

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

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>		5. MINERAL LEASE NO: ML-49170	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA	
B. TYPE OF WELL: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. UNIT or CA AGREEMENT NAME: NA	
2. NAME OF OPERATOR: Delta Petroleum Corporation		9. WELL NAME and NUMBER: Greentown State #36-31S	
3. ADDRESS OF OPERATOR: 370 17th St, Suite 4300 CITY Denver STATE CO ZIP 80021		PHONE NUMBER: (303) 575-0323	10. FIELD AND POOL, OR WILDCAT: Wildcat
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 535' FNL & 1814' FEL AT PROPOSED PRODUCING ZONE: Same as surface		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 36 21S 16E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 5 miles South and East of Green River, Utah		12. COUNTY: Grand	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 535'	16. NUMBER OF ACRES IN LEASE: 640	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) NA	19. PROPOSED DEPTH: 3,800	20. BOND DESCRIPTION: CPCS-215808	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): GR - 4274'	22. APPROXIMATE DATE WORK WILL START: 2/15/2007	23. ESTIMATED DURATION: 35 days	

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
11"	8-5/8" J-55 STC 24#	1,700	Lead - 85/15/8	215 sxs	2.14	12.5#
			Tail - Type III	270 sxs	1.41	14.6#
7-7/8"	5-1/2" J-55 LTC 17#	3,800	Lead - 85/15/8	340 sxs	2.14	12.5#
			Tail - Type III	225 sxs	1.41	14.6#

25. **ATTACHMENTS**

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

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

NAME (PLEASE PRINT) Terry L. Hoffman TITLE Regulatory Manager  
SIGNATURE *Terry L. Hoffman* DATE 1/17/2007

(This space for State use only)

API NUMBER ASSIGNED: 43-019-31524

Approved by the  
Utah Division of  
Oil, Gas and Mining

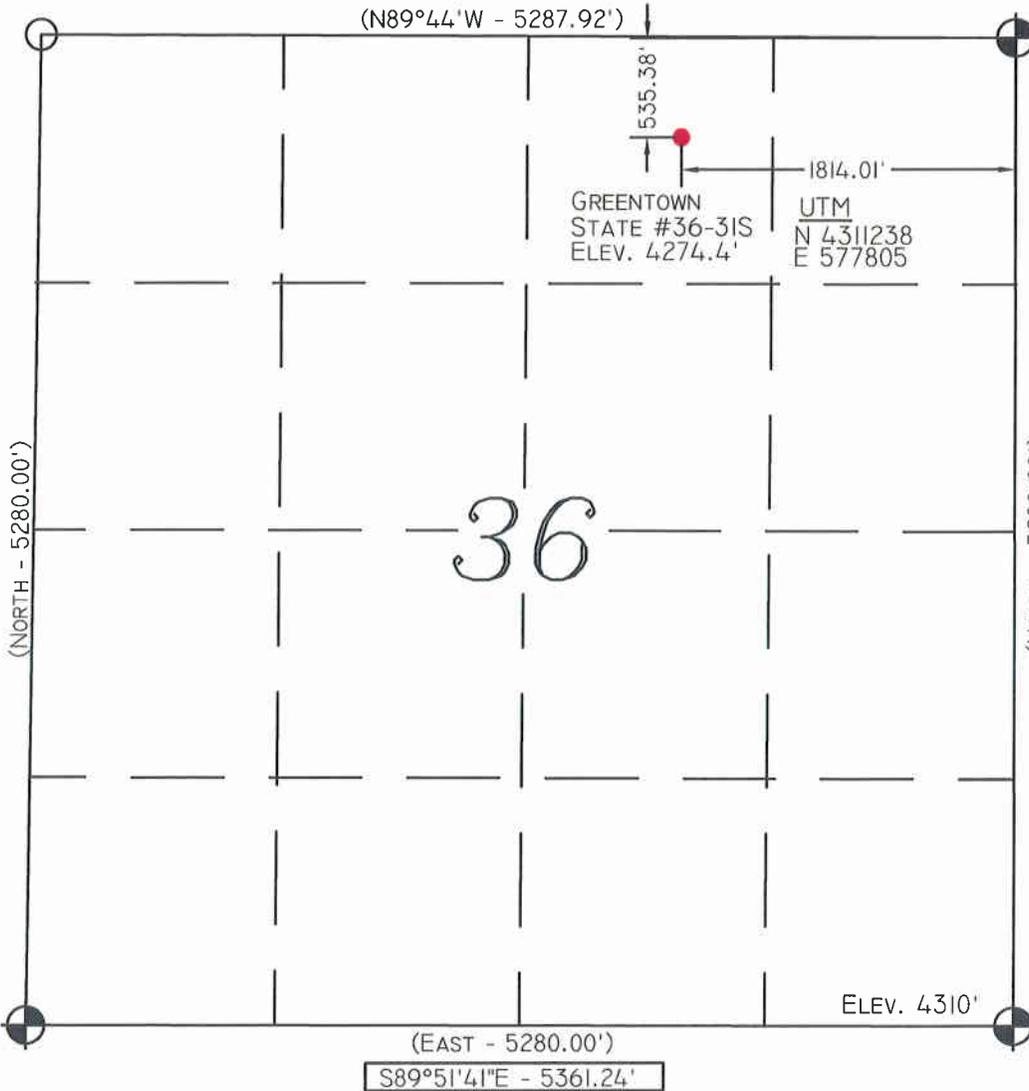
APPROVAL:

Date: 07-12-07  
(See Instructions on Reverse Side)  
By: *[Signature]*

RECEIVED  
JAN 22 2007  
DIV. OF OIL, GAS & MINING

# Range 16 East

Township 21 South



**Location:**  
The well location was determined using a Trimble 5700 GPS survey grade unit.

**Basis of Bearing:**  
The Basis of Bearing is GPS Measured.

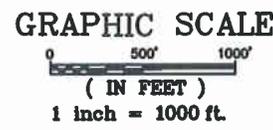
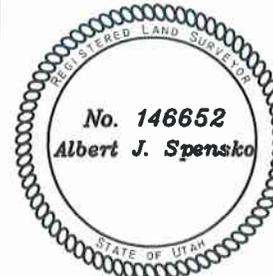
**GLO Bearing:**  
The Bearings indicated are per the recorded plat obtained from the U.S. Land Office.

**Basis of Elevation:**  
Basis of Elevation of 4310' being at the Southeast Section Corner of Section 36, Township 21 South, Range 16 East, Salt Lake Base and Meridian, as shown on the Green River NE Quadrangle 7.5 minute series map.

**Description of Location:**  
Proposed Drill Hole located in the NW/4 NE/4 of Section 36, T21S, R16E, S.L.B.&M., being 535.38' South and 1814.01' West from the Northeast Section Corner of Section 36, T21S, R16E, Salt Lake Base & Meridian.

**Surveyor's Certificate:**

I, Albert J. Spensko, a Registered Professional Land Surveyor, holding Certificate 146652 State of Utah, do hereby certify that the information on this drawing is a true and accurate survey based on data of record and was conducted under my personal direction and supervision as shown hereon.



- Legend**
- Drill Hole Location
  - Stone Monument (Found)
  - Stone Monument (Searched for, but not found)
  - Calculated Corner
  - ( ) GLO
  - GPS Measured

**NOTES:**  
1. UTM and Latitude / Longitude Coordinates are derived using a GPS Pathfinder and are shown in NAD 27 Datum.

LAT / LONG
38°56'54.633"N
110°06'07.756"W



**TALON RESOURCES, INC.**  
195 North 100 West P.O. Box 1230  
Huntington, Utah 84528  
Phone (435)687-5310 Fax (435)687-5311  
E-Mail talon @ etv.net



**Greentown State #36-31S**  
**Section 36, T21S, R16E, S.L.B.&M.**  
**Grand County, Utah**

Drawn By: <b>N. BUTKOVICH</b>	Checked By: <b>L.W.J./A.J.S.</b>
Drawing No. <b>A-1</b>	Date: <b>1/8/07</b>
	Scale: <b>1" = 1000'</b>
Sheet <b>1</b> of <b>4</b>	Job No. <b>2697</b>

**EXHIBIT "D"**  
**DRILLING PROGRAM**

**TIGHT HOLE STATUS**

Attached to UDOGM Form 3  
Delta Petroleum Corporation  
**Greentown State #36-31S**  
NW/4 NE/4, Sec. 36, T21S, R16E, SLB & M  
535' FNL, 1814' FEL  
Grand County, Utah

1. The Geologic Surface Formation

	<u>TVD</u>	<u>Subsea</u>
Morrison-Salt Wash	0'	4296'

2. Estimated Tops of Important Geologic Markers

	<u>TVD</u>	<u>Subsea</u>
Morrison-Salt Wash	0'	4296' (KB)
Entrada	561'	3735'
Carmel	1113'	3183'
Navajo	1278'	3018'
Kayenta	1714'	2582'
Wingate	1751'	2545'
Chinle	2214'	2082'
Shinarump	2396'	1900'
Moenkopi	2442'	1854'
Sinbad Is.	3037'	1259'
White Rim	3254'	1042'
Total Depth	3800'	496'

3. Projected Gas & Water Zones

		<u>TVD</u>	<u>Subsea</u>
Morrison-Salt Wash	Water/Gas	0'	4296'
Entrada	Water	561'	3735'
Navajo	Water	1278'	3018'
Wingate	Water	1751'	2545'
White Rim	Oil/Wtr	3254'	1042'

No Groundwater is anticipated to be encountered. Water encountered will be reported on a Form 7 "Report of Water Encountered during Drilling".

Casing & cementing will be done to protect all fresh water zones, potentially productive hydrocarbons, lost circulation zones, abnormal pressure zones, and prospectively valuable mineral deposits.

All indications of usable water will be reported.

Surface casing will be tested to 1500 psi for 15 minutes. Pressure drop is not to exceed 150 psi.

#### 4) The Proposed Casing and Cementing Programs

##### Casing Program

Hole Size	Setting Depth	Size (OD)	Weight, Grade & Joint	Condition
11"	1700'	8-5/8"	24#, J-55 ST&C	New
7-7/8"	3800'	5-1/2"	17#, J-55 LT&C	New

##### Cement Program

###### Surface Casing:

Lead: 215 sxs 85/15/8  
 Weight: 12.5 #/gal  
 Yield: 2.14 cu.ft/sk  
 Cmt Top 0'

Tail: 270 sxs Type III  
 Weight: 14.6 #/gal  
 Yield: 1.41 cu.ft/sk  
 Cmt Top 900'

###### Production Casing:

Lead: 340 sxs 85/15/8  
 Weight: 12.5 #/gal  
 Yield: 2.14 cu.ft/sk  
 Cmt Top 0'

Tail: 225 sxs Type III  
 Weight: 14.6 #/gal  
 Yield: 1.41 cu.ft/sk  
 Cmt Top 2800'

The following shall be entered in the driller's log:

- 1) Blowout preventer pressure tests, including test pressures and results;
- 2) Blowout preventer tests for proper functioning;
- 3) Blowout prevention drills conducted;
- 4) Casing run, including size, grade, weight, and depth set;
- 5) How the pipe was cemented, including amount of cement, type, whether cement circulated, location of the cementing tools, etc.;
- 6) Waiting on cement time for each casing string;
- 7) Casing pressure tests after cementing, including test pressures and results.

5. The Operator's Minimum Specifications for Pressure Control

While drilling the Greentown Sate 36-11, located in the NWNW of section 36, T21S R16E, up to a depth of 6,011 feet normal pressure gradients were seen (mud weight of 10.2 ppg or 0.53 psi/ft). At 6,011 feet, a clastic break was drill which required mud weights up to 12.5 ppg (0.65 psi/ft) to control permeable gas.

