

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-74108
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 N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Beluga Unit
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Beluga Federal R-8-9-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43013-33929
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NE/SW 1838' FSL 1932' FWL At proposed prod. zone 1300' FSL 2620' FWL		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 14.6 miles southeast of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 8, T9S R17E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1300' f/lse, 1340' f/unit	16. No. of Acres in lease 440.00	12. County or Parish Duchesne
17. Spacing Unit dedicated to this well 20 Acres	13. State UT	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 779'	19. Proposed Depth 6095'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5341' GL	22. Approximate date work will start* 2 nd Quarter 2008	23. Estimated duration Approximately seven (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, shall be attached to this form:

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>1. Well plat certified by a registered surveyor.</li> <li>2. A Drilling Plan.</li> <li>3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).</li> </ul> | <ul style="list-style-type: none"> <li>4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).</li> <li>5. Operator certification.</li> <li>6. Such other site specific information and/or plans as may be required by the authorized officer.</li> </ul> |
|--|---|

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 3/7/08
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL	Date 03-24-08
Title Office	ENVIRONMENTAL MANAGER	

Application approval does not warrant or certify the 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.

\*(Instructions on reverse)

surf  
582561X  
4432794Y  
40.043233  
- 110.032215

BHL 582772X  
4432633Y  
40.041762  
- 110.029752

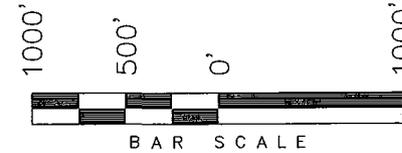
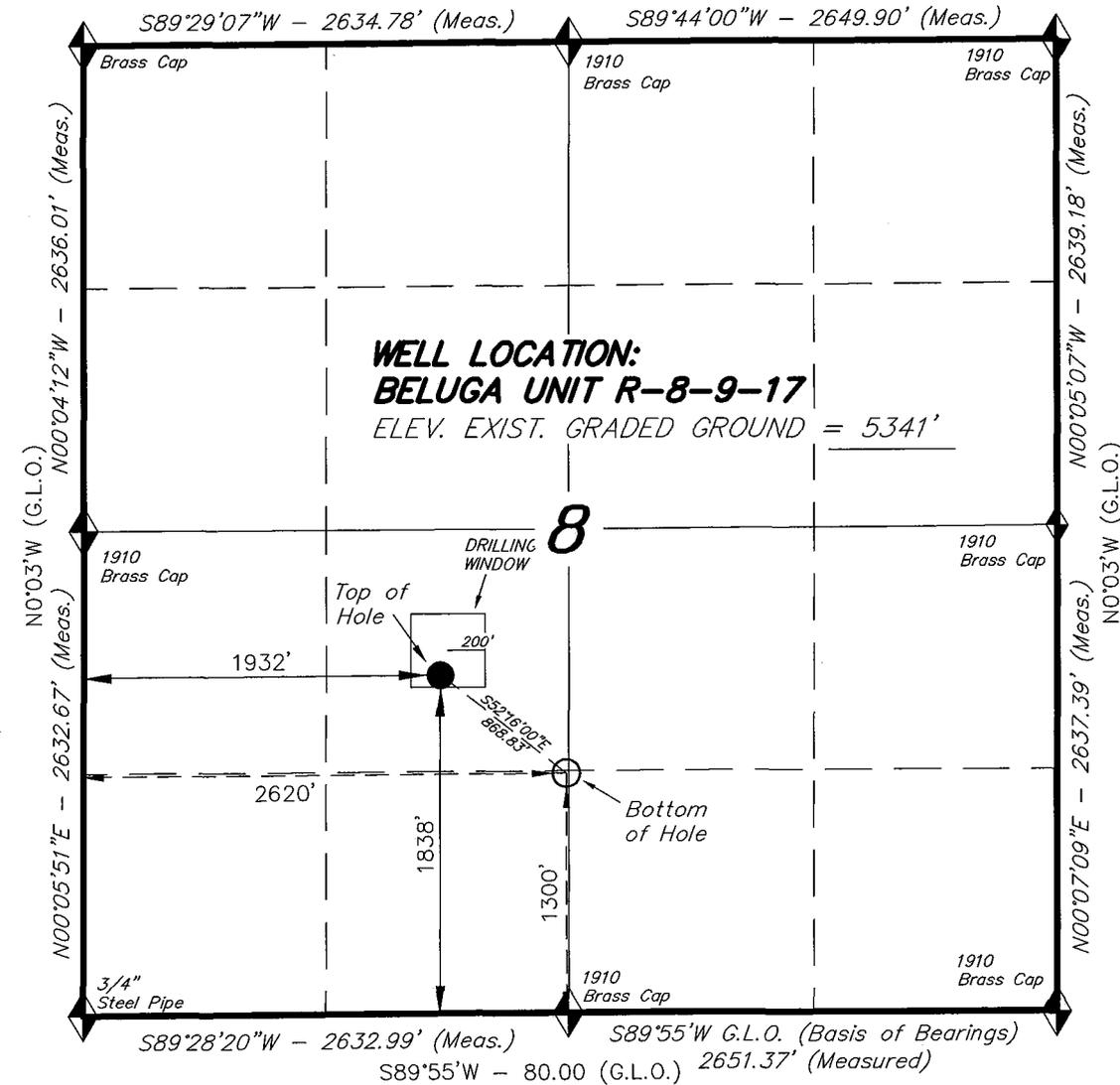
Federal Approval of this  
Action is Necessary  
**RECEIVED**  
MAR 14 2008  
DIV. OF OIL, GAS & MINING

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

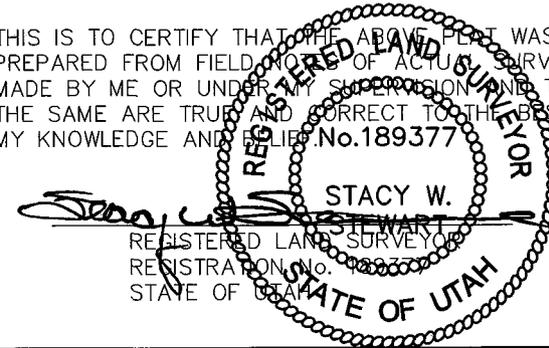
S89°56'W - 80.04 (G.L.O.)

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, BELUGA UNIT R-8-9-17,  
 LOCATED AS SHOWN IN THE NE 1/4 SW  
 1/4 OF SECTION 8, T9S, R17E, S.L.B.&M.  
 DUCHESNE COUNTY, UTAH.



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



◆ = SECTION CORNERS LOCATED

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

**BELUGA UNIT R-8-9-17**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 02' 35.65"  
 LONGITUDE = 110° 01' 58.77"

### TRI STATE LAND SURVEYING & CONSULTING

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

DATE SURVEYED: 11-28-07	SURVEYED BY: T.H.
DATE DRAWN: 12-10-07	DRAWN BY: F.T.M.
REVISED: 01-15-08 L.C.S.	SCALE: 1" = 1000'

**NEWFIELD PRODUCTION COMPANY  
BELUGA FEDERAL #R-8-9-17  
AT SURFACE: NE/SW SECTION 8, 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' – 1393'
Green River	1393'
Wasatch	6095'

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

Green River Formation 1393' – 6095' - 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  
BELUGA FEDERAL #R-8-9-17  
AT SURFACE: NE/SW SECTION 8, 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 Beluga Federal #R-8-9-17 located in the NE 1/4 SW 1/4 Section 8, T9S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed southeasterly – 11.5 miles ± to it's junction with an existing dirt road to the southwest; proceed southwesterly – 1.5 miles ± to it's junction with an existing road to the northwest; proceed northwesterly 0.2 miles ± the beginning of the access road to the existing Maxus Federal 23-8-9-17 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 Maxus Federal 23-8-9-17 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 Maxus Federal 23-8-9-17 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Beluga Federal R-8-9-17. 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: 43-10136

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 Beluga Federal R-8-9-17 will be drilled off of the existing Maxus Federal 23-8-9-17 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 1,160' of disturbed area be granted in Lease UTU-74108 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 the 1,160' of proposed water injection pipeline will be forthcoming.

**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) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

None for the proposed Beluga Federal R-8-9-17.

**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>	5 lbs/acre
Crested Wheatgrass	<i>Agropyron Cristatum</i>	5 lbs/acre
Gardner Saltbush	<i>Atriplex Gardneri</i>	0.5 lbs/acre
Shadscale	<i>Atriplex Confertifolia</i>	0.5 lbs/acre
Forage Kochia	<i>Kochia Prostrata</i>	0.25 lbs/acre

**Details of the On-Site Inspection**

The proposed Beluga Federal R-8-9-17 was on-sited on 1/15/08. The following were present; Dave Allred (Newfield Production), Kevan Stevens (Newfield Production ), Michael Cutler (Bureau of Land Management), and Brandon McDonald (Bureau of Land Management). Weather conditions were clear and ground covered by snow.

**LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

Representative

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

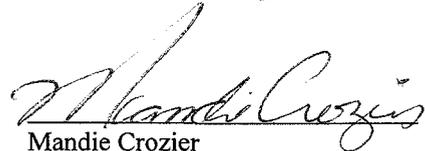
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #R-8-9-17 Section 8, Township 9S, Range 17E: Lease UTU-74108 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 drillsite 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.

3/7/08

Date



Mandie Crozier  
Regulatory Specialist  
Newfield Production Company



**Scientific Drilling**  
Rocky Mountain Operations

Project: Duchesne County, UT NAD83 UTC  
Site: Beluga Unit  
Well: Beluga Unit R-8-9-17  
Wellbore: OH  
Design: Plan #1

**Newfield Exploration Co.**

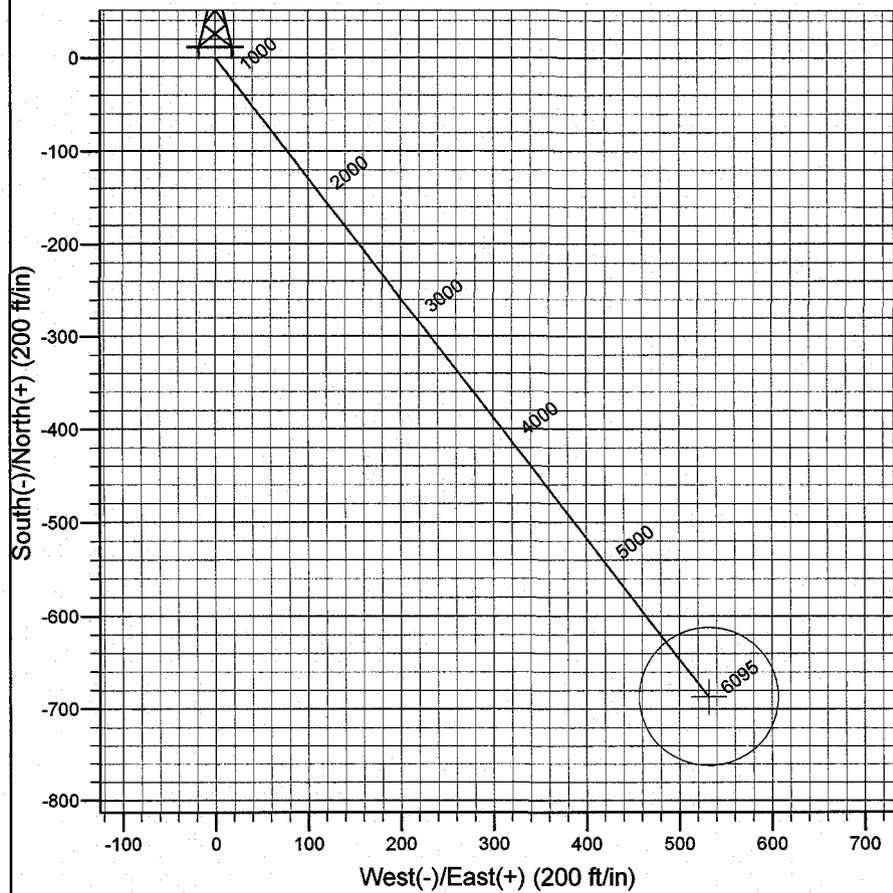
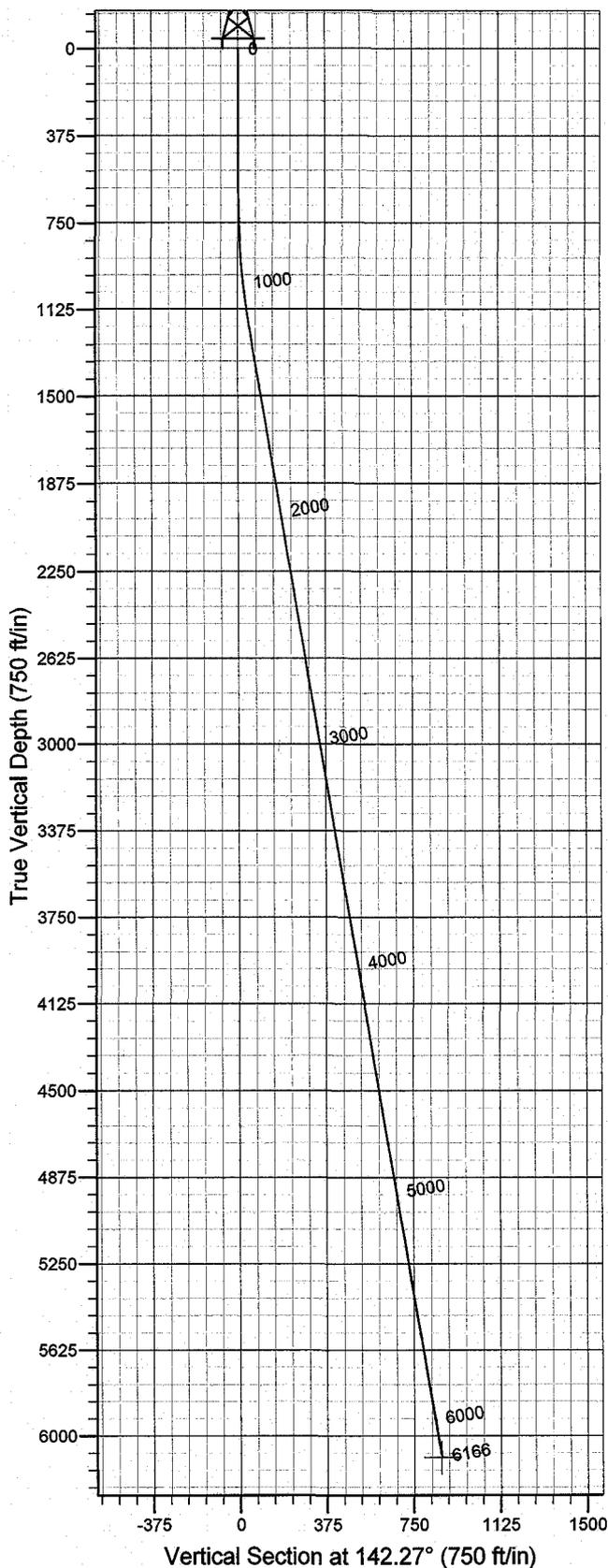


Azimuths to True North  
Magnetic North: 11.71°

Magnetic Field  
Strength: 52625.2snT  
Dip Angle: 65.89°  
Date: 2008-02-25  
Model: IGRF2005-10

WELL DETAILS: Beluga Unit R-8-9-17

GL 5341' & RKB 12' @ 5353.00ft (NDSI 2) 5341.00  
+N/-S    +E/-W    Northing    Easting    Latitude    Longitude  
0.00    0.00    7187854.89    2051105.64    40° 2' 35.650 N    110° 1' 58.770 W



Plan: Plan #1 (Beluga Unit R-8-9-17/OH)  
Created By: Julie Cruse    Date: 2008-02-25  
PROJECT DETAILS: Duchesne County, UT NAD83 UTC  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Utah Central Zone  
Location:  
System Datum: Mean Sea Level  
Local North: True North

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
3	1235.16	9.53	142.27	1232.24	-41.67	32.24	1.50	142.27	52.69	
4	6165.94	9.53	142.27	6095.00	-687.16	531.67	0.00	0.00	868.83	BU R-8-9-17 PBHL

# **Newfield Exploration Co.**

**Duchesne County, UT NAD83 UTC**

**Beluga Unit**

**Beluga Unit R-8-9-17**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**25 February, 2008**

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Single User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Beluga Unit  
**Well:** Beluga Unit R-8-9-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Beluga Unit R-8-9-17  
**TVD Reference:** GL 5341' & RKB 12' @ 5353.00ft (NDSI 2)  
**MD Reference:** GL 5341' & RKB 12' @ 5353.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

