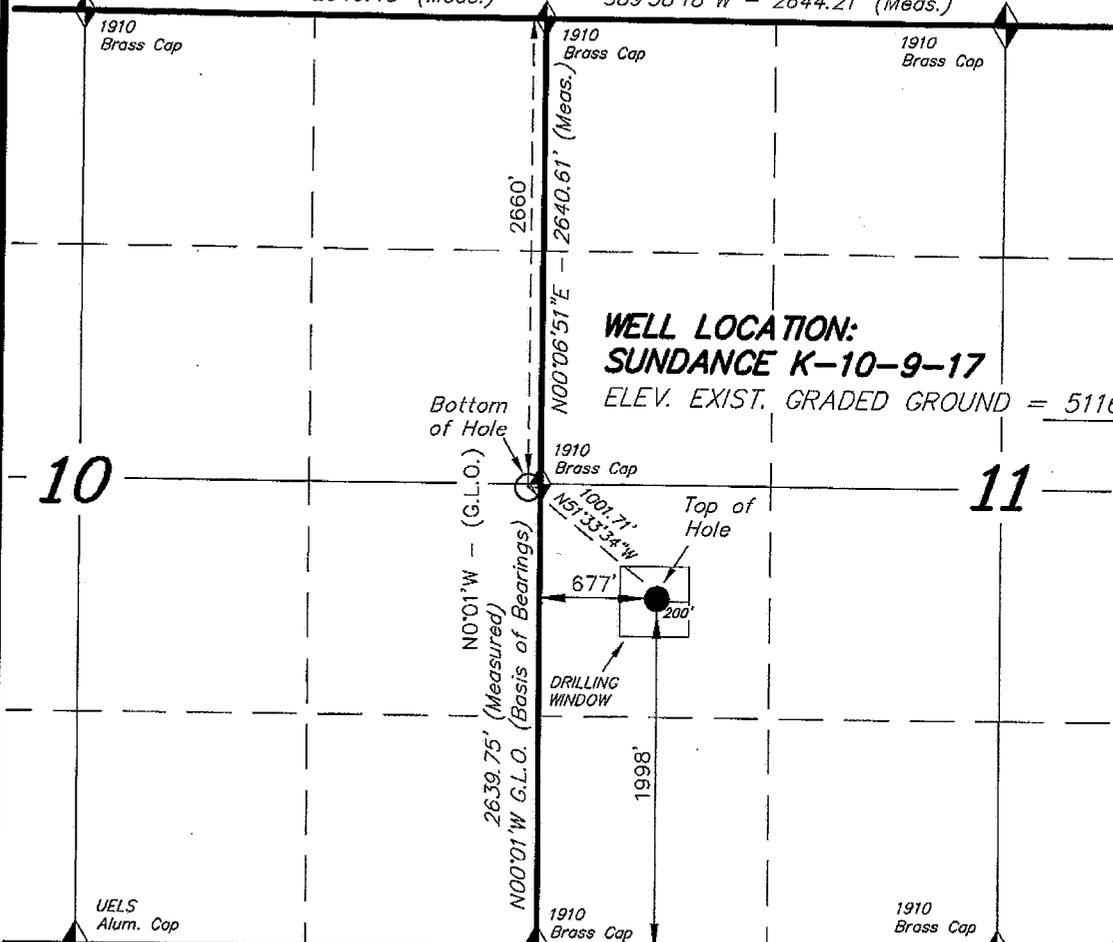
N89°57'W - 80.12 (G.L.O.)

N89°59'W - 80.06 (G.L.O.)

N89°49'56"W - 2646.43' (Meas.)

S89°58'18"W - 2644.21' (Meas.)

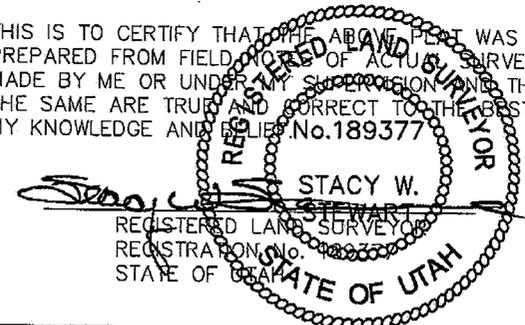
WELL LOCATION, SUNDANCE K-10-9-17,  
LOCATED AS SHOWN IN THE NW 1/4 SW  
1/4 OF SECTION 11, T9S, R17E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.



**Note:**

1. The bottom of hole footages are 2660' FNL & 70' FEL.

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



10

11

N89°59'27"W - 2641.82' (Meas.)  
N89°58'W - 80.14 (G.L.O.)

N89°59'29"W - 2644.91' (Meas.)  
N89°58'W - 80.10 (G.L.O.)

