



2580 Creekview Road  
Moab, Utah 84532  
435/719-2018 435/719-2019 Fax

May 10, 2007

Fluid Minerals Group  
Bureau of Land Management  
Vernal Field Office  
170 South 500 East  
Vernal, Utah 84078

RE: Application for Permit to Drill - Stewart Petroleum Corporation  
**Tumbleweed #18-9-**

*Surface Location: 1,700' FSL & 660' FEL, NE/4 SE/4,  
Target Location: 1,026' FSL, 2,023' FEL, SW/4 SE/4,  
Section 18, T15S, R21E, SLB&M, Uintah County, Utah*

Dear Fluid Minerals Group:

On behalf of Stewart Petroleum Corporation, Buys & Associates, Inc. respectfully submits the enclosed original and three copies of the Application for Permit to Drill (APD) for the above referenced federal surface and mineral directional well. A request for exception to spacing (R649-3-11) is hereby requested based on topography since the well is located within 460' of the drilling unit boundary. Stewart Petroleum Corporation is the only owner and operator within 460' of the proposed well and all points along the intended well bore path. Included with the APD is the following supplemental information:

- Exhibit "A" - Survey plats, layouts and cross-section of the proposed well site;
- Exhibit "B" - Photos of the proposed well site;
- Exhibit "C" - Proposed location maps with access & pipeline corridor;
- Exhibit "D" - Drilling Plan;
- Exhibit "E" - Surface Use Plan;
- Exhibit "F" - Typical BOP and Choke Manifold diagram.

Please accept this letter as Stewart Petroleum Corporation's written request for confidential treatment of all information contained in and pertaining to this application.

Thank you very much for your timely consideration of this application. Please feel free to contact myself or Daryl Stewart of Stewart Petroleum Corporation at 303-799-1922 if you have any questions or need additional information.

Sincerely,

*Don Hamilton*

Don Hamilton  
Agent for Stewart Petroleum Corporation

cc: Daryl Stewart, Stewart Petroleum Corporation  
Dawn Martin, Buys & Associates, Inc.  
Diana Mason, Division of Oil, Gas & Mining

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. UTU-72059	
6. If Indian, Allottee or Tribe Name N/A	
7. If Unit or CA Agreement, Name and No. Tumbleweed Unit	
8. Lease Name and Well No. Tumbleweed #18-9	
9. API Well No. 43047-39299	
10. Field and Pool, or Exploratory undesignated	
11. Sec., T. R. M. or Blk. and Survey or Area Section 18, T15S, R21E, SLB&M	
12. County or Parish Utah	13. State UT
14. Distance in miles and direction from nearest town or post office* 40.1 miles southeast of Ouray, Utah	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660'	16. No. of acres in lease 2,549.48 acres
17. Spacing Unit dedicated to this well 40 acres	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. None	19. Proposed Depth 11,500' TVD-11,627' MD
20. BLM/BIA Bond No. on file UTB000251	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7,225' GR	22. Approximate date work will start* 07/01/2007
23. Estimated duration 35 days drilling 40 days completion	

24. Attachments

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

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

25. Signature <i>Don Hamilton</i>	Name (Printed/Typed) Don Hamilton	Date 05/10/2007
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Title  
Agent for Stewart Petroleum Corporation

Approved by (Signature) <i>Bradley G. Hill</i>	Name (Printed/Typed) BRADLEY G. HILL	Date 05-30-07
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Title  
Off ENVIRONMENTAL MANAGER

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

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

\*(Instructions on page 2)

SRWF

BHL

620226X  
4374142Y  
39.51039Z  
-109.601532

619815X  
4373928Y  
39.509522  
-109.606354

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Federal Approval of this  
Action is Necessary

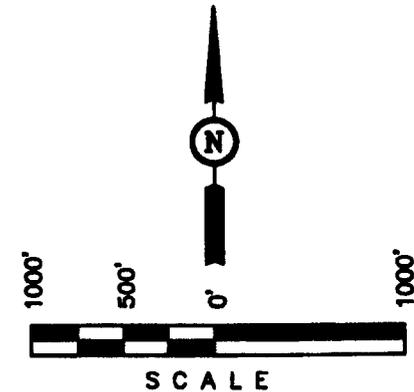
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**STEWART PETROLEUM CORPORATION**

Well location, TUMBLEWEED #18-9, located as shown in the NE 1/4 SE 1/4 of Section 18, T15S, R21E, S.L.B.&M., Uintah County, Utah.

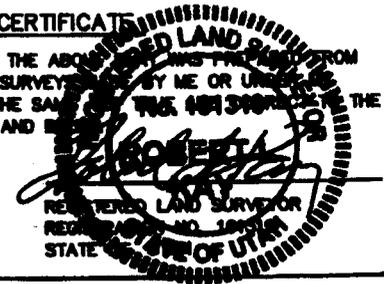
**BASIS OF ELEVATION**

TRIANGULATION STATION (WINTER) LOCATED IN THE NW 1/4 OF SECTION 25, T15S, R21E, S.L.B.&M. TAKEN FROM THE WOLF POINT QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7482 FEET.



**CERTIFICATE**

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



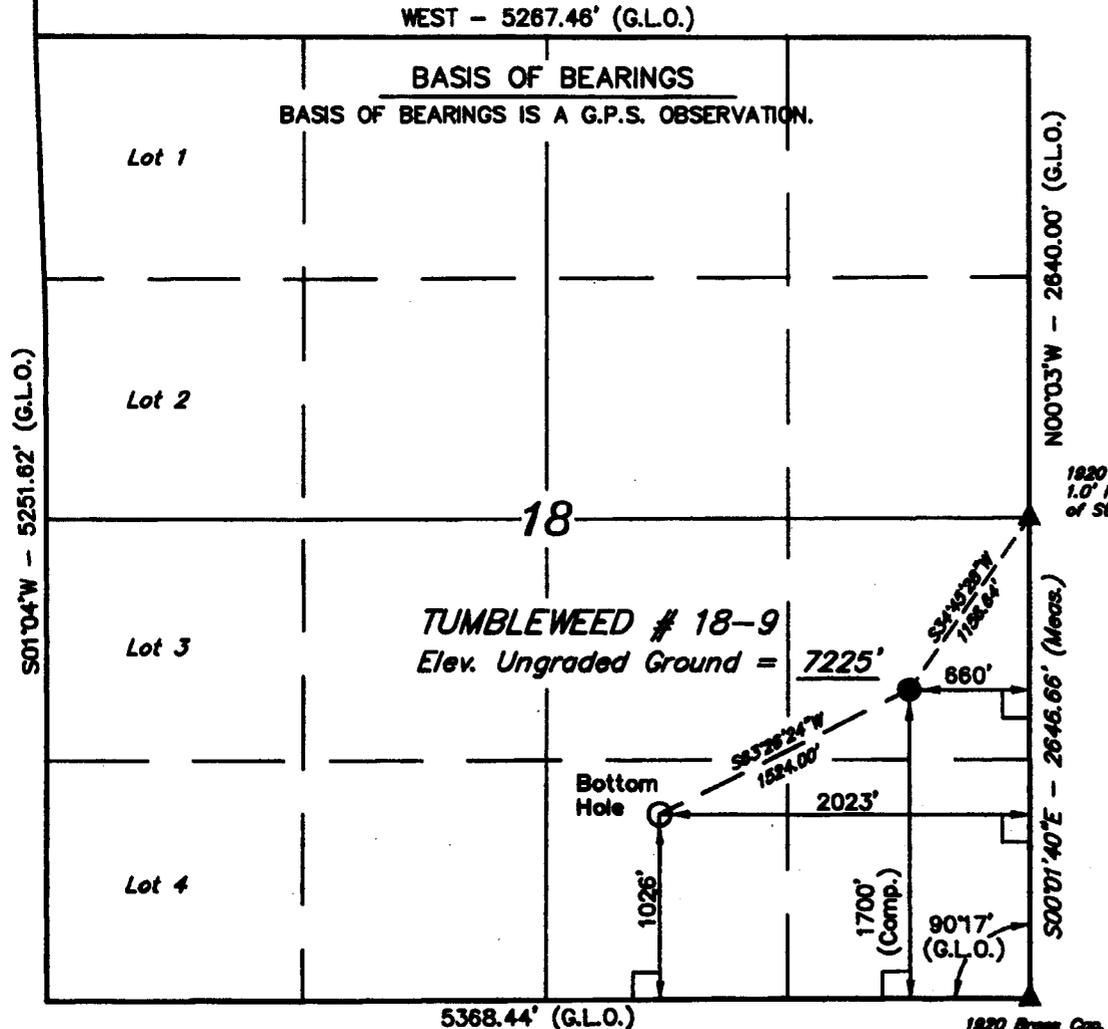
REVISED: 05-10-07

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 02-06-07	DATE DRAWN: 02-13-07
PARTY B.H. C.G. C.H.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE STEWART PETROLEUM CORPORATION	

R  
22  
E

**T15S, R21E, S.L.B.&M.**



**LEGEND:**

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(AUTONOMOUS NAD 83)  
 LATITUDE = 39°30'37.38" (39.510383)  
 LONGITUDE = 109°36'08.12" (109.602256)  
 (AUTONOMOUS NAD 27)  
 LATITUDE = 39°30'37.51" (39.510419)  
 LONGITUDE = 109°36'05.65" (109.601569)

1820 Brass Cap,  
1.0' High, Pile  
of Stones

# DIRECTIONAL DRILLING PLAN

## Attachment for Permit to Drill

**Name of Operator:** Stewart Petroleum Corporation  
**Address:** 475 17th St., Ste. 1250  
Denver, CO 80202  
**Well Location:** Tumbleweed #18-9  
SHL: 1,700' FSL & 660' FEL, NE/4 SE/4, Sec. 18-15S-21E  
BHL: 1,026' FSL, 2,023' FEL, SW/4 SE/4, Sec. 18-15S-21E  
Uintah County, UT

1. GEOLOGIC SURFACE FORMATION Green River

## 2 & 3. ESTIMATED DEPTHS OF IMPORTANT GEOLOGIC MARKERS AND ANTICIPATED WATER, OIL, GAS OR MINERALS

<u>Formation</u>	<u>Depth (MD)</u>	<u>Depth (TVD)</u>	<u>Depth (TVD subsea)</u>	<u>Oil/Gas Zones</u>
Wasatch	2000	2010	5229	oil or gas
Mesaverde	4070	4010	3229	gas
Castlegate	5900	5824	1415	gas
Mancos	6100	6021	1218	gas
Dakota Silt	9900	9773	(2534)	gas
Cedar Mtn	10100	9973	(2734)	gas
Entrada	10900	10773	(3534)	gas
Wingate	11300	11173	(3934)	gas

## 4. PROPOSED CASING PROGRAM

All casing used to drill this well will be new casing.  
subject to review on the basis of actual conditions encountered.

	<u>Depth</u>	<u>hole size</u>	<u>Csg O.D.</u>	<u>Grade</u>	<u>Weight/Ft</u>
Conductor	60'	20"	16"	Contractor	0.250" wall
Surface	1,000'	12 1/4"	9 5/8"	K-55	36# new
Production	0-10,000'	7 7/8"	5 1/2"	N-80	17# new
	10,000'-TD	7 7/8"	5 1/2"	P-110	17# new

## 5. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL

Surface hole: No BOPE will be utilized.

Intermediate hole: To be drilled using a diverter stack with rotating head to divert flow from rig floor.

Production hole: Prior to drilling out the intermediate casing shoe, 5,000 psi or greater BOP equipment will be installed. The pipe rams will be operated at least once per day from surface to total depth. The blind rams will be tested once per day from surface to total depth if operations permit.

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## DRILLING PLAN

### APPROVAL OF OPERATIONS

A diagram of the planned BOP equipment for normal drilling operations in this area is attached. As denoted there will be two valves and one check valve on the kill line, two valves on the choke line, and two adjustable chokes on the manifold system. The BOP "stack" will consist of two BOP rams (1 pipe, 1 blind) and one annular type preventer, all rated to a minimum of 5,000 psi working pressure.

The BOP equipment will be pressure tested prior to drilling out surface casing shoe and anytime a new casing string is set. All test pressures will be maintained for fifteen (15) minutes without any significant pressure decrease. Clear water will be circulated into the BOP stack and lines prior to pressure testing. The following test pressures will be used as a minimum for various equipment items.

1.	Annular BOP	1,500 psi
2.	Ram type BOP	5,000 psi
3.	Kill line valves	5,000 psi
4.	Choke line valves and choke manifold valves	5,000 psi
5.	Chokes	5,000 psi
6.	Casing, casinghead & weld	1,500 psi
7.	Upper kelly cock and safety valve	5,000 psi
8.	Dart valve	5,000 psi

#### 6. MUD SYSTEMS

- Drilling fluids: Well will be drilled with a low solids non-dispersed mud. In the event of severe lost circulation the mud be aerated.

#### 7. BLOOIE LINE

- An automatic igniter will not be installed on blooie line. The blooie will have a constant ignition source.
- A "target tee" connection will be installed on blooie line for 90° change of directions for abrasion resistance.
- "Target tee" connections will be a minimum of 50' from wellhead.
- The blooie line discharge will be a minimum of 80' from the wellhead.

#### 8. AUXILIARY EQUIPMENT TO BE USED

- a. Kelly cock.
- b. Full opening valve with drill pipe connection will be kept on floor. Valve will be used when the kelly is not in string
- c. Float Sub at bit—No
- d. Mud logger & Instrumentation—Yes

#### 9. TESTING, LOGGING, AND CORING PROGRAMS TO BE FOLLOWED

- DST's: none expected
- Logging: DIFL/SP/GR TD to surface
- SDL/CNL/CAL w/ DFIL from TD to 2,500'
- Sonic/GR/Cal from TD to surface
- Mudlogger from Wasatch to TD
- Coring: none planned

#### 10. ANTICIPATED ABNORMAL PRESSURES OR TEMPERATURES EXPECTED

- No abnormal pressures or hydrogen sulfide are anticipated based on drilling within the immediate area.
- In Flat Rock Field, approximately 4.5 miles to the northwest, the Del-Rio/Orion #29-7A produced a 36 hour shut in pressure of 3,100 psi and a calculated formation pore pressure of approximately 4,000 @ 11,700'.

#### 11. WATER SUPPLY

- Produced water from offset field operations will be utilized to drill this well.
- No water pipelines will be laid for this well.
- No water well will be drilled for this well.
- Drilling water for this well will be hauled on the road(s) shown in Exhibit "B".
- If supplemental water is required it will be obtained from the following source: Water Permit # 49-1667 (T74534 Ute Oilfield Water Service) Section 29, Township 12 South, Range 21 East, SLB&M.