<b>Project</b>	Duchesne County, UT NAD83 UTC		
<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>	Beluga Unit,		
<b>Site Position:</b>		<b>Northing:</b>	7,186,685.53 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,052,488.32 ft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in
		<b>Latitude:</b>	40° 2' 23.870 N
		<b>Longitude:</b>	110° 1' 41.240 W
		<b>Grid Convergence:</b>	0.94 °

<b>Well</b>	Beluga Unit R-8-9-17, 1838' FSL 1932' FWL Sec 8 T9S R17E		
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b> 7,187,854.89 ft
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b> 2,051,105.64 ft
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>	ft
		<b>Latitude:</b>	40° 2' 35.650 N
		<b>Longitude:</b>	110° 1' 58.770 W
		<b>Ground Level:</b>	5,341.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2005-10	2008-02-25	11.71	65.89	52,625

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	142.27

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,235.16	9.53	142.27	1,232.24	-41.67	32.24	1.50	1.50	0.00	142.27	
6,165.94	9.53	142.27	6,095.00	-687.16	531.67	0.00	0.00	0.00	0.00	BU R-8-9-17 PBHL

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Single User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Beluga Unit  
**Well:** Beluga Unit R-8-9-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Beluga Unit R-8-9-17  
**TVD Reference:** GL 5341' & RKB 12' @ 5353.00ft (NDSI 2)  
**MD Reference:** GL 5341' & RKB 12' @ 5353.00ft (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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	1.50	142.27	699.99	-1.04	0.80	1.31	1.50	1.50	0.00
800.00	3.00	142.27	799.91	-4.14	3.20	5.23	1.50	1.50	0.00
900.00	4.50	142.27	899.69	-9.31	7.21	11.77	1.50	1.50	0.00
1,000.00	6.00	142.27	999.27	-16.55	12.80	20.92	1.50	1.50	0.00
1,100.00	7.50	142.27	1,098.57	-25.85	20.00	32.68	1.50	1.50	0.00
1,200.00	9.00	142.27	1,197.54	-37.19	28.78	47.03	1.50	1.50	0.00
1,235.16	9.53	142.27	1,232.24	-41.67	32.24	52.69	1.50	1.50	0.00
1,300.00	9.53	142.27	1,296.18	-50.16	38.81	63.42	0.00	0.00	0.00
1,400.00	9.53	142.27	1,394.80	-63.25	48.94	79.97	0.00	0.00	0.00
1,500.00	9.53	142.27	1,493.42	-76.34	59.07	96.52	0.00	0.00	0.00
1,600.00	9.53	142.27	1,592.04	-89.43	69.20	113.08	0.00	0.00	0.00
1,700.00	9.53	142.27	1,690.67	-102.52	79.32	129.63	0.00	0.00	0.00
1,800.00	9.53	142.27	1,789.29	-115.61	89.45	146.18	0.00	0.00	0.00
1,900.00	9.53	142.27	1,887.91	-128.70	99.58	162.73	0.00	0.00	0.00
2,000.00	9.53	142.27	1,986.53	-141.80	109.71	179.28	0.00	0.00	0.00
2,100.00	9.53	142.27	2,085.15	-154.89	119.84	195.84	0.00	0.00	0.00
2,200.00	9.53	142.27	2,183.77	-167.98	129.97	212.39	0.00	0.00	0.00
2,300.00	9.53	142.27	2,282.39	-181.07	140.10	228.94	0.00	0.00	0.00
2,400.00	9.53	142.27	2,381.01	-194.16	150.23	245.49	0.00	0.00	0.00
2,500.00	9.53	142.27	2,479.63	-207.25	160.36	262.04	0.00	0.00	0.00
2,600.00	9.53	142.27	2,578.25	-220.34	170.48	278.60	0.00	0.00	0.00
2,700.00	9.53	142.27	2,676.87	-233.43	180.61	295.15	0.00	0.00	0.00
2,800.00	9.53	142.27	2,775.49	-246.52	190.74	311.70	0.00	0.00	0.00
2,900.00	9.53	142.27	2,874.11	-259.62	200.87	328.25	0.00	0.00	0.00
3,000.00	9.53	142.27	2,972.73	-272.71	211.00	344.80	0.00	0.00	0.00
3,100.00	9.53	142.27	3,071.35	-285.80	221.13	361.36	0.00	0.00	0.00
3,200.00	9.53	142.27	3,169.97	-298.89	231.26	377.91	0.00	0.00	0.00
3,300.00	9.53	142.27	3,268.60	-311.98	241.39	394.46	0.00	0.00	0.00
3,400.00	9.53	142.27	3,367.22	-325.07	251.52	411.01	0.00	0.00	0.00
3,500.00	9.53	142.27	3,465.84	-338.16	261.64	427.56	0.00	0.00	0.00
3,600.00	9.53	142.27	3,564.46	-351.25	271.77	444.12	0.00	0.00	0.00
3,700.00	9.53	142.27	3,663.08	-364.34	281.90	460.67	0.00	0.00	0.00
3,800.00	9.53	142.27	3,761.70	-377.43	292.03	477.22	0.00	0.00	0.00
3,900.00	9.53	142.27	3,860.32	-390.53	302.16	493.77	0.00	0.00	0.00
4,000.00	9.53	142.27	3,958.94	-403.62	312.29	510.32	0.00	0.00	0.00
4,100.00	9.53	142.27	4,057.56	-416.71	322.42	526.88	0.00	0.00	0.00
4,200.00	9.53	142.27	4,156.18	-429.80	332.55	543.43	0.00	0.00	0.00
4,300.00	9.53	142.27	4,254.80	-442.89	342.67	559.98	0.00	0.00	0.00
4,400.00	9.53	142.27	4,353.42	-455.98	352.80	576.53	0.00	0.00	0.00
4,500.00	9.53	142.27	4,452.04	-469.07	362.93	593.08	0.00	0.00	0.00
4,600.00	9.53	142.27	4,550.66	-482.16	373.06	609.64	0.00	0.00	0.00
4,700.00	9.53	142.27	4,649.28	-495.25	383.19	626.19	0.00	0.00	0.00
4,800.00	9.53	142.27	4,747.90	-508.35	393.32	642.74	0.00	0.00	0.00
4,900.00	9.53	142.27	4,846.53	-521.44	403.45	659.29	0.00	0.00	0.00
5,000.00	9.53	142.27	4,945.15	-534.53	413.58	675.84	0.00	0.00	0.00
5,100.00	9.53	142.27	5,043.77	-547.62	423.71	692.40	0.00	0.00	0.00
5,200.00	9.53	142.27	5,142.39	-560.71	433.83	708.95	0.00	0.00	0.00

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Single User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Beluga Unit  
**Well:** Beluga Unit R-8-9-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Beluga Unit R-8-9-17  
**TVD Reference:** GL 5341' & RKB 12' @ 5353.00ft (NDSI 2)  
**MD Reference:** GL 5341' & RKB 12' @ 5353.00ft (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)
5,300.00	9.53	142.27	5,241.01	-573.80	443.96	725.50	0.00	0.00	0.00
5,400.00	9.53	142.27	5,339.63	-586.89	454.09	742.05	0.00	0.00	0.00
5,500.00	9.53	142.27	5,438.25	-599.98	464.22	758.60	0.00	0.00	0.00
5,600.00	9.53	142.27	5,536.87	-613.07	474.35	775.16	0.00	0.00	0.00
5,700.00	9.53	142.27	5,635.49	-626.16	484.48	791.71	0.00	0.00	0.00
5,800.00	9.53	142.27	5,734.11	-639.26	494.61	808.26	0.00	0.00	0.00
5,900.00	9.53	142.27	5,832.73	-652.35	504.74	824.81	0.00	0.00	0.00
6,000.00	9.53	142.27	5,931.35	-665.44	514.87	841.36	0.00	0.00	0.00
6,100.00	9.53	142.27	6,029.97	-678.53	524.99	857.92	0.00	0.00	0.00
6,165.94	9.53	142.27	6,095.00	-687.16	531.67	868.83	0.00	0.00	0.00

### Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
BU R-8-9-17 PBHL - plan hits target center - Circle (radius 75.00)	0.00	0.00	6,095.00	-687.16	531.67	7,187,176.55	2,051,648.51	40° 2' 28.859 N	110° 1' 51.933 W

# NEWFIELD PRODUCTION COMPANY

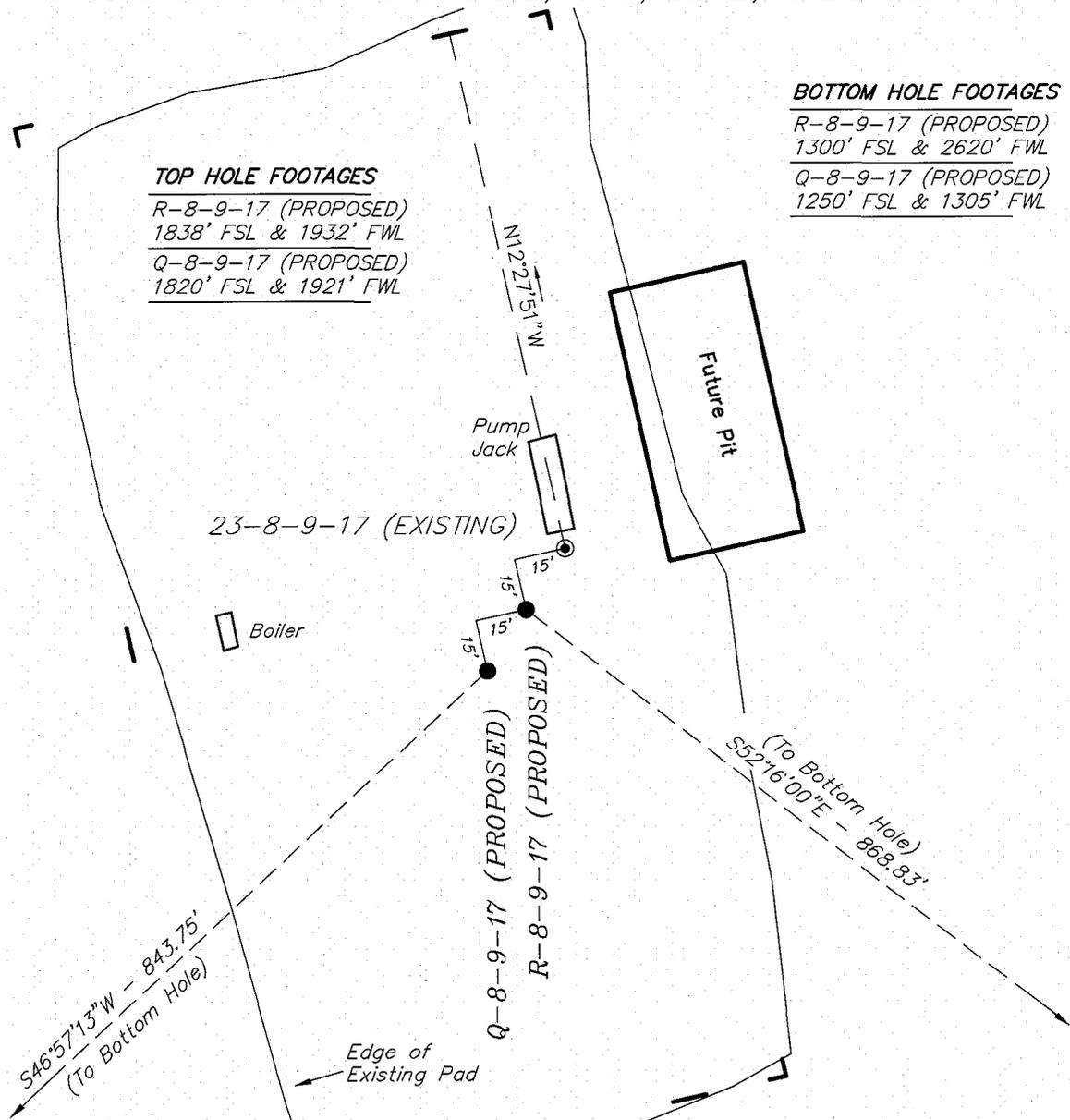
## WELL PAD INTERFERENCE PLAT

**BELUGA UNIT R-8-9-17 (Proposed Well)**

**BELUGA UNIT Q-8-9-17 (Proposed Well)**

**BELUGA UNIT 23-8-9-17 (Existing Well)**

Pad Location: NESW Section 8, T9S, R17E, S.L.B.&M.



### TOP HOLE FOOTAGES

R-8-9-17 (PROPOSED)  
1838' FSL & 1932' FWL  
Q-8-9-17 (PROPOSED)  
1820' FSL & 1921' FWL

### BOTTOM HOLE FOOTAGES

R-8-9-17 (PROPOSED)  
1300' FSL & 2620' FWL  
Q-8-9-17 (PROPOSED)  
1250' FSL & 1305' FWL

**Note:**

Bearings are based on GLO Information.

### RELATIVE COORDINATES From top hole to bottom hole

WELL	NORTH	EAST
R-8-9-17	-532'	687'
Q-8-9-17	-576'	-617'

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

WELL	LATITUDE	LONGITUDE
23-8-9-17	40° 02' 35.82"	110° 01' 58.63"
R-8-9-17	40° 02' 35.65"	110° 01' 58.77"
Q-8-9-17	40° 02' 35.47"	110° 01' 58.92"

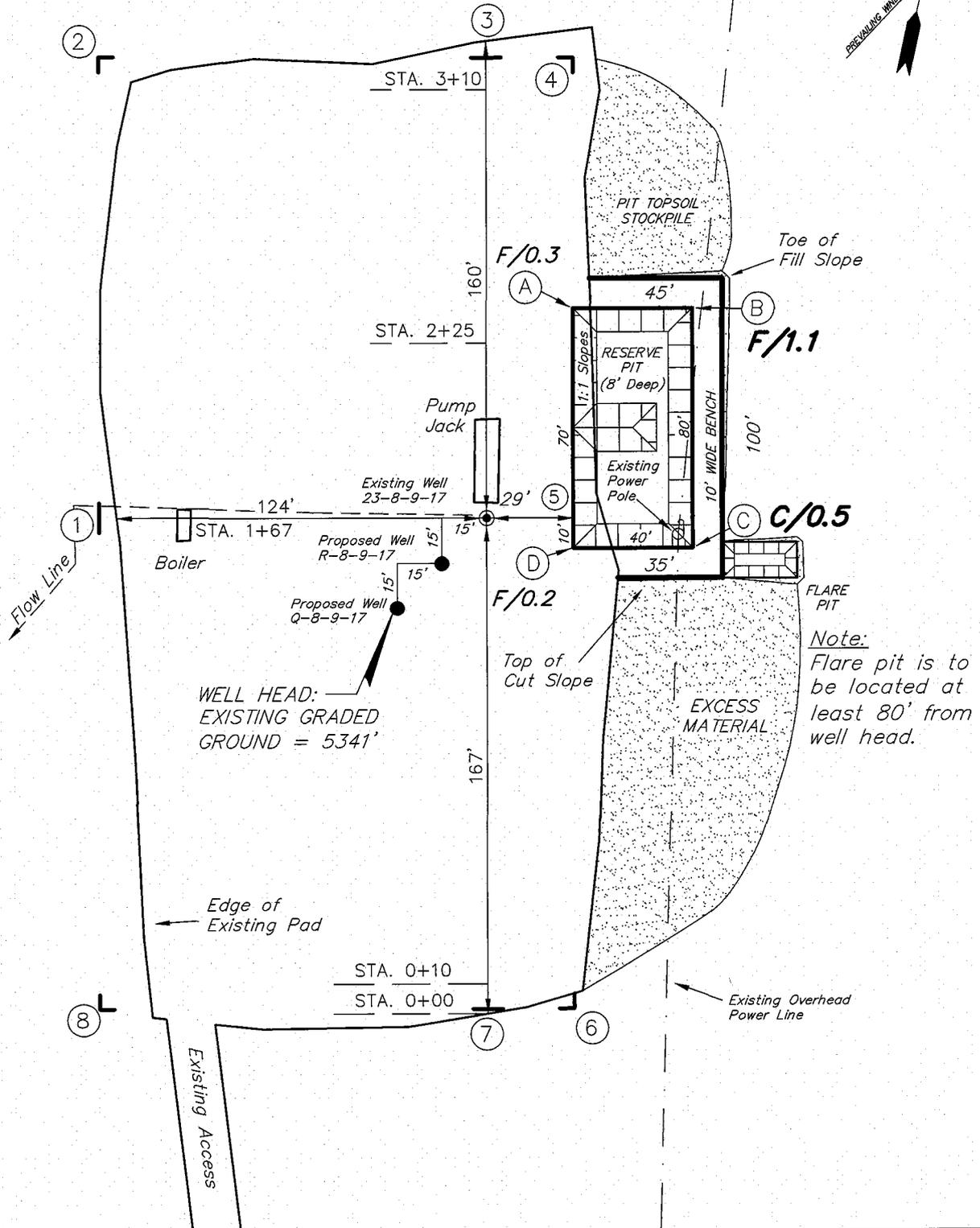
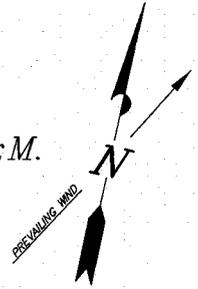
SURVEYED BY: T.H.	DATE SURVEYED: 11-28-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-10-07
SCALE: 1" = 50'	REVISED: L.C.S. 02-15-08

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

# NEWFIELD PRODUCTION COMPANY

BELUGA UNIT R-8-9-17 (Proposed Well)  
 BELUGA UNIT Q-8-9-17 (Proposed Well)  
 BELUGA UNIT 23-8-9-17 (Existing Well)

Pad Location: NESW Section 8, T9S, R17E, S.L.B.&M.