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

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

**SUNDANCE K-10-9-17**  
(Surface Location) NAD 83  
LATITUDE = 40° 02' 37.23"  
LONGITUDE = 109° 58' 51.23"

DATE SURVEYED: 08-19-08	SURVEYED BY: T.H.
DATE DRAWN: 09-15-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

# 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)

November 21, 2008

### Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2008 Plan of Development Sundance Unit, Uintah 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 Sundance Unit, Uintah County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-047-40414	Sundance Fed F-33-8-18	Sec 33 T08S R18E 1792 FNL 0878 FWL BHL Sec 33 T08S R18E 1245 FNL 0100 FWL
43-047-40415	Sundance Fed Q-11-9-17	Sec 11 T09S R17E 0735 FSL 1989 FWL BHL Sec 11 T09S R17E 1330 FSL 1305 FWL
43-013-34143	Sundance Fed K-10-9-17	Sec 11 T09S R17E 1998 FSL 0677 FWL BHL Sec 10 T09S R17E 2660 FNL 0070 FEL
43-013-34144	Sundance Fed P-11-9-17	Sec 11 T09S R17E 0679 FSL 0672 FWL BHL Sec 11 T09S R17E 1280 FSL 0040 FWL

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 – Sundance 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

November 24, 2008

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

Re: Sundance Federal K-10-9-17 Well, Surface Location 1998' FSL, 677' FWL, NW SW, Sec. 11, T. 9 South, R. 17 East, Bottom Location 2660' FNL, 70' FEL, NE SE, Sec. 10, 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 43-013-34143.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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



Operator: Newfield Production Company

Well Name & Number Sundance Federal K-10-9-17

API Number: 43-013-34143

Lease: UTU-075174

Surface Location: NW SW      Sec. 11      T. 9 South      R. 17 East

Bottom Location: NE SE      Sec. 10      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.

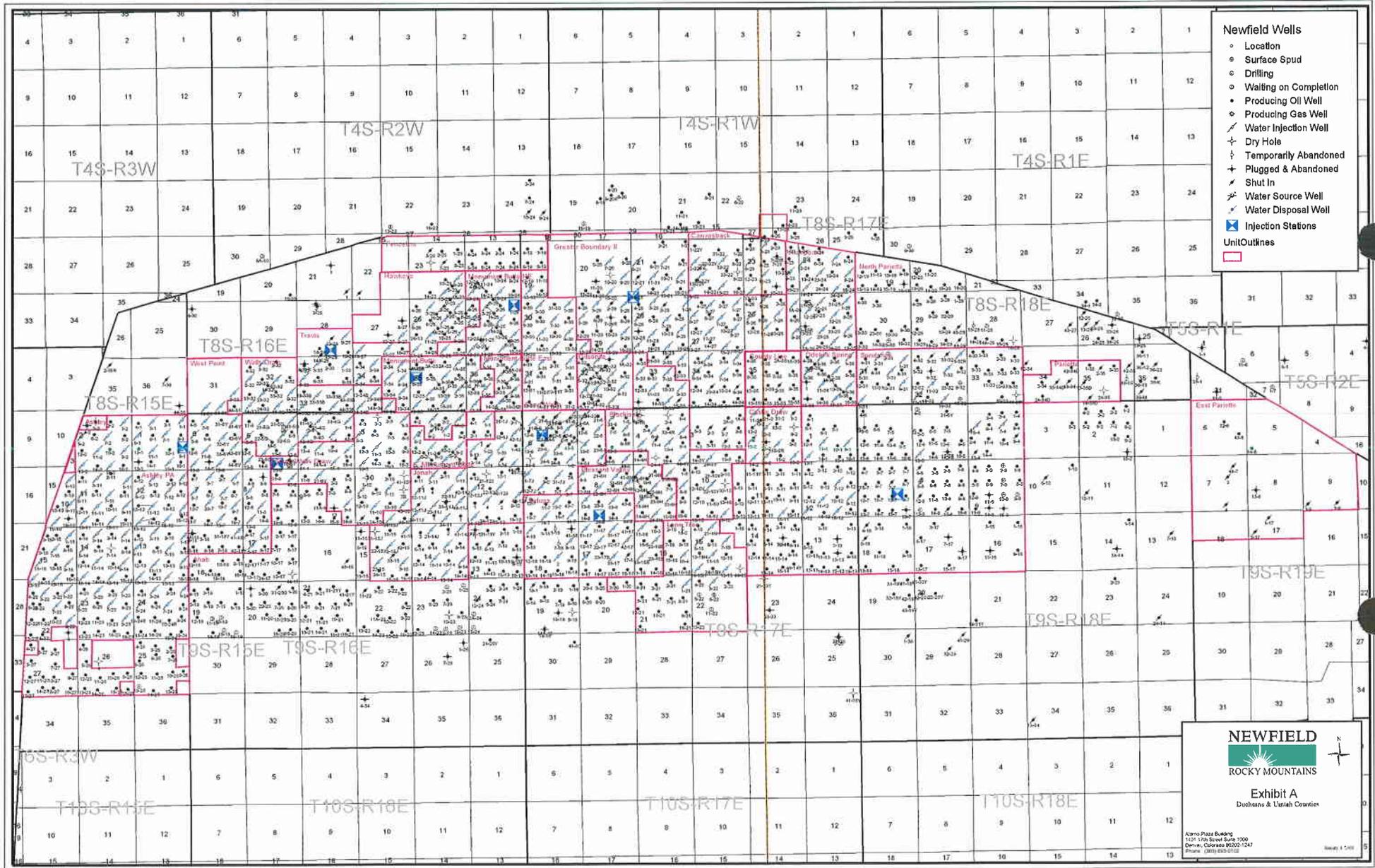
- Contact Dustin Doucet at (801) 538-5281      (801) 733-0983 home