While drilling the Greentown State 32-42, located in the SENE of section 32, T22S R17E, up to a depth of 5,600 feet, normal pressure gradients were seen (mud weight of 10.2 ppg or 0.53 psi/ft). After 5,600 feet, a clastic break was drilled which required mud weights up to 11.2 ppg (0.58 psi/ft) to control permeable gas. Another clastic break was drilled at 7,710 feet which required mud weights of 12.7 ppg (0.66 psi/ft). A clastic break was again drilled at 8,552 feet which required mud weights of 13.4 ppg (0.70 psi/ft).

As a result of the knowledge and experience gained from the drilling of these two state wells, Delta has changed well construction plans for this well. The drilling plan now reflects and are based on maximum mud weight of 13.5 ppg. This will require pressure equipment which will be rated and tested to 5,000 psi.

Exhibit "G" is a schematic diagram of the blowout preventer equipment. An 11" 5,000 psi Double gate Hydraulic BOP with one (1) blind ram and one (1) pipe ram and Annular Preventer; equipped with a 5,000 psi manual choke manifold. The BOP will be tested and charted using a BOP tester and test plug to 5,000 psi for 10 minutes. The Annular Preventer will be tested to 2,500 psi for 10 minutes. All text will be recorded in the Driller's log book. Pipe rams will be function tested daily, and blind rams tested on each trip.

6. The Type and Characteristics of the Proposed Circulating Muds

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Vis</u>	<u>Water Loss</u>
0-1700'	Wtr	+/-8.5	+/-28	NC
1700-3800'	LSND	+/-9.0	+/-44	+/-8

7. The Testing, Logging and Coring Programs are as followed

Testing - DST's are not planned

Logging - End of Surface casing – TD Platform Express plus sonic scanner

Coring - No coring is planned for this location

Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well. Bottom hole pressure expected is 4800 psi max. No hydrogen sulfide or other hazardous gases or fluids have been found, reported or are known to exist at these depths in the area.

8. Anticipated Starting Date and Duration of the Operations.

The well will be drilled in approximately February 15, 2007, (as soon as permit is approved).

Verbal and/or written notifications listed below shall be submitted in accordance with instructions from the Division of Oil, Gas & Mining:

- (a) prior to beginning construction;
- (b) prior to spudding;
- (c) prior to running any casing or BOP tests;
- (d) prior to plugging the well, for verbal plugging instructions.

Spills, blowouts, fires, leaks, accidents or other unusual occurrences shall be reported to the Division of Oil, Gas & Mining immediately.

EXHIBIT "E"  
Multipoint Surface Use Plan

Attached to UDOGM Form 3  
Delta Petroleum Corporation  
**Greentown State #36-31S**  
NW/4 NE/4, Sec. 36, T21S, R16E, SLB & M  
535' FNL, 1814' FEL  
Grand County, Utah

**1. Existing Roads**

- a. The proposed existing access road is the same access as the Greentown State 36-11 and has been constructed consistent with the State of Utah and Delta Petroleum Corporation. Approximately 11,200' (2.1 miles) of Grande County Class D road has been upgraded, and a right-of way with the BLM is in place. This road intersects a Grand County Class B road and a county encroachment permit is in place.
- b. The existing road has been repaired where previous storm events have eliminated culverts and road.
- c. Existing roads will be maintained in the same or better condition. See Drawing L-1

**2. Planned Access**

Approximately 2000' (.37 miles) of two track road will be upgraded and approximately 1200' (.23 miles) of new access will be constructed (See Drawing L-1) Access is determined by acquired Right of way by the surface owner.

- a. Maximum Width: 24' (Exhibit F)
- b. Maximum grade: 10 %
- c. Turnouts: None
- d. Drainage design: 4 – 18" culverts may be required along the new portion of the road. Water will be diverted around the road as necessary and practical.
- e. If the well is productive, the road will be surfaced and maintained as necessary to prevent soil erosion and accommodate year-round traffic.
- f. Existing trees will be left in place where practical to provide screening and buffer areas.

### **3. Location of Existing Wells**

- a. See Drawing L-1.

### **4. Location of Existing and/or Proposed Facilities**

- a. If the well is a producer, installation of production facilities will follow.
- b. Rehabilitation of all pad areas not used for production facilities will be made in accordance with landowner stipulations.

### **5. Location and Type of Water Supply**

- a. Water to be used for drilling will be obtained from Thompson City, Utah

### **6. Source of Construction Materials**

- a. Any necessary construction materials needed will be obtained locally from a private source and hauled to the location on existing roads.
- b. No construction or surfacing materials will be taken from Federal/Indian land.

### **7. Methods for handling waste disposal**

- a. The reserve pit on the pad will be used to accommodate the drilling of the well. The pit will be a minimum of one-half the total depth below the original ground surface on the lowest point within the pit. The pit may be lined with a synthetic liner. Three sides of the reserve pit will be fenced within 24 hours after completion of construction and the fourth side within 24 hours after drilling operations cease with four strands of barbed wire, or woven wire topped with barbed wire to a height of not less than four feet. The fence will be kept in good repair while the pit is drying.
- b. Following drilling, the liquid waste will be evaporated from the pit and the pit backfilled and returned to natural grade. No liquid hydrocarbons will be discharged to the reserve pit or location.
- c. In the event fluids are produced, any oil will be retained in tanks until sold and any water produced will be retained until its quality can be determined. The quality and quantity of the water will determine the method of disposal.
- d. Trash will be contained in a portable metal container and will be hauled from location periodically and disposed of at an approved disposal site. Chemical toilets will be placed on location and sewage will be disposed of at an appropriate disposal site.

## 8. Ancillary Facilities

- a. We anticipate no need for ancillary facilities with the exception of trailers, Portable toilets, and Garbage containers to be located on the drill site.

## 9. Well-site Layout

- a. Available topsoil has been removed from the location and stockpiled. Location of the rig, reserve and blooie pits, and drilling support equipment will be located as shown on Exhibit "C".
- b. A blooie pit will be located at a minimum of 100' from the drill hole. A line will be placed on the surface from the center hole to the blooie pit. The blooie pit will not be lined, but will be fenced on four sides to protect livestock/wildlife.
- c. Access to the well pad will be as shown on Drawing A-2 and L-1.
- d. Natural runoff will be diverted around the well pad.

## 10. Plans for Restoration of Surface

- a. All surface areas not required for producing operations will be graded to as near original condition as possible and contoured to maintain possible erosion to a minimum.
- b. Available topsoil will be stockpiled and will be evenly distributed over the disturbed areas and the area will be reseeded as prescribed by the landowner.
- c. Pits and any other area that would present a hazard to wildlife or livestock will be fenced off when the rig is released and removed.
- d. Any oil accumulation on the pit will be removed or overhead flagged as dictated by then existing conditions.
- e. Rehabilitation will commence following completion of the well. Rat and mouse holes will be filled immediately upon release of the drilling rig from the location. If the well-site is to be abandoned, all disturbed areas will be recontoured to the natural contour as is possible.

## 11. Surface Ownership

- a. The well-site and access road will be constructed on lands owned by the School and Institutional Trust Lands Administration, 675 East 500 South, Salt Lake City, Utah 84102-2818; 801-538-5100. The operator shall contact the landowner and the Division of Oil, Gas and Mining 48 hours prior to beginning construction activities.

## 12. Other Information:

- a. The primary surface use is industrial. The nearest dwelling is approximately 2 miles North. Nearest live water is in Green River, 1.2 miles West.
- b. If there is snow on the ground when construction begins, it will be removed before the soil is disturbed, and piled downhill from the topsoil stockpile location.
- c. The back-slope and fore-slope will be constructed no steeper than 3:1.
- d. All equipment and vehicles will be confined to the access road and well pad.
- e. A complete copy of the approved Application for Permit to Drill (APD) including conditions and stipulations shall be on the well-site during construction and drilling operations.

There will be no deviation from the proposed drilling and/or work over program without prior approval from the Division of Oil, Gas & Mining.

**13. Lessee's or Operator's Representative and Certification**

**Company Representative**

Terry L. Hoffman  
Regulatory Manager  
Delta Petroleum Corporation.  
370 17<sup>th</sup> Street, Suite 4300  
Denver, CO 80021  
1-303-575-0323

**Permitting Consultant**

Larry W. Johnson  
Talon Resources, Inc.  
195 North 100 West  
Huntington, UT. 84528  
1-435-687-5310

**Excavation Contractor**

Nielson Construction  
625 West 1300 North  
Huntington, UT 84528  
1-435-687-2494

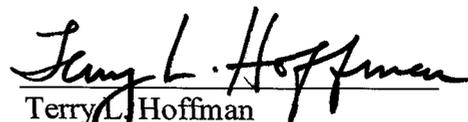
**Mail Approved A.P.D. To:**

Company Representative

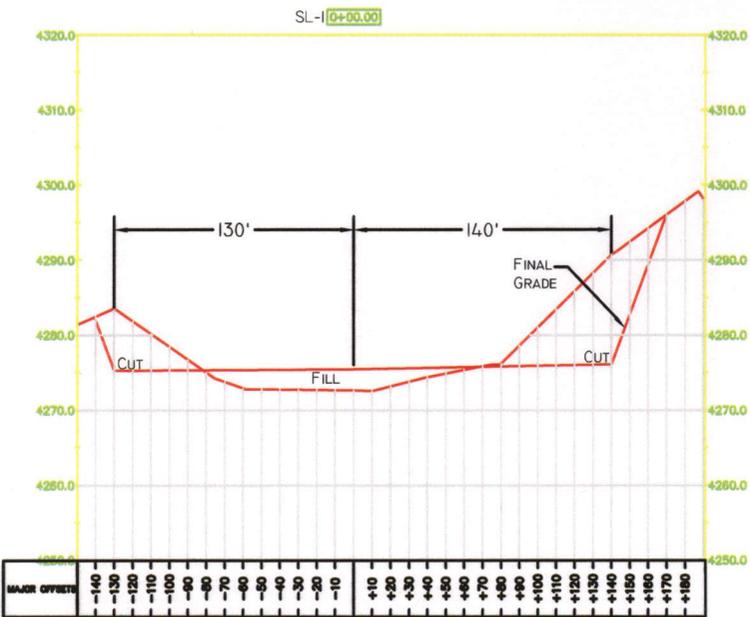
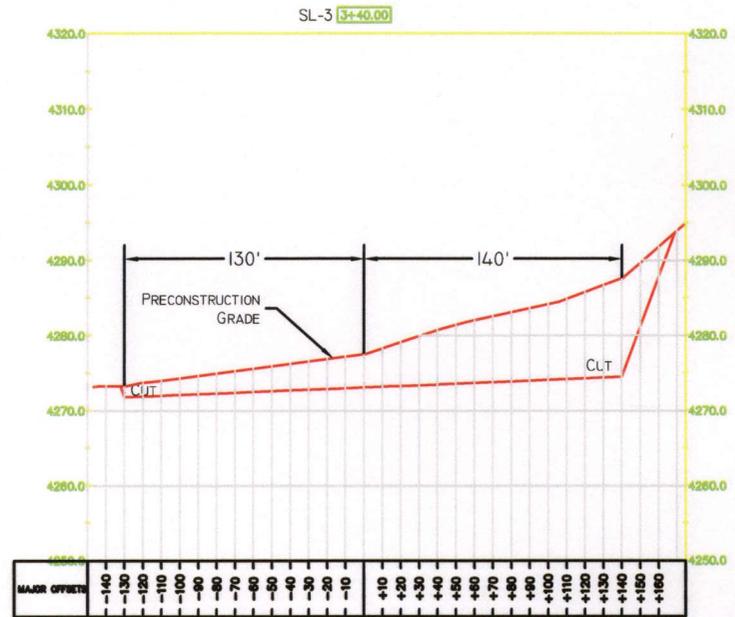
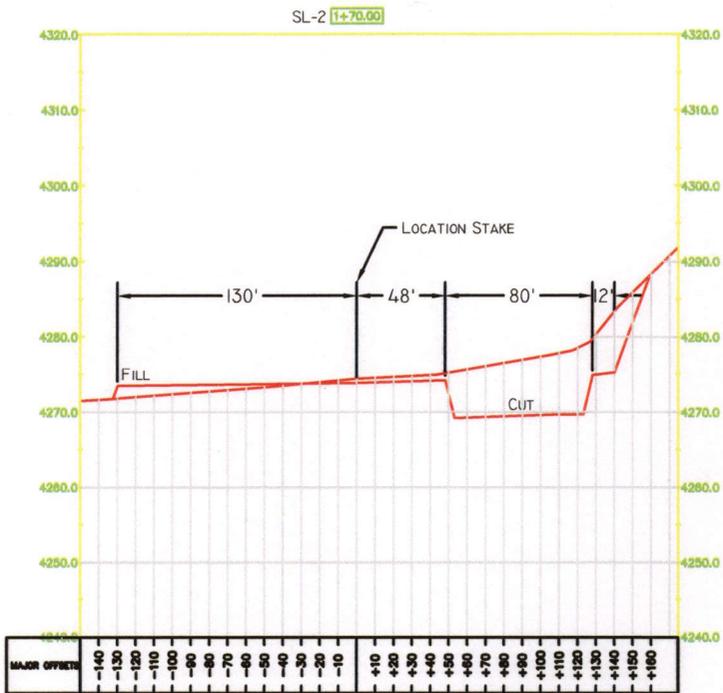
**14. Certification**