WELL HEAD:  
 EXISTING GRADED  
 GROUND = 5341'

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

SURVEYED BY: T.H.	DATE SURVEYED: 11-28-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-10-07
SCALE: 1" = 50'	REVISED:

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

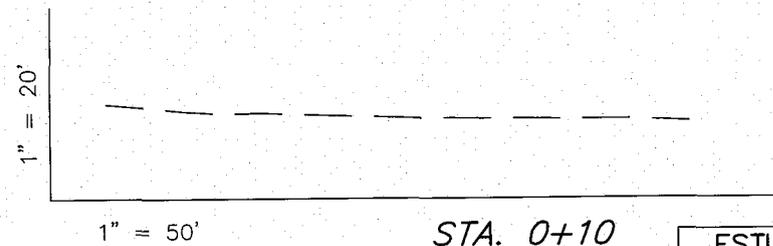
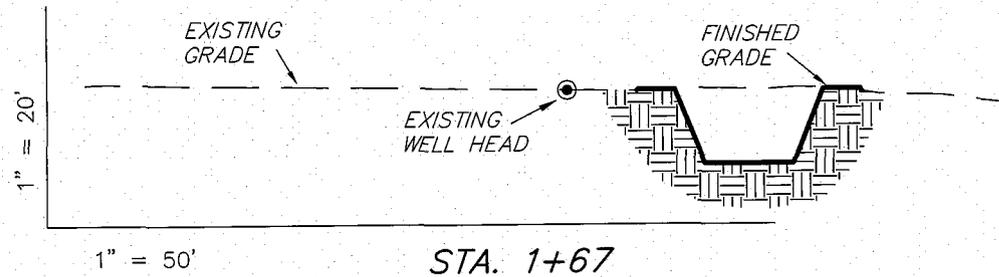
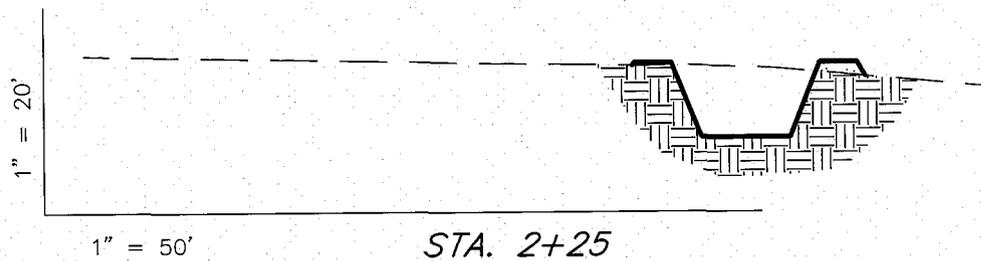
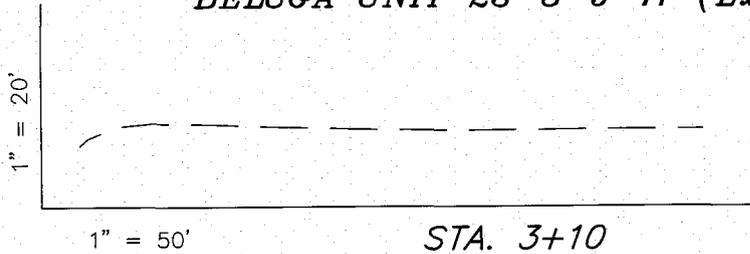
# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

*BELUGA UNIT R-8-9-17 (Proposed Well)*

*BELUGA UNIT Q-8-9-17 (Proposed Well)*

*BELUGA UNIT 23-8-9-17 (Existing Well)*



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

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	10	90	Topsoil is not included in Pad Cut	-80
PIT	560	0		560
TOTALS	570	90	120	480

SURVEYED BY: T.H.	DATE SURVEYED: 11-28-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-10-07
SCALE: 1" = 50'	REVISED:

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

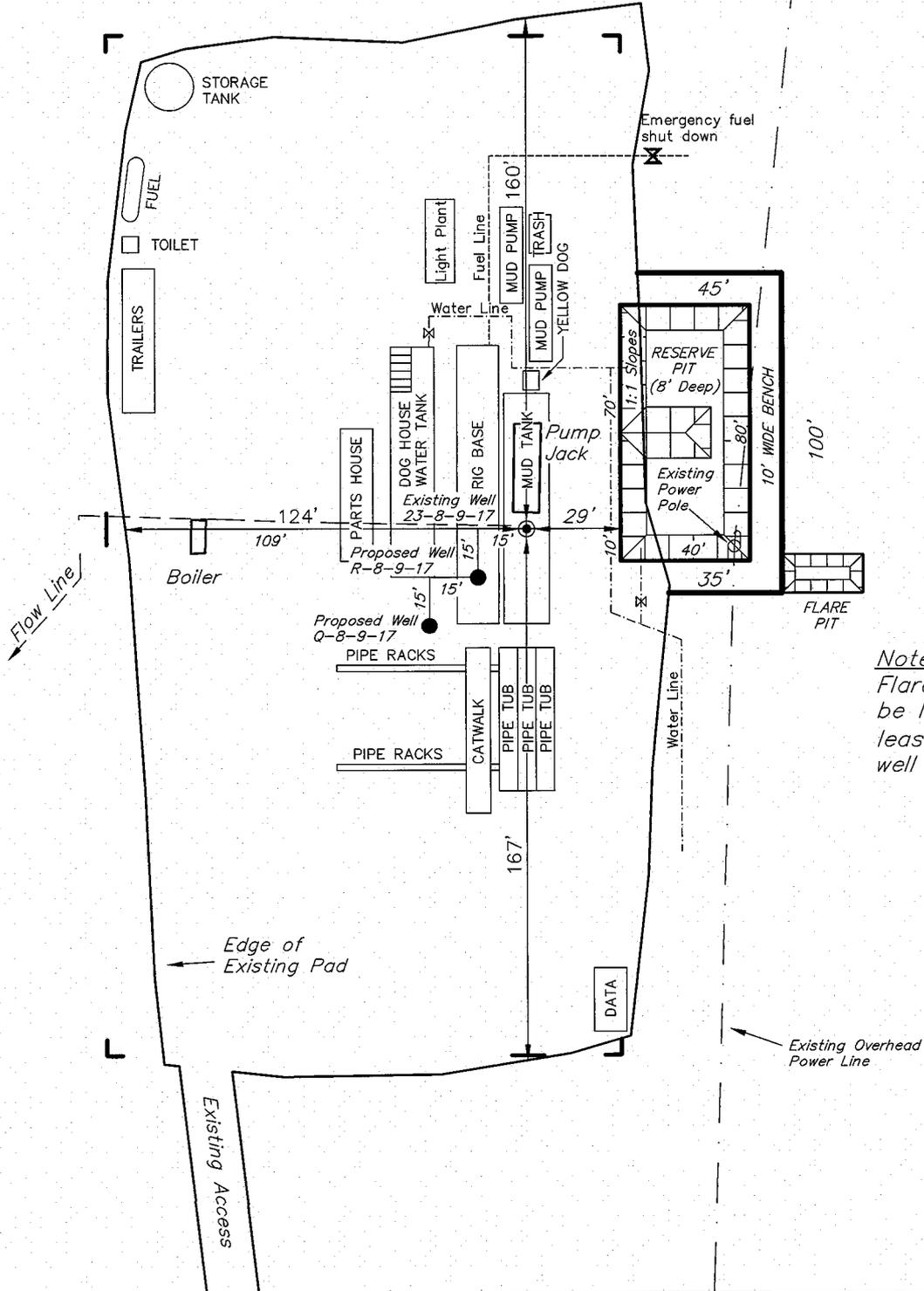
# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

BELUGA UNIT R-8-9-17 (Proposed Well)

BELUGA UNIT Q-8-9-17 (Proposed Well)

BELUGA UNIT 23-8-9-17 (Existing Well)



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

SURVEYED BY: T.H.	DATE SURVEYED: 11-28-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-10-07
SCALE: 1" = 50'	REVISED:

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

# Lowfield Production Company Proposed Site Facility Diagram

Beluga Federal R-8-9-17

From the 23-8-9-17 Location

NE/SW Sec. 8 T9S, R17E

Duchesne County, Utah

UTU-74108

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:

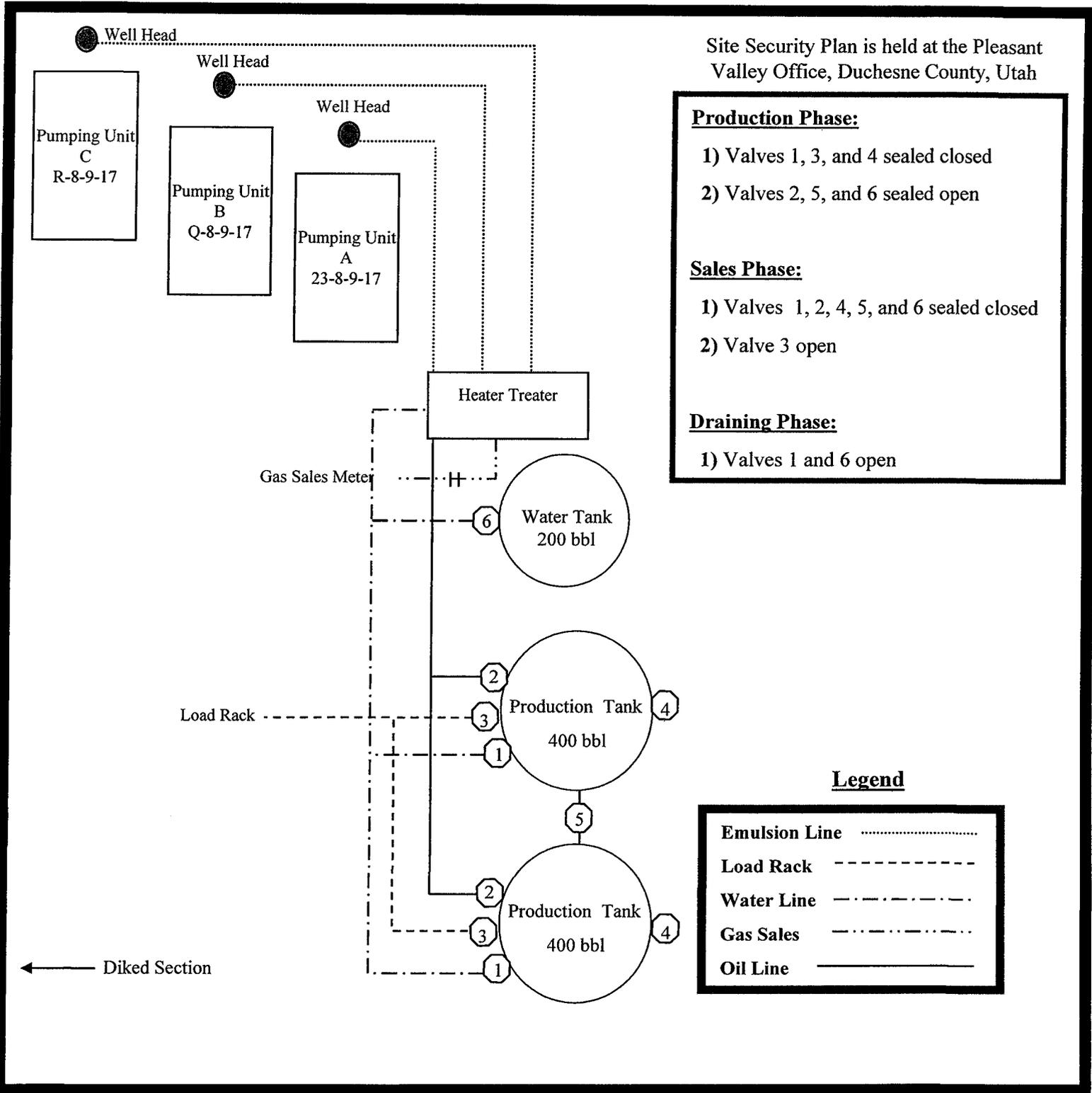
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

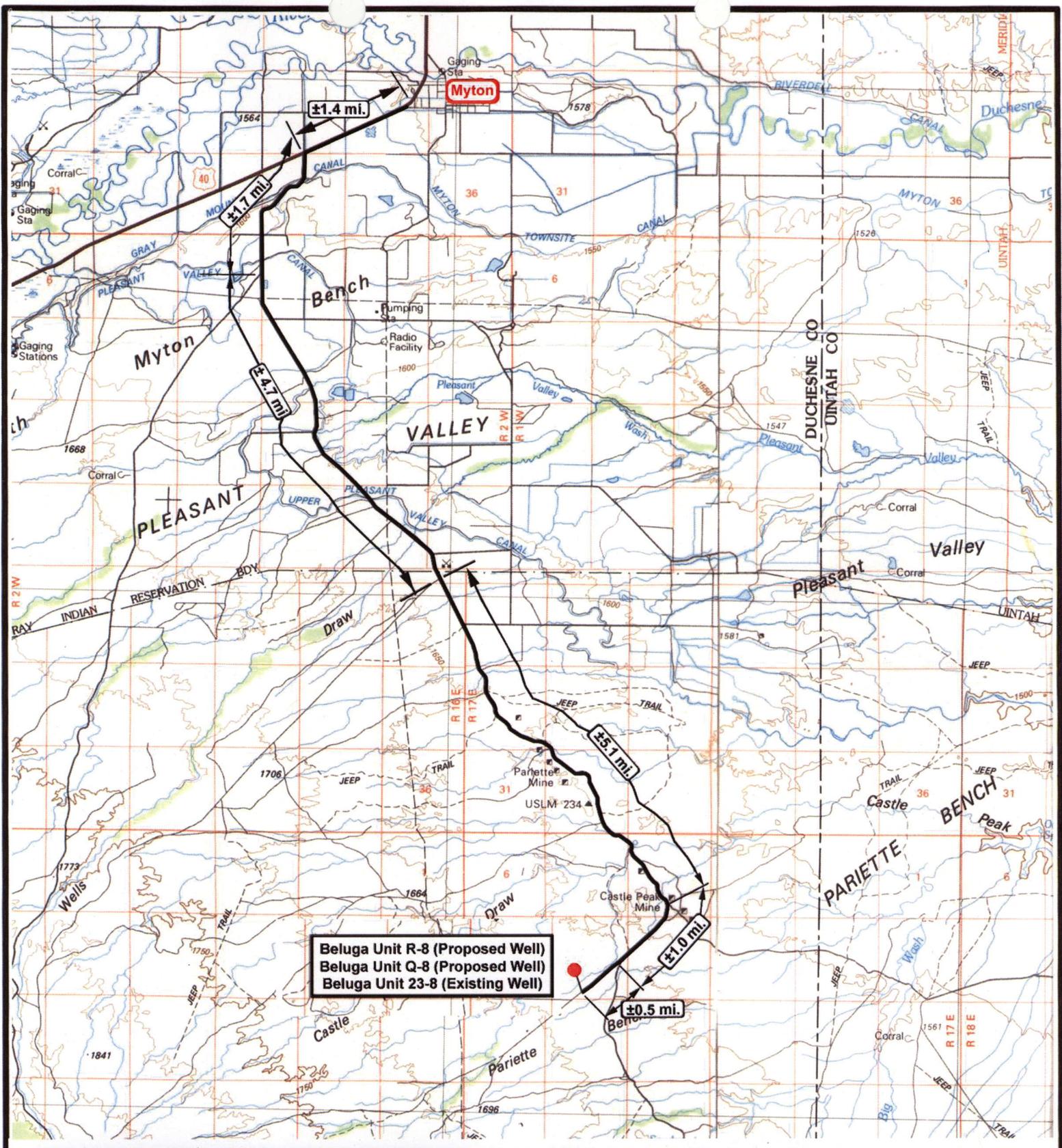
### Draining Phase:

- 1) Valves 1 and 6 open

### Legend

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





Beluga Unit R-8 (Proposed Well)  
 Beluga Unit Q-8 (Proposed Well)  
 Beluga Unit 23-8 (Existing Well)


**NEWFIELD**  
 Exploration Company

**Beluga Unit R-8-9-17 (Proposed Well)**  
**Beluga Unit Q-8-9-17 (Proposed Well)**  
**Beluga Unit 23-8-9-17 (Existing Well)**  
 Pad Location: **NESW SEC. 8, T9S, R17E, S.L.B.&M.**



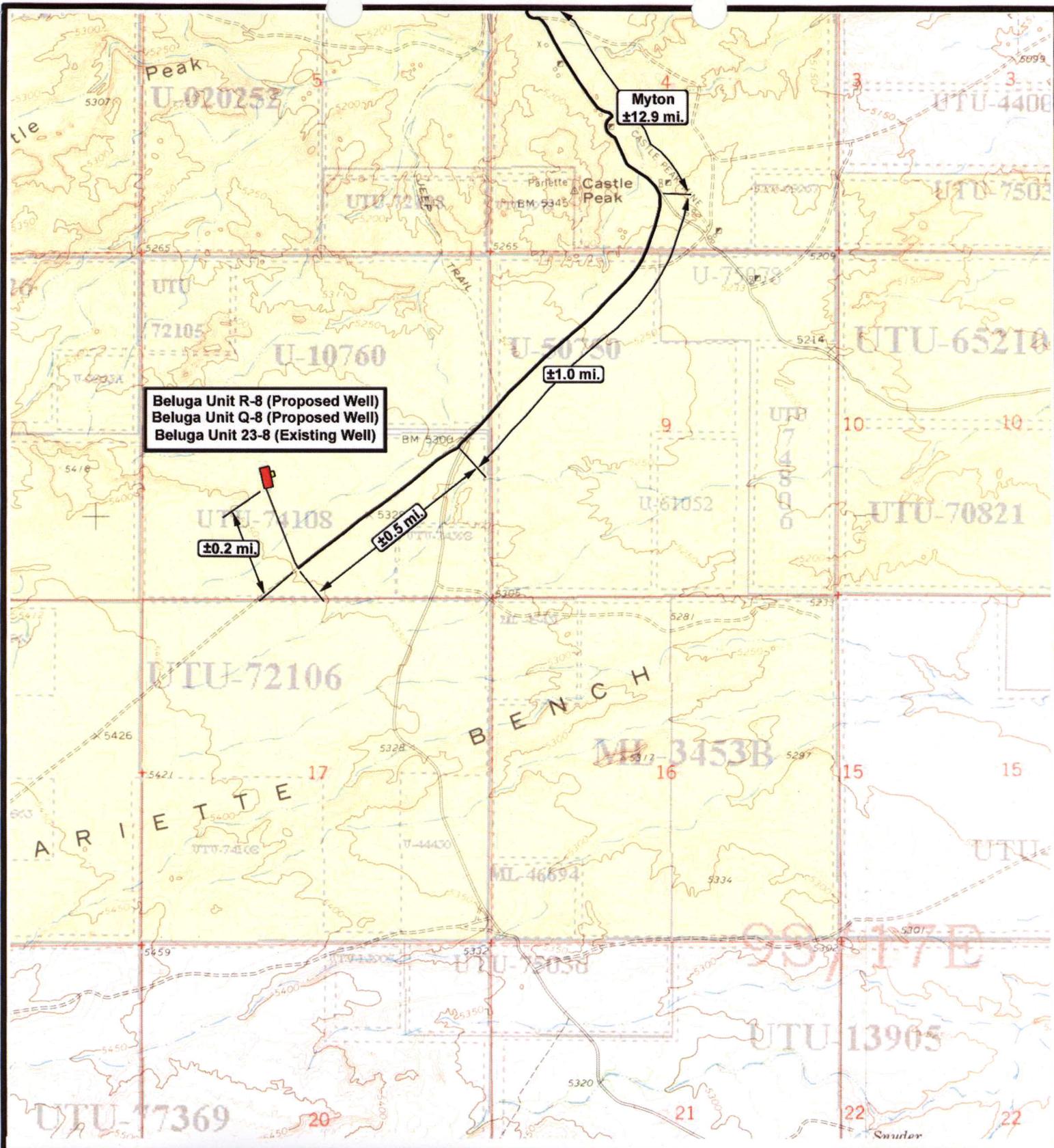
  
 Tri-State  
 Land Surveying Inc.  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1:100,000  
 DRAWN BY: nc  
 DATE: 12-11-2007

**Legend**

 Existing Road  
 Proposed Access

**TOPOGRAPHIC MAP**  
**"A"**



Beluga Unit R-8 (Proposed Well)  
 Beluga Unit Q-8 (Proposed Well)  
 Beluga Unit 23-8 (Existing Well)

Myton  
 ±12.9 mi.

±1.0 mi.

±0.2 mi.

±0.5 mi.



**NEWFIELD**  
 Exploration Company

**Beluga Unit R-8-9-17 (Proposed Well)**  
**Beluga Unit Q-8-9-17 (Proposed Well)**  
**Beluga Unit 23-8-9-17 (Existing Well)**  
 Pad Location: **NESW SEC. 8, T9S, R17E, S.L.B.&M.**




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

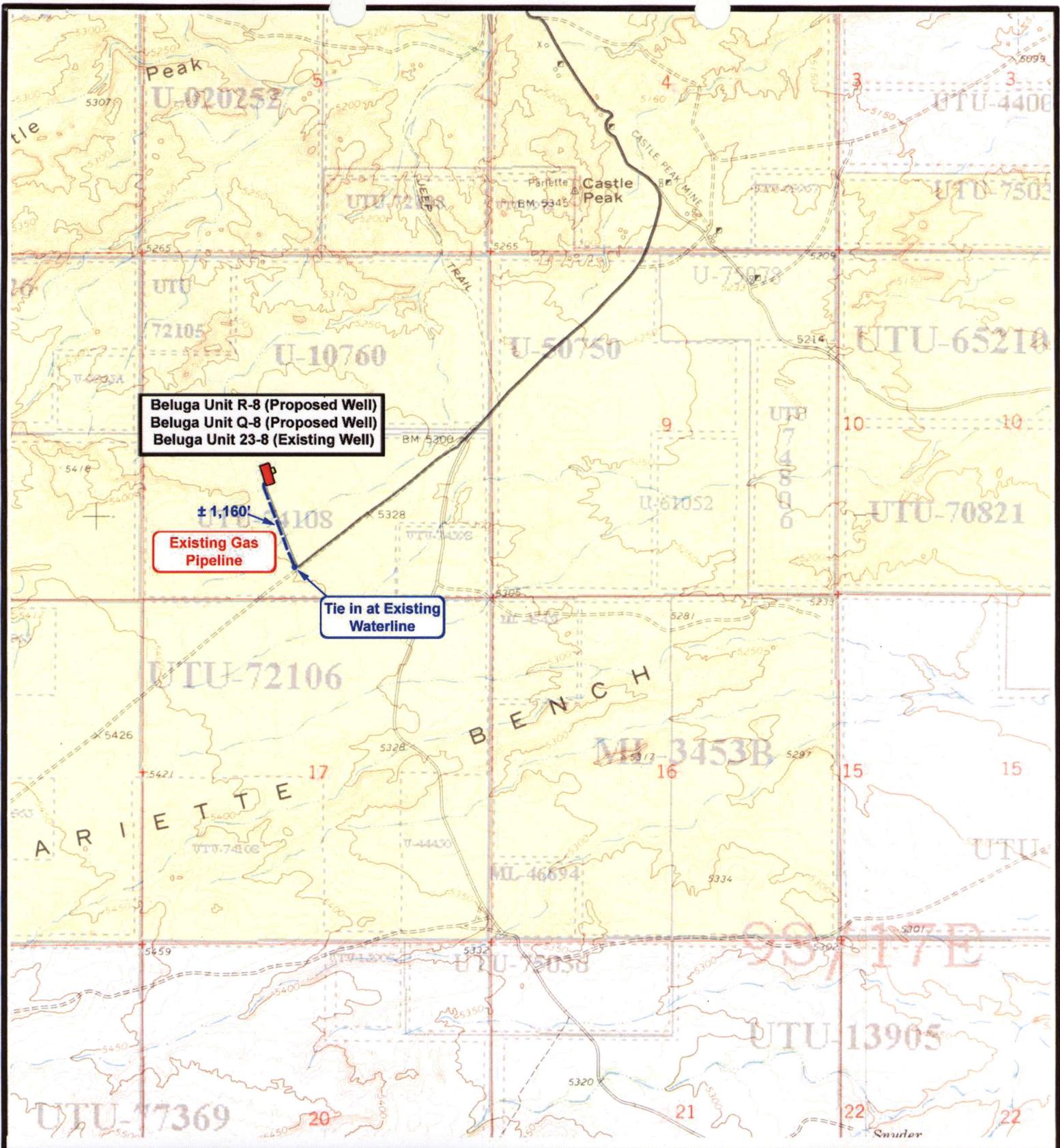
SCALE: 1" = 2000'  
 DRAWN BY: nc  
 DATE: 12-11-2007

**Legend**

Existing Road

TOPOGRAPHIC MAP

**"B"**



**NEWFIELD**  
Exploration Company

**Beluga Unit R-8-9-17 (Proposed Well)**  
**Beluga Unit Q-8-9-17 (Proposed Well)**  
**Beluga Unit 23-8-9-17 (Existing Well)**  
 Pad Location: **NESW SEC. 17, T9S, R17E, S.L.B.&M.**



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

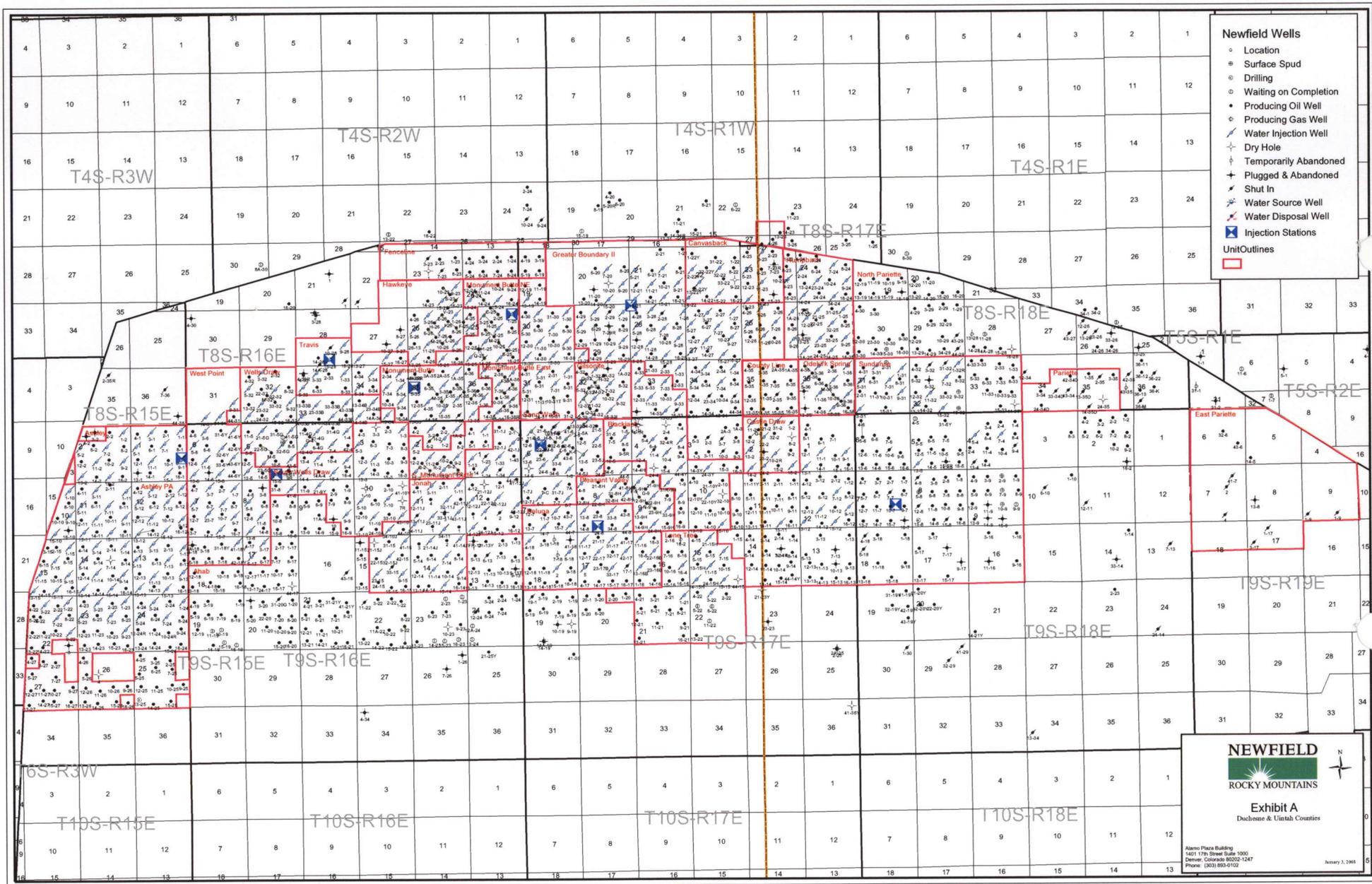
SCALE: 1" = 2000'  
 DRAWN BY: nc  
 DATE: 12-11-2007

**Legend**

- Roads
- Proposed Water Line

**TOPOGRAPHIC MAP**

**"C"**



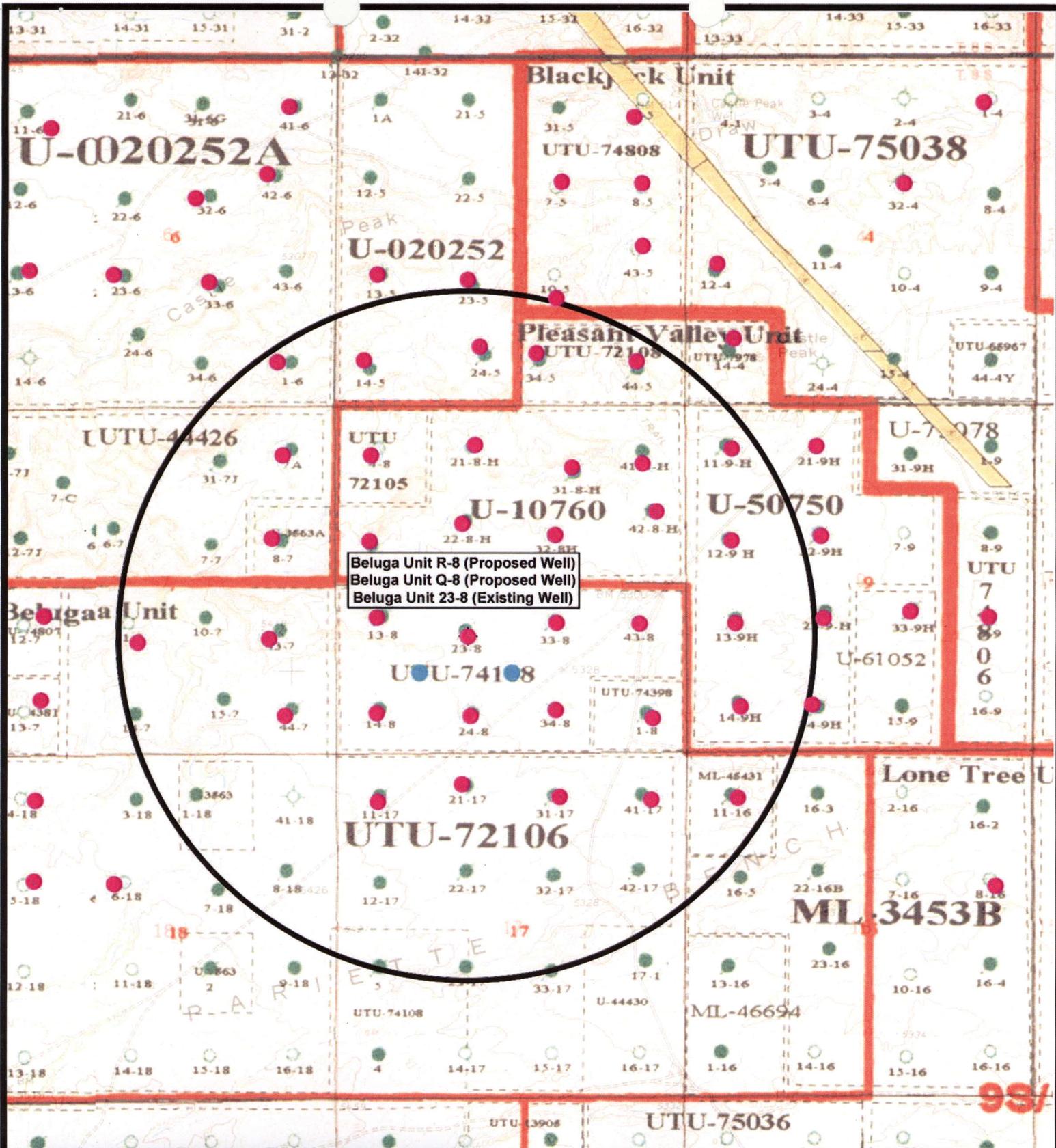
- Newfield Wells**
- Location
  - Surface Spud
  - Drilling
  - Waiting on Completion
  - Producing Oil Well
  - Producing Gas Well
  - Water Injection Well
  - Dry Hole
  - Temporarily Abandoned
  - Plugged & Abandoned
  - Shut In
  - Water Source Well
  - Water Disposal Well
  - Injection Stations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