**DRILLING PLAN**

**APPROVAL OF OPERATIONS**

**12. CEMENT SYSTEMS**

**Conductor:** 0-60' Ready mix to surface

**Surface Casing:** 0-1000'

Lead: 200 sx HiFill w/ 0.125 lbm/sk Poly E-Flake

Tail: 145 sx Premium AG 300 (class G) w/ 2% CaCl & 0.125 lbm/sk Poly E-Flake

100% excess. Will top w/ cement down 1" pipe w/ 50 sx Premium top out cement

**Cement Characteristics:** Lead:

Yield: 3.12 cu ft/sk

Slurry weight: 11.6 ppg

Compressive strength: 500 psi (24 hrs @ 80 degrees F)

Tail:

Yield: 1.17 cu ft/sk

Slurry weight: 15.8 ppg

Compressive strength: 3000 psi (24 hrs @ 80 degrees F)

**Production Casing:** 0-TD;

Lead 30 sx 50:50 pozmix w/ 5 lbm/sk silicalite

Primary: 1,200 sx 50:50 pozmix w/ 5 lbm/sk silicalite

Tail: 25 sx 50:50 pozmix w/ 5 lbm/sk silicalite

15% excess

**Cement Characteristics:**

Yield: 1.47 cu ft/sk

Slurry weight: (not foamed): 14.3 ppg

Slurry weight: (foamed): 11.0 ppg

Compressive strength: 1,125 psi (24 hrs @ 140 degrees F: 1,500 psi)

**Actual cement volumes will be based on caliper calculations**

**13. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS**

**Starting Date:** July 1, 2007

**Duration:** 14 Days

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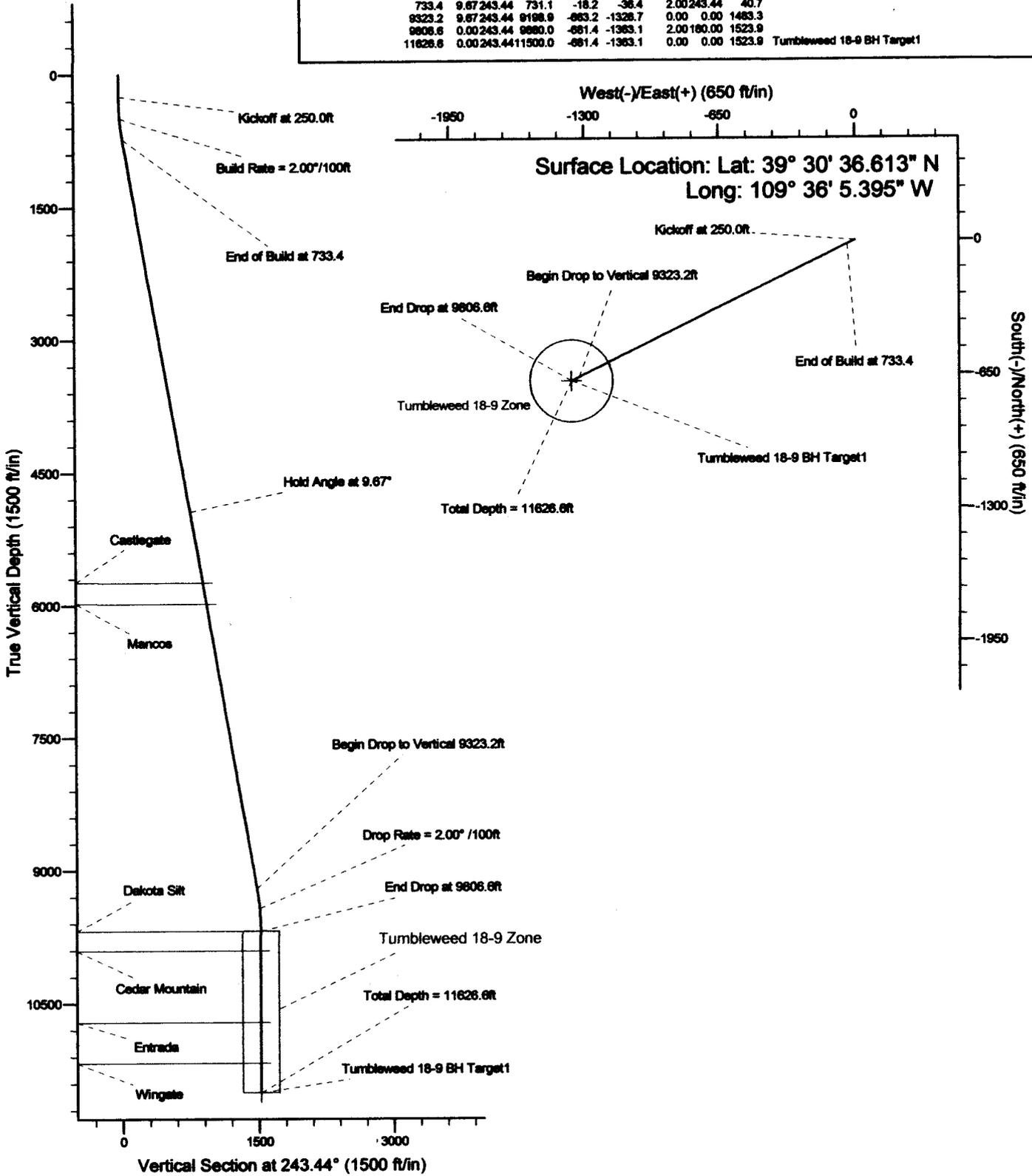
Project: Uintah County, UT  
 Site: Sec. 18-T15S-R21E  
 Well: Tumbleweed 18-9  
 Wellbore: Plan #1  
 Plan: Plan #1 Proposal

# Stewart Petroleum Corporation

HALLIBURTON

SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	DLag	TFace	VSec	Target
0.0	0.00243.44	0.0	0.0	0.0	0.0	0.00	0.00	0.0	
250.0	0.00243.44	250.0	0.0	0.0	0.0	0.00	0.00	0.0	
733.4	9.67243.44	731.1	-18.2	-36.4	2.00243.44	40.7			
9323.2	9.67243.44	9198.9	-683.2	-1328.7	0.00	0.00	1483.3		
9806.6	0.00243.44	9880.0	-681.4	-1363.1	2.00180.00	1523.9			
11626.6	0.00243.44	11500.0	-681.4	-1363.1	0.00	0.00	1523.9		Tumbleweed 18-9 BH Target1



**Stewart Petroleum Corporation**  
Utah County, UT  
Sec. 18-T15S-R21E  
Tumbleweed 18-9  
Plan #1

**Plan: Plan #1 Proposal**

**Sperry Drilling Services**  
**Proposal Report**

**25 April, 2007**

Well Coordinates: 434,319.63 N, 2,535,598.99 E (39° 30' 36.61" N, 109° 36' 05.39" W)  
Ground Level: 7,225.00 ft

Local Coordinate Origin:	Centered on Well Tumbleweed 18-9
Viewing Datum:	RKB @ 7245.0ft (Original Well Elev)
TVDs to System:	N
North Reference:	True
Unit System:	API - US Survey Feet

Geodetic Scale Factor Applied  
Version: 2003.14 Build: 57

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**HALLIBURTON**

**Plan Report for Tumbleweed 18-9 - Plan #1 - Plan #1 Proposal**

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)	Toolface Azimuth (°)
0.0	0.00	243.44	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
100.0	0.00	243.44	100.0	0.0	0.0	0.0	0.00	0.00	0.00	243.44
200.0	0.00	243.44	200.0	0.0	0.0	0.0	0.00	0.00	0.00	243.44
250.0	0.00	243.44	250.0	0.0	0.0	0.0	0.00	0.00	0.00	243.44
<b>Kickoff at 250.0ft</b>										
300.0	1.00	243.44	300.0	-0.2	-0.4	0.4	2.00	2.00	0.00	243.44
400.0	3.00	243.44	399.9	-1.8	-3.5	3.9	2.00	2.00	0.00	0.00
500.0	5.00	243.44	499.7	-4.9	-9.8	10.9	2.00	2.00	0.00	0.00
<b>Build Rate = 2.00 °/100ft</b>										
600.0	7.00	243.44	599.1	-9.5	-19.1	21.4	2.00	2.00	0.00	0.00
700.0	9.00	243.44	698.2	-15.8	-31.5	35.3	2.00	2.00	0.00	0.00
733.4	9.67	243.44	731.1	-18.2	-36.4	40.7	2.00	2.00	0.00	0.00
<b>End of Build at 733.4</b>										
800.0	9.67	243.44	796.8	-23.2	-46.4	51.9	0.00	0.00	0.00	0.00
900.0	9.67	243.44	895.3	-30.7	-61.4	68.7	0.00	0.00	0.00	0.00
1,000.0	9.67	243.44	993.9	-38.2	-76.4	85.5	0.00	0.00	0.00	0.00
1,100.0	9.67	243.44	1,092.5	-45.7	-91.5	102.3	0.00	0.00	0.00	0.00
1,200.0	9.67	243.44	1,191.1	-53.2	-106.5	119.0	0.00	0.00	0.00	0.00
1,300.0	9.67	243.44	1,289.7	-60.7	-121.5	135.8	0.00	0.00	0.00	0.00
1,400.0	9.67	243.44	1,388.2	-68.3	-136.5	152.6	0.00	0.00	0.00	0.00
1,500.0	9.67	243.44	1,486.8	-75.8	-151.5	169.4	0.00	0.00	0.00	0.00
1,600.0	9.67	243.44	1,585.4	-83.3	-166.6	186.2	0.00	0.00	0.00	0.00
1,700.0	9.67	243.44	1,684.0	-90.8	-181.8	203.0	0.00	0.00	0.00	0.00
1,800.0	9.67	243.44	1,782.6	-98.3	-196.6	219.8	0.00	0.00	0.00	0.00
1,900.0	9.67	243.44	1,881.1	-105.8	-211.6	236.6	0.00	0.00	0.00	0.00
2,000.0	9.67	243.44	1,979.7	-113.3	-226.7	253.4	0.00	0.00	0.00	0.00
2,100.0	9.67	243.44	2,078.3	-120.8	-241.7	270.2	0.00	0.00	0.00	0.00
2,200.0	9.67	243.44	2,176.9	-128.3	-256.7	287.0	0.00	0.00	0.00	0.00
2,300.0	9.67	243.44	2,275.5	-135.8	-271.7	303.8	0.00	0.00	0.00	0.00
2,400.0	9.67	243.44	2,374.0	-143.3	-286.7	320.6	0.00	0.00	0.00	0.00
2,500.0	9.67	243.44	2,472.6	-150.9	-301.8	337.4	0.00	0.00	0.00	0.00
2,600.0	9.67	243.44	2,571.2	-158.4	-316.8	354.2	0.00	0.00	0.00	0.00
2,700.0	9.67	243.44	2,669.8	-165.9	-331.8	371.0	0.00	0.00	0.00	0.00
2,800.0	9.67	243.44	2,768.4	-173.4	-346.8	387.8	0.00	0.00	0.00	0.00
2,900.0	9.67	243.44	2,866.9	-180.9	-361.8	404.5	0.00	0.00	0.00	0.00
3,000.0	9.67	243.44	2,965.5	-188.4	-376.9	421.3	0.00	0.00	0.00	0.00
3,100.0	9.67	243.44	3,064.1	-195.9	-391.9	438.1	0.00	0.00	0.00	0.00
3,200.0	9.67	243.44	3,162.7	-203.4	-406.9	454.9	0.00	0.00	0.00	0.00
3,300.0	9.67	243.44	3,261.3	-210.9	-421.9	471.7	0.00	0.00	0.00	0.00
3,400.0	9.67	243.44	3,359.8	-218.4	-437.0	488.5	0.00	0.00	0.00	0.00
3,500.0	9.67	243.44	3,458.4	-226.0	-452.0	505.3	0.00	0.00	0.00	0.00
3,600.0	9.67	243.44	3,557.0	-233.5	-467.0	522.1	0.00	0.00	0.00	0.00
3,700.0	9.67	243.44	3,655.6	-241.0	-482.0	538.9	0.00	0.00	0.00	0.00
3,800.0	9.67	243.44	3,754.2	-248.5	-497.0	555.7	0.00	0.00	0.00	0.00
3,900.0	9.67	243.44	3,852.7	-256.0	-512.1	572.5	0.00	0.00	0.00	0.00
4,000.0	9.67	243.44	3,951.3	-263.5	-527.1	589.3	0.00	0.00	0.00	0.00
4,100.0	9.67	243.44	4,049.9	-271.0	-542.1	606.1	0.00	0.00	0.00	0.00
4,200.0	9.67	243.44	4,148.5	-278.5	-557.1	622.9	0.00	0.00	0.00	0.00
4,300.0	9.67	243.44	4,247.1	-286.0	-572.2	639.7	0.00	0.00	0.00	0.00
4,400.0	9.67	243.44	4,345.6	-293.5	-587.2	656.5	0.00	0.00	0.00	0.00
4,500.0	9.67	243.44	4,444.2	-301.0	-602.2	673.3	0.00	0.00	0.00	0.00
4,600.0	9.67	243.44	4,542.8	-308.6	-617.2	690.0	0.00	0.00	0.00	0.00
4,700.0	9.67	243.44	4,641.4	-316.1	-632.2	706.8	0.00	0.00	0.00	0.00
4,800.0	9.67	243.44	4,740.0	-323.6	-647.3	723.6	0.00	0.00	0.00	0.00
4,900.0	9.67	243.44	4,838.5	-331.1	-662.3	740.4	0.00	0.00	0.00	0.00
5,000.0	9.67	243.44	4,937.1	-338.6	-677.3	757.2	0.00	0.00	0.00	0.00
<b>Hold Angle at 9.67°</b>										
5,100.0	9.67	243.44	5,035.7	-346.1	-692.3	774.0	0.00	0.00	0.00	0.00