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed by Delta Petroleum Corporation and its subcontractors in conformity with this plan and the terms and conditions under which it is approved.

4/19/07  
Date

  
Terry L. Hoffman  
Regulatory Manager.

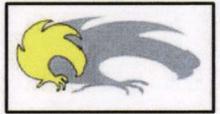




SLOPE = 1 1/2 : 1  
 (EXCEPT PIT)  
 PIT SLOPE = 1 ; 1

1" = 10'  
 X-Section  
 Scale  
 1" = 40'

APPROXIMATE YARDAGES  
 (6") TOPSOIL STRIPPING = 1,700 CU. YDS.  
 TOTAL CUT (INCLUDING PIT) = 16,525 CU. YDS.  
 TOTAL FILL = 1,645 CU. YDS.

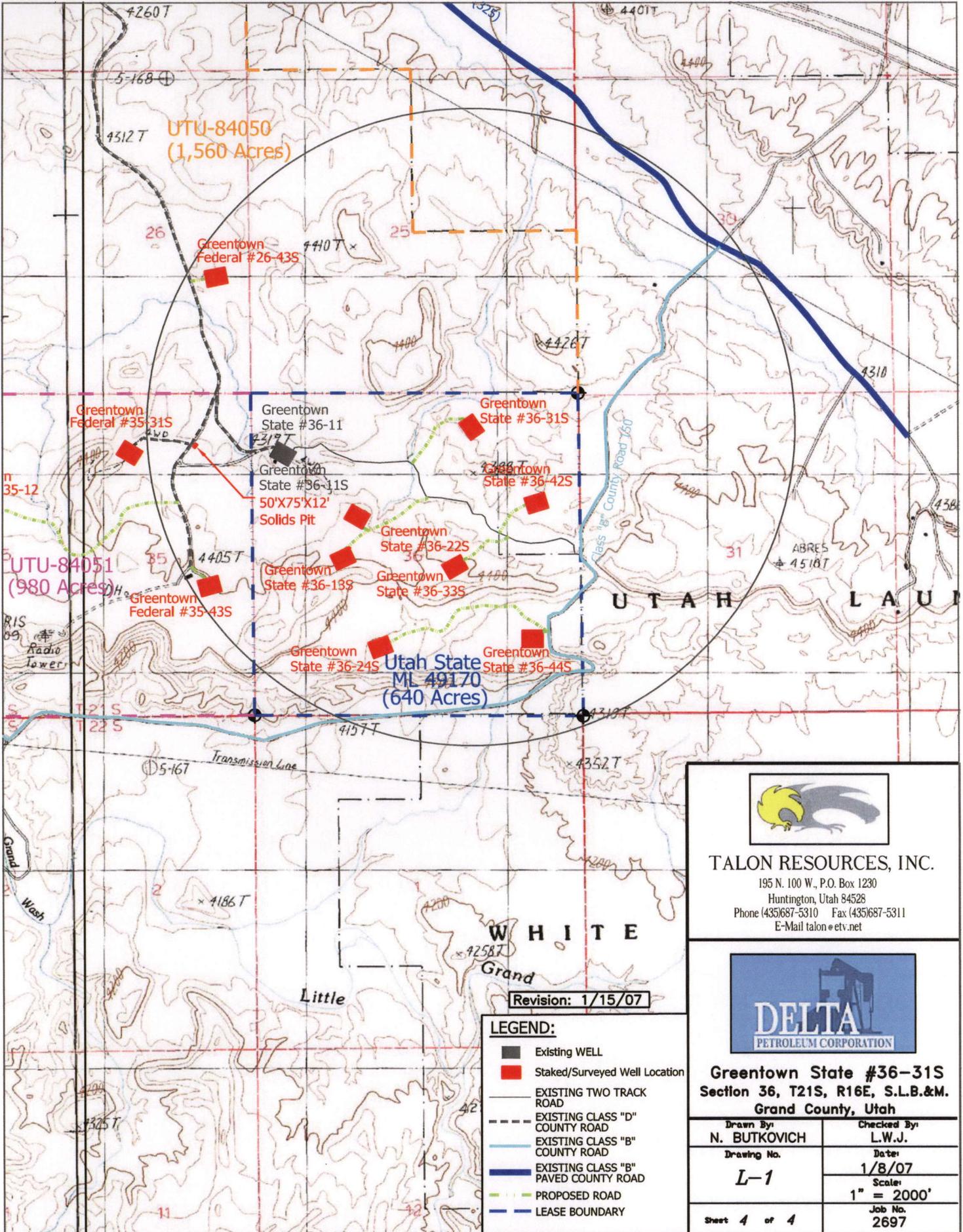


**TALON RESOURCES, INC.**  
 195 North 100 West P.O. Box 1230  
 Huntington, Utah 84528  
 Phone (435)687-5310 Fax (435)687-5311  
 E-Mail talon etv.net



**TYPICAL CROSS SECTION**  
**Section 36, T21S, R16E, S.L.B.&M.**  
**Greentown State #36-31S**

Drawn By: <b>N. BUTKOVICH</b>	Checked By: <b>L.W.J.</b>
Drawing No. <b>C-1</b>	Date: <b>1/7/07</b>
	Scale: <b>1" = 100'</b>
Sheet <b>3</b> of <b>4</b>	Job No. <b>2697</b>



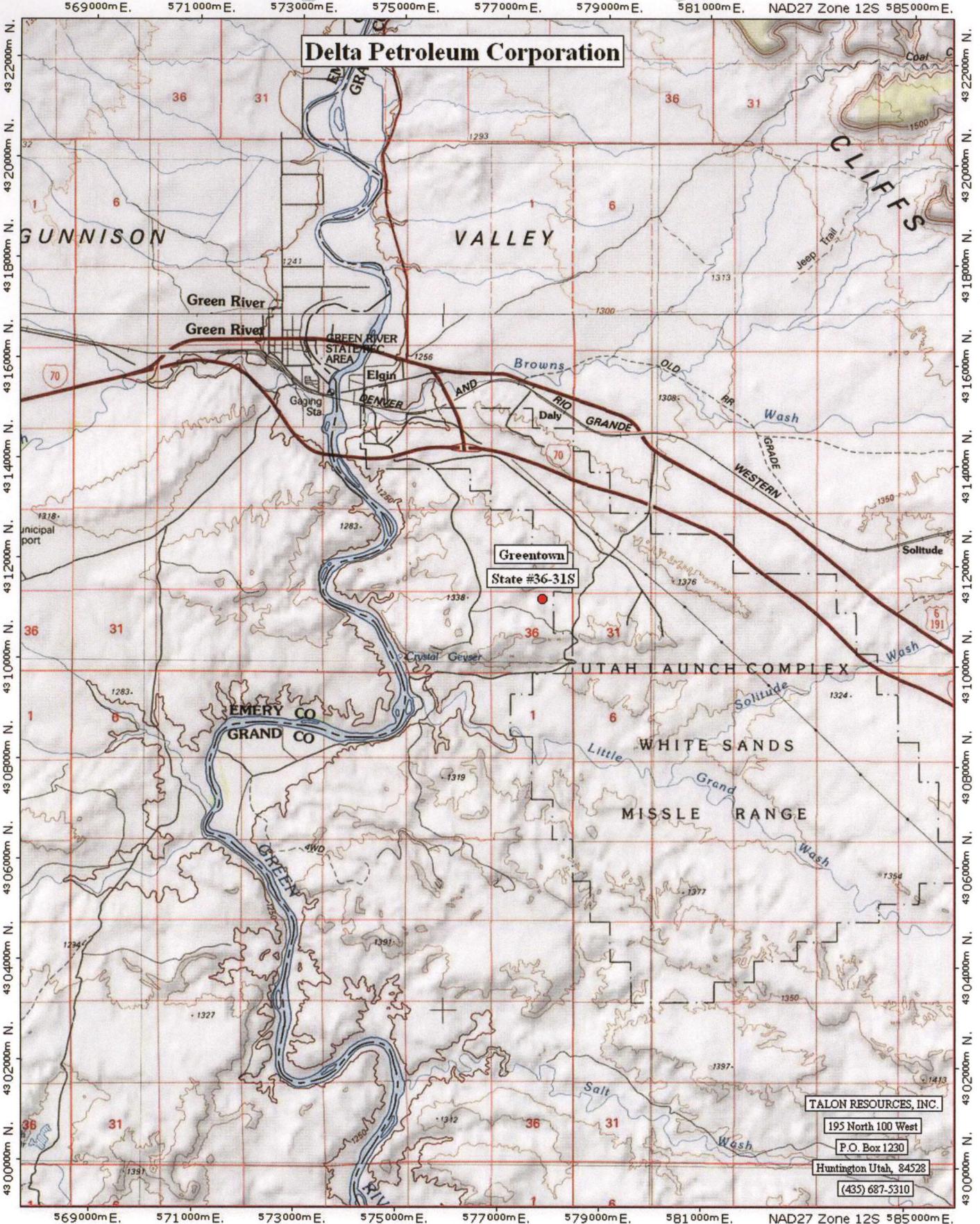
**TALON RESOURCES, INC.**

195 N. 100 W., P.O. Box 1230  
 Huntington, Utah 84528  
 Phone (435)687-5310 Fax (435)687-5311  
 E-Mail talon@etv.net

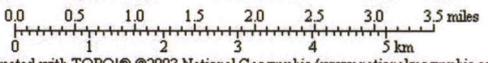


**Greentown State #36-31S**  
**Section 36, T21S, R16E, S.L.B.&M.**  
**Grand County, Utah**

Drawn By: <b>N. BUTKOVICH</b>	Checked By: <b>L.W.J.</b>
Drawing No. <b>L-1</b>	Date: <b>1/8/07</b>
	Scale: <b>1" = 2000'</b>
Sheet <b>4</b> of <b>4</b>	Job No. <b>2697</b>