#### 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  
VERNAL FIELD OFFICE

APPLICATION FOR PERMIT TO DRILL OR REENTER 1 45

5. Lease Serial No.  
UTU-075174

6. If Indian, Allottee or Tribe Name  
NA

7. If Unit or CA Agreement, Name and No.  
Sundance

8. Lease Name and Well No.  
Sundance Federal K-10-9-17

9. API Well No.  
43 013 3A143

10. Field and Pool, or Exploratory  
Monument Butte

11. Sec., T. R. M. or Blk. and Survey or Area  
Sec. 11, T9S R17E

12. County or Parish  
Duchesne

13. State  
UT

1a. Type of work:  DRILL  REENTER  
1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

2. Name of Operator Newfield Production Company

3a. Address Route #3 Box 3630, Myton UT 84052  
3b. Phone No. (include area code)  
(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*  
At surface NW/SW 1998' FSL 677' FWL Sec. 11, T9S R17E  
At proposed prod. zone 2660' FNL 70' FEL Sec. 10, T9S R17E NESE

14. Distance in miles and direction from nearest town or post office\*  
Approximately 15.0 miles southeast of Myton, UT

15. Distance from proposed\* location to nearest property or lease line, ft. Approx. 20' f/lse, 1250' f/unit (Also to nearest drig. unit line, if any)  
16. No. of acres in lease 720.00  
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. 1369'  
19. Proposed Depth 5,895'  
20. BLM/BIA Bond No. on file WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5116' GL  
22. Approximate date work will start\* 1<sup>st</sup> Qtr. 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:

- 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 *Mandie Crozier* Name (Printed/Typed) Mandie Crozier Date 11/14/08

Title Regulatory Specialist

Approved by (Signature) *[Signature]* Name (Printed/Typed) *Jess Kress* Date APR 16 2009

Title Assistant Field Manager Lands & 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)

**NOTICE OF APPROVAL**

NOS 09/22/08

AFMSS# 089X50249A



RECEIVED

APR 22 2009

DIV. OF OIL, GAS & MINING



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4401



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

<b>Company:</b>	<b>Newfield Production Company</b>	<b>Location:</b>	<b>NWSW, Sec. 11, T9S, R17E (S) NESE, Sec. 10, T9S, R17E (B)</b>
<b>Well No:</b>	<b>Sundance Federal K-10-9-17</b>	<b>Lease No:</b>	<b>UTU-075174</b>
<b>API No:</b>	<b>43-013-34143</b>	<b>Agreement:</b>	<b>N/A</b>

Title	Name	Office Phone Number	Cell Phone Number
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
		<b>Fax: (435) 781-3420</b>	

**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<sub>x</sub> 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<sub>x</sub> 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.

**CONDITIONS OF APPROVAL:**

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.

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 re-spreading 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 closed, it shall be re-contoured and the topsoil re-spread, 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 1<sup>st</sup> 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:**

- 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 re-contoured and the topsoil re-spread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, the well location, access, and any disturbed areas shall be re-contoured to natural topography, topsoil shall be re-spread, and the entire location shall be seeded following guidelines in the seed mix bullet statement above. Final seed mix: same as interim unless otherwise instructed. If reclamation seeding shall 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 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\\_Wellogs@BLM.gov](mailto:UT_VN_Wellogs@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.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-075174
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> SUNDANCE (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> SUNDANCE FED K-10-9-17
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013341430000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1998 FSL 0677 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 11 Township: 09.0S Range: 17.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE  <b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH

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

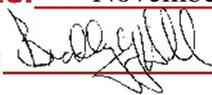
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 11/23/2009	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> 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"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> 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:** November 24, 2009

**By:** 

<b>NAME (PLEASE PRINT)</b> Mandie Crozier	<b>PHONE NUMBER</b> 435 646-4825	<b>TITLE</b> Regulatory Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/23/2009	



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 43013341430000

API: 43013341430000

Well Name: SUNDANCE FED K-10-9-17

Location: 1998 FSL 0677 FWL QTR NWSW SEC 11 TWP 090S RNG 170E MER S

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 11/24/2008

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: 11/23/2009

Title: Regulatory Tech Representing: NEWFIELD PRODUCTION COMPANY

Date: November 24, 2009

By:

[Handwritten signature]

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.  
UT-075174

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.  
GMBU

2. Name of Operator  
NEWFIELD EXPLORATION COMPANY

8. Lease Name and Well No.  
SUNDANCE FEDERAL K-10-9-17

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

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

9. AFI Well No.  
43-013-34143

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface 1998' FSL & 677' FWL (NW/SW) SEC. 11, T9S, R17E

At top prod. interval reported below 2532' FSL & 8' FEL (NE/SE) SEC. 10, T9S, R17E