**NEWFIELD**  
 ROCKY MOUNTAINS

Exhibit A  
 Duchesne & Uintah Counties

Alamo Plaza Building  
 1401 17th Street Suite 1000  
 Denver, Colorado 80202-1247  
 Phone: (303) 853-0102

January 3, 2008



Beluga Unit R-8 (Proposed Well)  
 Beluga Unit Q-8 (Proposed Well)  
 Beluga Unit 23-8 (Existing Well)

**NEWFIELD**  
 Exploration Company

**Beluga Unit R-8-9-17 (Proposed Well)**  
**Beluga Unit Q-8-9-17 (Proposed Well)**  
**Beluga Unit 23-8-9-17 (Existing Well)**  
 Pad Location: NESW SEC. 17, 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: nc  
 DATE: 12-11-2007

**Legend**

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

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

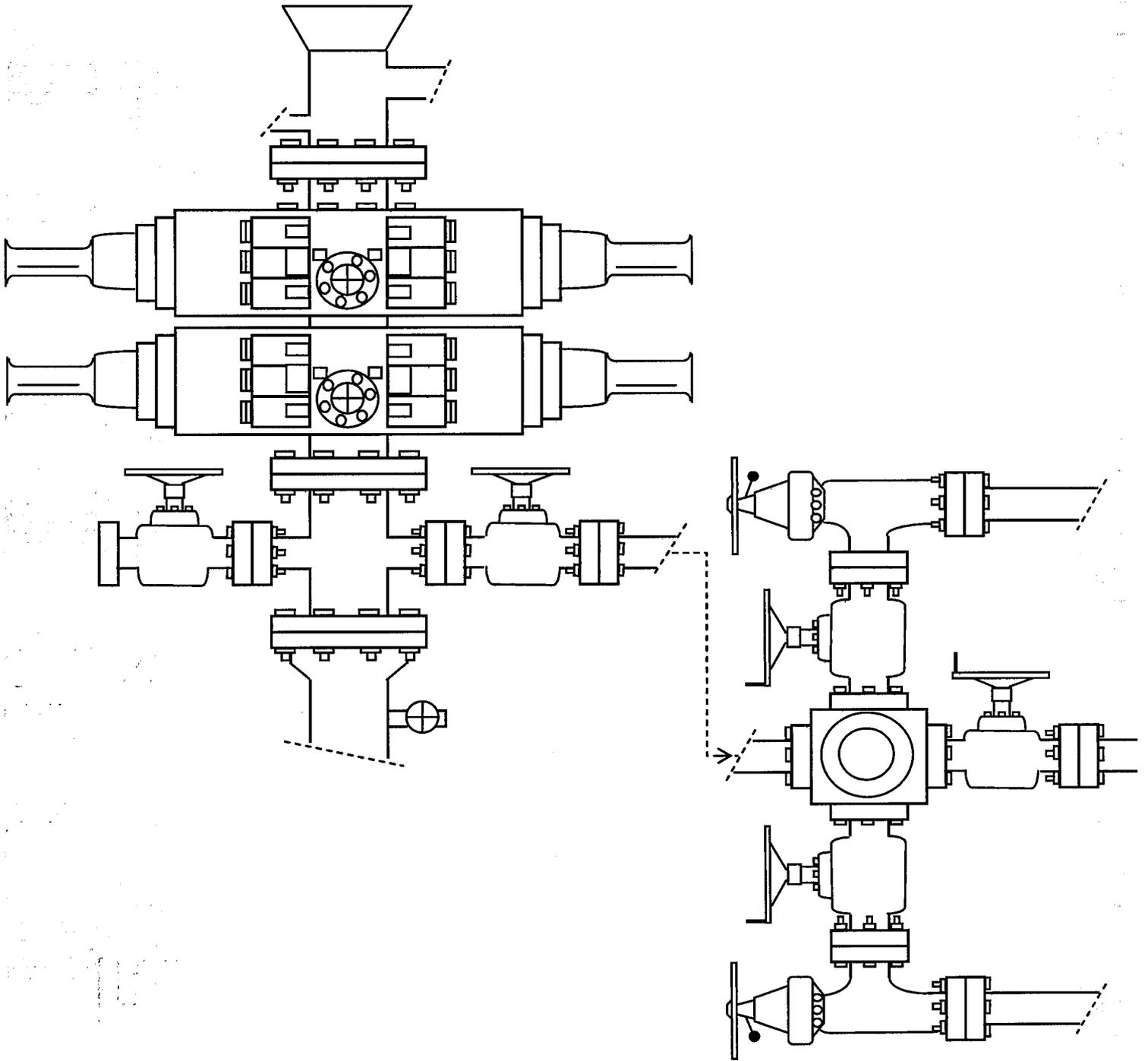


EXHIBIT C

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/14/2008

API NO. ASSIGNED: 43-013-33929

WELL NAME: BELUGA FED R-8-9-17  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NESW 08 090S 170E  
 SURFACE: 1838 FSL 1932 FWL  
 BOTTOM: 1300 FSL 2620 FWL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.04323 LONGITUDE: -110.0322  
 UTM SURF EASTINGS: 582561 NORTHINGS: 4432794  
 FIELD NAME: MONUMENT BUTTE ( 105 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-74108  
 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. 43-10136 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

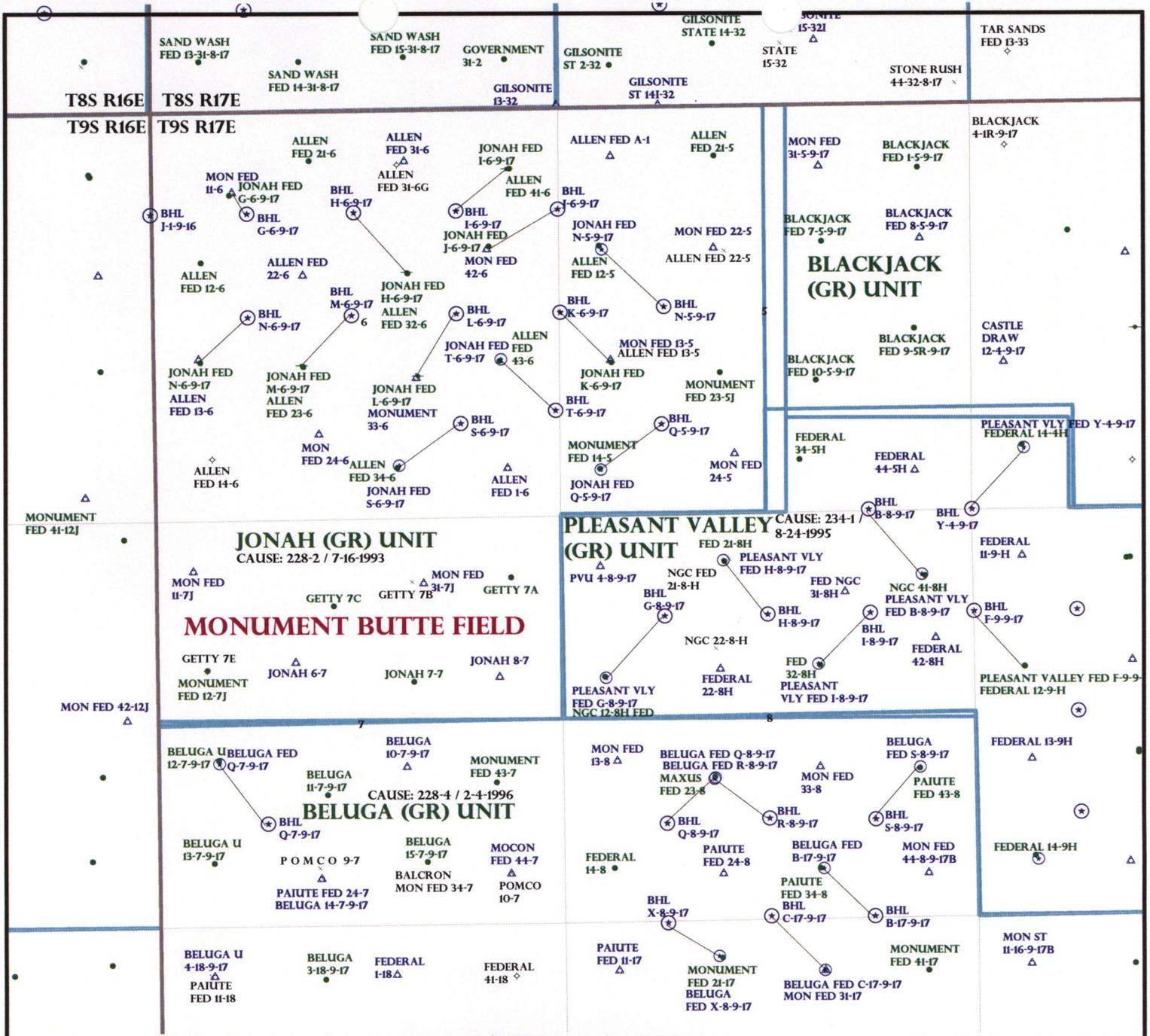
- R649-2-3.
- Unit: BELUGA (GRRV)
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 22P-4  
Eff Date: 2-14-1996  
Siting: (Does not Suspect Ground Siting)
- R649-3-11. Directional Drill

COMMENTS:

See Separate file

STIPULATIONS:

F Federal Approval



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 8 T.9S R.17E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

CAUSE: 228-4 / 2-4-1996

- Field Status**
- ABANDONED
  - ACTIVE
  - COMBINED
  - INACTIVE
  - PROPOSED
  - STORAGE
  - TERMINATED

- Unit Status**
- EXPLORATORY
  - GAS STORAGE
  - NF PP OIL
  - NF SECONDARY
  - PENDING
  - PI OIL
  - PP GAS
  - PP GEOTHERML
  - PP OIL
  - SECONDARY
  - TERMINATED

- Wells Status**
- GAS INJECTION
  - GAS STORAGE
  - LOCATION ABANDONED
  - NEW LOCATION
  - PLUGGED & ABANDONED
  - PRODUCING GAS
  - PRODUCING OIL
  - SHUT-IN GAS
  - SHUT-IN OIL
  - TEMP. ABANDONED
  - TEST WELL
  - WATER INJECTION
  - WATER SUPPLY
  - WATER DISPOSAL
  - DRILLING



OIL, GAS & MINING



PREPARED BY: DIANA MASON  
DATE: 18-MARCH-2008



March 12, 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  
**Beluga Federal R-8-9-17**  
Beluga Unit  
UTU-75023X  
Surface Hole: T9S R17E, Section 8: NESW  
1838' FSL 1932' FWL  
Bottom Hole: T9S R17E, Section 8  
1300' FSL 2620' FWL  
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated March 7, 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 Jonah Federal Unit UTU-75023X. Newfield certifies that it is the Jonah Unit Operator and all lands within 460 feet of the entire directional well bore are within the Jonah 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  
MAR 17 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-74108

6. If Indian, Allottee or Tribe Name  
N/A

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

8. Lease Name and Well No.  
Beluga Federal R-8-9-17

9. API Well No.

10. Field and Pool, or Exploratory  
Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area  
Sec. 8, 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 NE/SW 1838' FSL 1932' FWL  
At proposed prod. zone 1300' FSL 2620' FWL

14. Distance in miles and direction from nearest town or post office\*  
Approximatley 14.6 miles southeast of Myton, Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1300' flse, 1340' flunit

16. No. of Acres in lease  
440.00

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. 779'

19. Proposed Depth  
6095'

20. BLM/BIA Bond No. on file  
WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5341' GL

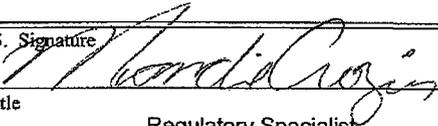
22. Approximate date work will start\*  
2 nd Quarter 2008

23. Estimated duration  
Approximately seven (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, shall be attached to this form:

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

25. Signature  Name (Printed/Typed) Mandie Crozier Date 3/7/08

Title Regulatory Specialist

Approved by (Signature) \_\_\_\_\_ Name (Printed/Typed) \_\_\_\_\_ Date \_\_\_\_\_

Title \_\_\_\_\_ Office \_\_\_\_\_

Application approval does not warrant or certify the 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.

\*(Instructions on reverse)

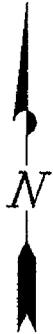
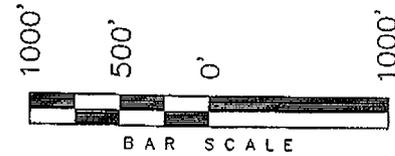
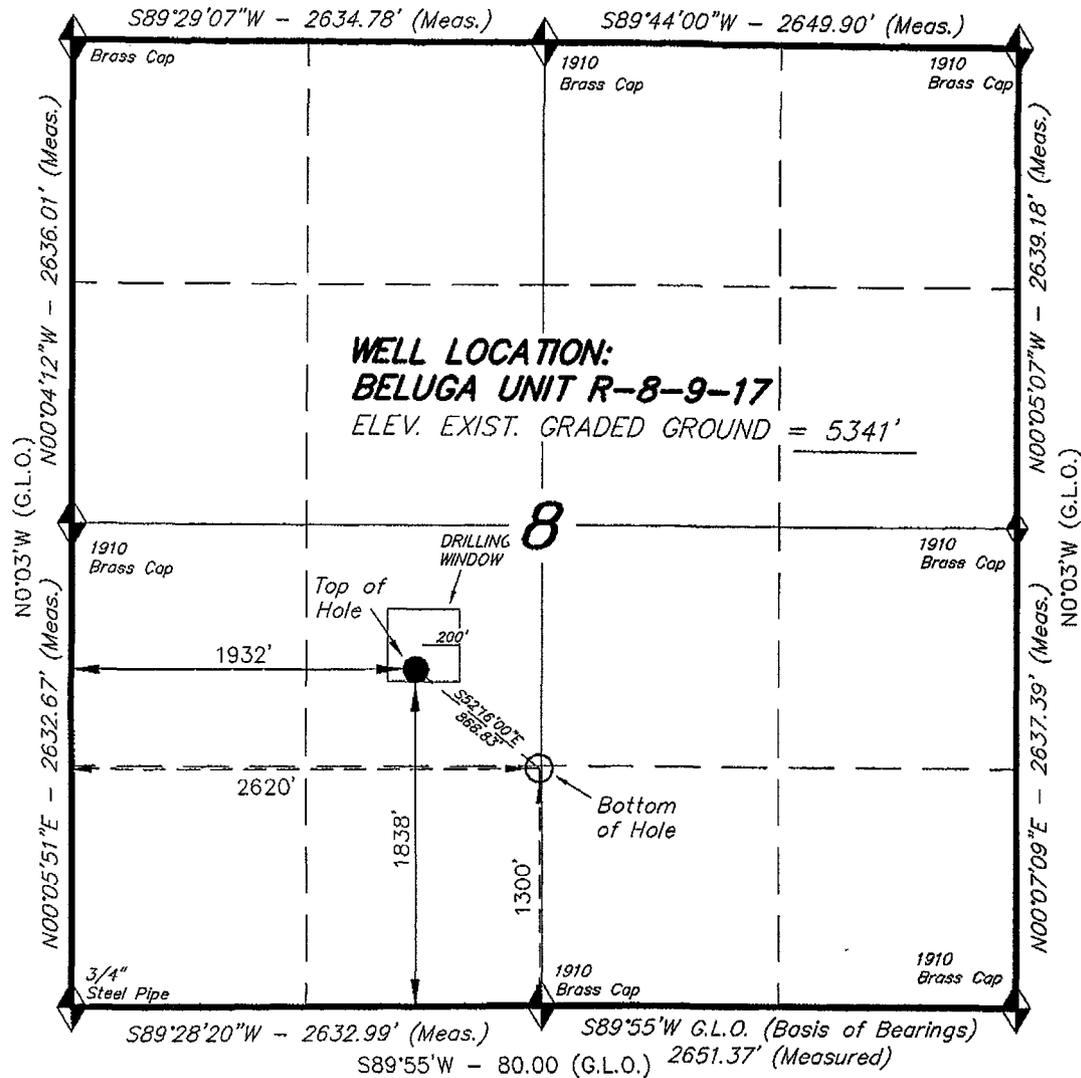
RECEIVED  
MAR 17 2008

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

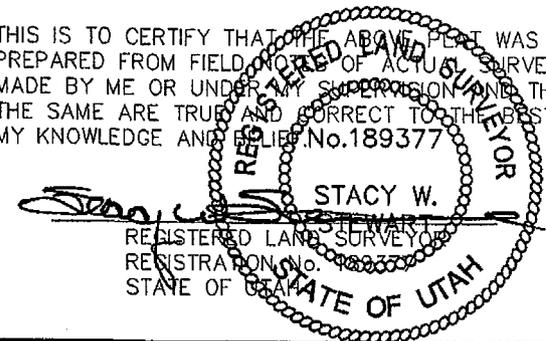
S89°56'W - 80.04 (G.L.O.)