TN  $\frac{1}{\text{MIN}}$   
 12°

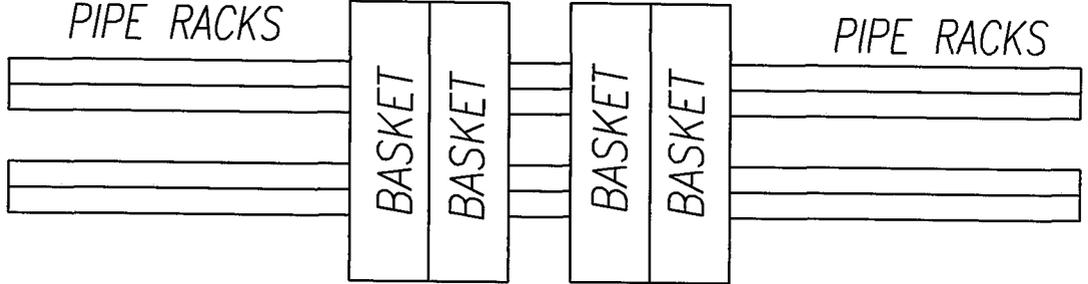


Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)

# Rig and Equipment Layout

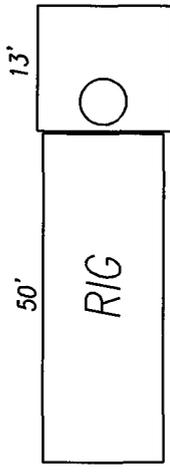


BLOOIE  
PIT



RESERVE PIT

MUD PIT



WATER TANK 10'  
40'

22'  
PUMP

PUMP

LIGHT PLANT

8' 4' 8'

DIESEL FUEL 26' PROPANE

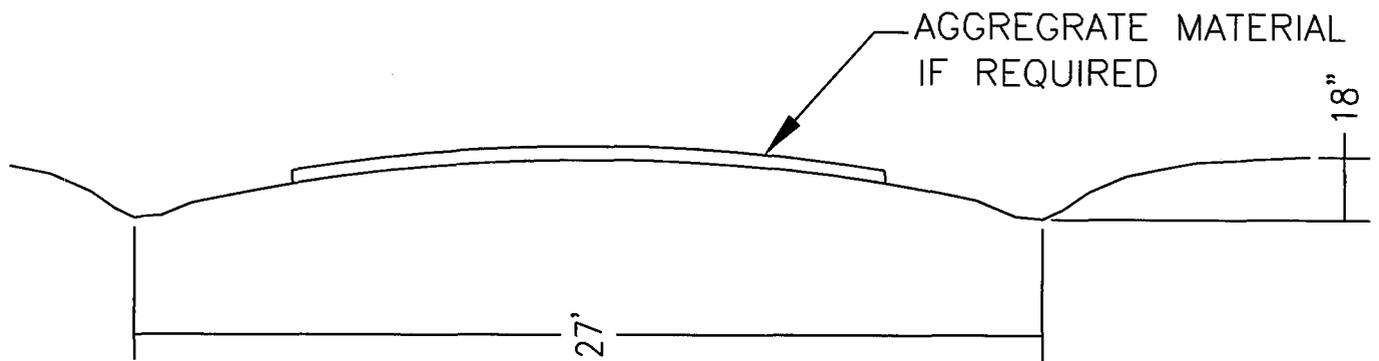
35'  
TRAILER 8'

AIR  
PACKAGE

APPROXIMATE LAYOUT OF RIG & EQUIPMENT  
(Not to Scale)



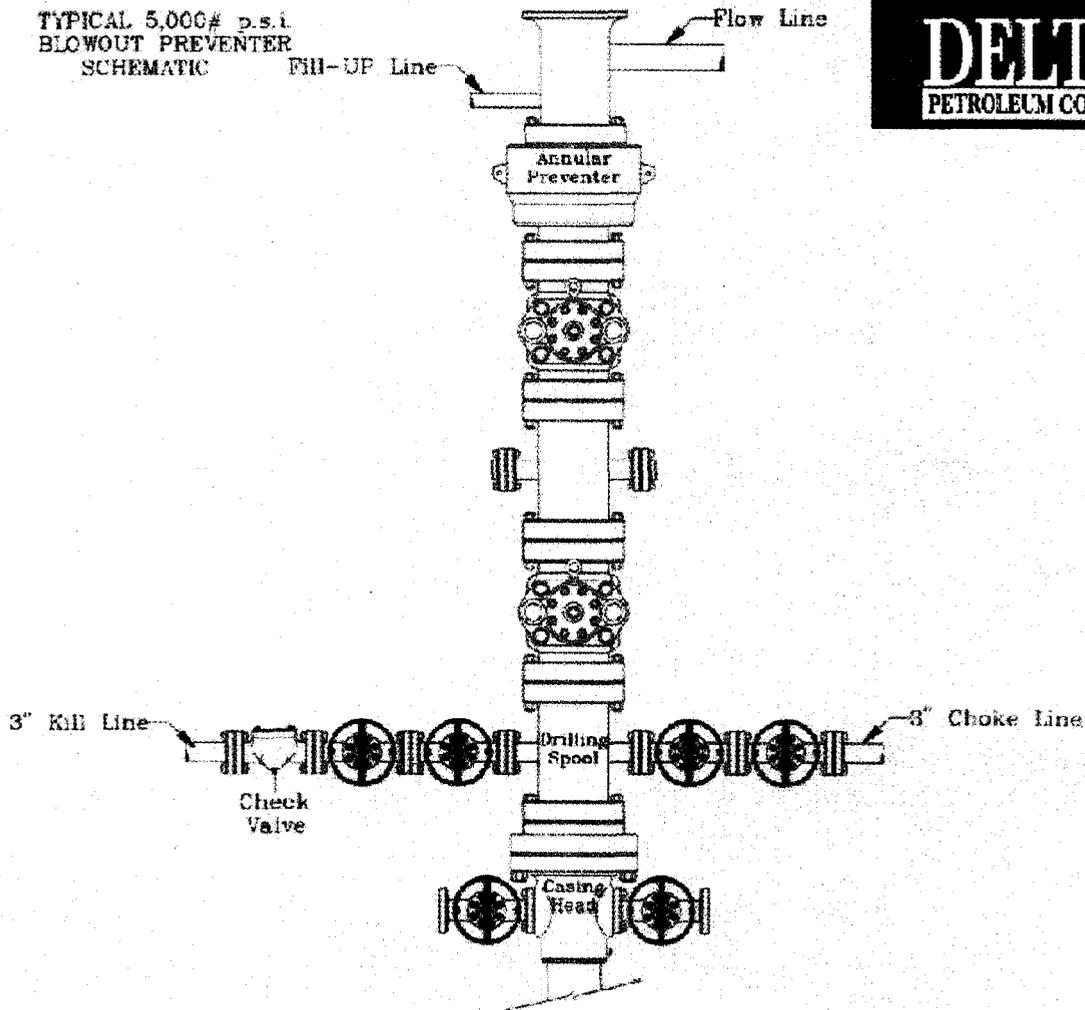
# Typical Road Cross-Section



5,000 psi  
BOP Equipment and Manifold



TYPICAL 5,000# p.s.i.  
BLOWOUT PREVENTER  
SCHEMATIC



TYPICAL 5,000# p.s.i.  
CHOKE MANIFOLD  
SCHEMATIC

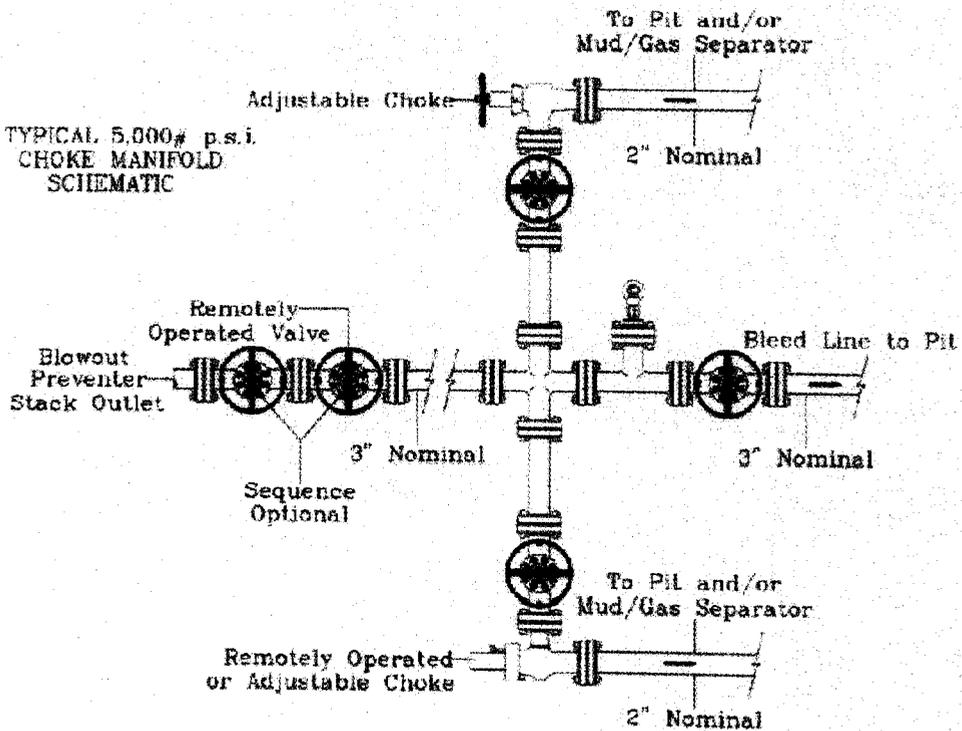


EXHIBIT "G"

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 01/22/2007

API NO. ASSIGNED: 43-019-31524

WELL NAME: GREENTOWN ST 36-31S  
 OPERATOR: DELTA PETROLEUM CORP ( N2925 )  
 CONTACT: TERRY HOFFMAN

PHONE NUMBER: 303-575-0323

PROPOSED LOCATION:

NWNE 36 210S 160E  
 SURFACE: 0535 FNL 1814 FEL  
 BOTTOM: 0535 FNL 1814 FEL  
 COUNTY: GRAND  
 LATITUDE: 38.94864 LONGITUDE: -110.1021  
 UTM SURF EASTINGS: 577806 NORTHINGS: 4311253  
 FIELD NAME: WILDCAT ( 1 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKD	3/29/07
Geology		
Surface		

LEASE TYPE: 3 - State  
 LEASE NUMBER: ML-49170  
 SURFACE OWNER: 3 - State

PROPOSED FORMATION: WHRM  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]  
(No. B003309 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. MUNICIPAL )
- RDCC Review 6/N  
(Date: 02/08/2007 )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: \_\_\_\_\_
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- R649-3-11. Directional Drill

COMMENTS: Needs Plat (02-07-07)

STIPULATIONS: 1- Spacing Str  
2- STATEMENT OF BASIS

S R16E

T21S R17E

26

25

30

35

MARLAND ◊  
OIL COMPANY 1

GREENTOWN ST 36-11S  
GREENTOWN ST 36-11

GREENTOWN  
ST 36-31S

GREENTOWN  
ST 36-22S

GREENTOWN  
ST 36-42S

GREENTOWN  
ST 36-13S

36

GREENTOWN  
ST 36-33S

31

GREENTOWN  
ST 36-24S

GREENTOWN  
ST 36-44S

OPERATOR: DELTA PETRO CORP (N2925)

SEC: 36 T.21S R. 16E

FIELD: WILDCAT (001)