**HALLIBURTON****Plan Report for Tumbleweed 18-9 - Plan #1 - Plan #1 Proposal**

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)	Toothface Azimuth (°)
5,200.0	9.67	243.44	5,134.3	-353.6	-707.3	790.8	0.00	0.00	0.00	0.00
5,300.0	9.67	243.44	5,232.9	-361.1	-722.4	807.6	0.00	0.00	0.00	0.00
5,400.0	9.67	243.44	5,331.4	-368.6	-737.4	824.4	0.00	0.00	0.00	0.00
5,500.0	9.67	243.44	5,430.0	-376.1	-752.4	841.2	0.00	0.00	0.00	0.00
5,600.0	9.67	243.44	5,528.6	-383.7	-767.4	858.0	0.00	0.00	0.00	0.00
5,700.0	9.67	243.44	5,627.2	-391.2	-782.5	874.8	0.00	0.00	0.00	0.00
5,800.0	9.67	243.44	5,725.7	-398.7	-797.5	891.6	0.00	0.00	0.00	0.00
5,814.5	9.67	243.44	5,740.0	-399.8	-799.6	894.0	0.00	0.00	0.00	0.00
<b>Castlegate</b>										
5,900.0	9.67	243.44	5,824.3	-406.2	-812.5	908.4	0.00	0.00	0.00	0.00
6,000.0	9.67	243.44	5,922.9	-413.7	-827.5	925.2	0.00	0.00	0.00	0.00
6,057.9	9.67	243.44	5,980.0	-418.0	-836.2	934.9	0.00	0.00	0.00	0.00
<b>Mancos</b>										
6,100.0	9.67	243.44	6,021.5	-421.2	-842.5	942.0	0.00	0.00	0.00	0.00
6,200.0	9.67	243.44	6,120.1	-428.7	-857.6	958.8	0.00	0.00	0.00	0.00
6,300.0	9.67	243.44	6,218.6	-436.2	-872.6	975.5	0.00	0.00	0.00	0.00
6,400.0	9.67	243.44	6,317.2	-443.7	-887.6	992.3	0.00	0.00	0.00	0.00
6,500.0	9.67	243.44	6,415.8	-451.2	-902.6	1,009.1	0.00	0.00	0.00	0.00
6,600.0	9.67	243.44	6,514.4	-458.8	-917.6	1,025.9	0.00	0.00	0.00	0.00
6,700.0	9.67	243.44	6,613.0	-466.3	-932.7	1,042.7	0.00	0.00	0.00	0.00
6,800.0	9.67	243.44	6,711.5	-473.8	-947.7	1,059.5	0.00	0.00	0.00	0.00
6,900.0	9.67	243.44	6,810.1	-481.3	-962.7	1,076.3	0.00	0.00	0.00	0.00
7,000.0	9.67	243.44	6,908.7	-488.8	-977.7	1,093.1	0.00	0.00	0.00	0.00
7,100.0	9.67	243.44	7,007.3	-496.3	-992.8	1,109.9	0.00	0.00	0.00	0.00
7,200.0	9.67	243.44	7,105.9	-503.8	-1,007.8	1,126.7	0.00	0.00	0.00	0.00
7,300.0	9.67	243.44	7,204.4	-511.3	-1,022.8	1,143.5	0.00	0.00	0.00	0.00
7,400.0	9.67	243.44	7,303.0	-518.8	-1,037.8	1,160.3	0.00	0.00	0.00	0.00
7,500.0	9.67	243.44	7,401.6	-526.3	-1,052.8	1,177.1	0.00	0.00	0.00	0.00
7,600.0	9.67	243.44	7,500.2	-533.8	-1,067.9	1,193.9	0.00	0.00	0.00	0.00
7,700.0	9.67	243.44	7,598.8	-541.4	-1,082.9	1,210.7	0.00	0.00	0.00	0.00
7,800.0	9.67	243.44	7,697.3	-548.9	-1,097.9	1,227.5	0.00	0.00	0.00	0.00
7,900.0	9.67	243.44	7,795.9	-556.4	-1,112.9	1,244.3	0.00	0.00	0.00	0.00
8,000.0	9.67	243.44	7,894.5	-563.9	-1,127.9	1,261.0	0.00	0.00	0.00	0.00
8,100.0	9.67	243.44	7,993.1	-571.4	-1,143.0	1,277.8	0.00	0.00	0.00	0.00
8,200.0	9.67	243.44	8,091.7	-578.9	-1,158.0	1,294.6	0.00	0.00	0.00	0.00
8,300.0	9.67	243.44	8,190.2	-586.4	-1,173.0	1,311.4	0.00	0.00	0.00	0.00
8,400.0	9.67	243.44	8,288.8	-593.9	-1,188.0	1,328.2	0.00	0.00	0.00	0.00
8,500.0	9.67	243.44	8,387.4	-601.4	-1,203.1	1,345.0	0.00	0.00	0.00	0.00
8,600.0	9.67	243.44	8,486.0	-608.9	-1,218.1	1,361.8	0.00	0.00	0.00	0.00
8,700.0	9.67	243.44	8,584.6	-616.5	-1,233.1	1,378.6	0.00	0.00	0.00	0.00
8,800.0	9.67	243.44	8,683.1	-624.0	-1,248.1	1,395.4	0.00	0.00	0.00	0.00
8,900.0	9.67	243.44	8,781.7	-631.5	-1,263.1	1,412.2	0.00	0.00	0.00	0.00
9,000.0	9.67	243.44	8,880.3	-639.0	-1,278.2	1,429.0	0.00	0.00	0.00	0.00
9,100.0	9.67	243.44	8,978.9	-646.5	-1,293.2	1,445.8	0.00	0.00	0.00	0.00
9,200.0	9.67	243.44	9,077.5	-654.0	-1,308.2	1,462.6	0.00	0.00	0.00	0.00
9,300.0	9.67	243.44	9,176.0	-661.5	-1,323.2	1,479.4	0.00	0.00	0.00	0.00
9,323.2	9.67	243.44	9,198.9	-663.2	-1,326.7	1,483.3	0.00	0.00	0.00	0.00
<b>Begin Drop to Vertical 9323.2ft</b>										
9,400.0	8.13	243.44	9,274.8	-668.6	-1,337.3	1,495.1	2.00	-2.00	0.00	180.00
9,500.0	6.13	243.44	9,374.0	-674.1	-1,348.4	1,507.6	2.00	-2.00	0.00	180.00
9,550.0	5.13	243.44	9,423.8	-676.3	-1,352.8	1,512.5	2.00	-2.00	0.00	180.00
<b>Drop Rate = 2.00°/100ft</b>										
9,600.0	4.13	243.44	9,473.6	-678.1	-1,356.4	1,516.5	2.00	-2.00	0.00	-180.00
9,700.0	2.13	243.44	9,573.4	-680.6	-1,361.3	1,522.0	2.00	-2.00	0.00	180.00
9,800.0	0.13	243.44	9,673.4	-681.4	-1,363.1	1,523.9	2.00	-2.00	0.00	-180.00
9,806.6	0.00	243.44	9,680.0	-681.4	-1,363.1	1,523.9	2.00	-2.00	0.00	180.00
<b>End Drop at 9806.6ft - Dakota Silt</b>										
9,900.0	0.00	243.44	9,773.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
10,000.0	0.00	243.44	9,873.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44

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# HALLIBURTON

## Plan Report for Tumbleweed 18-9 - Plan #1 - Plan #1 Proposal

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)	Tooface Azimuth (°)
10,026.6	0.00	243.44	9,900.0	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
<b>Cedar Mountain</b>										
10,100.0	0.00	243.44	9,973.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
10,200.0	0.00	243.44	10,073.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
10,300.0	0.00	243.44	10,173.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
10,400.0	0.00	243.44	10,273.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
10,500.0	0.00	243.44	10,373.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
10,600.0	0.00	243.44	10,473.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
10,700.0	0.00	243.44	10,573.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
10,800.0	0.00	243.44	10,673.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
10,836.6	0.00	243.44	10,710.0	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
<b>Entrada</b>										
10,900.0	0.00	243.44	10,773.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
11,000.0	0.00	243.44	10,873.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
11,100.0	0.00	243.44	10,973.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
11,200.0	0.00	243.44	11,073.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
11,296.6	0.00	243.44	11,170.0	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
<b>Wingate</b>										
11,300.0	0.00	243.44	11,173.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
11,400.0	0.00	243.44	11,273.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
11,500.0	0.00	243.44	11,373.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
11,600.0	0.00	243.44	11,473.4	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44
11,626.6	0.00	243.44	11,500.0	-681.4	-1,363.1	1,523.9	0.00	0.00	0.00	243.44

Total Depth = 11626.6ft - Tumbleweed 18-9 BH Target1

### Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
250.0	250.0	0.0	0.0	Kickoff at 250.0ft
500.0	499.7	-4.9	-9.8	Build Rate = 2.00°/100ft
733.4	731.1	-18.2	-36.4	End of Build at 733.4
5,000.0	4,937.1	-338.6	-677.3	Hold Angle at 9.67°
9,323.2	9,198.9	-663.3	-1,326.7	Begin Drop to Vertical 9323.2ft
9,550.0	9,423.8	-676.3	-1,352.8	Drop Rate = 2.00°/100ft
9,806.6	9,680.0	-681.4	-1,363.1	End Drop at 9806.6ft
11,626.6	11,500.0	-681.4	-1,363.1	Total Depth = 11626.6ft

### Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (ft)	+E/-W (ft)	Start TVD (ft)
Target	Tumbleweed 18-9 BH Target1	243.44	Slot	0.0	0.0	0.0

### Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
Tumbleweed 18-9 BH Target1	11,500.0	-681.4	-1,363.1	Circle

**HALLIBURTON**

**North Reference Sheet for Sec. 18-T15S-R21E - Tumbleweed 18-9 - Plan #1**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.  
 Vertical Depths are relative to RKB @ 7245.0ft (Original Well Elev). Northing and Easting are relative to Tumbleweed 18-9  
 Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)  
 Central Meridian is -111.50°, Longitude Origin: 0° 0' 0.000 E°, Latitude Origin: 40° 39' 0.000 N°  
 False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99991480

Grid Coordinates of Well: 434,319.63 ft N, 2,535,598.99 ft E  
 Geographical Coordinates of Well: 39° 30' 36.61" N, 109° 36' 05.39" W  
 Grid Convergence at Surface is: 1.22°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,626.58ft  
 the Bottom Hole Displacement is 1,523.95ft in the Direction of 243.44° (Grid).

Magnetic Convergence at surface is -10.36° ( 1 June 2007, , BGGM2006)



Magnetic Model:	BGGM 2006
Date:	01-Jun-07
Declination:	11.57°
Inclination/Dip:	65.57°
Field Strength:	52433

Grid North is 1.22° East of True North (Grid Convergence)  
 Magnetic North is 11.57° East of True North (Magnetic Declination)  
 Magnetic North is 10.36° East of Grid North (Magnetic Convergence)

To convert a True Direction to a Grid Direction, Subtract 1.22°  
 To convert a Magnetic Direction to a True Direction, Add 11.57° East  
 To convert a Magnetic Direction to a Grid Direction, Add 10.36°

## SURFACE USE PLAN

### *Attachment for Permit to Drill*

**Name of Operator:** Stewart Petroleum Corporation  
**Address:** 475 17th St., Ste. 1250  
Denver, CO 80202  
**Well Location:** Tumbleweed #18-9  
SHL: 1,700' FSL & 660' FEL, NE/4 SE/4, Sec. 18-15S-21E  
BHL: 1,026' FSL, 2,023' FEL, SW/4 SE/4, Sec. 18-15S-21E  
Uintah County, UT

The dirt contractor will be provided with an approved copy of the surface use plan of operations before initiating construction.

An off-lease federal right-of-way is being requested with this application and is necessary for an access and pipeline corridor to the existing federal lease UTU-72059.

The BLM onsite inspection for the referenced well was conducted on Wednesday, April 11, 2007 at approximately 11:30 am. In attendance at the onsite inspections were the following individuals:

Karl Wright	Natural Resource Specialist	Bureau of Land Management – Vernal
Nate Packer	Natural Resource Specialist	Bureau of Land Management – Vernal
Brandon MacDonald	Wildlife Biologist	Bureau of Land Management – Vernal
Daryl Stewart	President	Stewart Petroleum Corporation
Phil Cowdery	Consultant	Vortex Flow LLC
Roger Miller	Consultant	Buckeye Inspection (Questar rep)
Lucas Kay	Surveyor	Uintah Engineering & Land Surveying
Josh Anderson	Surveyor Helper	Uintah Engineering & Land Surveying
Clint Hamilton	Foreman	Nations Oil Field Service
Jesse Hamilton	Foreman	Nations Oil Field Service
Shane Campbell	Foreman	Scamp Excavation
Don Hamilton	Agent	Buys & Associates, Inc.

1. Existing Roads:

- a. The proposed well site is located approximately 40.1 miles southeast of Ouray, Utah.
- b. The use of roads under State and County Road Department maintenance are necessary to access the Tumbleweed Unit. However, an encroachment permit is not anticipated since no upgrades to the State or County Road system are proposed at this time.
- c. All existing roads will be maintained and kept in good repair during all phases of operation.
- e. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.
- f. An off-lease federal right-of-way is necessary for the off-lease portions of the access road and pipeline corridor trending east from the lease line of UTU-72059. An off-lease federal right-of-way grant is being requested with this application.

2. Planned Access Roads:

- a. From the existing gravel surfaced Uintah County maintained Winter Ridge Road ( XXX), the recently constructed Questar Pipeline corridor trending west will be upgraded for approximately 0.8 miles to a point where new access will begin.
- b. From the Questar Pipeline proposed for upgrade a new access is proposed trending northwest approximately 0.6 miles. The access spur consists of mostly new disturbance and crosses no significant drainages.
- c. A road design plan is not anticipated at this time.
- d. The proposed access road will consist of a 24' travel surface within a 30' disturbed area across entirely BLM managed lands.
- e. BLM approval to upgrade the existing access corridor and construct the new access corridor is requested with this application.
- f. A maximum grade of 10% will be maintained throughout the project.
- g. No turnouts are proposed.
- h. No low water crossings and one 24" culvert at the stock pond outflow is anticipated. Additional culverts and adequate drainage structures will be incorporated into the remaining road.
- i. No surfacing material will come from federal or Indian lands.
- j. No gates or cattle guards are anticipated at this time.
- k. Surface disturbance and vehicular travel will be limited to the approved location access road.
- l. All access roads and surface disturbing activities will conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).
- m. The operator will be responsible for all maintenance of the access road including drainage structures.

3. Location of Existing Wells:

- a. No existing wells are located within a one mile radius of the proposed well.

4. Location of Production Facilities:

- a. All permanent structures will be painted a flat, non-reflective Olive Black to match the standard environmental colors. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- b. Site security guidelines identified in 43 CFR 3163.7-5 and Onshore Oil and Gas Order No. 3 will be adhered to.
- c. A gas meter run will be constructed and located on lease within 500 feet of the wellhead.

Meter runs will be housed and/or fenced. All gas production and measurement shall comply with the provisions of 43 CFR 3162. 7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.