At total depth 2561' FNL & 225' FEL (SE/NE) SEC. 10, T9S, R17E

10. Field and Pool or Exploratory  
MONUMENT BUTTE

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

12. County or Parish  
DUCHESNE

13. State  
UT

14. Date Spudded  
03/08/2010

15. Date T.D. Reached  
03/17/2010

16. Date Completed 04/07/2010  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5116' GL 5128' KB

18. Total Depth: MD 5975'  
TVD 5841'

19. Plug Back T.D.: MD 5928'  
TVD 5799'

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	319'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	5943'		280 PRIMLITE		70'	
						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@ 5820'	TA @ 5721'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River			5747-5755' CP5	.36"	3	24
B) Green River			5491-5628' CP1 CP2 CP3	.36"	3	30
C) Green River			5083-5088' A1 A3	.36"	3	24
D) Green River			4675-4795' D2 C	.36"	3	45

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

Depth Interval	Amount and Type of Material
5747-5755'	Frac w/ 25621#s 20/40 sand in 221 bbls of Lightning 17 fluid. (CP5)
5491-5628'	Frac w/ 46106#s 20/40 sand in 306 bbls of Lightning 17 fluid. (CP1 CP2 CP3)
5083-5088'	Frac w/ 24412#s 20/40 sand in 210 bbls of Lightning 17 fluid. (A1 A3)
4675-4795'	Frac w/ 74427#s 20/40 sand in 472 bbls of Lightning 17 fluid. (D2 C)

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
4-6-10	4-20-10	24	→	34	0	17			2-1/2" x 1-3/4" x 20' 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	
			→						

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

RECEIVED

MAY 05 2010

DIV. OF OIL, GAS & MINING

28b. Production - Interval C

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

28c. Production - Interval D

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

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

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

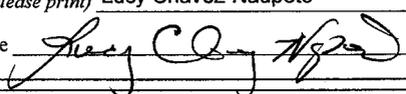
Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	3597' 3787'
				GARDEN GULCH 2 POINT 3	3902' 4171'
				X MRKR Y MRKR	4418' 4454'
				DOUGALS CREEK MRK BI CARBONATE MRK	4582' 4830'
				B LIMESTON MRK CASTLE PEAK	4957' 5419'
				BASAL CARBONATE	5852'

32. Additional remarks (include plugging procedure):

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

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

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

Name (please print) Lucy Chavez-Naupoto Title Administrative Assistant  
 Signature  Date 04/27/2010

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**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 11T9S, R17E  
K-10-9-17**

**Wellbore #1**

**Design: Actual**

## **Standard Survey Report**

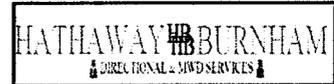
**17 March, 2010**

**HATHAWAY <sup>HB</sup> BURNHAM**  
**DIRECTIONAL & MWD SERVICES**



# HATHAWAY BURNHAM

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 11 T9S, R17E  
**Well:** K-10-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well K-10-9-17  
**TVD Reference:** K-10-9-17 @ 5128.0ft (RIG #2)  
**MD Reference:** K-10-9-17 @ 5128.0ft (RIG #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

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

<b>Site</b>		SECTION 11 T9S, R17E			
<b>Site Position:</b>		<b>Northing:</b>	7,188,850.00ft	<b>Latitude:</b>	40° 2' 42.884 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,067,681.14ft	<b>Longitude:</b>	109° 58' 25.383 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.98 °

<b>Well</b>	K-10-9-17, SHL LAT: 40 02 37.23, LONG: -109 58 51.23				
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	-205,667,850.00 ft	<b>Latitude:</b> 82° 46' 12.000 S
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	5,681,151.43 ft	<b>Longitude:</b> 109° 58' 51.230 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,128.0 ft	<b>Ground Level:</b> 5,116.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	2010/03/08	67.18	-72.02	55,086

<b>Design</b>	Actual				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	308.61	

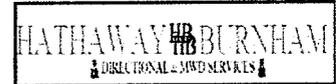
<b>Survey Program</b>	Date 2010/03/17				
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
425.0	5,971.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

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
425.0	0.90	192.40	425.0	-3.3	-0.7	-1.5	0.21	0.21	0.00
456.0	0.90	203.00	456.0	-3.7	-0.9	-1.6	0.54	0.00	34.19
486.0	0.70	254.00	486.0	-4.0	-1.1	-1.6	2.37	-0.67	170.00
517.0	1.20	281.20	517.0	-4.0	-1.6	-1.2	2.13	1.61	87.74
547.0	1.90	295.20	547.0	-3.7	-2.4	-0.4	2.64	2.33	46.67
578.0	2.20	296.30	577.9	-3.2	-3.4	0.6	0.98	0.97	3.55
609.0	2.90	300.10	608.9	-2.6	-4.6	2.0	2.32	2.26	12.26
640.0	3.60	300.90	639.9	-1.7	-6.1	3.7	2.26	2.26	2.58
671.0	4.40	300.70	670.8	-0.6	-8.0	5.9	2.58	2.58	-0.65
700.0	4.60	301.00	699.7	0.6	-9.9	8.1	0.69	0.69	1.03
731.0	4.70	297.80	730.6	1.8	-12.1	10.6	0.90	0.32	-10.32
762.0	4.70	296.50	761.5	3.0	-14.4	13.1	0.34	0.00	-4.19