COUNTY: GRAND

SPACING: R649-3-2 / GENERAL SITING

Wells Status

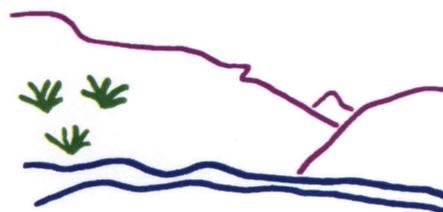
- ⊗ GAS INJECTION
- ⊗ GAS STORAGE
- ⊗ LOCATION ABANDONED
- ⊗ NEW LOCATION
- ⊗ PLUGGED & ABANDONED
- ⊗ PRODUCING GAS
- ⊗ PRODUCING OIL
- ⊗ SHUT-IN GAS
- ⊗ SHUT-IN OIL
- ⊗ TEMP. ABANDONED
- ⊗ TEST WELL
- ⊗ WATER INJECTION
- ⊗ WATER SUPPLY
- ⊗ WATER DISPOSAL
- ⊗ DRILLING

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



Utah Oil Gas and Mining



PREPARED BY: DIANA MASON  
DATE: 24-JANUARY-2007

# Application for Permit to Drill

## Statement of Basis

2/26/2007

Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Ownr</b>	<b>CBM</b>
217	43-019-31524-00-00		OW	S	No
<b>Operator</b>	DELTA PETROLEUM CORP	<b>Surface Owner-APD</b>			
<b>Well Name</b>	GREENTOWN ST 36-31S	<b>Unit</b>			
<b>Field</b>	UNDESIGNATED	<b>Type of Work</b>			
<b>Location</b>	NWNE 36 21S 16E S 0 F L 0 F L GPS Coord (UTM) 577806E 4311253N				

### Geologic Statement of Basis

Significant volumes of high quality ground water are unlikely to be encountered in the bedrock at this location. A poorly permeable soil is likely to be developed on the Jurassic-age Brushy Basin Member of the Morrison Formation. A small but locally important quality ground water resource may be encountered in several permeable Mesozoic aquifers in this area. The proposed casing and cementing program should adequately isolate any zones of fresh water that may be penetrated. No underground water rights have been filed on any area within a mile of the proposed well site.

Chris Kierst  
APD Evaluator

2/23/2007  
Date / Time

### Surface Statement of Basis

On-site conducted February 7, 2007. In attendance: Bart Kettle-Division of Oil Gas and Mining (DOGM), Leroy Mead-Division of Wildlife Resources (DWR), Ed Bonner-School and Institutional Trust Lands Administration (SITLA), Don Kincheloe-Delta Petroleum Corporation, Terry Hoffman-Delta Petroleum Corporation, Larry Johnson-Talon Resources, Inc

DWR recommends Delta participate in May raptor survey flights. DWR recommending season closures for Desert Bighorn lambing April 15-May 15 and rut Oct 15-Dec15. DOGM recommends drainage be diverted around well pad. Reserve pit shall be lined and kept in proper functioning condition. DOGM requires that all activities associated with constructing, drilling, completion and production of well be restricted to permitted access route and well pad. Delta Petroleum Corporation will be held accountable for the activities of contractors and company representatives.

Bart Kettle  
Onsite Evaluator

2/7/2007  
Date / Time

### Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 12 mils shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	Access road should be a raised bed road.
Surface	All materials, equipment shall be stored within permitted area. No activity shall occur outside of permitted well pad and access route.
Surface	Operator is responsible for acquiring appropriate rights-of-ways or other permits from other surface managing agencies or landowners, for roads, staging areas, gravel pits utilized for constructing/drilling/producing the state wells.

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

Operator DELTA PETROLEUM CORP  
Well Name GREENTOWN ST 36-31S  
API Number 43-019-31524-0 APD No 217 Field/Unit UNDESIGNATED  
Location: 1/4,1/4 NWNE Sec 36 Tw 21S Rng 16E 0 FL 0 FL  
GPS Coord (UTM) 577804 4311250 Surface Owner

### Participants

Bart Kettle (DOG M), Ed Bonner (SITLA), LeRoy Mead (DWR), Terry Hoffman (Delta), Don Kincheloe (Delta), Larry Johson (Talon)

### Regional/Local Setting & Topography

Proposed project site is located roughly four miles south of the town of Green River, in Grand County Utah. Annual precipitation is 6-8", and vegetation would be described as salt scrub black brush mixed rangelands. Topography immediately adjacent to the well is a series of small sandstone capped bluffs and alternating clay valleys cut by numerous small gullies. Drainage is to the west entering the Green River within two miles. No perennial water was observed in close proximity to the proposed project site. Drainages in the immediate area are ephemeral in nature, being dry throughout a majority of the year.

### Surface Use Plan

#### Current Surface Use

Grazing  
Recreational  
Wildlife Habitat

#### New Road

Miles	Well Pad	Src Const Material	Surface Formation
0.6	Width 270	Length 340	Onsite
			MORN

Ancillary Facilities N

### Waste Management Plan Adequate? Y

### Environmental Parameters

Affected Floodplains and/or Wetland N

#### Flora / Fauna

Grass: Hilaria jansii, cheatgrass.  
Forbs: Halogeton, princes plume, hairy aster..  
Shrubs: Shadscale, mat salt brush, Gardner salt brush, Mormon tea, broom snakeweed.

#### Soil Type and Characteristics

Heavy red clays with sandstone fragments.

Erosion Issues Y

Highly erosive soils

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required N

Berm Required? N

Erosion Sedimentation Control Required? Y

Proper reclamation of unused portions of project area following drilling.

Paleo Survey Run? N

Paleo Potential Observed?

Cultural Survey Run? Y

Cultural Resources? N

Reserve Pit

**Site-Specific Factors**

**Site Ranking**

Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	Low permeability	0
Fluid Type	TDS>10000	15
Drill Cuttings	Salt or Detrimental	10
Annual Precipitation (inches)	<10	0
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0

**Final Score** 30 1 **Sensitivity Level**

**Characteristics / Requirements**

Liner in reserve pit require due to drilling with a salt based mud system, drill cuttings being salty, and poor track record of operator.

Closed Loop Mud Required? N

Liner Required? Y

Liner Thickness 12

Pit Underlayment Required? N

Other Observations / Comments

SITLA provided no comments. DWR recommends that Delta participate in May flights for raptor surveys. Project sire is considered viable ferruginous hawk nesting habitat. Project area has been inhabited by a band of 12-15 Desert bighorns dispersing from the Potash herd. Nearly half of the habitat area for this band of sheep would be affected by the drilling of seven new Greentown wells. DWR concerned impacts on this scale may cause sheep to leave existing habitat. DWR recommends restrictions during lambing season from April 15-May 15 and the rut Oct 15-Dec 15. DOGM recommends that berms be used to divert water around the southern portions of the well. Liner on the reserve pit will be required, and should be kept in functioning condition. No activity should occur outside of the permitted access road and well pad. This includes the storage of materials, equipment and vehicles. Contractors should be informed prior to dispatching to job site they are to remain within these permitted areas.

Bart Kettle  
Evaluator

2/7/2007  
Date / Time

# UTAH DIVISION OF WATER RIGHTS

**Sorry. No diversion points. Try browsing!**

[Natural Resources](#) | [Contact](#) | [Disclaimer](#) | [Privacy Policy](#) | [Accessibility Policy](#)

**STATE ACTIONS**  
**Resource Development Coordinating Committee**  
**Public Lands Policy Coordination Office**  
**5110 State Office Building**  
**SLC, UT 84114**  
**Phone No. 537-9230**

<b>1. State Agency</b> Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, UT 84114-5801	<b>2. Approximate date project will start:</b>  Upon Approval or February 7, 2007
<b>3. Title of proposed action:</b> Application for Permit to Drill	
<b>4. Description of Project:</b>  Delta Petroleum Corporation proposes to drill the Greentown State 36-31S well (wildcat) on a State lease ML-49170, Grand County, Utah. This action is being presented to the RDCC for consideration of resource issues affecting state interests. The Division of Oil, Gas and Mining is the primary administrative agency in this action and must issue approval before operations commence.	
<b>5. Location and detailed map of land affected (site location map required, electronic GIS map preferred)</b> (include UTM coordinates where possible) (indicate county) 535' FNL 1814' FEL, NW/4 NE/4, Section 36, Township 21 South, Range 16 East, Grand County, Utah	
<b>6. Possible significant impacts likely to occur:</b> Surface impacts include up to five acres of surface disturbance during the drilling and completion phase (estimated for five weeks duration). If oil and gas in commercial quantities is discovered, the location will be reclaimed back to a net disturbance of between one and two acres – not including road, pipeline, or utility infrastructure. If no oil or gas is discovered, the location will be completely reclaimed.	
<b>7. Identify local government affected</b> a. Has the government been contacted? No. b. When? c. What was the response? d. If no response, how is the local government(s) likely to be impacted?	
<b>8. For acquisitions of land or interests in land by DWR or State Parks please identify state representative and state senator for the project area. Name and phone number of state representative, state senator near project site, if applicable:</b> a. Has the representative and senator been contacted? N/A	
<b>9. Areawide clearinghouse(s) receiving state action:</b> (to be sent out by agency in block 1) Southeastern Utah Association of Governments	
<b>10. For further information, contact:</b>   <b>Diana Mason</b> <b>Phone:</b> (801) 538-5312	<b>11. Signature and title of authorized officer</b>   Gil Hunt, Associate Director <b>Date:</b> January 24, 2007

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

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>			5. MINERAL LEASE NO: ML-49170	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA	
B. TYPE OF WELL: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			8. UNIT or CA AGREEMENT NAME: NA	
2. NAME OF OPERATOR: Delta Petroleum Corporation			9. WELL NAME and NUMBER: Greentown State #36-31S	
3. ADDRESS OF OPERATOR: 370 17th St, Suite 4300 CITY Denver STATE CO ZIP 80021		PHONE NUMBER: (303) 575-0323	10. FIELD AND POOL, OR WLDCAT: Wildcat	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 535' FNL & 1814' FEL <i>577806x 38.948641</i> <i>43112534 -110.102141</i> AT PROPOSED PRODUCING ZONE: Same as surface			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 36 21S 16E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 5 miles South and East of Green River, Utah			12. COUNTY: Grand	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 535'	16. NUMBER OF ACRES IN LEASE: 640	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40		
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) NA	19. PROPOSED DEPTH: 3,800	20. BOND DESCRIPTION: CPCS-215808		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): GR - 4274'	22. APPROXIMATE DATE WORK WILL START: 2/15/2007	23. ESTIMATED DURATION: 35 days		

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
11"	8-5/8" J-55 STC 24#	1,700	Lead - 85/15/8	215 sxs	2.14	12.5#
			Tail - Type III	270 sxs	1.41	14.6#
7-7/8"	5-1/2" J-55 LTC 17#	3,800	Lead - 85/15/8	340 sxs	2.14	12.5#
			Tail - Type III	225 sxs	1.41	14.6#

25. **ATTACHMENTS**

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

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

NAME (PLEASE PRINT) Terry L. Hoffman TITLE Regulatory Manager  
SIGNATURE *Terry L. Hoffman* DATE 1/17/2007

(This space for State use only)