- d. A two-tank battery will be constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All liquid hydrocarbons production and measurement shall conform to the provisions of 43 CFR 3162.7-3 and Onshore Oil and Gas Order No. 4 and Onshore Oil and Gas Order No. 5 for natural gas production and measurement.
- e. Any necessary pits will be properly fenced to prevent any wildlife and livestock entry.
- f. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic. The road will be maintained in a safe useable condition.
- g. The site will require periodic maintenance to ensure that drainages are kept open and free of debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.
- h. A gas pipeline is associated with this application and is being applied for at this time. The proposed gas pipeline corridor will leave the northeast side of the well site and traverse 3,190' southeast to a new tap along the Questar Pipeline.
- i. The new gas pipeline will be an 8" or less steel buried pipeline within a 30' wide utility corridor. The use of the proposed well sites and existing access roads will facilitate the staging of the pipeline construction. A new pipeline length of approximately 3,190' is associated with this well.
- j. Stewart Petroleum Corporation intends on connecting the pipeline together utilizing conventional welding technology.

5. Location and Type of Water Supply:

- a. The location and type of water supply has been addressed as number 11 within the previous drilling plan information.

6. Source of Construction Material:

- a. The use of materials will conform to 43 CFR 3610.2-3.
- b. No construction materials will be removed from BLM lands.
- c. If any gravel is used, it will be obtained from a state approved gravel pit.

7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application will be contained and disposed of utilizing approved facilities.
- b. Drill cuttings will be contained and buried on site.
- c. The reserve pit will be located outboard of the location and along the southeast side of the pad.
- d. The reserve pit will be constructed so as not to leak, break, or allow any discharge.
- e. The reserve pit will be lined with 12 mil minimum thickness plastic nylon reinforced liner material. The liner will overlay a felt liner pad only if rock is encountered during excavation. The pit liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operation.
- f. The reserve pit has been located in cut material. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. After the reserve pit has dried, all areas not needed for production will be rehabilitated.
- g. No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well.
- h. Trash will be contained in a trash cage and hauled away to an approved disposal site as necessary but no later than at the completion of drilling operations. The contents of the trash container will be hauled off periodically to the approved Uintah County Landfill near Vernal, Utah.
- i. Produced fluids from the well other than water will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas, salt water or other produced fluids will be cleaned up and removed.
- j. After initial clean-up, a 400 bbl tank will be installed to contain produced waste water. This water will be transported from the tank to an approved disposal well for disposal near Roosevelt, Utah.
- k. Any salts and/or chemicals, which are an integral part of the drilling system, will be disposed of in the same manner as the drilling fluid.
- l. Sanitary facilities will be on site at all times during operations. Sewage will be placed in a portable chemical toilet and the toilet replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

8. Ancillary Facilities:

- a. A complete drilling crew camp is being proposed with this application and will be located central to the project area. A central crew camp will be analyzed in detail within the associated Environmental Assessment.
- b. A small compressor may be temporary located on the well site once production is achieved and will compress the gas to Questar Pipeline pressure for a temporary period until a permanent compressor station can be constructed within the Tumbleweed Unit.

9. Well Site Layout: (See Exhibit B)

- a. The well will be properly identified in accordance with 43 CFR 3162.6.
- b. Access to the well pad will be from the northeast.
- c. The pad and road designs are consistent with BLM specification
- d. A pre-construction meeting with responsible company representative, contractors and the BLM will be conducted at the project site prior to commencement of surface-disturbing activities. The pad and road will be construction-staked prior to this meeting.
- e. The pad has been staked at its maximum size of 270' X 375'; however it will be constructed smaller if possible, depending upon rig availability. Should the layout change, this application will be amended and approved utilizing a sundry notice.
- f. All surface disturbing activities, will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.
- g. All cut and fill slopes will be such that stability can be maintained for the life of the activity.
- h. Diversion ditches will be constructed as shown around the well site to prevent surface waters from entering the well site area.
- i. The site surface will be graded to drain away from the pit to avoid pit spillage during large storm events.
- j. The stockpiled topsoil (first 6 inches or maximum available) will be stored in a windrow on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.
- k. Pits will remain fenced until site cleanup.
- l. The blooie line will be located at least 100 feet from the well head.
- m. Water injection may be implemented if necessary to minimize the amount of fugitive dust.

10. Plans for Restoration of the Surface (Interim Reclamation and Final Reclamation):

- a. Site reclamation for a producing well will be accomplished for portions of the site not required for the continued operation of the well.
- b. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. Once the reserve pit is dry, the plastic nylon reinforced liner shall be torn and

perforated before backfilling of the reserve pit. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximate natural contours.

- c. Following BLM published Best Management Practices the interim reclamation will be completed within 90 days of completion of the well to reestablish vegetation, reduce dust and erosion and compliment the visual resources of the area.
  - a. All equipment and debris will be removed from the area proposed for interim reclamation and the pit area will be backfilled and re-contoured.
  - b. The area outside of the rig anchors and other disturbed areas not needed for the operation of the well will be re-contoured to blend with the surrounding area and reseeded at 20 lbs /acre with the following native grass seeds:
    - 1. Blue Bunch Wheat Grass (10 lbs / acre)
    - 2. Rice Grass (10 lbs / acre)
  - c. Reclaimed areas receiving incidental disturbance during the life of the producing well will be re-contoured and reseeded as soon as practical.
- d. The Operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites, or other applicable facilities by spraying or mechanical removal. A list of noxious weeds may be obtained from the BLM or the appropriate County Extension Office. On BLM administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides, pesticides or possibly hazardous chemicals.
- e. Prior to final abandonment of the site, all disturbed areas, including the access road, will be scarified and left with a rough surface. The site will then be seeded and/or planted as prescribed by the BLM. The BLM recommended seed mix will be detailed within their approval documents.

11. Surface and Mineral Ownership:

- a. Surface Ownership – Federal under the management of the Bureau of Land Management - Vernal Field Office, 170 South 500 East, Vernal, Utah 84078; 435-781-4400.
- b. Mineral Ownership – Federal under the management of the Bureau of Land Management - Vernal Field Office, 170 South 500 East, Vernal, Utah 84078; 435-781-4400.

12. Other Information:

- a. Montgomery Archaeological Consultants has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Montgomery Archaeological Consultants under the company name Bill Barrett Corporation.
- b. Our understanding of the results of the onsite inspection are:
  - a. No Threatened and Endangered flora and fauna species were found during the onsite inspection.
  - b. No drainage crossings that require additional State or Federal approval are being crossed.
  - c. The well site is located within an identified MSO polygon. Two years of MSO survey have been completed during the 2005 and 2006 field seasons with no MSO being identified. Additional survey work is not anticipated.

- d. The access road was relocated from that submitted in the Notice of Staking to avoid a known Sage Grouse Lek in the area. Additional survey work is not anticipated.
- e. The proposed location, access road and pipeline corridor was reviewed for raptors and cleared during the onsite visit with no additional survey being required.
- f. Low water crossings will be reinforced to prevent excessive rutting and erosion.
- g. Pinyon-Juniper slash and stumps will either be piled up or mulched for use in reclamation activities.
- h. Seed used for reclamation will be conditioned.

13. Operator's Representative and Certification

<u>Title</u>	<u>Name</u>	<u>Office Phone</u>
Company Representative (Denver)	Daryl Stewart	1-303-799-1922
Agent	Don Hamilton	1-435-719-2018

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 currently exists; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Stewart Petroleum Corporation and its contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under Stewart Petroleum Corporation's BLM bond. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

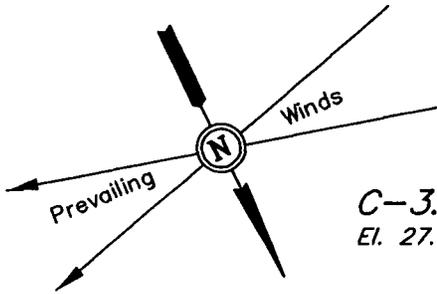
Signature: Don Hamilton Date: 5-10-07

# STEWART PETROLEUM CORPORATION

## LOCATION LAYOUT FOR

TUMBLEWEED #18-9  
SECTION 18, T15S, R21E, S.L.B.&M.

1700' FSL 660' FEL



C-3.2'  
El. 27.4' 6

7 C-1.6'  
El. 25.8'

F-5.7'  
El. 18.5'

Sta. 3+75

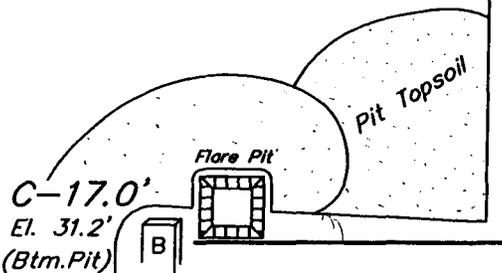
SCALE: 1" = 50'  
DATE: 02-13-07  
DRAWN BY: C.H.

**NOTE:**  
Flare Pit is to be located a min. of 100' from the Well Head.

Approx. Top of Cut Slope

Round Corners as Needed

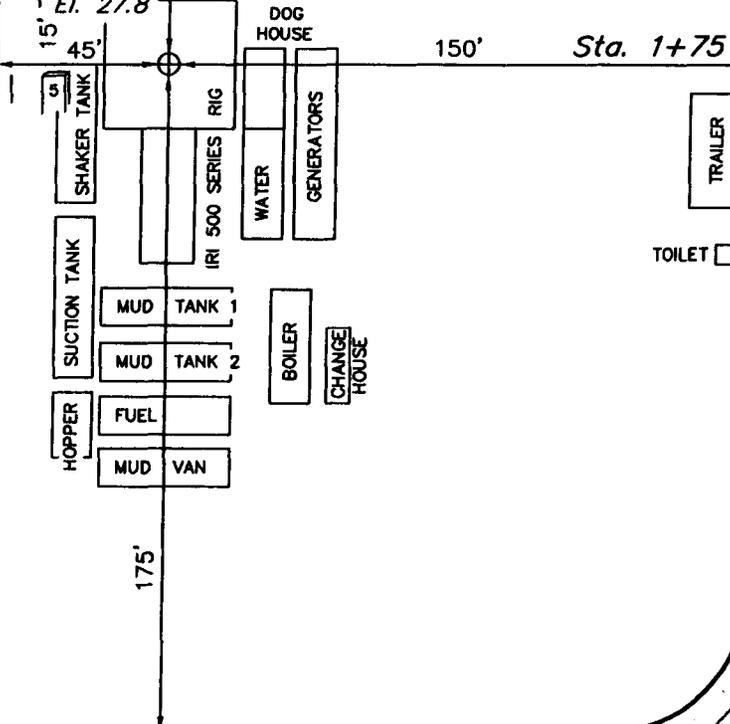
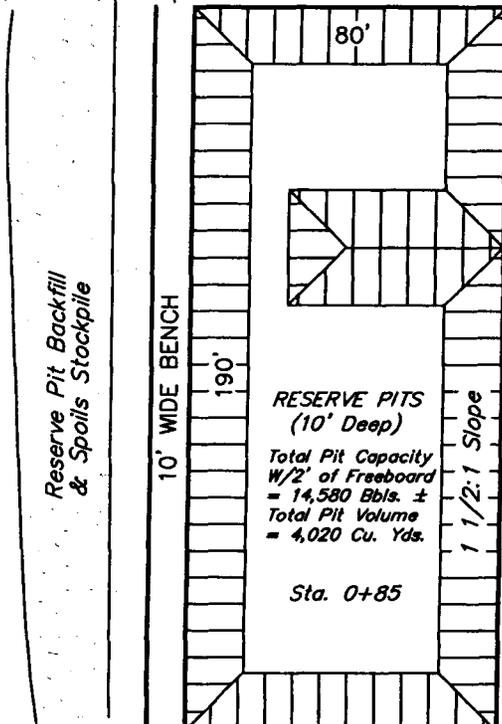
Approx. Toe of Fill Slope



C-17.0'  
El. 31.2'  
(Btm. Pit)

C-3.6'  
El. 27.8'

C-1.0'  
El. 25.2'



F-5.1'  
El. 19.1'

Sta. 1+75

C-15.8'  
El. 30.0'  
(Btm. Pit)

C-2.5'  
El. 26.7'

C-0.7'  
El. 24.9'

Sta. 0+00

2 F-5.5'  
El. 18.7'

Proposed Access Road

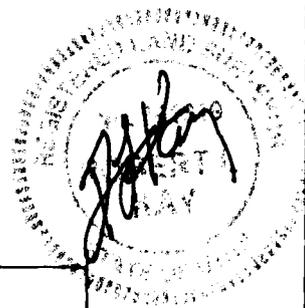
Elev. Ungraded Ground at Location Stake = 7225.2'  
Elev. Graded Ground at Location Stake = 7224.2'

UINTAH ENGINEERING & LAND SURVEYING  
86 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