# HATHAWAY BURNHAM

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 11 T9S, R17E  
**Well:** K-10-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well K-10-9-17  
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**MD Reference:** K-10-9-17 @ 5128.0ft (RIG #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
792.0	5.20	295.30	791.4	4.1	-16.7	15.6	1.70	1.67	-4.00
823.0	5.90	300.30	822.2	5.5	-19.3	18.6	2.74	2.26	16.13
854.0	6.50	300.60	853.0	7.2	-22.2	21.9	1.94	1.94	0.97
887.0	6.90	302.20	885.8	9.2	-25.5	25.7	1.34	1.21	4.85
914.0	7.10	303.20	912.6	11.0	-28.3	29.0	0.87	0.74	3.70
946.0	7.50	302.00	944.4	13.2	-31.7	33.0	1.34	1.25	-3.75
977.0	8.00	301.80	975.1	15.4	-35.3	37.2	1.62	1.61	-0.65
1,009.0	8.60	303.20	1,006.7	17.9	-39.2	41.8	1.98	1.88	4.38
1,041.0	9.50	303.80	1,038.3	20.7	-43.4	46.8	2.83	2.81	1.88
1,077.0	10.00	304.90	1,073.8	24.1	-48.4	52.9	1.48	1.39	3.06
1,104.0	10.30	305.90	1,100.4	26.9	-52.3	57.6	1.29	1.11	3.70
1,136.0	10.70	307.40	1,131.9	30.3	-56.9	63.4	1.51	1.25	4.69
1,167.0	11.20	308.50	1,162.3	34.0	-61.6	69.3	1.75	1.61	3.55
1,199.0	11.50	310.10	1,193.7	38.0	-66.5	75.6	1.36	0.94	5.00
1,231.0	11.60	309.50	1,225.0	42.1	-71.4	82.0	0.49	0.31	-1.88
1,263.0	12.00	308.40	1,256.4	46.2	-76.5	88.6	1.43	1.25	-3.44
1,294.0	12.20	308.30	1,286.7	50.2	-81.6	95.1	0.65	0.65	-0.32
1,326.0	12.20	307.40	1,317.9	54.4	-86.9	101.8	0.59	0.00	-2.81
1,358.0	11.80	305.80	1,349.2	58.3	-92.2	108.5	1.63	-1.25	-5.00
1,390.0	11.80	305.70	1,380.6	62.1	-97.6	115.0	0.06	0.00	-0.31
1,421.0	11.80	306.00	1,410.9	65.9	-102.7	121.3	0.20	0.00	0.97
1,453.0	12.20	305.10	1,442.2	69.7	-108.1	128.0	1.38	1.25	-2.81
1,485.0	12.70	304.80	1,473.5	73.7	-113.8	134.9	1.58	1.56	-0.94
1,517.0	13.10	305.40	1,504.7	77.8	-119.6	142.0	1.32	1.25	1.88
1,612.0	11.90	300.90	1,597.4	89.1	-136.8	162.5	1.63	-1.26	-4.74
1,706.0	10.90	298.30	1,689.5	98.2	-152.9	180.8	1.20	-1.06	-2.77
1,802.0	11.30	301.50	1,783.8	107.5	-168.9	199.1	0.76	0.42	3.33
1,897.0	12.40	308.10	1,876.7	118.6	-184.9	218.5	1.84	1.16	6.95
1,992.0	12.40	312.50	1,969.5	131.8	-200.5	238.9	0.99	0.00	4.63
2,087.0	13.50	310.50	2,062.1	145.9	-216.4	260.1	1.25	1.16	-2.11
2,182.0	13.40	306.60	2,154.5	159.7	-233.7	282.2	0.96	-0.11	-4.11
2,277.0	13.50	307.20	2,246.9	172.9	-251.3	304.3	0.18	0.11	0.63
2,372.0	13.50	308.30	2,339.3	186.5	-268.9	326.5	0.27	0.00	1.16
2,467.0	12.90	307.50	2,431.8	199.8	-286.0	348.2	0.66	-0.63	-0.84
2,563.0	12.20	306.30	2,525.5	212.4	-302.7	369.0	0.78	-0.73	-1.25
2,658.0	12.59	310.38	2,618.2	225.0	-318.6	389.4	1.01	0.41	4.29
2,753.0	14.30	318.12	2,710.6	240.5	-334.4	411.3	2.61	1.80	8.15
2,848.0	14.63	312.71	2,802.6	257.3	-351.0	434.9	1.46	0.35	-5.69
2,943.0	14.15	312.36	2,894.7	273.3	-368.4	458.4	0.51	-0.51	-0.37
3,038.0	13.36	311.37	2,986.9	288.4	-385.2	481.0	0.87	-0.83	-1.04
3,134.0	14.20	313.28	3,080.2	303.8	-402.1	503.8	0.99	0.88	1.99
3,229.0	13.54	307.88	3,172.4	318.6	-419.4	526.5	1.53	-0.69	-5.68
3,324.0	14.07	308.88	3,264.7	332.7	-437.2	549.2	0.61	0.56	1.05
3,419.0	13.95	311.31	3,356.8	347.5	-454.7	572.2	0.63	-0.13	2.56
3,514.0	14.08	311.92	3,449.0	362.8	-471.9	595.2	0.21	0.14	0.64
3,609.0	13.78	306.91	3,541.2	377.3	-489.6	618.0	1.31	-0.32	-5.27
3,799.0	13.00	305.20	3,726.1	403.2	-525.2	662.0	0.46	-0.41	-0.90
3,894.0	14.50	312.60	3,818.3	417.4	-542.6	684.5	2.43	1.58	7.79
3,989.0	14.70	314.00	3,910.3	433.8	-560.1	708.3	0.43	0.21	1.47
4,084.0	14.00	313.40	4,002.3	450.1	-577.1	731.8	0.75	-0.74	-0.63
4,179.0	14.40	309.60	4,094.4	465.5	-594.5	755.1	1.07	0.42	-4.00
4,275.0	13.60	306.20	4,187.5	479.8	-612.8	778.3	1.19	-0.83	-3.54
4,369.0	13.80	306.40	4,278.9	493.0	-630.8	800.5	0.22	0.21	0.21
4,464.0	13.50	304.10	4,371.2	505.9	-649.1	822.9	0.65	-0.32	-2.42