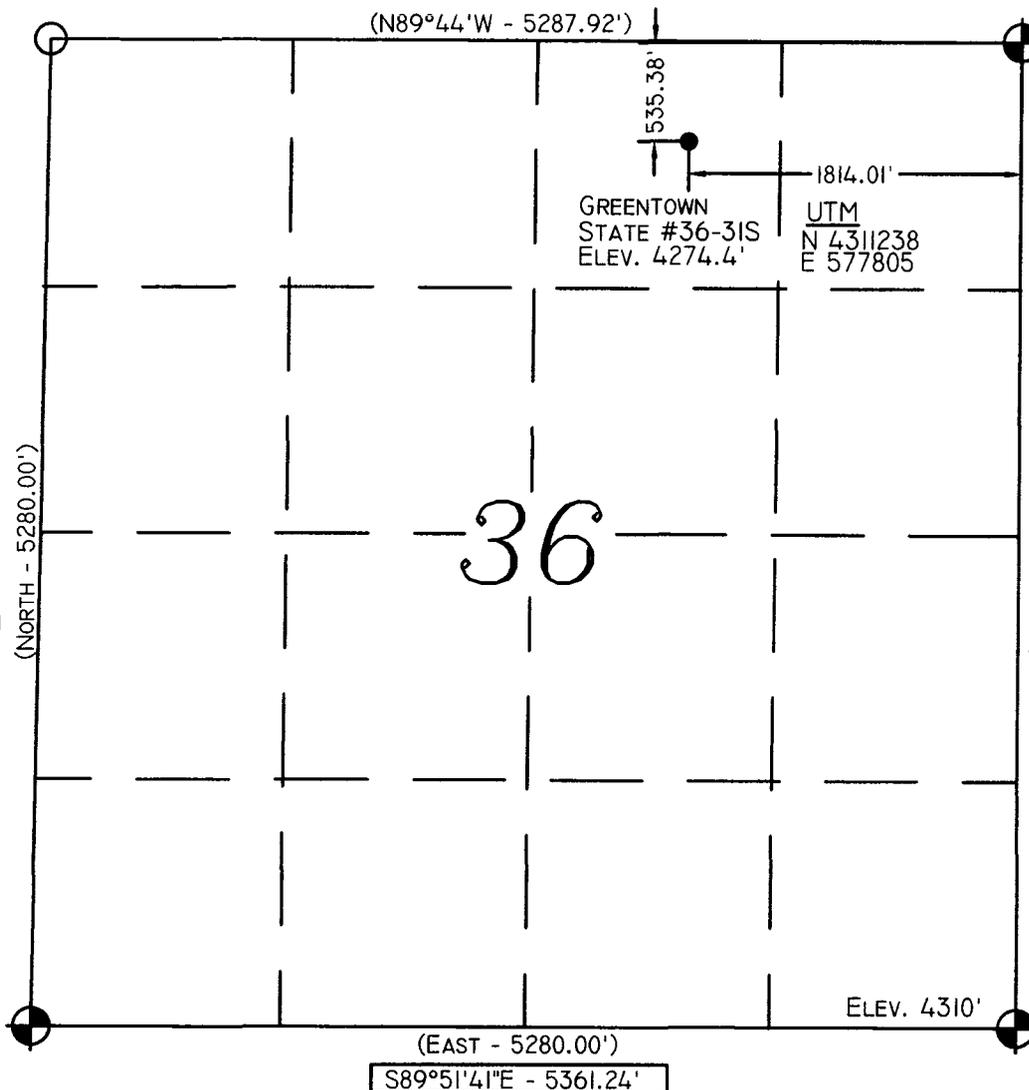
API NUMBER ASSIGNED: 43-019-31524

APPROVAL:

**RECEIVED**  
**JAN 22 2007**  
DIV. OF OIL, GAS & MINING

# Range 16 East

Township 21 South



**Location:**  
The well location was determined using a Trimble 5700 GPS survey grade unit.

**Basis of Bearing:**  
The Basis of Bearing is GPS Measured.

**GLO Bearing:**  
The Bearings indicated are per the recorded plat obtained from the U.S. Land Office.

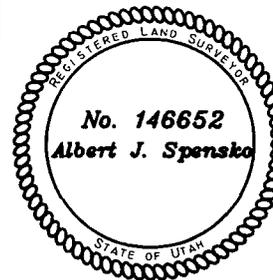
**Basis of Elevation:**  
Basis of Elevation of 4310' being at the Southeast Section Corner of Section 36, Township 21 South, Range 16 East, Salt Lake Base and Meridian, as shown on the Green River NE Quadrangle 7.5 minute series map.

**Description of Location:**  
Proposed Drill Hole located in the NW/4 NE/4 of Section 36, T21S, R16E, S.L.B.&M., being 535.38' South and 1814.01' West from the Northeast Section Corner of Section 36, T21S, R16E, Salt Lake Base & Meridian.

**Surveyor's Certificate:**

I, Albert J. Spensko, a Registered Professional Land Surveyor, holding Certificate 146652 State of Utah, do hereby certify that the information on this drawing is a true and accurate survey based on data of record and was conducted under my personal direction and supervision as shown hereon.

NORTH - 5280.00'  
N00°03'32"W - 5324.09'



**Legend**

- Drill Hole Location
- ⊙ Stone Monument (Found)
- Stone Monument (Searched for, but not found)
- △ Calculated Corner
- ( ) GLO
- GPS Measured

**NOTES:**

1. UTM and Latitude / Longitude Coordinates are derived using a GPS Pathfinder and are shown in NAD 27 Datum.

LAT / LONG	
38°56'54.633"N	110°06'07.756"W



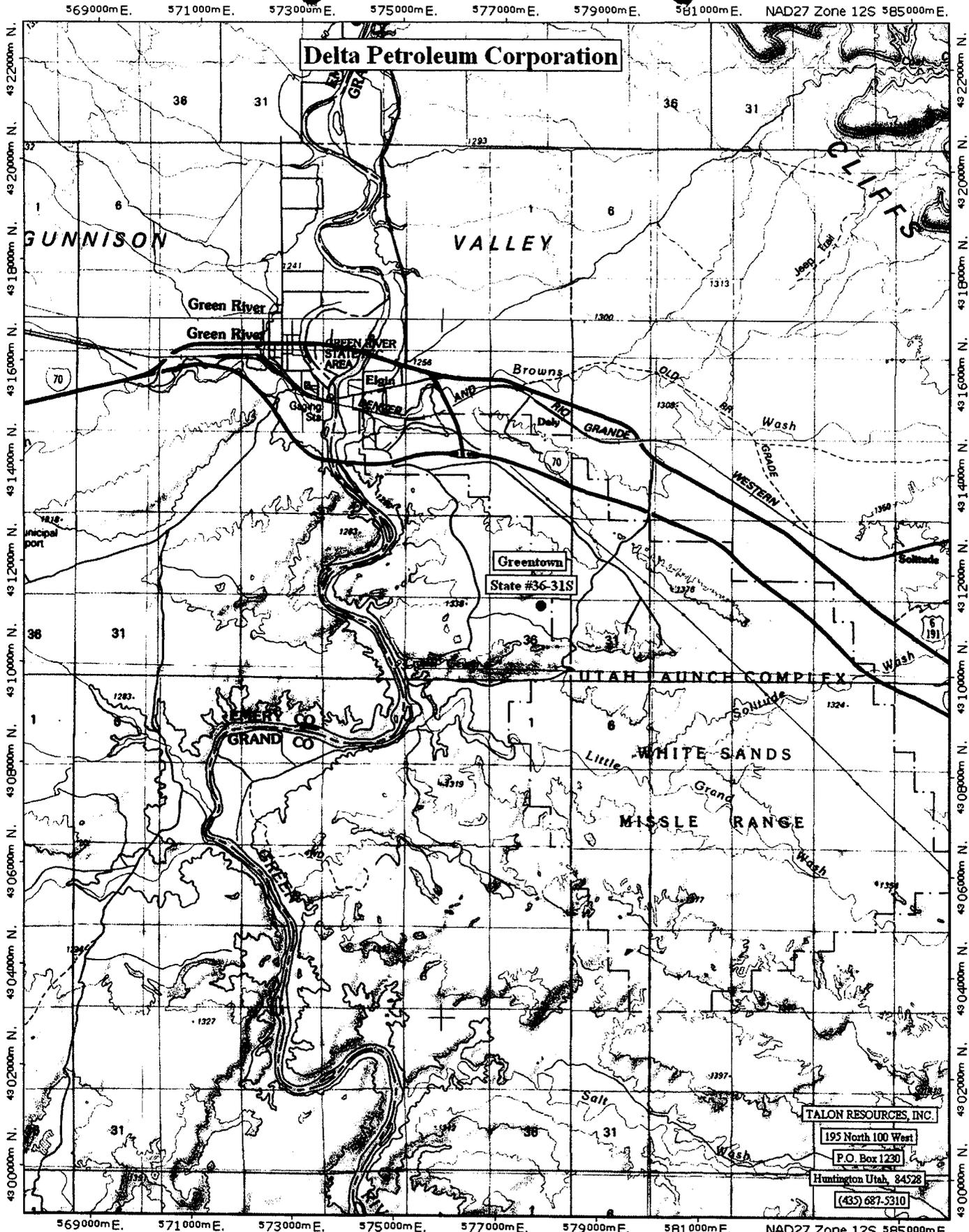
**TALON RESOURCES, INC.**

195 North 100 West P.O. Box 1230  
Huntington, Utah 84528  
Phone (435)687-5310 Fax (435)687-5311  
E-Mail talon @ etv.net



**Greentown State #36-31S**  
Section 36, T21S, R16E, S.L.B.&M.  
Grand County, Utah

Drawn By: <b>N. BUTKOVICH</b>	Checked By: <b>L.W.J./A.J.S.</b>
Drawing No. <b>A-1</b>	Date: <b>1/8/07</b>
	Scale: <b>1" = 1000'</b>
Sheet <b>1</b> of <b>4</b>	Job No. <b>2697</b>



**Delta Petroleum Corporation**

**Greentown**  
State #36-31S

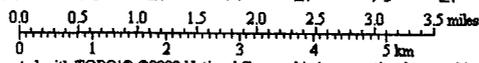
**TALON RESOURCES, INC.**

195 North 100 West

P.O. Box 1230

Huntington Utah, 84528

(435) 687-5310



Map created with TOPO! © 2003 National Geographic (www.nationalgeographic.com/topo)

**From:** Robert Clark  
**To:** Mason, Diana  
**Date:** 1/29/2007 12:20 PM  
**Subject:** RDCC short turn-around responses

**CC:** Anderson, Tad; Heying, Cheryl; McNeill, Dave

The following comments are in response to RDCC short turn around items **RDCC #7511 through 7517 and RDCC #7527 through 7534**.

FYI: All comments are similar with the exception of the requesting entity, the well designation, and the county.

**RDCC #7511, Comments begin:** The Berry Petroleum Company proposal to drill the LC Tribal 2-11D-56 wildcat well, in Duchesne County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) .

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) . **Comments end.**

**RDCC #7512, comments begin:** The Berry Petroleum Company proposal to drill the LC Tribal 2-11D-56 wildcat well, in Duchesne County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) .

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) . **Comments end.**

**RDCC #7513, comments begin:** The Royalite Petroleum Corporation proposal to drill the Royalite State 16-1 wildcat well, in Piute County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) .

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) . **Comments end.**

**RDCC #7514, comments begin:** The Delta Petroleum Corporation proposal to drill the Salt Valley State 23-43 wildcat well, in Grand County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) .

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) . **Comments end.**

**RDCC #7515, comments begin:** The Delta Petroleum Corporation proposal to drill the Salt Valley State 24-14 wildcat well, in Grand County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) .

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) . **Comments end.**

**RDCC #7516, comments begin:** The EOG Resources, Inc. proposal to drill the Big Wash 61-16-GR wildcat well, in Duchesne County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) .

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) . **Comments end.**

**RDCC #7517, comments begin:** The EOG Resources, Inc. proposal to drill the Big Wash 30-02-GR wildcat well, in Duchesne County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) .

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) . **Comments end.**

**RDCC #7527, comments begin:** The Questar Exploration & Production Company proposal to drill the SCS 5C-32-14-19 wildcat well, in Uintah County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) .

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing

vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) . **Comments end.**

**RDCC #7528, comments begin:** The Delta Petroleum Corporation proposal to drill the Greentown State 36-33S wildcat well, in Grand County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) .