# STEWART PETROLEUM CORPORATION

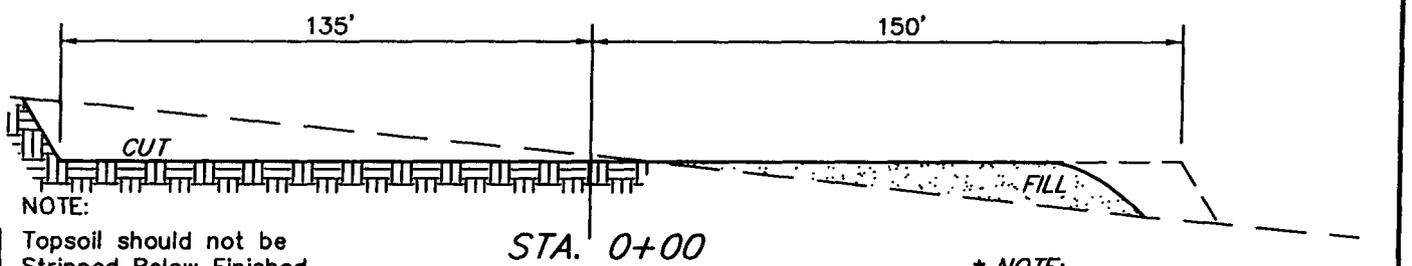
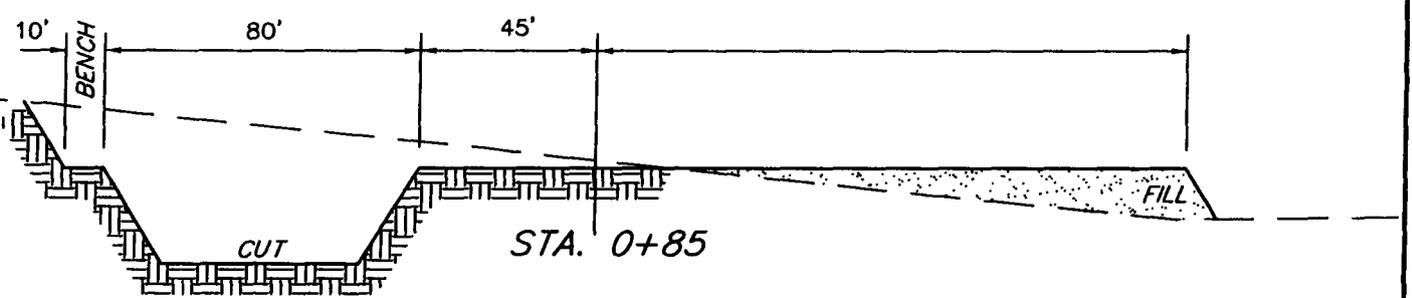
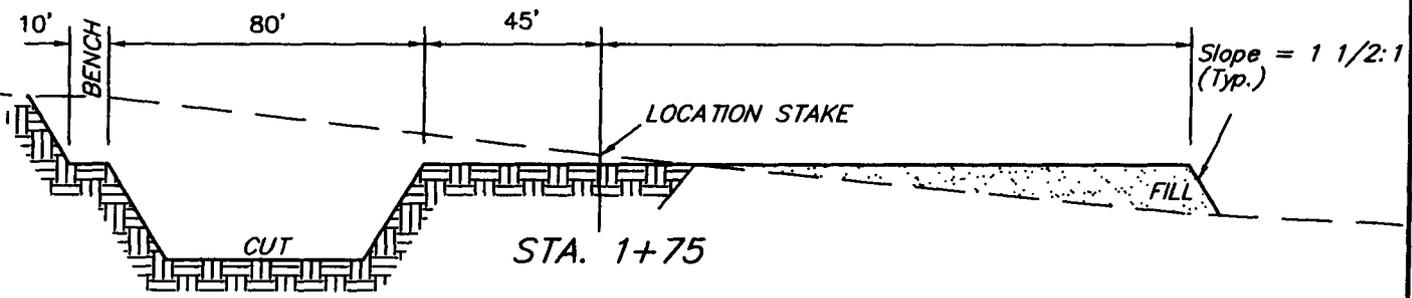
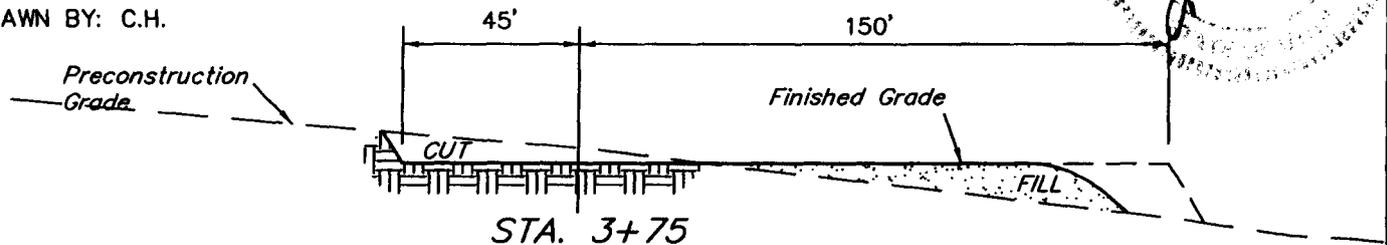
## TYPICAL CROSS SECTIONS FOR

TUMBLEWEED #18-9  
SECTION 18, T15S, R21E, S.L.B.&M.  
1700' FSL 660' FEL



1" = 20'  
X-Section Scale  
1" = 50'

DATE: 02-13-07  
DRAWN BY: C.H.



NOTE:  
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

\* NOTE:  
FILL QUANTITY INCLUDES 5% FOR COMPACTION

### APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,920 Cu. Yds.
Remaining Location	= 8,470 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 10,390 CU.YDS.</b>
<b>FILL</b>	<b>= 6,460 CU.YDS.</b>

EXCESS MATERIAL	= 3,930 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,930 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

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85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

# STEWART PETROLEUM CORPORATION

TUMBLEWEED #18-9  
LOCATED IN UTAH COUNTY, UTAH  
SECTION 18, T15S, R21E, S.L.B.&M.

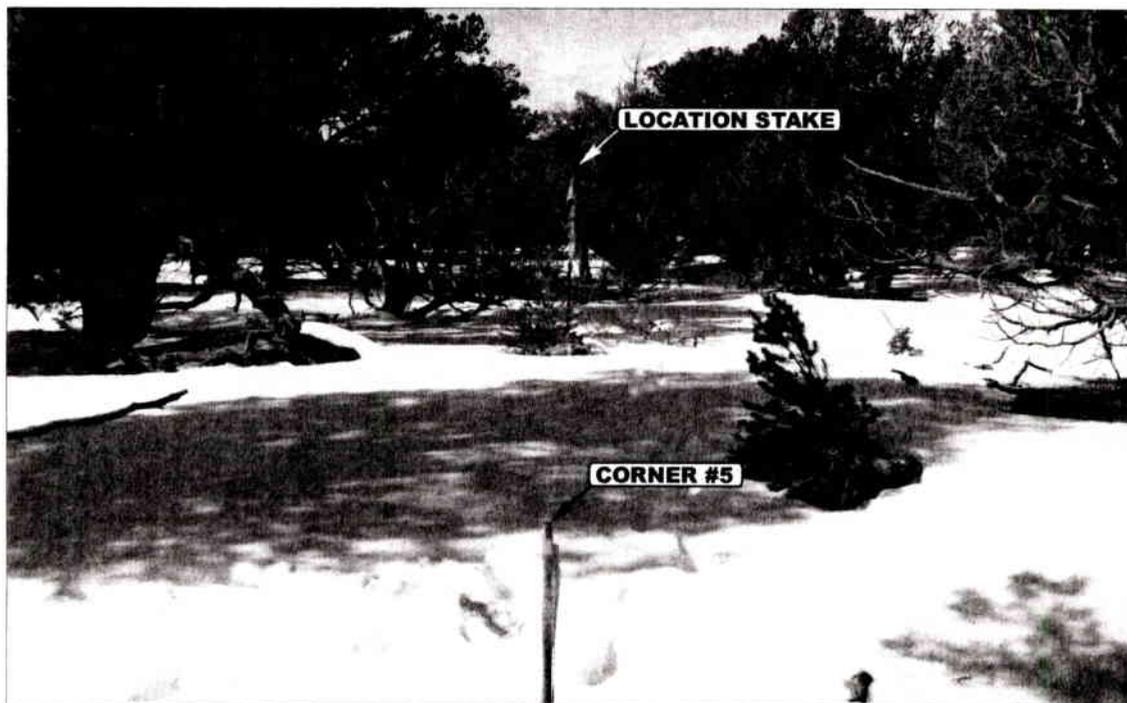


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY

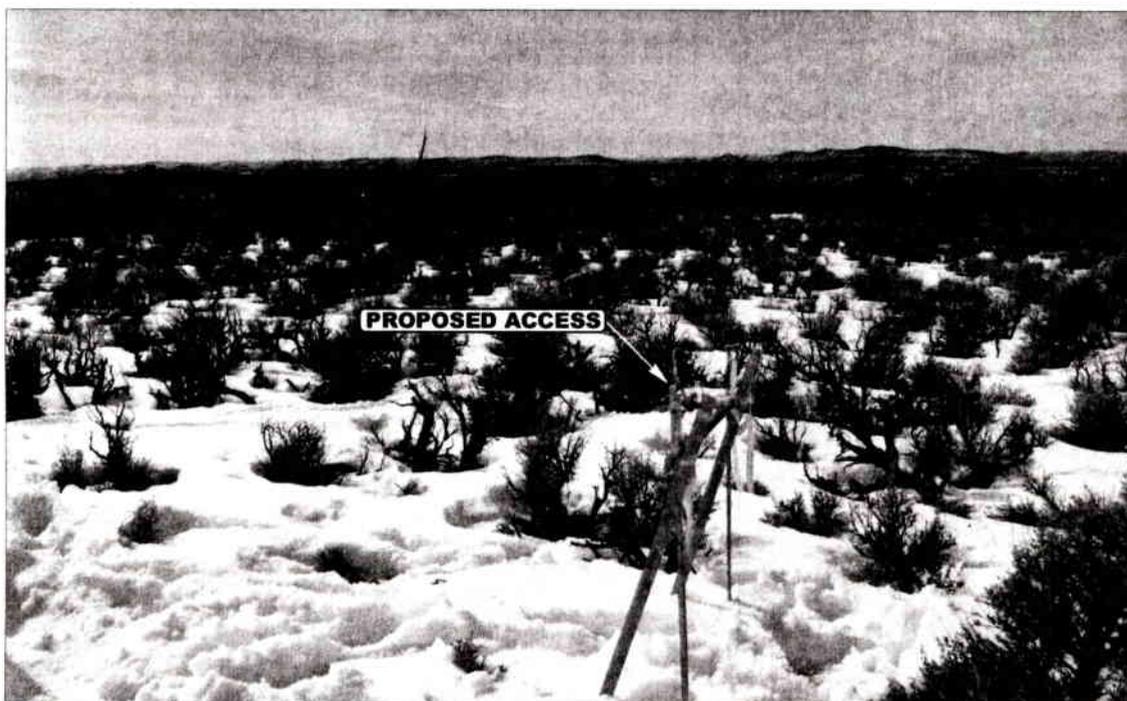


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: WESTERLY



- Since 1964 -

**ELS** Utah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	02	08	07	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: B.H.	DRAWN BY: L.K.		REVISED: 00-00-00	



**PROPOSED LOCATION:  
TUMBLEWEED #18-9**

**SEE TOPO "B"**

**T15S  
T16S**

**11.0 MI. +/-**

**OURAY 63.9 MI. +/-  
SEEP RIDGE ROAD 8.9 MI. +/-**

**LEGEND:**

⊙ PROPOSED LOCATION



**STEWART PETROLEUM CORPORATION**

**TUMBLEWEED #18-9  
SECTION 18, T15S, R21E, S.L.B.&M.  
1700' FSL 660' FEL**



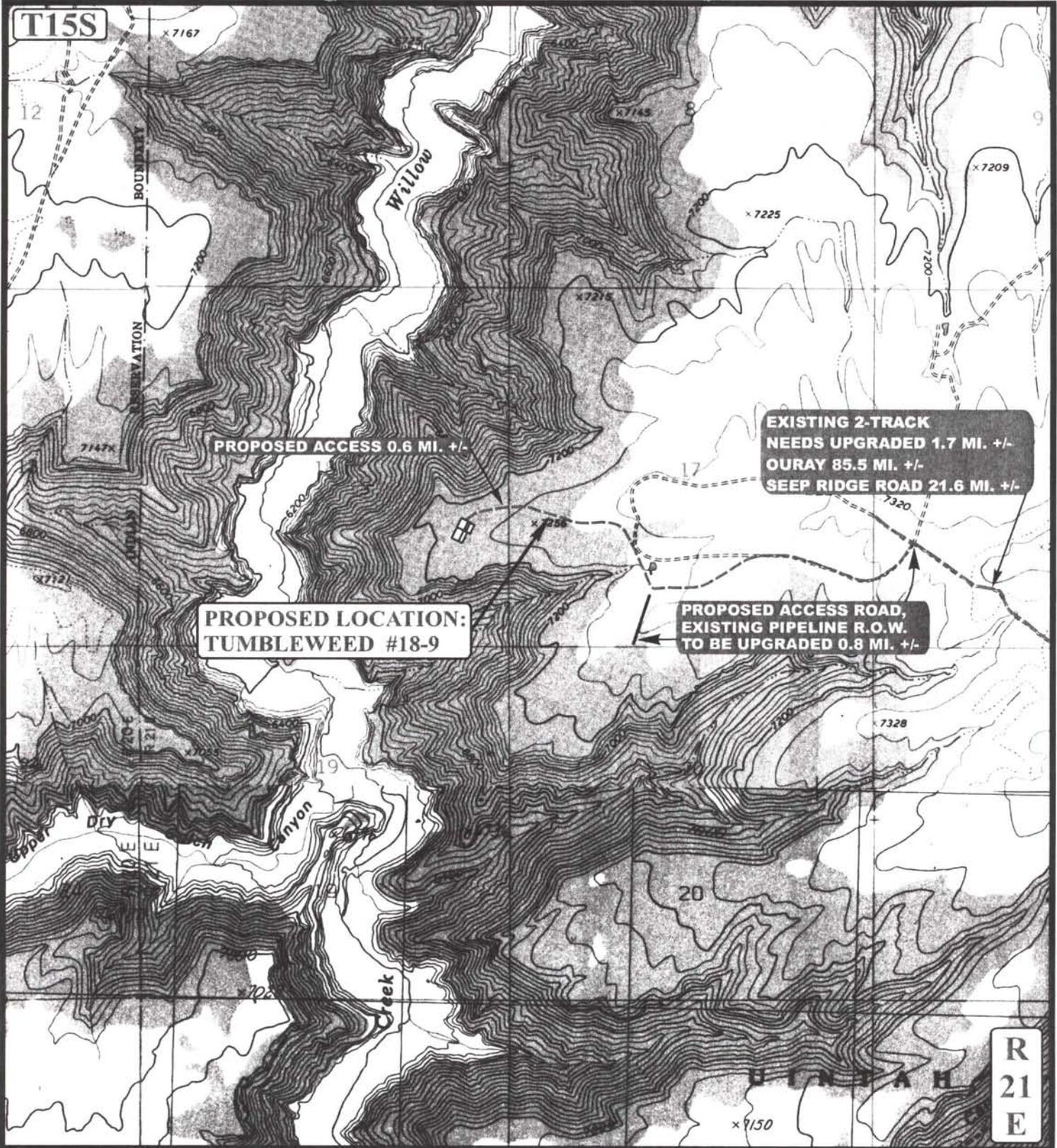
**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**02 08 07**  
MONTH DAY YEAR

**SCALE: 1:100,000 | DRAWN BY: L.K. | REVISED: 04-16-07**





**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD
-  EXISTING 2-TRACK NEEDS UPGRADED



Utah Engineering & Land Surveying  
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 (435) 789-1017 \* FAX (435) 789-1813