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, BELUGA UNIT R-8-9-17,  
 LOCATED AS SHOWN IN THE NE 1/4 SW  
 1/4 OF SECTION 8, T9S, R17E, S.L.B.&M.  
 DUCHESNE COUNTY, UTAH.



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



◆ = SECTION CORNERS LOCATED

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

**BELUGA UNIT R-8-9-17**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 02' 35.65"  
 LONGITUDE = 110° 01' 58.77"

### TRI STATE LAND SURVEYING & CONSULTING

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

DATE SURVEYED: 11-28-07	SURVEYED BY: T.H.
DATE DRAWN: 12-10-07	DRAWN BY: F.T.M.
REVISED: 01-15-08 L.C.S.	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)

March 24, 2008

Memorandum

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

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2008 within the Beluga Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-013-33930	Beluga Fed S-8-9-17	Sec 8 T09S R17E 1935 FSL 0725 FEL BHL Sec 8 T09S R17E 1270 FSL 1305 FEL
43-013-33929	Beluga Fed R-8-9-17	Sec 8 T09S R17E 1838 FSL 1932 FWL BHL Sec 8 T09S R17E 1300 FSL 2620 FWL
43-013-33928	Beluga Fed Q-8-9-17	Sec 8 T09S R17E 1820 FSL 1921 FWL BHL Sec 8 T09S R17E 1250 FSL 1305 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 - Beluga Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:3-24-08



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

March 24, 2008

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

Re: Beluga Federal R-8-9-17 Well, Surface Location 1838' FSL, 1932' FWL, NE SW, Sec. 8, T. 9 South, R. 17 East, Bottom Location 1300' FSL, 2620' FWL, NE SW, Sec. 8, 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 43-013-33929.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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

Operator: Newfield Production Company  
Well Name & Number Beluga Federal R-8-9-17  
API Number: 43-013-33929  
Lease: UTU-74108

Surface Location: NE SW      Sec. 8      T. 9 South      R. 17 East  
Bottom Location: NE SW      Sec. 8      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.

RECEIVED

MAR 14 2008

Form 3160-3  
(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

BLM

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

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-74108
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 N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Beluga Unit
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Beluga Federal R-8-9-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-33929
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NE/SW 1838' FSL 1932' FWL At proposed prod. zone 1300' FSL 2620' FWL		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 14.6 miles southeast of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 8, T9S R17E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1300' f/lse, 1340' f/unit	16. No. of Acres in lease 440.00	12. County or Parish Duchesne
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. 779'	13. State UT
19. Proposed Depth 6095'	20. BLM/BIA Bond No. on file WYB000493	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5341' GL	22. Approximate date work will start* 2 nd Quarter 2008	23. Estimated duration Approximately seven (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, shall 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 shall 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 authorized officer.

25. Signature <i>Mandie Crozier</i>	Name (Printed/Typed) Mandie Crozier	Date 3/7/08
Title Regulatory Specialist		
Approved by (Signature) <i>Jerry Kevela</i>	Name (Printed/Typed) Jerry Kevela	
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the 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.

\*(Instructions on reverse)

RECEIVED

NOV 20 2008

DIV. OF OIL, GAS & MINING

UDOGM

08PP0317A

nos 01/08/09

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



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

**Company:** Newfield Production Company  
**Well No:** Beluga Federal R-8-9-17  
**API No:** 43-013-33929

**Location:** NESW, Sec. 8, T9S, R17E  
**Lease No:** UTU-74108  
**Agreement:** Beluga Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
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:	Holly Villa	(435) 781-4404	(435) 828-3544
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:	Dan Emmett	(435) 781-3414	(435) 828-4029
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	(435) 828-7381
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

**Fax: (435) 781-3420**

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

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

**NOTIFICATION REQUIREMENTS**

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

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

- 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.

#### **SITE SPECIFIC CONDITIONS OF APPROVAL**

- Lessee/operator is given notice the area has been identified as containing Golden Eagle habitat. Modifications may be required in the Surface Use Plan to protect the Golden Eagle and/or its habitat from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.
- Lessee/operator is given notice the area has been identified as containing Ferruginous Hawk habitat. Modifications may be required in the Surface Use Plan to protect the Ferruginous Hawk and/or its habitat from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.

#### Comments:

- GIS data shows the project area is within Mountain Plover nesting habitat. Because the proposed location is going to be directionally drilled from an existing location and no new disturbance will be required, Mountain Plover timing restrictions were not applied.
- During onsite it was evident that scattered complexes of White-tailed prairie dog colonies (Burrowing Owl nesting habitat) were in the area. Because the proposed location is going to be directionally drilled from an existing location and no new disturbance will be required \Burrowing Owl timing restrictions were not applied.
- This project will be a Categorical Exclusion to the Castle Peak and Eight – Mile Flat Oil and Gas Expansion Project EIS (August 2005).
- No raptor nests are within a ½ mile of the Project Area.

#### Follow-up Actions and/or Recommendations:

**Please be aware that this Special Status Species wildlife clearance is effective for 1 year from the date of the onsite date. Any proposals submitted after the date of the onsite should require additional surveys and clearances.**

Based on the previous field exam and existing data, and if all timing restrictions are adhered to then, it is my opinion that a no effect situation exists for Special Status Wildlife Species with the construction and drilling of this proposed drill site. Therefore, this site is cleared from a Special Status Wildlife Species perspective.

#### **CONDITIONS OF APPROVAL:**

- Pipelines will be buried at all major drainage crossings. For all pipelines crossing streams and/or floodplains, consult "Hydraulic Considerations for Pipelines Crossing Stream Channels" Tech Note 423 (<ftp://ftp.blm.gov/pub/nstc/TechNotes/TechNote423.pdf>).
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.

- All pipelines (surface and buried) will be laid within one 50' wide construction ROW, on one side of the road, and will reduce down to a 30' wide permanent ROW on lease.
- A temporary road ROW will not be granted. The road ROW will be 30 foot for construction and will reduce to an 18 foot running surface.
- The access road will be crowned and ditched. Flat-bladed roads are not allowed. All roads will have an 18', crowned (2 to 3% minimum), running surface. All roads will have drainage ditches along both sides of road.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Prevent fill and stock piles from entering drainages.
- To insure impermeability, the reserve pit will be lined with a 16 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- Any hydrocarbons in the reserve pit will be removed **immediately** upon well completion; in accordance with 43 CFR 3162.7-1. Pits must be free of oil and other liquid and solid wastes prior to filling.
- Monument Butte SOP, Section 9.2 - Pit Fencing Minimum Standards - will be strictly adhered to. To include 9.2.2.3 - Corner posts will be cemented and/or braced in such a manner as to keep fence tight at all times.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.

- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- 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 (or referenced in approved SOP), a detailed Interim and Final Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. If Reclamation Plan is acceptable, 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 recontoured and the topsoil respread, and the area shall be **seeded using a rangeland drill**. Seeding depth as per AO, or seed distributor. If portions of the site are too steep (>40%), or rocky, that portion may be broadcast seeded. If broadcasting seed, the seed shall be walked into the soil with a dozer immediately after the seeding is completed, or covered by soil using a drag chain. Seeding shall occur in the fall (August 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
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"
Forage Kochia	<i>Kochia prostrata</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.
- 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.

**Final reclamation:**

Once the location is plugged and abandoned, the well location, access, and any disturbed areas shall be recontoured to natural topography, topsoil shall be respread, and the entire location

shall be seeded following guidelines in the seed mix bullet statement above. Final seed mix:  
same as interim.

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

**SITE SPECIFIC DOWNHOLE COAs:**

- A copy of Newfield's Standard Operating Practices (SOP version: dated 4/18/08 and approved 5/12/08) shall be on location.
- Drilling plan specifics and practices are referenced in the Newfield Standard Operating Procedures (SOP version: April 18, 2008). The operators drilling plan items 4 to 8 reference the SOP. Newfield shall adhere to the referenced requirements in the SOP.  
Newfield and their contractors shall adhere to all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders except where variances have been granted.
- Production casing cement shall be brought up and into the surface.
- Covering air/gas drilling operations, requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.
- Logging: A Gamma Ray well Log shall be run from the well Total Depth to the surface.  
A copy of the Gamma Ray well Log shall be submitted to the BLM Vernal Field Office.
- A copy of the as drilled directional survey shall be submitted to the BLM Vernal Field Office.
- Well location TD bottom footage hole location information on the completion form 3160-4 Well Completion or Recompletion Report and Log should match and be in agreement with the from the actual drilling directional survey well departure values for the TD bottom hole location.

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

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

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

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

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

Spud  
BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross Rig  
#29 Submitted By Don Bastian Phone \_\_\_\_\_  
Number 435-823-6012  
Well Name/Number Beluga Federal R-8-9-17  
Qtr/Qtr NE/SW Section 8 Township 9S Range  
17E  
Lease Serial Number UTU-  
74108  
API Number 43-013-33929

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

Date/Time 3/2/09 9:00 AM  PM

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

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

Date/Time 3/2/09 3:00 AM  PM

BOPE

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

Date/Time \_\_\_\_\_ AM  PM

Remarks Moving Ross Rig # 29 In And Rig Up On 3/2/09  
Spud @ 9:00 AM

---

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

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

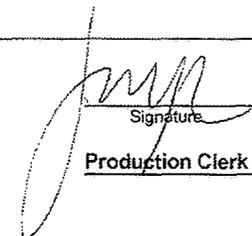
OPERATOR ACCT. NO. **N2695**

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	11880	4301333929	BELUGA FEDERAL R-8-9-17	NESW	8	9S	17E	DUCHESNE	3/2/2009	3/5/09
WELL 1 COMMENTS: GRRV BHL = NESW											
B	99999	11880	4301333928	BELUGA FEDERAL Q-8-9-17	NESW	8	9S	17E	DUCHESNE	3/3/2009	3/5/09
WELL 2 COMMENTS: GRRV BHL = SWSW											
WELL 5 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)  
 A - new entity for new well (single well only)  
 B - well to existing entity (group or unit well)  
 C - from one existing entity to another existing entity  
 D - well from one existing entity to a new entity  
 E - other (explain in comments section)

**RECEIVED**  
**MAR 04 2009**

DIV. OF OIL, GAS & MINING

  
 Signature  
**Jenri Park**  
 Production Clerk  
 03/04/09  
 Date

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

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

3b. Phone (include are code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1838 FSL 1932 FWL  
NESW Section 8 T9S R17E

5. Lease Serial No.

USA UTU-74108

6. If Indian, Allottee or Tribe Name.

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

BELUGA UNIT

8. Well Name and No.

BELUGA R-8-9-17

9. API Well No.

4301333929

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

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

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

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

On 3/2/09 MIRU Ross # 29. Spud well @ 9:00am. Drill 330' of 12 1/4" hole with air mist. TIH W/ 8 Jt's 8 5/8" J-55 24 # csgn. Set @ 337.64' On 3/4/09 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 6 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Don Bastian

Signature

*Don Bastian*

Title

Drilling Foreman

Date

03/04/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_

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

Title

Office

Date

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

(Instructions on page 2)

**RECEIVED**

**MAR 16 2009**

**DIV. OF OIL, GAS & MINING**





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

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

3b. Phone (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1838 FSL 1932 FWL  
NESW Section 8 T9S R17E

5. Lease Serial No.

USA UTU-74108

6. If Indian, Allottee or Tribe Name.

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

BELUGA UNIT

8. Well Name and No.

BELUGA R-8-9-17

9. API Well No.

4301333929

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

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

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

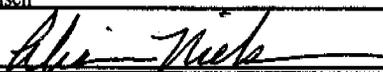
13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical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

On 3/6/09 MIRU NDSI Rig # 2. Set all equipment. Then shut down & repair rig. We pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi on 3/17/09. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 290'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 5,990. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 151 jt's of 5.5 J-55, 15.5# csgn. Set @ 5986.75' / KB. Cement with 280 sks cement mixed @ 11.0 ppg & 3.49 yld. Then 400sks cement mixed @ 14.4 ppg & 1.24 yld. With 31 bbs cement returned to pit. Nipple down Bop's. Drop slips @ 85,000 #'s tension. Release rig 5:30 PM 3/24/09.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Alvin Nielsen

Signature



Title

Drilling Foreman

Date

03/25/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

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

Title

Date

Office

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

(Instructions on page 2)

RECEIVED

MAR 30 2009

DIV. OF OIL, GAS & MINING





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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-74108

**SUNDRY NOTICES AND REPORTS ON WELLS**

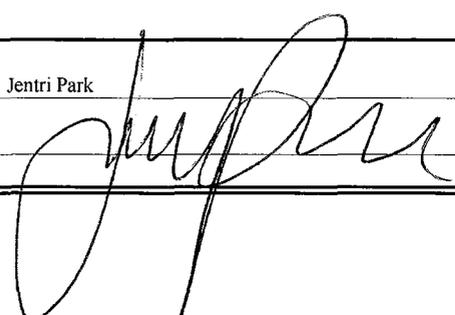
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME: BELUGA UNIT
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		8. WELL NAME and NUMBER: BELUGA R-8-9-17
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 1838 FSL 1932 FWL		9. API NUMBER: 4301333929
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NESW, 8, T9S, R17E		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
		COUNTY: DUCHESNE
		STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: <u>06/04/2009</u>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
The above subject well was completed on 04/22/09, attached is a daily completion status report.

NAME (PLEASE PRINT) <u>Jentri Park</u>	TITLE <u>Production Clerk</u>
SIGNATURE 	DATE <u>06/04/2009</u>

(This space for State use only)

**RECEIVED**  
**JUN 08 2009**

DIV. OF OIL, GAS & MINING

**Daily Activity Report****Format For Sundry****BELUGA R-8-9-17****2/1/2009 To 6/30/2009****4/10/2009 Day: 1****Completion**

Rigless on 4/10/2009 - 9 Apr 09. Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. Perforate stage #1. CP1 sds @ 5529-5539'- 9 Apr 09. Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5905' cement top @ 54'. Perforate stage #1. CP1 sds @ 5529-5539' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 40 shots. 132 BWTR. SWIFN.