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) . **Comments end.**

**RDCC #7529, comments begin:** The Delta Petroleum Corporation proposal to drill the Greentown State 36-24S wildcat well, in Grand County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) .

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) . **Comments end.**

**RDCC #7530, comments begin:** The Delta Petroleum Corporation proposal to drill the Greentown State 36-31S wildcat well, in Grand County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) .

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) . **Comments end.**

**RDCC #7531, comments begin:** The Delta Petroleum Corporation proposal to drill the Greentown State 36-42S wildcat well, in Grand County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) .

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) . **Comments end.**

**RDCC #7532, comments begin:** The Delta Petroleum Corporation proposal to drill the Greentown State 36-22S wildcat well, in Grand County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any

compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) .

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) . **Comments end.**

**RDCC #7533, comments begin:** The Delta Petroleum Corporation proposal to drill the Greentown State 36-44S wildcat well, in Grand County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) .

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) . **Comments end.**

**RDCC #7534, comments begin:** The Delta Petroleum Corporation proposal to drill the Greentown State 36-13S wildcat well, in Grand County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) .

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm) . **Comments end.**

Robert Clark  
Division of Air Quality  
801-536-4435

Casing Schematic

Surface

BHP  $0.052(3800)9 = 1778 \text{ psi}$   
anticipate 4800 psi.

Gas  $.12(3800) = 456$   
 $1778 - 456 = 1322 \text{ psi, MASP}$

BOPE 5M ✓

Burst 2950  
70% - 2065

Max P @ surf shoe

$.22(2100) = 462$   
 $1778 - 462 = 1316 \text{ psi}$

8-5/8"  
MW 8.5  
Frac 19.3

test to 1316 psi ✓

✓ Adequate DWD  
3/29/07



TOC @ 0.  
TOC @ 62.

TOC w/17% w/o Morrison/Salt Wash

-561' Entrada ✓

-1113' Carmel

-1278' Navajo

-1714' Surface Kayenta  
-1751' 1700. MD Wingate

-2214' Chinle ✓

-2396' Shinarump

-2442' Moenkopi

-3037' Sinbad Is.

-3254' White Rim

5-1/2"  
MW 9.

Production  
3800. MD

Well name:	<b>2007-02 Delta Greentown ST 36-31S</b>		
Operator:	<b>Delta Petroleum Corporation</b>		
String type:	Surface	Project ID:	43-019-31524
Location:	Grand County		

**Design parameters:**

**Collapse**  
Mud weight: 8.500 ppg  
Design is based on evacuated pipe.

**Burst**  
Max anticipated surface pressure: 1,321 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP: 1,525 psi  
  
No backup mud specified.

**Minimum design factors:**

**Collapse:**  
Design factor: 1.125  
  
**Burst:**  
Design factor: 1.00  
  
**Tension:**  
8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)  
  
Tension is based on buoyed weight.  
Neutral point: 1,483 ft

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 89 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 250 ft  
  
Cement top: 62 ft  
  
**Non-directional string.**  
  
**Re subsequent strings:**  
Next setting depth: 3,800 ft  
Next mud weight: 9.000 ppg  
Next setting BHP: 1,777 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 1,700 ft  
Injection pressure: 1,700 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	1700	8.625	24.00	J-55	ST&C	1700	1700	7.972	607.9

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	751	1370	1.825	1525	2950	1.93	36	244	6.85 J

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

Phone: 801-538-5357  
FAX: 810-359-3940

Date: February 27, 2007  
Salt Lake City, Utah

Remarks:  
Collapse is based on a vertical depth of 1700 ft, a mud weight of 8.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>2007-02 Delta Greentown ST 36-31S</b>		
Operator:	<b>Delta Petroleum Corporation</b>		
String type:	Production	Project ID:	43-019-31524
Location:	Grand County		

**Design parameters:**

**Collapse**

Mud weight: 9.000 ppg  
 Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 941 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP: 1,777 psi  
  
 No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor: 1.125

**Burst:**

Design factor: 1.00

**Tension:**

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

Tension is based on buoyed weight.  
 Neutral point: 3,281 ft

**Environment:**

H2S considered? No  
 Surface temperature: 65 °F  
 Bottom hole temperature: 118 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,500 ft

Cement top: Surface

**Non-directional string.**

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	3800	5.5	17.00	J-55	LT&C	3800	3800	4.767	496
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1777	4910	2.764	1777	5320	2.99	56	247	4.43 J

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

Phone: 801-538-5357  
 FAX: 801-359-3940

Date: February 27, 2007  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 3800 ft, a mud weight of 9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-49170</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>N/A</b>
		7. UNIT or CA AGREEMENT NAME: <b>N/A</b>
1. TYPE OF WELL <b>OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> _____	8. WELL NAME and NUMBER: <b>Greentown State #36-31S</b>	
2. NAME OF OPERATOR: <b>Delta Petroleum Corporation</b>	9. API NUMBER: <b>4301931524</b>	
3. ADDRESS OF OPERATOR: <b>370 17th st. Suite4300</b> CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80021</b>	PHONE NUMBER: <b>(303) 575-0323</b>	10. FIELD AND POOL, OR WILDCAT: <b>Wildcat</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>535' FNL, 1814' FEL</b>		COUNTY: <b>Grand</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNE 36 21S 16E S</b>		STATE: <b>UTAH</b>

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> (Submit in Duplicate)  Approximate date work will start: _____	<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"/> <b>SUBSEQUENT REPORT</b> (Submit Original Form Only)  Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input checked="" 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 FLARE
	<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/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<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.

Please replace the L-1 drawing with the revised L-1 drawing

NAME (PLEASE PRINT) <u>Terry L. Hoffman</u>	TITLE <u>Regulatory Manager</u>
SIGNATURE <u><i>Terry L. Hoffman</i></u>	DATE <u>2/16/7</u>

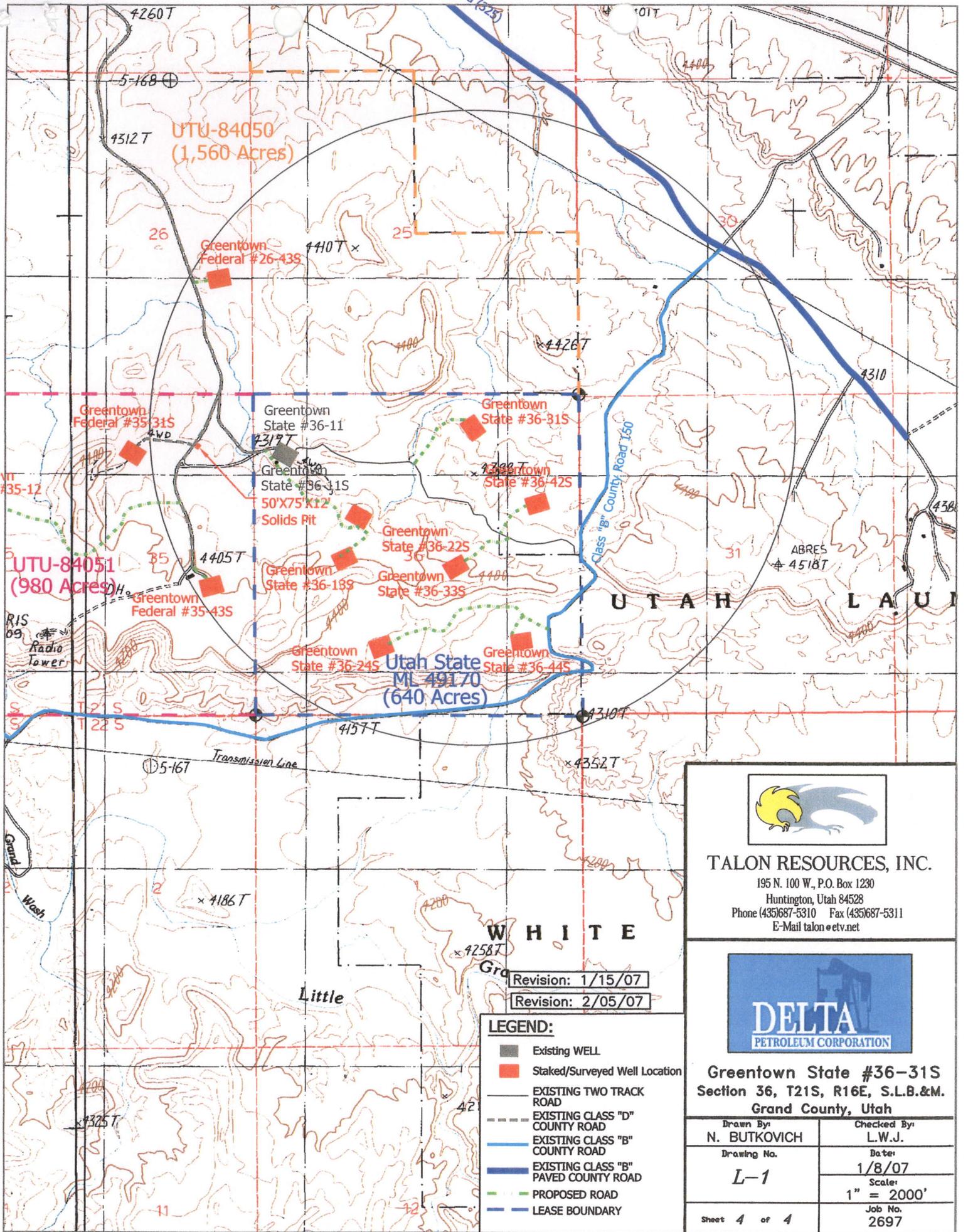
(This space for State use only)

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
For Record Only

(See Instructions on Reverse Side)

(5/2000)

**RECEIVED**  
**FEB 20 2007**  
DIV. OF OIL, GAS & MINING



**TALON RESOURCES, INC.**  
 195 N. 100 W., P.O. Box 1230  
 Huntington, Utah 84528  
 Phone (435)687-5310 Fax (435)687-5311  
 E-Mail talon@etv.net



**Greentown State #36-31S**  
**Section 36, T21S, R16E, S.L.B.&M.**  
**Grand County, Utah**

Drawn By: <b>N. BUTKOVICH</b>	Checked By: <b>L.W.J.</b>
Drawing No. <b>L-1</b>	Date: <b>1/8/07</b>
Sheet <b>4</b> of <b>4</b>	Scale: <b>1" = 2000'</b>
	Job No. <b>2697</b>

Revision: 1/15/07  
 Revision: 2/05/07

- LEGEND:**
- Existing WELL
  - Staked/Surveyed Well Location
  - EXISTING TWO TRACK ROAD
  - - - EXISTING CLASS "D" COUNTY ROAD
  - EXISTING CLASS "B" COUNTY ROAD
  - EXISTING CLASS "B" PAVED COUNTY ROAD
  - - - PROPOSED ROAD
  - - - LEASE BOUNDARY

# SOUTHEASTERN UTAH ASSOCIATION OF LOCAL GOVERNMENTS

Doug Allen  
CHAIRMAN

William D. Howell  
EXECUTIVE DIRECTOR



375 SOUTH CARBON AVE.  
P.O. DRAWER 1106  
PRICE, UTAH 84501  
(435) 637-5444  
FAX (435) 637-5448

RECEIVED

FEB 26 2007

DIV. OF OIL, GAS & MINING

## AREA WIDE CLEARINGHOUSE REVIEW

Federal Action \_\_\_\_\_ State Action   x   Approved ( x ) Yes ( ) No  
Other (indicate) \_\_\_\_\_

### Applicant Address:

#### Oil, Gas and Mining

1594 West North Temple #1210

SLC, UT 84114-5801

Name/Phone #

Diana Mason 801-538-5312

### Title/Project Description

Application for Permit to Drill - Greentown State 36-33S, 36-24S, 36-31S, 36-42S, 36-22S, 36-44S, 36-13S all on State lease ML-49170, Grand County, Utah.