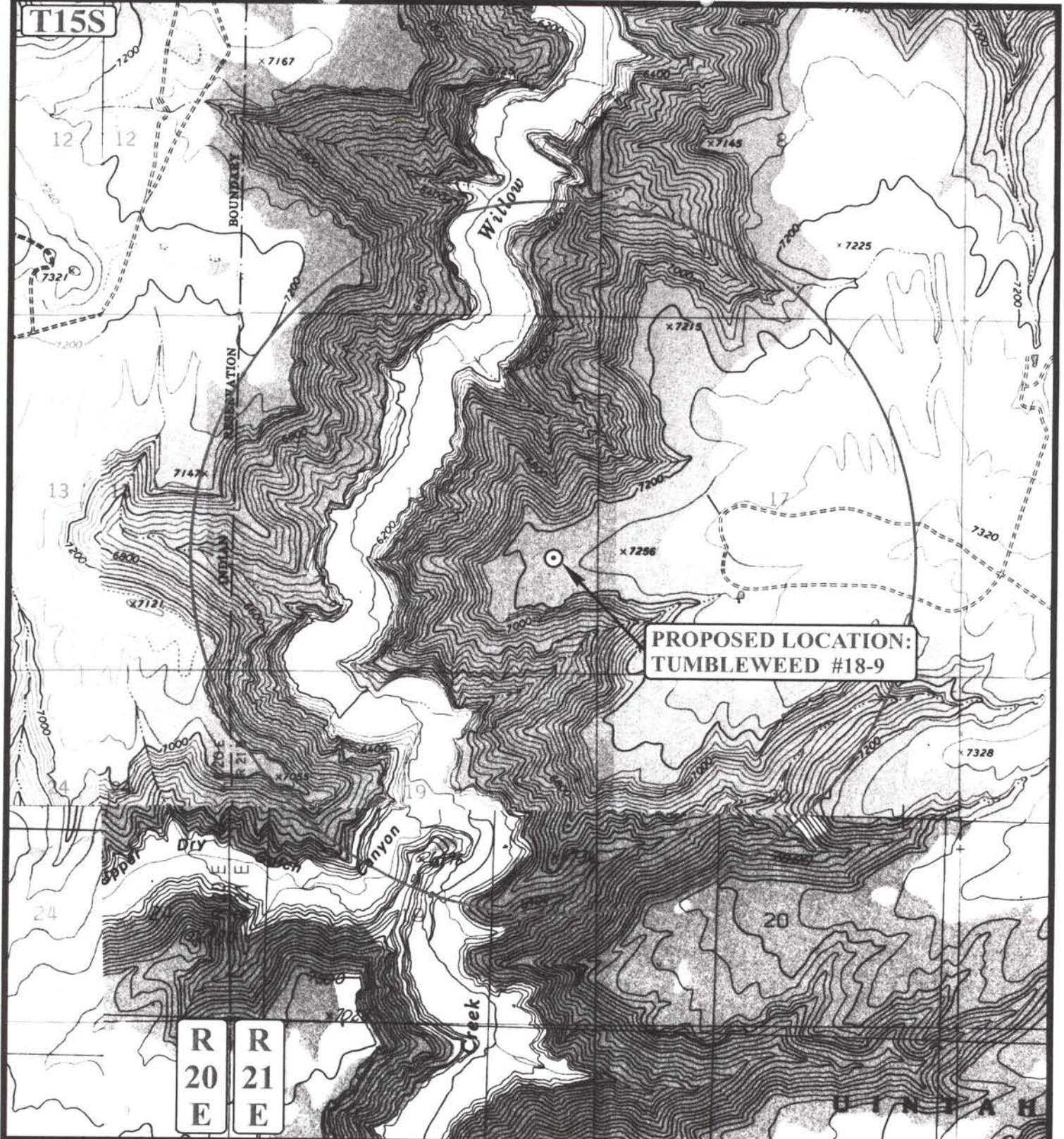


**STEWART PETROLEUM CORPORATION**

**TUMBLEWEED #18-9**  
**SECTION 18, T15S, R21E, S.L.B.&M.**  
**1700' FSL 660' FEL**

TOPOGRAPHIC	02	08	07
MAP	MONTH	DAY	YEAR
SCALE: 1" = 2000'	DRAWN BY: L.K.		REVISED: 04-16-07





**LEGEND:**

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ⊗ WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



**STEWART PETROLEUM CORPORATION**

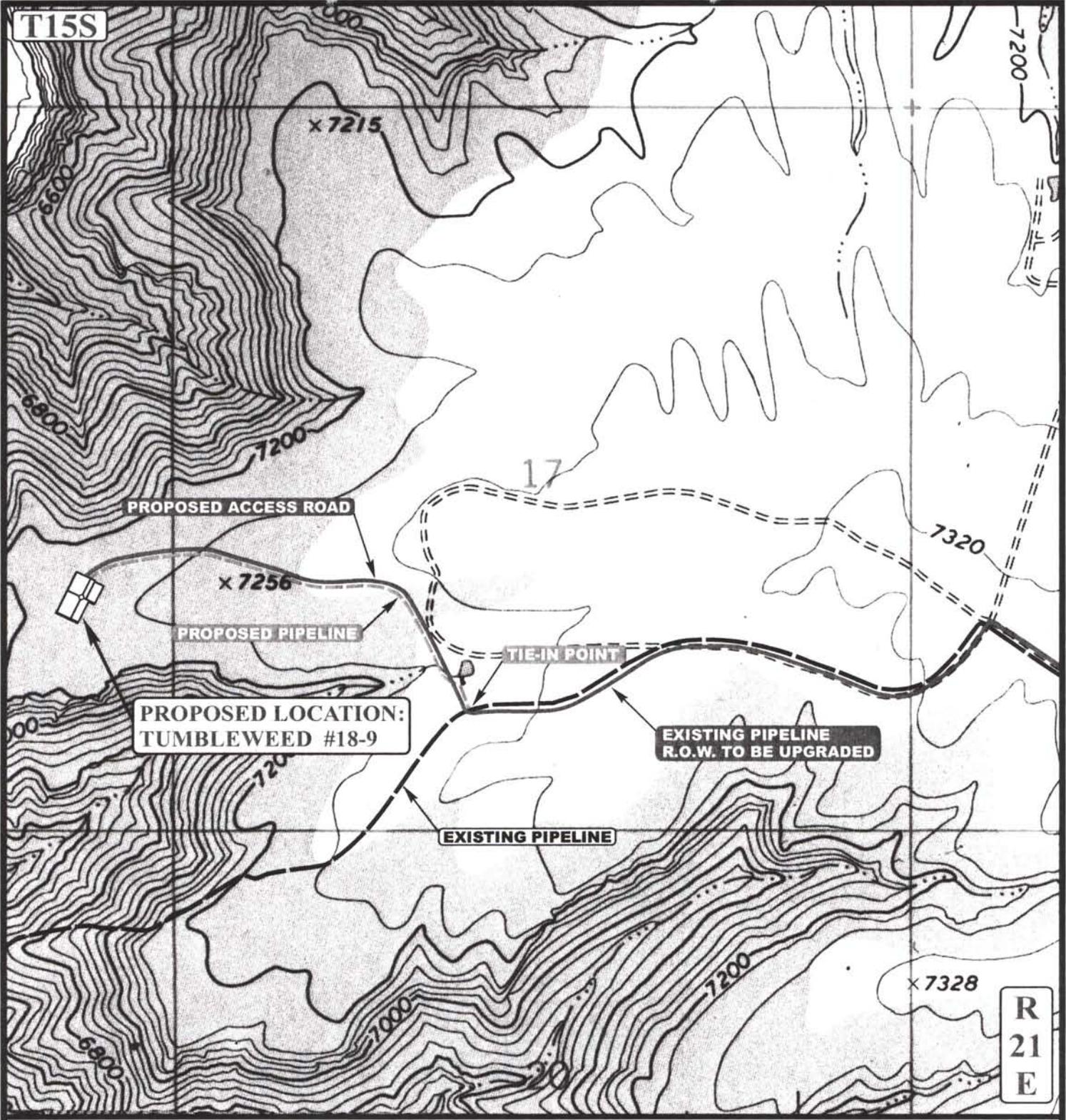
**TUMBLEWEED #18-9**  
**SECTION 18, T15S, R21E, S.L.B.&M.**  
**1700' FSL 660' FEL**



**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP**  
 02 08 07  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: L.K. REVISED: 00-00-00





APPROXIMATE TOTAL PIPELINE DISTANCE = 3,190' +/-

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)



**STEWART PETROLEUM CORPORATION**

**TUMBLEWEED #18-9**  
**SECTION 18, T15S, R21E, S.L.B.&M.**  
**1700' FSL 660' FEL**



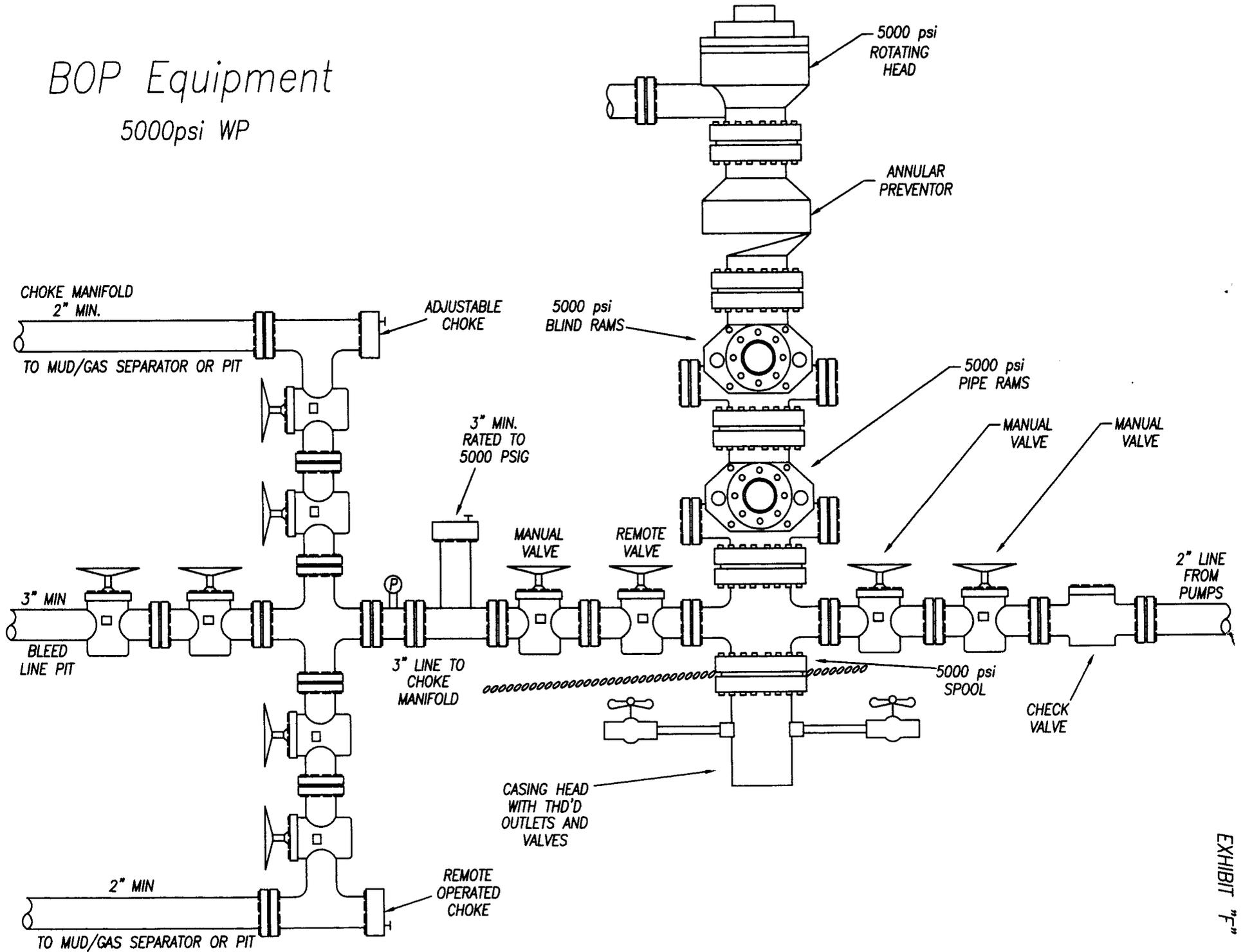
**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC	02	08	07
MAP	MONTH	DAY	YEAR
SCALE: 1" = 1000'	DRAWN BY: L.K.		REVISED: 04-16-07



# BOP Equipment

5000psi WP



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 05/11/2007

API NO. ASSIGNED: 43-047-39299

WELL NAME: TUMBLEWEED 18-9  
 OPERATOR: STEWART PETROLEUM CORP ( N3145 )  
 CONTACT: DON HAMILTON

PHONE NUMBER: 303-799-1922

PROPOSED LOCATION:

*SWSE*

NESE 18 150S 210E  
 SURFACE: 1700 FSL 0660 FEL  
 BOTTOM: 1026 FSL 2023 FEL  
 COUNTY: UINTAH  
 LATITUDE: 39.51039 LONGITUDE: -109.6015  
 UTM SURF EASTINGS: 620226 NORTHINGS: 4374142  
 FIELD NAME: UNDESIGNATED ( 2 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-72059  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: WINGT  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTB000251 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 49-1667 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: TUMBLEWEED
- 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:

STIPULATIONS:

*1- Federal Approval*  
*2- Spacing Strip*

T15S R20E

T15S R21E

AT ROCK FIELD

TUMBLEWEED UNIT

N HILL CREEK  
8-13-15-20

BHL  
8-13-15-20

18

TUMBLEWEED  
18-9

BHL  
18-9

OPERATOR: STEWART PETRO CORP (N3145)

SEC: 18 T.15S R. 21E

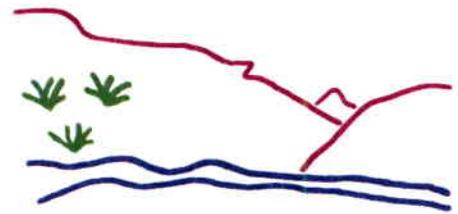
FIELD: UNDESIGNATED (002)

COUNTY: UINTAH

SPACING: R649-3-11 / DIRECTIONAL DRILLING

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



Utah Oil Gas and Mining



PREPARED BY: DIANA MASON  
DATE: 14-MAY-2007

- 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



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

May 30, 2007

Stewart Petroleum Corporation  
475 17th St, Suite 1250  
Denver, CO 80202

Re: Tumbleweed 18-9 Well, Surface Location 1700' FSL, 660' FEL, NE SE, Sec. 18, T. 15 South, R. 21 East, Bottom Location 1026' FSL, 2023' FEL, SW SE, Sec. 18, T. 15 South, R. 21 East, Uintah 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.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby 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 43-047-39299.