**4/14/2009 Day: 2****Completion**

Rigless on 4/14/2009 - 4/14/09: Frac 5 stages.- RU BJ Services. 296 psi on well. Broke @ 3240 psi. ISIP @ 1917 psi, 1 min @ 1570 psi, 4 min @ 1446 psi. FG @ .78. Frac CP1 sds w/ 55,476#'s of 20/40 sand in 506 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2641 psi w/ ave rate of 25.0 BPM. ISIP 2937 psi, 5 min @ 2443 psi, 10 min @ 2250 psi, 15 min @ 2088 psi. FG @ .97. Leave pressure on well. 638 BWTR.,RU The Perforators, llc WLT, crane & lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug @ 12' perf gun. Set plug @ 4910'. Perforate C sds @ 4814-26' w/ 3 1/8" slick gun (.49" EH, 19 gram, 120°) w/ 4 spf for total of 48 shots. RU BJ Services. 1731 psi on well. Broke @ 4088 psi. ISIP @ 1500 psi Pressure increased, skipped shut in pressures. Frac C sds w/ 65,180#'s of 20/40 sand in 548 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2151 psi w/ ave rate of 24.7 BPM. ISIP 2278 psi. FG @ .91. Leave pressure on well. 1553 BWTR.,RU The Perforators, llc WLT, crane & lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug @ 5', 8' perf guns. Set plug @ 4240'. Perforate GB6 sds @ 4159-67' & GB4 sds @ 4115-20' w/ 3 1/8" slick gun (.49" EH, 19 gram, 120°) w/ 4 spf for total of 52 shots. RU BJ Services. 1330 psi on well. Broke @ 2647 psi. ISIP @ 1339 psi, 1 min @ 1299 psi, 4 min @ 1219 psi. FG @ .76. Frac GB4/GB6 sds w/ 142,219#'s of 20/40 sand in 978 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1957 psi w/ ave rate of 25.0 BPM. ISIP 2045 psi, 5 min @ 1829 psi, 10 min @ 1735 psi, 15 min @ 1626 psi. FG @ .93. Open well to pit for immediate flowback @ approx. 3 bpm. Well flowed for 7 hrs & turned to oil. SWIFN. 1914 BWTR.,RU The Perforators, llc WLT, crane & lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug @ 8' perf gun. Set plug @ 4750'. Perforate D2 sds @ 4712-20' w/ 3 1/8" slick gun (.49" EH, 19 gram, 120°) w/ 4 spf for total of 32 shots. RU BJ Services. 1604 psi on well. Broke @ 2593 psi. ISIP @ 1653 psi, 1 min @ 1486 Pressure increased, skipped 4 min shut in pressure. FG @ .79. Frac D2 sds w/ 30,154#'s of 20/40 sand in 391 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1847 psi w/ ave rate of 25.0 BPM. ISIP 1908 psi, 5 min @ 1728 psi, 10 min @ 1642 psi, 15 min @ 1593 psi. FG @ .84. Leave pressure on well. 1944 BWTR.,RU The Perforators, llc WLT, crane & lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug @ 8' perf gun. Set plug @ 5220'. Perforate A3 sds @ 5137-45' w/ 3 1/8" slick gun (.49" EH, 19 gram, 120°) w/ 4 spf for total of 32 shots. RU BJ Services. 1820 psi on well. Broke @ 4106 psi. ISIP @ 1600 psi Pressure increased, skipped shut in pressures. Frac A3 sds w/ 24,680#'s of 20/40 sand in 367 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2103 psi w/ ave rate of 24.9 BPM. ISIP 2185 psi. FG @ .86. Leave pressure on well. 1005 BWTR.

**4/16/2009 Day: 3****Completion**

Rigless on 4/16/2009 - 4/15/09: Set kill plug.- RU The Perforators wireline truck & crane. RIH w/ Weatherford 5 1/2" 6K composite kill plug. Set plug @ 4070'. Bleed off well. RD wireline

truck. SWIFN. 1914 BWTR.

**4/18/2009 Day: 4**

**Completion**

Rigless on 4/18/2009 - 4/17/09: MIRU Western #3. ND Cameron. NU Schaeffer. DU CBPs.- MIRU Western #3. ND Cameron BOP & 5m frac head. NU 3m production head & Schaeffer BOP. RIH w/ 4 3/4" chomp bit, bit sub & new 2 7/8" tbg. from pipe racks (tallying & drifting). Tag CBP @ 4070'. RU powerswivel & pump. DU CBP in 14 min. Cont. RIH w/ tbg. Tag CBP @ 4240'. DU CBP in 13 min. Cont. RIH w/ tbg. Tag fill @ 4715'. C/O to CBP @ 4750'. DU CBP in 20 min. Cont. RIH w/ tbg. Tag CBP @ 4910'. DU CBP in 15 min. Cont. RIH w/ tbg. Tag fill @ 5145'. C/O to CBP @ 5220'. DU CBP in 35 min. Circulate well clean. SWIFN. 1754 BWTR.

**4/21/2009 Day: 5**

**Completion**

Western #3 on 4/21/2009 - 4/20/09: C/O to PBDT @ 5947'. Swab & flow well.- tbg. @ 350 psi, csg. @ 450 psi. Bleed off well. Pump 30 bbls water down tbg. Cont. RIH w/ tbg. Tag fill @ 5445'. C/O to PBDT @ 5947'. Circulate well clean. Pull up to 5860'. RU swab. SFL @ surface. Made 7 runs. Recovered 83 bbls. Well started flowing. Well flowed for 2 hrs. Recovered 75 bbls. No show of sand. Ending oil cut @ approx. 40%. RD swab. Pump 30 bbls water down tbg. RIH w/ tbg. Tag PBDT @ 5947'. Pull up to 5641'. SWIFN. 1824 BWTR. 45 bbls oil recovered.

**4/22/2009 Day: 6**

**Completion**

Western #3 on 4/22/2009 - 4/21/09: Kill well w/ brine. Round trip tbg. PU rods. PWOP @ 6:00 p.m. 5 spm, 144 Stroke. Final Report. 1869 BWTR.- Tbg. 200 psi, csg. 450 psi. Bleed off well. Kill well w/ 180 bbls 10# brine water. POOH w/ tbg. LD BHA. RIH w/ 2 7/8" notched collar, 2 jts 2 7/8" tbg., PSN, 2 jts 2 7/8" tbg., 5 1/2" TAC, 176 jts 2 7/8" tbg. ND BOP. Set TAC @ 5513' w/ 19,000# tension. NU wellhead. X-over for rods. Flush tbg. w/ 60 bbls water. RIH w/ Central Hydraulic 2 1/2" x 1 3/4" x 20' x 24' RHAC rod pump, shear coupler, 4- 1 1/2" weight bars, 218- 7/8" guided rods (8 per), 1- 2' x 7/8" pony sub, 1 1/2" x 30' polished rod. Seat pump. RU pumping unit. Hang off rods. Stroke test to 800 psi. Good pump action. RD. Put well on production @ 6:00 p.m. 144 stroke length, 5 spm. Final Report. 1869 BWTR.

**Finalized**

**Pertinent Files: Go to File List**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
UTU-74108

6. If Indian, Allottee or Tribe Name  
NA

7. Unit or CA Agreement Name and No.  
FEDERAL

8. Lease Name and Well No.  
BELUGA FEDERAL R-8-9-17

9. AFI Well No.  
43-013-33929

10. Field and Pool or Exploratory  
MONUMENT BUTTE

11. Sec., T., R., M., on Block and  
Survey or Area SEC. 8, T9S, R17E

12. County or Parish  
DUCHESNE

13. State  
UT

1a. Type of Well  Oil Well  Gas Well  Dry  Other

b. Type of Completion:  New Well  Work Over  Deepen  Plug Back  Diff. Resrv.,

Other: \_\_\_\_\_

2. Name of Operator  
NEWFIELD EXPLORATION COMPANY

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

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

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

At surface 1838' FSL & 1932' FWL (NE/NW) SEC. 8, T9S, R17E

At top prod. interval reported below BHL: 1300' FSL & 2620' FWL (SW/SW)

At total depth 5990' 1225 fsl 2562 fwl per HSM review

14. Date Spudded  
03/02/2009

15. Date T.D. Reached  
03/23/2009

16. Date Completed 04/21/2009  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5341' GL 5353' KB

18. Total Depth: MD 5980'  
TVD 5845' 5895'

19. Plug Back T.D.: MD 5947'  
TVD 5862'

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#		338'		161 CLASS G			
7-7/8"	5-1/2" J-55	15.5#		5987'		280 PRIMLITE		54'	
						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@ 5642'	TA @ 5516'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER			(CP1) 5529-5539'	.49"	4	40
B) GREEN RIVER			(A3)5137-5145'	.49"	4	32
C) GREEN RIVER			(C) 4814-4826'	.49"	4	48
D) GREEN RIVER			(D2) 4712-4720'	.49"	4	32

26. Perforation Record 4115

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER			(CP1) 5529-5539'	.49"	4	40
B) GREEN RIVER			(A3)5137-5145'	.49"	4	32
C) GREEN RIVER			(C) 4814-4826'	.49"	4	48
D) GREEN RIVER			(D2) 4712-4720'	.49"	4	32

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

Depth Interval	Amount and Type of Material
5529-5539'	Frac w/ 55476# of 20/40 snd 506 bbls fluid
5137-5145'	Frac w/ 24680# 20/40 snd 367 bbls fluid
4814-4826'	Frac w/ 65180 # 20/40 snd 395 bbls fluid
4712-4720'	Frac w/ 60154# 20/40 snd 245 bbls fluid

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
04/21/09	05/14/09	24	→	97	0	23			2-1/2" x 1-3/4" x 20' x 24' RHAC Pump

Choke Size SI

24 Hr. Rate →

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 SI

24 Hr. Rate →

Well Status

RECEIVED  
JUN 29 2009

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top	
					Meas. Depth	
				GARDEN GULCH MRK GARDEN GULCH 1	3624'	3825'
				GARDEN GULCH 2 POINT 3	3939'	4202'
				X MRKR Y MRKR	4451'	4492'
				DOUGALS CREEK MRK BI CARBONATE MRK	4623'	4865'
				B LIMESTON MRK CASTLE PEAK	4987'	5473'
				BASAL CARBONATE TOTAL DEPTH (LOGGERS)	5896'	5981'

32. Additional remarks (include plugging procedure):

STAGE 5:  
(GB6) 4159-4167' (GB4) 4115-4120' .49" 4/52 4115-4167' Frac w/ 142219#'s of 20/40 sand in 849 bbls of fluid

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

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

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) Tammi Lee Title Production Clerk  
 Signature *Tammi Lee* Date 06/22/2009

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.



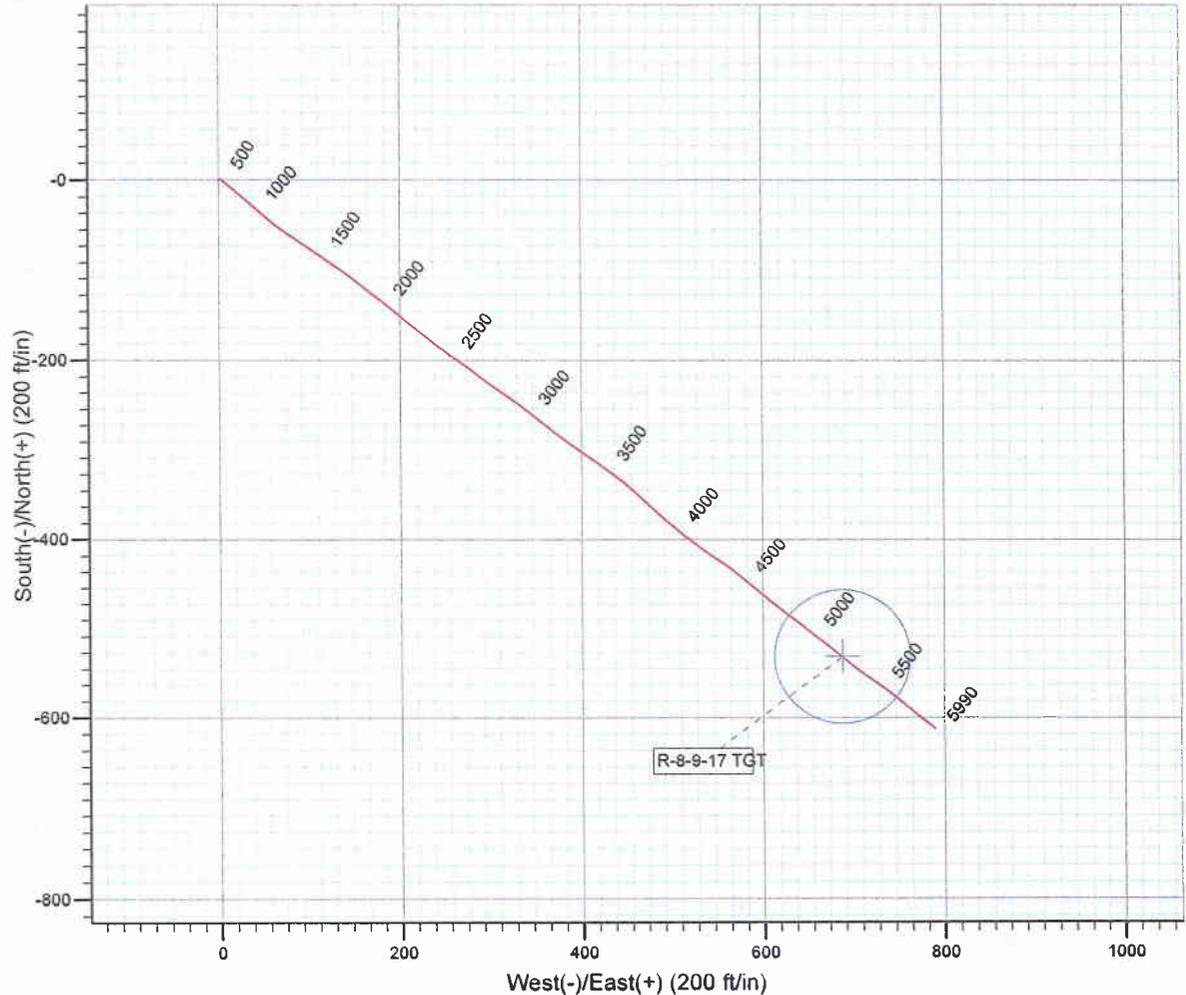
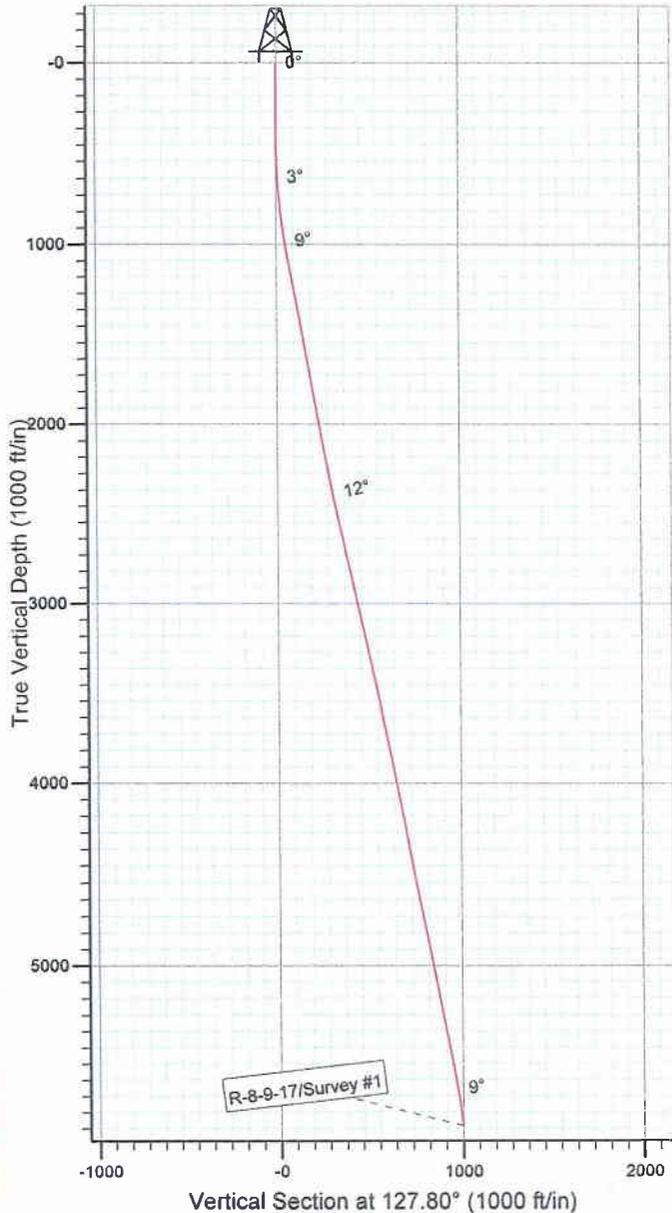
Project: USGS Myton SW (UT)  
 Site: SECTION 8  
 Well: R-8-9-17  
 Wellbore: Wellbore #1  
 SURVEY: Wellbore #1

FINAL SURVEY REPORT



Azimuths to True North  
 Magnetic North: 11.61°

Magnetic Field  
 Strength: 52548.6snT  
 Dip Angle: 65.87°  
 Date: 2008/12/17  
 Model: IGRF200510



Survey: Survey #1 (R-8-9-17/Wellbore #1)

Created By: *Jim Hudson* Date: 10:35, March 24 2009

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

**NEWFIELD**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)**

**SECTION 8**

**R-8-9-17**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

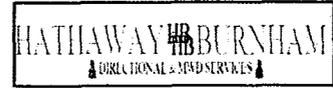
**24 March, 2009**

**HATHAWAY HB BURNHAM**  
DIRECTIONAL & MWD SERVICES



# HATHAWAY BURNHAM

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 8  
**Well:** R-8-9-17  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well R-8-9-17  
**TVD Reference:** R-8-9-17 @ 5353.0ft (NDSI #1)  
**MD Reference:** R-8-9-17 @ 5353.0ft (NDSI #1)  
**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 8, SEC 8 T9S, R17E			
<b>Site Position:</b>		<b>Northing:</b>	7,189,610.00ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,051,781.00ft
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	40° 2' 53.026 N
		<b>Longitude:</b>	110° 1' 49.660 W
		<b>Grid Convergence:</b>	0.94 °