Delta proposes to drill six (6) wildcat wells in an area southeast of Green River in Grand County.. All sites are on SITLA Trust land.

- No Comment
- See comment below

Comments: Favorable comment recommended.

Lorraine Benzheal  
SEUALG

February 8, 2007

DATE

AREA AGENCY ON AGING • BUSINESS INCUBATION • COMMUNITY HOUSING REHABILITATION • COMMUNITY SERVICES • ECONOMIC DEVELOPMENT

<http://www.seualg.dst.ut.us>

• [fristinitiallastname@seualg.dst.ut.us](mailto:fristinitiallastname@seualg.dst.ut.us)

March 20, 2007

TIGHT HOLE STATUS

Helen Sadik-MacDonald  
State of Utah  
Division of Oil Gas and Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84116

RE: Revision of Drilling Program for Greentown State wells

Dear Ms. MacDonald:

Delta Petroleum Corporation respectfully submits the following revised Drilling Programs for the Greentown State Wells 36-13S, 36-22S, 36-24S, 36-31S, 36-33S, 36-42S, and 36-44S.

Please do not hesitate to call if you have any questions.

Sincerely,

DELTA PETROLEUM CORPORATION



Terry L. Hoffman  
Regulatory Manager

cc: Mr. Ed Bonner SITLA

RECEIVED

MAR 21 2007

DIV. OF OIL, GAS & MINING

**EXHIBIT "D"**  
**DRILLING PROGRAM**

**TIGHT HOLE STATUS**

Attached to UDOGM Form 3  
Delta Petroleum Corporation  
**Greentown State #36-31S**  
NW/4 NE/4, Sec. 36, T21S, R16E, SLB & M  
535' FNL, 1814' FEL  
Grand County, Utah

1. The Geologic Surface Formation

	<u>TVD</u>	<u>Subsea</u>
Morrison-Salt Wash	0'	4296'

2. Estimated Tops of Important Geologic Markers

	<u>TVD</u>	<u>Subsea</u>
Morrison-Salt Wash	0'	4296' (KB)
Entrada	561'	3735'
Carmel	1113'	3183'
Navajo	1278'	3018'
Kayenta	1714'	2582'
Wingate	1751'	2545'
Chinle	2214'	2082'
Shinarump	2396'	1900'
Moenkopi	2442'	1854'
Sinbad Is.	3037'	1259'
White Rim	3254'	1042'
Total Depth	3800'	496'

3. Projected Gas & Water Zones

		<u>TVD</u>	<u>Subsea</u>
Morrison-Salt Wash	Water/Gas	0'	4296'
Entrada	Water	561'	3735'
Navajo	Water	1278'	3018'
Wingate	Water	1751'	2545'
White Rim	Oil/Wtr	3254'	1042'

No Groundwater is anticipated to be encountered. Water encountered will be reported on a Form 7 "Report of Water Encountered during Drilling".

**TIGHT HOLE STATUS**

**RECEIVED**

**MAR 21 2007**

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

Casing & cementing will be done to protect all fresh water zones, potentially productive hydrocarbons, lost circulation zones, abnormal pressure zones, and prospectively valuable mineral deposits.

All indications of usable water will be reported.

Surface casing will be tested to 1500 psi for 15 minutes. Pressure drop is not to exceed 150 psi.

#### 4) The Proposed Casing and Cementing Programs

##### Casing Program

Hole Size	Setting Depth	Size (OD)	Weight, Grade & Joint	Condition
11"	1700'	8-5/8"	24#, J-55 ST&C	New
7-7/8"	3800'	5-1/2"	17#, J-55 LT&C	New

##### Cement Program

###### Surface Casing:

Lead: 215 sxs 85/15/8  
Weight: 12.5 #/gal  
Yield: 2.14 cu.ft/sk  
Cmt Top 0'

Tail: 270 sxs Type III  
Weight: 14.6 #/gal  
Yield: 1.41 cu.ft/sk  
Cmt Top 900'

###### Production Casing:

Lead: 340 sxs 85/15/8  
Weight: 12.5 #/gal  
Yield: 2.14 cu.ft/sk  
Cmt Top 0'

Tail: 225 sxs Type III  
Weight: 14.6 #/gal  
Yield: 1.41 cu.ft/sk  
Cmt Top 2800'

The following shall be entered in the driller's log:

- 1) Blowout preventer pressure tests, including test pressures and results;
- 2) Blowout preventer tests for proper functioning;
- 3) Blowout prevention drills conducted;
- 4) Casing run, including size, grade, weight, and depth set;
- 5) How the pipe was cemented, including amount of cement, type, whether cement circulated, location of the cementing tools, etc.;
- 6) Waiting on cement time for each casing string;
- 7) Casing pressure tests after cementing, including test pressures and results.

5. The Operator's Minimum Specifications for Pressure Control

Exhibit "G" is a schematic diagram of the blowout preventer equipment. An 11" 5,000 psi Double gate Hydraulic BOP with one (1) blind ram and one (1) pipe ram and Annular Preventer; equipped with a 5,000 psi manual choke manifold. The BOP will be tested and charted using a BOP tester and test plug to 5,000 psi for 10 minutes. The Annular Preventer will be tested to 2,500 psi for 10 minutes. All text will be recorded in the Driller's log book. Pipe rams will be function tested daily, and blind rams tested on each trip.

6. The Type and Characteristics of the Proposed Circulating Muds

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Vis</u>	<u>Water Loss</u>
0-1700'	Wtr	+/-8.5	+/-28	NC
1700-3800'	LSND	+/-9.0	+/-44	+/-8

7. The Testing, Logging and Coring Programs are as followed

Testing - DST's are not planned

Logging - End of Surface casing – TD Platform Express plus sonic scanner

Coring - No coring is planned for this location

Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well. Bottom hole pressure expected is 4800 psi max. No hydrogen sulfide or other hazardous gases or fluids have been found, reported or are known to exist at these depths in the area.

8. Anticipated Starting Date and Duration of the Operations.

The well will be drilled upon approval of the permit.

Verbal and/or written notifications listed below shall be submitted in accordance with instructions from the Division of Oil, Gas & Mining:

- (a) prior to beginning construction;
- (b) prior to spudding;
- (c) prior to running any casing or BOP tests;
- (d) prior to plugging the well, for verbal plugging instructions.

Spills, blowouts, fires, leaks, accidents or other unusual occurrences shall be reported to the Division of Oil, Gas & Mining immediately.

**From:** Ed Bonner  
**To:** Mason, Diana  
**Date:** 7/11/2007 12:32 PM  
**Subject:** Well Clearance

**CC:** Davis, Jim; Garrison, LaVonne; Hill, Brad; Hunt, Gil

The following wells have been given cultural resources clearance by the Trust Lands Cultural Resources Group:

Delta Petroleum Corporation

Greentown State 36-42S (API 43 019 31518)  
Greentown State 36-24S (API 43 019 31519)  
Greentown State 36-33S (API 43 019 31520)  
Greentown State 36-13S (API 43 019 31521)  
Greentown State 36-22S (API 43 019 31523)  
Greentown State 36-31S (API 43 019 31524)

Dominion Exploration & Production, Inc  
AP 12-2J (API 43 047 39315)

Tidewater Oil & Gas Company, LLC

Cactus Rose 16-11-2118 (API 43 019 31546)

A stipulation must be added to the APD approval letter stating that final access to the location will swing to the north on consolidated material, remain out of the filled in livestock pond, and not cut into or interfere with the retention dam.

If you have any questions regarding this matter please give me a call.



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

July 12, 2007

Delta Petroleum Corporation  
370 17th St, Suite 4300  
Denver, CO 80202

Re: Greentown State 36-31S Well, 535' FNL, 1814' FEL, NW NE, Sec. 36, T. 21 South,  
R. 16 East, Grand 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 43-019-31524.

Sincerely,

Gil Hunt  
Associate Director

er  
Enclosures

cc: Grand County Assessor  
SITLA

**Operator:** Delta Petroleum Corporation  
**Well Name & Number** Greentown State 36-31S  
**API Number:** 43-019-31524  
**Lease:** ML 49170

**Location:** NW NE      **Sec.** 36      **T.** 21 South      **R.** 16 East

### Conditions of Approval

#### 1. General

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

#### 2. Notification Requirements

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

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

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

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

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

- Dan Jarvis at:           (801) 538-5338 office           (801) 942-0873 home
- Carol Daniels at:       (801) 538-5284 office
- Dustin Doucet at:      (801) 538-5281 office           (801) 733-0983 home

#### 3. Reporting Requirements

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

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. The Application for Permit to Drill has been forwarded to the Resource Development Coordinating Committee for review of this action. The operator will be required to comply with any applicable recommendations resulting from this review.
7. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

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

FORM 9

**CONFIDENTIAL**

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-49170</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>N/A</b>
1. TYPE OF WELL <b>OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> _____		7. UNIT or CA AGREEMENT NAME: <b>N/A</b>
2. NAME OF OPERATOR: <b>Delta Petroleum Corporation</b>		8. WELL NAME and NUMBER: <b>Greentown State #36-31S</b>
3. ADDRESS OF OPERATOR: <b>370 17th st. Suite4300</b> CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80021</b>		9. API NUMBER: <b>4301931524</b>
PHONE NUMBER: <b>(303) 575-0397</b>		10. FIELD AND POOL, OR WILDCAT: <b>Wildcat</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>535' FNL, 1814' FEL</b>		COUNTY: <b>Grand</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNE 36 21S 16E S</b>		STATE: <b>UTAH</b>

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> (Submit in Duplicate) Approximate date work will start: _____  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> (Submit Original Form Only) Date of work completion: _____	<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 FLARE
	<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/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <b>Renew APD</b>
	<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.

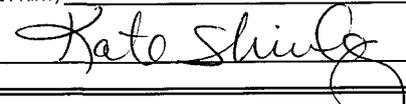
Delta Petroleum Corporation requests the renewal of the Permit to Drill the above referenced well

From: 7/12/2008  
To: 7/11/2009

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 07-01-08  
By: 

**COPY SENT TO OPERATOR**  
Date: 7.7.2008  
Initials: KS

NAME (PLEASE PRINT) <u>Kate Shirley</u>	TITLE <u>Regulatory Technician</u>
SIGNATURE 	DATE <u>6/18/2008</u>

(This space for State use only)

**RECEIVED**  
**JUN 26 2008**  
DIV. OF OIL, GAS & MINING

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4301931524  
**Well Name:** Greentown State 36-31S  
**Location:** 535' FNL & 1814' FEL NWNE S36-T21S-R16E  
**Company Permit Issued to:** Delta Petroleum Corporation  
**Date Original Permit Issued:** 7/12/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes  No

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes  No

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes  No

Has the approved source of water for drilling changed? Yes  No

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes  No

Is bonding still in place, which covers this proposed well? Yes  No

Kate Shultz  
Signature

6/18/2008  
Date

**Title:** Regulatory Technician

**Representing:** Delta Petroleum Corporation

**RECEIVED**  
**JUN 26 2008**

DIV. OF OIL, GAS & MINING



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

September 22, 2009

Delta Petroleum Corporation  
370 17<sup>TH</sup> Street Ste. 4300  
Denver, CO 80202

Re: APD Rescinded – Greentown State 36-31S, Sec.36, T.21S, R. 16E  
Grand County, Utah API No. 43-019-31524

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on July 12, 2007. On July 1, 2008, the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective September 22, 2009.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason  
Environmental Scientist

cc: Well File  
SITLA, Ed Bonner