Sincerely,

Gil Hunt  
Associate Director

er  
Enclosures

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



**Operator:** Stewart Petroleum Corporation  
**Well Name & Number** Tumbleweed 18-9  
**API Number:** 43-047-39299  
**Lease:** UTU 72059

**Surface Location:** NE SE      **Sec.** 18      **T.** 15 South      **R.** 21 East  
**Bottom Location:** SW SE      **Sec.** 18      **T.** 15 South      **R.** 21 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 work (801) 538-5281      home (801) 733-0983

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

# 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)

June 4, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2007 Plan of Development Tumbleweed Unit  
Uintah County, Utah.

Our memo dated May 30, 2007 should have read:

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2007 within the Tumbleweed Unit, Uintah County, Utah.

API#	WELL NAME	LOCATION
------	-----------	----------

(Proposed PZ Wingate)

43-047-39299	Tumbleweed 18-9 Sec 18 T15S R21E 1700 FSL 0660 FEL	
	BHL Sec 18 T15S R21E 1026 FSL 2023 FEL	

Please be advised that the surface location of this well is located on **un**leased federal acreage.

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

/s/ Michael L. Coulthard

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

MCoulthard:mc:6-4-07

RECEIVED  
VERNAL FIELD OFFICE

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
MAY 11 2 27 PM '07

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. <b>UTU-72059</b>	
6. If Indian, Allottee or Tribe Name N/A	
7. If Unit or CA Agreement, Name and No. <b>Tumbleweed Unit</b>	
8. Lease Name and Well No. <b>Tumbleweed #18-9</b>	
9. API Well No. <b>43-0A-7.39299</b>	
1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER	10. Field and Pool, or Exploratory <b>undesigned</b>
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone	11. Sec., T. R. M. or Blk. and Survey or Area <b>Section 18, T15S, R21E, SLB&amp;M</b>
2. Name of Operator <b>Stewart Petroleum Corporation</b>	12. County or Parish <b>Uintah</b>
3a. Address <b>475 17th St., Ste. 1250 Denver, Colorado 80202</b>	13. State <b>UT</b>
3b. Phone No. (include area code) <b>303-799-1922</b>	14. Distance in miles and direction from nearest town or post office* <b>40.1 miles southeast of Ouray, Utah</b>
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface <b>1,700' FSL &amp; 660' FEL, NE/4 SE/4,</b> At proposed prod. zone <b>1,026' FSL, 2,023' FEL, SW/4 SE/4,</b>	15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>660'</b>
16. No. of acres in lease <b>2,549.48 acres</b>	17. Spacing Unit dedicated to this well <b>40 acres</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>None</b>	19. Proposed Depth <b>11,500' TVD-11,627' MD</b>
20. BLM/BIA Bond No. on file <b>UTB000251</b>	21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>7,225' GR</b>
22. Approximate date work will start* <b>07/01/2007</b>	23. Estimated duration <b>35 days drilling 40 days completion</b>

24. Attachments

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

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

25. Signature <b>Don Hamilton</b>	Name (Printed/Typed) <b>Don Hamilton</b>	Date <b>05/10/2007</b>
-----------------------------------	---	---------------------------

Title **Agent for Stewart Petroleum Corporation**

Approved by (Signature) <b>[Signature]</b>	Name (Printed/Typed) <b>JERRY HEWZKA</b>	Date <b>9-25-2007</b>
--	---	--------------------------

Title **Assistant Field Manager  
Lands & Mineral Resources**  
Office **VERNAL FIELD OFFICE**

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

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 page 2)

UDOGM

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OCT 09 2007

NOS 2/26/07  
07 PP 1440A

CONFIDENTIAL DIV. OF OIL, GAS & MINING



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



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

<b>Company:</b>	<b>Stewart Petroleum Corporation</b>	<b>Location:</b>	<b>NESE, Sec. 18, T15S, R21E (S) SWSE, Sec 18, T15S, R21E (B)</b>
<b>Well No:</b>	<b>Tumbleweed 18-9</b>	<b>Lease No:</b>	<b>UTU-72059</b>
<b>API No:</b>	<b>43-047-39299</b>	<b>Agreement:</b>	<b>Tumbleweed Unit</b>

<b>Title</b>	<b>Name</b>	<b>Office Phone Number</b>	<b>Cell Phone Number</b>
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
NRS/Enviro Scientist:	Paul Buhler	(435) 781-4475	(435) 828-4029
NRS/Enviro Scientist:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	
NRS/Enviro Scientist:	Chuck MacDonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Jannice Cutler	(435) 781-3400	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	

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)***

***Surface 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 COAs:***

- Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, an Interim Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. At a minimum, this will include the reshaping of the pad to the original contour to the extent possible; the re-spreading of the top soil up to the rig anchor points; and, the area reseeded using appropriate reclamation methods. The AO will provide written approval or concurrence within 30 calendar days of receipt.
- A BLM approved paleontology monitor will be onsite during all construction activities.
- All the culverts will be installed according to the BLM Gold Book.
- If additional water is needed during the drilling process it will be obtained from Utah water right #49-123 (Burt and Christine DeLambert)
- Bury pipeline at all low water crossings.
- Permission from an authorized BLM representative will be required if construction or other operations occur during wet conditions that will lead to excessive rutting.
- Permission to clear all wildlife stipulations will only be approved by the BLM wildlife biologist during the specific timing for the species potentially affected by this action.
- All pile of juniper slash will be no greater than four feet tall.

**DOWNHOLE COAs:**

- No site specific downhole COAs

**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.
- 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.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Wellogs@BLM.gov. 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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

**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 reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU-72059
2. Name of Operator Stewart Petroleum Corporation		6. If Indian, Allottee or Tribe Name N/A
3a. Address 475 - 17th Street, Suite 1250; Denver, Colorado 80202	3b. Phone No. (include area code) 303-799-1922	7. If Unit or CA/Agreement, Name and/or No. Tumbleweed Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1,700' FSL & 660' FEL, Section 18, T15S, R21E, SLB&M		8. Well Name and No. Tumbleweed #18-9
		9. API Well No. 43-047-39299
		10. Field and Pool, or Exploratory Area undesignated
		11. County or Parish, State Uintah County, Utah

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, 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 Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other Pipeline Extension
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Stewart Petroleum Corporation requests permission to extend the permitted pipeline route approximately 1,200' southwest to the existing tie-in location on the existing high-pressure sales pipeline located within the SW/4 SW/4, Section 17, T15S, R21E. Prior to sales pipeline construction Stewart Petroleum Corporation had met with QGM and agreed to locate the pipeline tie-in point as previously approved but during construction the tie-in point was relocated to its existing location.

The pipeline extension will be constructed to the specifications previously approved within the permit to drill and will parallel the existing high-pressure sales pipeline disturbance in its entirety. Furthermore the construction will utilize the existing disturbance to the extent practical. Attached please find an updated Topo D drawing reflecting the pipeline extension. All other aspects of the permitted proposal remain unchanged at this time.

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

**FILE COPY**

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) Don Hamilton	Title Agent for Stewart Petroleum Corporation
Signature <i>Don Hamilton</i>	Date November 19, 2007

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

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

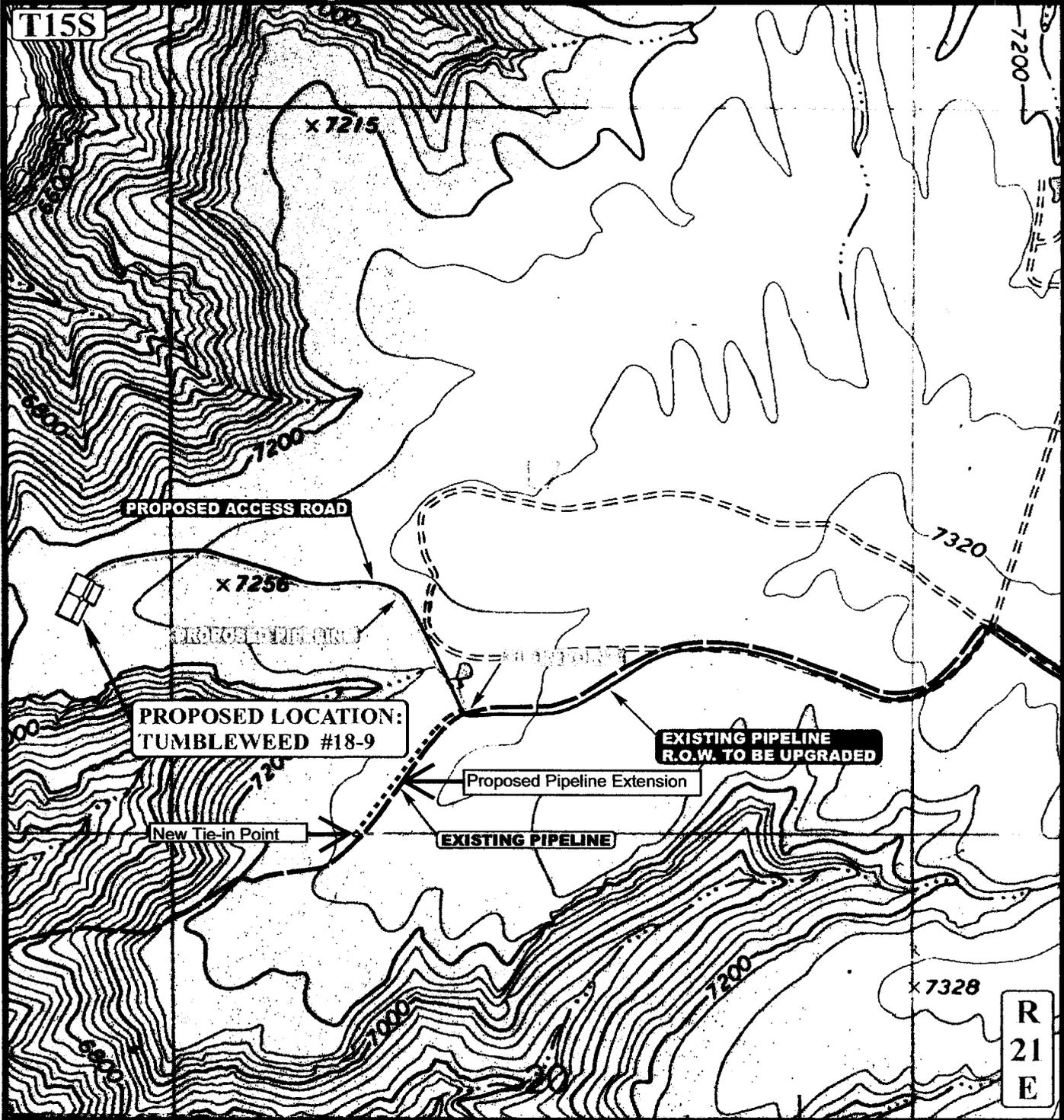
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

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**NOV 26 2007**

DIV. OF OIL, GAS & MINING



**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)

**STEWART PETROLEUM CORPORATION**

**TUMBLEWEED #18-9**  
**SECTION 18, T15S, R21E, S.L.B.&M.**  
**1700' FSL 660' FEL**

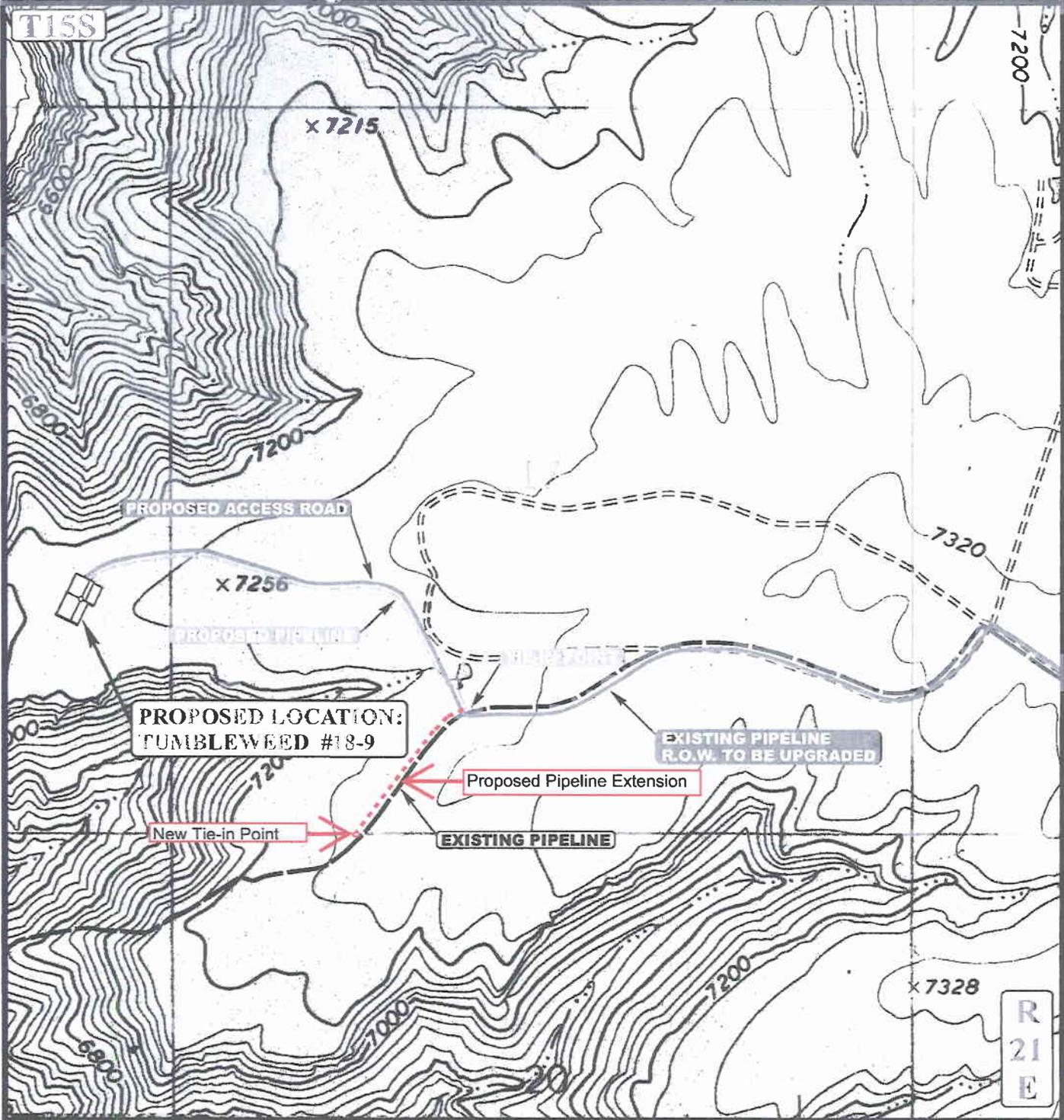


**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



TOPOGRAPHIC	04	16	07
MAP	MONTH	DAY	YEAR
SCALE: 1" = 1000'	DRAWN BY: L.K.		REVISED: 04-16-07





APPROXIMATE TOTAL PIPELINE DISTANCE = 0.90 Miles

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)

**STEWART PETROLEUM CORPORATION**

TUMBLEWEED #18-9  
 SECTION 18, T15S, R21E, S.L.B.&M.  
 1700' FSL 660' FEL

**UEIS** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



TOPOGRAPHIC MAP  
 MONTH DAY YEAR  
 SCALE: 1" = 1000' DRAWN BY: L.K. REVISED: 04-16-07  
**D**  
 TOPO

**CONFIDENTIAL**

*Horizontal Hole*

**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 type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU-72059</b>
2. NAME OF OPERATOR: <b>Stewart Petroleum Corporation</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>N/A</b>
3. ADDRESS OF OPERATOR: <b>475 17th St. Denver STATE CO ZIP 80202</b>		7. UNIT or CA AGREEMENT NAME: <b>Tumbled Unit</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1700' FSL+660' FEL NESE 18/TISS/RAIE</b>		8. WELL NAME and NUMBER: <b>Tumbled #18-9</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER: <b>4304739299</b>
STATE: <b>UTAH</b>		10. FIELD AND POOL, OR WILDCAT: <b>Undesignated</b>
COUNTY: <b>UINTAH</b>		

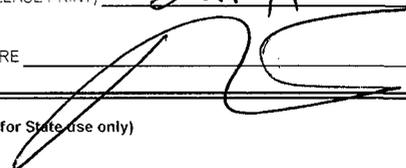
**CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <b>10/12/07</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<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>SPUD</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.