# HATHAWAY BURNHAM

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 11 T9S, R17E  
**Well:** K-10-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well K-10-9-17  
**TVD Reference:** K-10-9-17 @ 5128.0ft (RIG #2)  
**MD Reference:** K-10-9-17 @ 5128.0ft (RIG #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,560.0	13.80	307.90	4,464.5	519.2	-667.4	845.5	0.98	0.31	3.96
4,655.0	14.57	310.30	4,556.6	533.9	-685.5	868.8	1.02	0.81	2.53
4,750.0	14.42	309.45	4,648.6	549.2	-703.7	892.6	0.27	-0.16	-0.89
4,845.0	13.34	310.85	4,740.8	563.8	-721.1	915.3	1.19	-1.14	1.47
4,940.0	11.87	310.01	4,833.5	577.3	-736.9	936.1	1.56	-1.55	-0.88
5,037.0	11.76	311.79	4,928.4	590.3	-751.9	955.9	0.39	-0.11	1.84
5,131.0	12.28	312.98	5,020.4	603.5	-766.4	975.4	0.61	0.55	1.27
5,226.0	12.40	310.10	5,113.2	617.0	-781.6	995.7	0.66	0.13	-3.03
5,312.0	13.05	310.18	5,197.1	629.2	-796.0	1,014.6	0.76	0.76	0.10
<b>K-10-9-17 TGT</b>									
5,321.0	13.12	310.19	5,205.8	630.5	-797.6	1,016.7	0.76	0.76	0.09
5,416.0	12.40	305.90	5,298.5	643.4	-814.1	1,037.6	1.25	-0.76	-4.52
5,511.0	13.00	308.00	5,391.2	656.0	-830.8	1,058.5	0.80	0.63	2.21
5,606.0	14.30	312.30	5,483.5	670.5	-847.9	1,080.9	1.74	1.37	4.53
5,701.0	12.30	313.40	5,575.9	685.3	-863.9	1,102.7	2.12	-2.11	1.16
5,797.0	12.00	313.40	5,669.8	699.2	-878.6	1,122.8	0.31	-0.31	0.00
5,923.0	9.87	311.55	5,793.5	715.4	-896.2	1,146.7	1.71	-1.69	-1.47
5,971.0	9.50	310.00	5,840.8	720.6	-902.3	1,154.8	0.94	-0.77	-3.23

### Wellbore Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
K-10-9-17 TGT	0.00	0.00	5,200.0	622.8	-784.6	205,632,701.90	5,635,290.69	82° 46' 5.881 S	109° 59' 52.488 W
- actual wellpath misses by 13.4ft at 5312.0ft MD (5197.1 TVD, 629.2 N, -796.0 E)									
- Circle (radius 75.0)									

Checked By: _____	Approved By: _____	Date: _____
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# NEWFIELD