<b>Well</b> R-8-9-17, SHL LAT: 40 02 35.65, LONG: -110 01 58.77			
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b> 7,187,840.51 ft
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b> 2,051,101.54 ft
<b>Position Uncertainty</b>	0.0 ft	<b>Wellhead Elevation:</b>	ft
		<b>Latitude:</b>	40° 2' 35.650 N
		<b>Longitude:</b>	110° 1' 58.770 W
		<b>Ground Level:</b>	5,306.0 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	2008/12/17	11.61	65.87	52,549

<b>Design</b> Wellbore #1					
<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	127.80	

<b>Survey Program</b>		<b>Date</b> 2009/03/24
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>
393.0	5,990.0	Survey #1 (Wellbore #1)
		<b>Tool Name</b>
		MWD
		<b>Description</b>
		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
393.0	0.41	60.26	393.0	0.7	1.2	0.5	0.10	0.10	0.00
424.0	0.30	63.00	424.0	0.8	1.4	0.6	0.36	-0.35	8.84
454.0	0.51	103.40	454.0	0.8	1.6	0.8	1.14	0.70	134.67
485.0	0.92	109.40	485.0	0.7	2.0	1.1	1.34	1.32	19.35
515.0	1.57	127.80	515.0	0.3	2.5	1.8	2.52	2.17	61.33
546.0	2.04	124.09	546.0	-0.2	3.3	2.7	1.56	1.52	-11.97
577.0	2.45	126.60	576.9	-0.9	4.3	4.0	1.36	1.32	8.10
607.0	2.99	127.30	606.9	-1.8	5.4	5.4	1.80	1.80	2.33
638.0	3.60	126.30	637.9	-2.8	6.9	7.2	1.98	1.97	-3.23
669.0	4.02	128.72	668.8	-4.1	8.5	9.2	1.45	1.35	7.81
699.0	4.62	128.31	698.7	-5.5	10.3	11.5	2.00	2.00	-1.37
730.0	5.12	128.88	729.6	-7.2	12.3	14.1	1.62	1.61	1.84



**HATHAWAY BURNHAM**

**Survey Report**



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 8  
**Well:** R-8-9-17  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well R-8-9-17  
**TVD Reference:** R-8-9-17 @ 5353.0ft (NDSI #1)  
**MD Reference:** R-8-9-17 @ 5353.0ft (NDSI #1)  
**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)
760.0	5.76	130.15	759.5	-9.0	14.5	17.0	2.17	2.13	4.23
791.0	6.48	130.20	790.3	-11.1	17.0	20.3	2.32	2.32	0.16
822.0	6.93	132.19	821.1	-13.5	19.8	23.9	1.63	1.45	6.42
852.0	7.10	131.45	850.8	-15.9	22.5	27.5	0.64	0.57	-2.47
883.0	7.40	130.44	881.6	-18.5	25.4	31.4	1.05	0.97	-3.26
915.0	8.06	129.69	913.3	-21.3	28.7	35.7	2.09	2.06	-2.34
947.0	8.60	129.82	945.0	-24.2	32.3	40.4	1.69	1.69	0.41
979.0	9.21	130.24	976.6	-27.4	36.1	45.3	1.92	1.91	1.31
1,010.0	9.60	131.01	1,007.2	-30.7	39.9	50.4	1.32	1.26	2.48
1,042.0	10.22	132.00	1,038.7	-34.4	44.1	55.9	2.01	1.94	3.09
1,137.0	10.70	130.17	1,132.1	-45.7	57.1	73.1	0.61	0.51	-1.93
1,232.0	10.51	121.61	1,225.5	-55.9	71.2	90.5	1.67	-0.20	-9.01
1,327.0	10.66	125.05	1,318.9	-65.5	85.8	107.9	0.68	0.16	3.62
1,422.0	10.48	125.38	1,412.3	-75.6	100.0	125.3	0.20	-0.19	0.35
1,517.0	10.16	124.11	1,505.7	-85.3	114.0	142.3	0.41	-0.34	-1.34
1,612.0	9.71	124.84	1,599.3	-94.5	127.5	158.7	0.49	-0.47	0.77
1,707.0	10.75	128.06	1,692.8	-104.6	141.0	175.5	1.25	1.09	3.39
1,802.0	9.80	127.27	1,786.3	-114.9	154.4	192.5	1.01	-1.00	-0.83
1,897.0	9.67	128.86	1,879.9	-124.8	167.1	208.5	0.31	-0.14	1.67
1,992.0	9.67	127.96	1,973.6	-134.7	179.6	224.5	0.16	0.00	-0.95
2,087.0	9.98	129.41	2,067.2	-144.9	192.2	240.7	0.42	0.33	1.53
2,182.0	10.55	126.79	2,160.6	-155.3	205.6	257.6	0.78	0.60	-2.76
2,277.0	11.40	129.41	2,253.9	-166.5	219.8	275.7	1.04	0.89	2.76
2,373.0	11.95	128.79	2,347.9	-178.7	234.9	295.1	0.59	0.57	-0.65
2,468.0	12.28	127.80	2,440.8	-191.1	250.5	315.1	0.41	0.35	-1.04
2,563.0	11.30	124.14	2,533.8	-202.5	266.2	334.5	1.30	-1.03	-3.85
2,658.0	12.44	128.02	2,626.8	-214.0	282.0	354.0	1.46	1.20	4.08
2,753.0	12.55	127.78	2,719.5	-226.7	298.2	374.5	0.13	0.12	-0.25
2,848.0	12.48	123.34	2,812.3	-238.6	314.9	395.1	1.02	-0.07	-4.67
2,943.0	12.11	127.14	2,905.1	-250.3	331.4	415.3	0.94	-0.39	4.00
3,038.0	11.51	129.38	2,998.1	-262.3	346.7	434.7	0.79	-0.63	2.36
3,133.0	13.03	128.35	3,090.9	-275.0	362.4	454.9	1.62	1.60	-1.08
3,228.0	12.79	125.67	3,183.5	-287.7	379.4	476.1	0.68	-0.25	-2.82
3,324.0	12.83	124.48	3,277.1	-300.0	396.8	497.4	0.28	0.04	-1.24
3,418.0	12.24	127.58	3,368.9	-312.0	413.3	517.8	0.95	-0.63	3.30
3,514.0	12.33	124.46	3,462.7	-324.0	429.8	538.2	0.70	0.09	-3.25
3,609.0	11.76	130.83	3,555.6	-336.0	445.5	558.0	1.52	-0.60	6.71
3,704.0	10.65	130.59	3,648.8	-348.1	459.5	576.4	1.17	-1.17	-0.25
3,799.0	12.28	134.22	3,741.9	-360.8	473.4	595.2	1.88	1.72	3.82
3,894.0	11.80	131.34	3,834.8	-374.3	487.9	615.0	0.81	-0.51	-3.03
3,989.0	11.62	130.18	3,927.8	-386.9	502.5	634.2	0.31	-0.19	-1.22
4,084.0	10.73	127.05	4,021.0	-398.4	516.9	652.6	1.13	-0.94	-3.29
4,178.0	11.16	128.31	4,113.3	-409.3	531.0	670.5	0.52	0.46	1.34
4,273.0	9.89	123.82	4,206.7	-419.5	545.0	687.8	1.59	-1.34	-4.73
4,368.0	10.20	124.94	4,300.2	-428.9	558.7	704.3	0.39	0.33	1.18
4,463.0	11.12	130.77	4,393.6	-439.7	572.5	721.9	1.49	0.97	6.14
4,558.0	11.73	129.76	4,486.7	-451.9	586.9	740.7	0.68	0.64	-1.06
4,653.0	11.34	129.91	4,579.8	-464.0	601.5	759.7	0.41	-0.41	0.16
4,748.0	11.32	129.47	4,672.9	-475.9	615.8	778.3	0.09	-0.02	-0.46
4,843.0	11.69	128.00	4,766.0	-487.8	630.6	797.3	0.50	0.39	-1.55
4,938.0	11.16	127.89	4,859.2	-499.4	645.5	816.1	0.56	-0.56	-0.12
5,032.0	10.53	127.22	4,951.5	-510.2	659.5	833.8	0.68	-0.67	-0.71
5,127.0	10.42	129.52	5,044.9	-520.9	673.0	851.0	0.46	-0.12	2.42
5,222.0	11.29	130.06	5,138.2	-532.3	686.8	868.9	0.92	0.92	0.57



# HATHAWAY BURNHAM

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 8  
**Well:** R-8-9-17  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well R-8-9-17  
**TVD Reference:** R-8-9-17 @ 5353.0ft (NDSI #1)  
**MD Reference:** R-8-9-17 @ 5353.0ft (NDSI #1)  
**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)	
5,282.7	10.91	128.85	5,197.7	-539.7	695.8	880.6	0.73	-0.62	-1.99	
<b>R-8-9-17 TGT</b>										
5,317.0	10.70	128.13	5,231.5	-543.8	700.8	887.0	0.73	-0.62	-2.10	
5,412.0	11.65	125.36	5,324.6	-554.7	715.6	905.4	1.15	1.00	-2.92	
5,507.0	10.62	126.70	5,417.9	-565.5	730.4	923.8	1.12	-1.08	1.41	
5,602.0	10.96	129.03	5,511.2	-576.4	744.5	941.5	0.58	0.36	2.45	
5,698.0	9.87	128.55	5,605.6	-587.3	758.0	958.9	1.14	-1.14	-0.50	
5,792.0	8.59	128.81	5,698.4	-596.7	769.8	974.0	1.36	-1.36	0.28	
5,887.0	7.54	128.53	5,792.4	-605.1	780.2	987.3	1.11	-1.11	-0.29	
5,935.0	6.94	128.38	5,840.1	-608.8	784.9	993.3	1.25	-1.25	-0.31	
5,990.0	6.94	128.38	5,894.7	-613.0	790.1	1,000.0	0.00	0.00	0.00	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

```

H   HEADER      INFORMATION -----
H   COMPANY    :      NEWFIELD  EXPLORATION
H   FIELD      :      USGS      Myton   SW      (UT)
H   SITE       :      SECTION   8
H   WELL       :      R-8-9-17
H   WELLPATH:  Wellbore  #1
H   DEPTHUNT:  ft
H   SURVDATE:   3/24/2009
H   DECLINATION CORR.
H   =          10.67 TO      GRIDH-----

```

```

H   WELL      INFORMATION
H   WELL      EW      MAP      :      2051102
H   WELL      NS      MAP      :      7187841
H   DATUM     ELEVN   :      5353
H   VSECT     ANGLE   :      127.8
H   VSECT     NORTH   :      0
H   VSECT     EAST    :      0

```

```

H-----
H   SURVEY    TYPE      INFORMATION
H           393 -      5990 SURVEY #1      :      MWD
H-----

```

H	SURVEY	LIST						
MD	INC	AZI	TVD	NS	EW	VS	DLS	
	0	0	0	0	0	0	0	0
	393	0.41	60.26	393	0.7	1.22	0.54	0.1
	424	0.3	63	424	0.79	1.39	0.61	0.36
	454	0.51	103.4	454	0.79	1.59	0.77	1.14
	485	0.92	109.4	484.99	0.68	1.96	1.13	1.34
	515	1.57	127.8	514.99	0.35	2.51	1.77	2.52
	546	2.04	124.09	545.97	-0.22	3.3	2.75	1.56
	577	2.45	126.6	576.95	-0.93	4.29	3.96	1.36
	607	2.99	127.3	606.91	-1.78	5.43	5.38	1.8
	638	3.6	126.3	637.86	-2.85	6.86	7.16	1.98
	669	4.02	128.72	668.79	-4.1	8.49	9.22	1.45
	699	4.62	128.31	698.71	-5.51	10.26	11.48	2
	730	5.12	128.88	729.6	-7.15	12.31	14.11	1.62
	760	5.76	130.15	759.46	-8.96	14.51	16.96	2.17
	791	6.48	130.2	790.28	-11.1	17.03	20.26	2.32
	822	6.93	132.19	821.07	-13.48	19.75	23.87	1.63
	852	7.1	131.45	850.85	-15.92	22.48	27.53	0.64
	883	7.4	130.44	881.6	-18.49	25.44	31.43	1.05
	915	8.06	129.69	913.31	-21.26	28.73	35.73	2.09
	947	8.6	129.82	944.97	-24.22	32.3	40.37	1.69
	979	9.21	130.24	976.58	-27.41	36.09	45.32	1.92
	1010	9.6	131.01	1007.17	-30.71	39.93	50.38	1.32
	1042	10.22	132	1038.69	-34.36	44.06	55.87	2.01
	1137	10.7	130.17	1132.11	-45.69	57.06	73.09	0.61

1232	10.51	121.61	1225.49	-55.92	71.18	90.51	1.67
1327	10.66	125.05	1318.88	-65.5	85.75	107.9	0.68
1422	10.48	125.38	1412.27	-75.55	99.99	125.31	0.2
1517	10.16	124.11	1505.73	-85.25	113.97	142.31	0.41
1612	9.71	124.84	1599.3	-94.53	127.48	158.67	0.49
1707	10.75	128.06	1692.79	-104.57	141.04	175.53	1.25
1802	9.8	127.27	1786.27	-114.93	154.45	192.48	1.01
1897	9.67	128.86	1879.9	-124.83	167.09	208.54	0.31
1992	9.67	127.96	1973.55	-134.74	179.6	224.49	0.16
2087	9.98	129.41	2067.16	-144.88	192.25	240.7	0.42
2182	10.55	126.79	2160.64	-155.31	205.57	257.63	0.78
2277	11.4	129.41	2253.9	-166.48	219.79	275.71	1.04
2373	11.95	128.79	2347.91	-178.73	234.87	295.13	0.59
2468	12.28	127.8	2440.8	-191.08	250.52	315.06	0.41
2563	11.3	124.14	2533.79	-202.5	266.2	334.46	1.3
2658	12.44	128.02	2626.76	-214.03	281.97	353.98	1.46
2753	12.55	127.78	2719.51	-226.65	298.19	374.53	0.13
2848	12.48	123.34	2812.26	-238.62	314.92	395.09	1.02
2943	12.11	127.14	2905.08	-250.28	331.44	415.29	0.94
3038	11.51	129.38	2998.07	-262.31	346.71	434.72	0.79
3133	13.03	128.35	3090.9	-274.97	362.44	454.91	1.62
3228	12.79	125.67	3183.5	-287.74	379.38	476.13	0.68
3324	12.83	124.48	3277.11	-299.97	396.8	497.39	0.28
3418	12.24	127.58	3368.87	-311.96	413.3	517.77	0.95
3514	12.33	124.46	3462.67	-323.96	429.81	538.18	0.7
3609	11.76	130.83	3555.58	-336.03	445.5	557.97	1.52
3704	10.65	130.59	3648.77	-348.08	459.49	576.41	1.17
3799	12.28	134.22	3741.87	-360.83	473.4	595.22	1.88
3894	11.8	131.34	3834.78	-374.3	487.94	614.95	0.81
3989	11.62	130.18	3927.81	-386.88	502.54	634.21	0.31
4084	10.73	127.05	4021	-398.39	516.91	652.61	1.13
4178	11.16	128.31	4113.29	-409.3	531.03	670.46	0.52
4273	9.89	123.82	4206.7	-419.54	545.02	687.79	1.59
4368	10.2	124.94	4300.24	-428.9	558.7	704.33	0.39
4463	11.12	130.77	4393.6	-439.7	572.53	721.88	1.49
4558	11.73	129.76	4486.72	-451.86	586.89	740.68	0.68
4653	11.34	129.91	4579.8	-464.02	601.48	759.67	0.41
4748	11.32	129.47	4672.95	-475.94	615.84	778.32	0.09
4843	11.69	128	4766.04	-487.8	630.62	797.26	0.5
4938	11.16	127.89	4859.16	-499.37	645.46	816.08	0.56
5032	10.53	127.22	4951.48	-510.15	659.48	833.77	0.68
5127	10.42	129.52	5044.89	-520.87	673.02	851.03	0.46
5222	11.29	130.06	5138.19	-532.32	686.77	868.91	0.92
5317	10.7	128.13	5231.45	-543.75	700.82	887.02	0.73
5412	11.65	125.36	5324.65	-554.75	715.58	905.43	1.15
5507	10.62	126.7	5417.86	-565.53	730.42	923.76	1.12
5602	10.96	129.03	5511.18	-576.45	744.46	941.54	0.58

5698	9.87	128.55	5605.6	-587.32	757.98	958.9	1.14
5792	8.59	128.81	5698.38	-596.74	769.75	973.97	1.36
5887	7.54	128.53	5792.44	-605.07	780.16	987.3	1.11
5935	6.94	128.38	5840.05	-608.84	784.89	993.35	1.25
5990	6.94	128.38	5894.65	-612.96	790.1	999.99	0