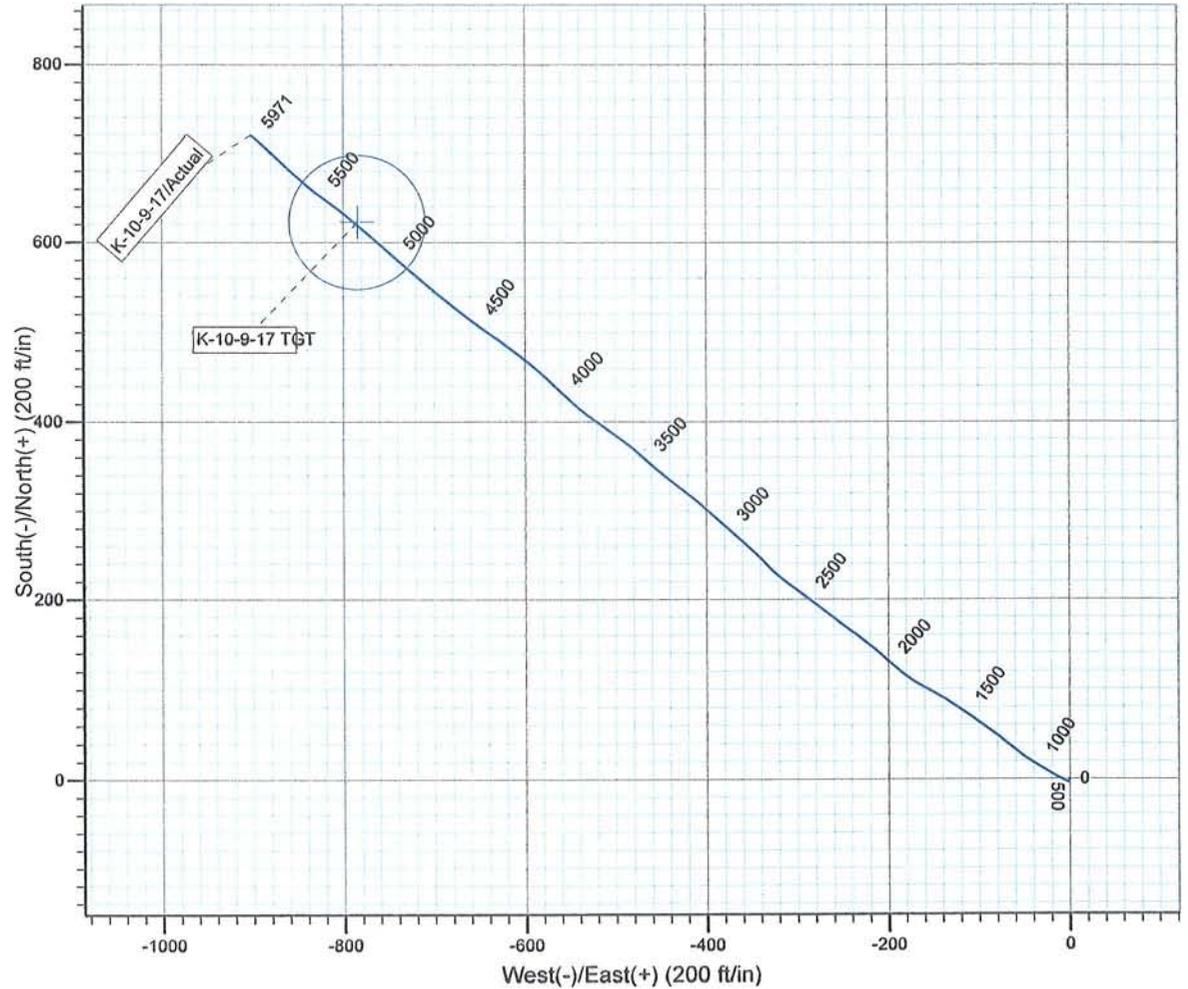
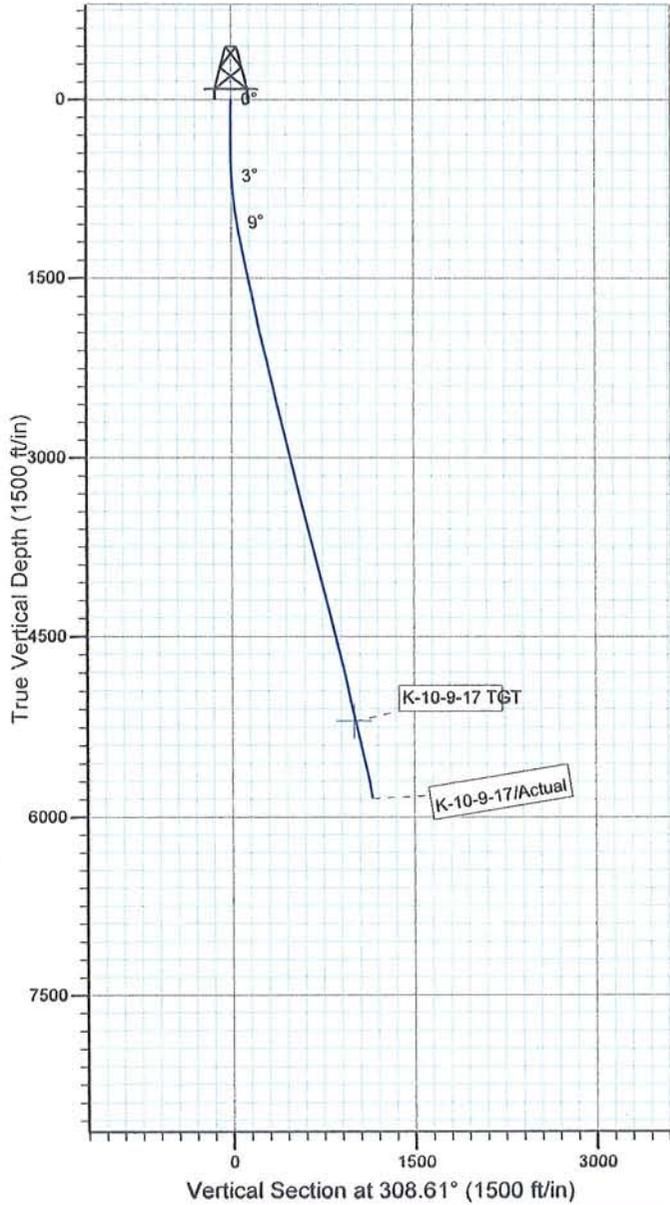
Project: USGS Myton SW (UT)  
Site: SECTION 11 T9S, R17E  
Well: K-10-9-17  
Wellbore: Wellbore #1  
SURVEY: Actual

FINAL SURVEY REPORT



Azimuths to True North  
Magnetic North: 67.18°

Magnetic Field  
Strength: 55085.7snT  
Dip Angle: -72.02°  
Date: 2010/03/08  
Model: IGRF2010



Design: Actual (K-10-9-17/Wellbore #1)

Created By: *Jim Hudson* Date: 9:26, March 17 2010

THIS SURVEY IS CORRECT TO THE BEST OF MY  
KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.

**Daily Activity Report**

Format For Sundry

**SUNDANCE K-10-9-17****1/1/2010 To 5/30/2010****SUNDANCE K-10-9-17****Waiting on Cement****Date:** 3/11/2010

Ross #29 at 320. Days Since Spud - 8 5/8" casing w/ 160 sks Class "G" + 2% CaCl<sub>2</sub> + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield. - casing (guide shoe, shoe jt, baffle plate, 7 jts) set @ 319.45' KB. On 3/11/10 BJ Services cemented - Returned 5 bbls to pit. - On 3/8/10 Ross Rig #29 spud SD K-10-9-17, drilled 320' of 12 1/4" hole, and ran 7 jts 8 5/8"

**Daily Cost:** \$0**Cumulative Cost:** \$26,630**SUNDANCE K-10-9-17****Rigging down****Date:** 3/14/2010

Ross #29 at 320. 0 Days Since Spud - Prepare to move

**Daily Cost:** \$0**Cumulative Cost:** \$28,482**SUNDANCE K-10-9-17****Drill 7 7/8" hole with fresh water****Date:** 3/15/2010

Ross #29 at 2611. 1 Days Since Spud - P/U Kelly and gain Circulation - Gap Sub, 1X 3' Antenna sub, 1X 30' Monel, 26 HWDP Tag Cement @ 280' - Pickup BHA as follows Smith MI616 7 7/8" PDC bit, 6.5" .33 Rev 1.5 degree MM, 1X 30' monel, 1X 4.52' - test surface casing to 1500 PSI for 30 min all tested good. - Drill 7 7/8" hole F/ 280' to 2611' W/ 25,000lbs WOB, 144TRPM, 395GPM, 194fph avg ROP - MIRU on the Sundance Fed. K-10-9-17 - Rig up B&C Quick test and test Pipe and Blind rams, choke, kelly, safety valve to 2,000PSI

**Daily Cost:** \$0**Cumulative Cost:** \$68,399**SUNDANCE K-10-9-17****Drill 7 7/8" hole with fresh water****Date:** 3/16/2010

NDSI #2 at 4671. 2 Days Since Spud - Rig Service Function test BOP and Crown-O-Matic, Grease Crown, blocks and Swivel - Drill 7 7/8" hole F/ 2611' to 3339 W/ 20,000lbs WOB, 144TRPM, 395GPM, 124fph avg ROP - Drill 7 7/8" hole F/ 3339' to 4671' W/ 20,000lbs WOB, 144TRPM, 395GPM, 124fph avg ROP

**Daily Cost:** \$0**Cumulative Cost:** \$91,123**SUNDANCE K-10-9-17****Drill 7 7/8" hole with fresh water****Date:** 3/17/2010

NDSI #2 at 5975. 3 Days Since Spud - Laydown Drillpipe - Drill 7 7/8" hole F/ 5179 to 5975' TD W/ 28,000 WOB, 144 TRPM, 395GPM, 102.6 Avg ROP for well - Rig Service Function test BOP and Crown-O-Matic, Grease Crown, blocks and Swivel - Drill 7 7/8" hole F/ 4671' to 5179 W/ 28,000 WOB, 144 TRPM, 395GPM, 65fph avg ROP - Circulate F/ Logs

**Daily Cost:** \$0**Cumulative Cost:** \$139,417**SUNDANCE K-10-9-17****Wait on Completion**

**Date:** 3/18/2010

NDSI #2 at 5975. 4 Days Since Spud - Clean Mud Tanks - Nipple down set slips W/ 85,000lbs Tension - Release Rig @ 1:30AM 3/18/10 - Mixed @ 14.4ppg W/ 1.24 yield returned 40bbbls cement to pit - 400 sks 50:50:2+3%KCL+0.5%EC-1+.25#CF+0.5#SF+.3SMS+FP-6L - Mixed @ 11.0 ppg W/ 3.50 yield. - Rig Down - Rig up BJ and Circulate casing W/ Rig Pump - R/U Casers and Run 137 jts 5 1/2" casing set @ 5942.66KB - Rig Up Quick Test, and Test 5 1/2" casing Rams to 2,000PSI for Ten Minutes tested Good. - Laydown Drillpipe and BHA - Pump 290 bbls of Brine @ 4,000' - Cement W/ 280 sks PL11+3% KCL+5#CSE+0.5#CF+2#KOL+.5SMS+FP+SF **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$267,823

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