*Spud notice - 10/12/07 work to begin.*

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**JUN 10 2008**  
**DIV. OF OIL, GAS & MINING**

NAME (PLEASE PRINT) <b>Daryl R. Stewart</b>	TITLE <b>President</b>
SIGNATURE 	DATE <b>6/8/08</b>

(This space for State use only)

STEWART PETROLEUM CORPORATION

DRILLING REPORT

**Tumbleweed #18-9**  
**Uintah County, Utah**

**CONFIDENTIAL**

Rate Hole

LOCATION: NESE Section 18/T15S/R21E (1,700' FSL & 660' FEL)  
Uintah County, Utah; Elevation 7225' GL (ungraded), 7251' KB, 12,000' Entrada and Wingate Exploratory well.

**September 27, 2007** Begin construction of access road and location (contractor is Nations Oilfield Service, LLC).

**Last report until location is completed (CC will be forwarded at that point in time)**

**October 11, 2007** Move in Nations Oilfield Services. Blast and build location. Install pit liner. Move in rig up bucket rig and set 40' of 14" conductor pipe.

Daily Costs:  
Location \$40,000  
Conductor \$9,500

Total \$49,500 Cum: \$49,500

**October 12, 2007** MIRU Bill Jr's Rate Hole Service. Depth: 1,100' Present Activity: Drilling surface hole. Spud @ 2:20 PM 10-12-07. Drill 12 1/4" surface hole to 1,100' with air mist. Continue to drill surface hole.

Daily Costs:  
Supervision \$2400

Total \$2400 Cum: \$51,900

**October 13, 2007** Depth: 2,230' Present Activity: WO Cement  
Finish drilling 12 1/4" surface hole to 2,230'. Run 51 jts 9 5/8" 36# to 2,196'. RU Big 4 Cementers. Cement w/ 200 sx Hi-Fill Type 5 11.0 ppg yield 3.82 + 425 sx Type 5 w/ 2% CaCl + 1/4#/sx Flocele 15.8 ppg 1.15 yield with no returns. 1" with 125 sx Type 5 w/ 2% CaCl + 1/4# Flocele 15.8 ppg. Bring back to surface with returns of 1 bbl. Cement fell down hole. Wait 2 hrs. Pumped 100 sx of 15.8 ppg down annulus. Filled to surface.

Daily Costs:  
Drilling \$78,050  
Cement \$38,077  
Conductor \$1115  
Supervision \$1250

Total \$118,492 Cum: \$170,392

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**JUN 10 2008**

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

**October 14, 2007** Depth: 2196' Present Activity: WO Drilling Rig  
Install Cellar ring. Blade location. WO trucks to rig up Frontier Rig 11.

Daily Costs:

Cellar ring  
Location

Total Cum:

**October 15, 2007** Depth: 2196 Present Activity: Moving in camp

**October 16, 2007** Depth 2196 Present Activity: RU Frontier #11

**October 17, 2007** Depth 2196 Present Activity: RU

Daily Costs:

Trench location \$1630  
Fuel \$31849  
Trucking \$1062  
Trucking \$750

Total: \$35,291 Cum: \$205,683

**October 18, 2007** Depth 2196 Present Activity: RU  
While stringing up derrick, cable came loose and hit a man in the face.  
Minor injuries.

**October 19, 2007** Depth 2196 Present Activity: RU

**October 20, 2007** Depth 2196 Present Activity: RU  
NU BOP & gas buster.

Cum: \$205,683

**October 21, 2007** Depth 2196 Present Activity: RU

Cum: \$205,683

**October 22, 2007** Depth 2196 Present Activity: RU

Cum: \$205,683

**October 23, 2007** Depth 2196 Present Activity: RU

Cum: \$205,683

**October 24, 2007** Depth 2196 Present Activity: Drilling rat hole  
Pressure test BOP stack; actuate accumulator. PU motor and start drilling  
rat hole.

Daily Costs:

BOP test \$3625  
Supervision \$3750  
Materials \$1630

Total: \$9005 Cum: \$214,688

**October 25, 2007** Depth 2196 Present Activity: PU Directional Tools  
WO X-over sub 8 hrs to NU to drill rat hole. Weld on gas buster and choke  
manifold. Work on hydraulics on rig. PU bit and motor to drill rat hole.  
Lost circulation @ 5'. Lost approx. 1200 bbls water. Drill rat hole and  
hammer boot in with bushings. Begin to PU directional tools & wt. pipe to  
drill out shoe joint..

Daily Costs:

Rig \$11,074  
Rentals \$1400  
Directional \$4500  
Sup. \$1250  
Geology \$1250  
Pason \$550  
Auto Drill \$125

Total: \$24,174 Cum: \$238,862

**October 26, 2007** Depth: 2283 Present Activity: Drilling  
PU directional tools+weight pipe+DP 14 ½ hrs: RR ½ hr: drill cement  
2209-2252 rotate & slide 5 ½ hrs. Drill 2262-2283 ½ hr. Begin mud up. Well site  
Geologist operational.

Survey: Depth	Inclination	Azimuth
2202'	0.81	228.93
2328	2.81	247.08

Notes: Auto driller not working; Pason not working correctly; rig hydraulics not working. Repairs underway.

Daily Costs:

Rig	\$19000
Geology	\$1250
Super	\$1250
Pason	\$550
Camp	\$650
Directional	\$25816
Wat Trucking	\$9897
Welders	\$4140
Auto Driller	\$1273
Rentals	\$1400

Total: \$39,410

Cum: \$278,272

**October 27, 2007** Depth: 3406' Rot Hrs: 22 Last 24 hrs: 1123' ROP: 51'/hr  
Present Activity: Drilling; Fm. Tops: Wasatch 2433'

Rotate & drill 2283'-2328' RS ½ hr. Rotate & slide 2328'-2868'. RS ½ hr. Rotate & slide 2868'-3350'. Work tite hole @ 3350' 1 hr. Rotate & slide 3350'-3406'. Continue mud up. Mud: Wt in: 8.7 ; Wt out: 8.7; Vis 33;

Survey:	<u>Actual</u>			<u>Target</u>	
	<u>Depth</u>	<u>Inclination</u>	<u>Azimuth</u>	<u>Inclination</u>	<u>Azimuth</u>
	2886	12.75	234.33		
	3392	12.63	237.71	12.53	238.86

Daily Costs:

Rig	\$19000
Geology	\$1250
Super	\$1250
Pason	\$550
Camp	\$650
Directional	\$8300
Mud cleaner	\$650
Welding	\$3993
Pason RU	\$2095
Blasting loc	\$43000
Auto Drill	\$125

Total: \$80,963

Cum: \$359,235

**October 28, 2007** Depth: 4530' Ft. last 24 Hrs: 1124 Rot Hrs: 22 ½ ROP: 49.5'/hr  
Present Activity: Drilling Formation: MV (top 3,964')

Rotate & slide 3406-4075; RS; Rotate & slide 4075-4250; Work tite hole @ 4250' & condition mud 1 ½ hrs.; Rotate & slide 4250-4530.

Mud: 9.0 in; 9.0 out Vis 41

Survey:	<u>Actual</u>			<u>Target</u>	
	<u>Depth</u>	<u>Inclination</u>	<u>Azimuth</u>	<u>Inclination</u>	<u>Azimuth</u>
	4530	12.0	237.08		
	+N/-S -215.61	+E/-W -347.50			
	Bottom Hole: 408.95' Azi 238.18 deg.				

Gas Show: Basal Wasatch? BG 5 units—Peak 203 units (connection gas 8 units)

Daily Costs:

Rig	\$19000
Mud	\$19445
Water	\$12034

Direct \$8300  
 Geol \$1250  
 Sup \$1250  
 Auto Drill \$125  
 Pason \$550  
 Mud Clean \$750  
 Camp \$650  
 BH Pay \$820

Total: \$64,179

Cum: \$423,414

**October 29, 2007** Depth: 5125' Ft. last 24 hrs: 595' Rot Hrs: 17 ½ ROP: 34 ft/hr  
 Present Activity: Drilling Form: MV

Rotate & slide 4530'-5125'. RS ½ hr; RR 1 hr; Install rotating head ½ hr;  
 Surveys 4 ½ hrs

Mud: Wt in 9.0; wt out 9.0; Vis 45; YP 13; WL 10; FC 2/32; CI 15000;  
 KCl 2.81%

Survey:	Actual			Target	
	Depth	Inclination	Azimuth	Inclination	Azimuth
	4466	11.69	234.83		
	4561	11.50	235.33		
	4656	11.81	235.71		
	4778	10.19	229.21		
	4878	9.31	229.73		
	4910	9.56	228.33		
	4942	10.00	227.71		
	4973	10.44	228.96		
	5005	10.63	228.83		
	5037	11.31	229.46		
	5069	11.63	230.21		

5069'; BH Closure 541.30' Azi 236.79 deg  
 N -296.43' E -452.91'

Daily Costs:

Rig \$19000  
 Mud \$18975  
 Water \$2305  
 Directional \$8300  
 Geol \$1250  
 Sup \$1250  
 Auto Drill \$125  
 Pason \$550  
 Mud Clean \$750  
 Camp \$650  
 BH Pay \$825  
 Fuel \$26016  
 Rot Head \$800  
 Gas Buster \$400  
 Add. Sup \$15000  
 Misc. Adj \$26742

Total: \$123,288

Cum: \$546,288

**October 30, 2007** Depth: 5658' Ft. last 24 hrs: 533' Rot Hrs: 16 ROP: 33.3 ft/hr  
 Present Activity: Drilling Form: MV

Rotate & slide 5125'-5658' in 16 hrs drilling; survey 5 hrs; RS 1; RR 1;  
 install corrosion ring 1/2; work tite hole @ 5420' 1.

Mud: Wt in 9.0; Wt. out 9.1; Vis 46; PV/YP 20/13; Gels 3/12; FL 10;  
 Cake 2/32; Solids 4.0%; Ph 10.5; CI 15000;

Survey:	<u>Actual</u>		<u>Target</u>		
	<u>Depth</u>	<u>Inclination</u>	<u>Azimuth</u>	<u>Inclination</u>	<u>Azimuth</u>
	5545	10.88	236.46		
		N -353.42 E -534.17			
		BH Closure 640.50'	Azimuth 236.51 deg.		

Daily Costs: \$44,527

Cum: \$708,233 \*

\* Cumulative cost has been reconciled to field costs of record and adjusted Accordingly.

**October 31, 2007** Depth: 6196 Ft. last 24 hrs: 510 Rot hrs: 16.0 ROP: 33.8 ft/hr  
 Present Activity: Drilling Form: Mancos

Rotate & slide 5658'-6198' in 16 hrs drilling; surveys 7 1/2 hrs; RS 1/2 hr  
 Top of Castlegate @ 5845' MD; Top of Mancos @ 6084' MD

Mud: Wt in 9.1; Wt out 9.2; Visc. 50; PV/YP 24/20; Gels 4/12; FL 9.2;  
 Cake 2/32; Solids 4%; Sand tr; Ph 10.5; CL 15000; Ca 70

Survey:	<u>Actual</u>		<u>Target</u>		
	<u>Depth</u>	<u>Inclination</u>	<u>Azimuth</u>	<u>Inclination</u>	<u>Azimuth</u>
	6116	10.81	237.46		
		N -412.95' E -626.27'			
		BH Closure 750.16'	Azimuth 236.60 deg		

Daily Costs: \$44,012

Cum: \$750,880

**November 1, 2007** Depth: 6557' Ft. last 24 hrs: 359 Rot hrs: 13.5 ROP: 26.6 ft/hr  
 Present Activity: Tripping Day: 6 Form: Mancos

Rotate & slide 6196'-6557' 13 1/2 hrs;; survey 4 1/2 hrs; 1/2 hr RS; 1 1/2 hrs  
 pump slug; 4 hrs TOH. Had slight tit hole at 4700'. Overall ROP has  
 fallen and the ROP during sliding is very low. Rig is having electrical  
 problems so elected to trip for bit and to get the pipe out of the hole.

Mud: Wt in 9.1; Wt out 9.2; Visc 50; PV/YP 22/14; Gels 4/12; FL 8;  
 cake 2/32; solids 5%;sand tr.; Ph 10.5; CI 15000; Ca 50

Survey:	<u>Actual</u>		<u>Target</u>			
	<u>Depth</u>	<u>TVD</u>	<u>Inclination</u>	<u>Azimuth</u>	<u>Inclination</u>	<u>Azimuth</u>
	6495	6414	11.82	237.21		
			N -453.15' E -691.35'			
			BH Closure 826.9'	Azimuth 236.74 deg		

Daily Costs: \$60,165

Cum: \$811,045

**November 2, 2007**

Depth: 6557 Ft. last 24 hrs: 0 Rot hrs: 0 ROP: 0 ft/hr  
 Present Activity: WO mechanic Day: 7 Form: Mancos

Trip out of hole to wt pipe. 3 ½ hrs. WO mechanic for generator engine repairs. 20 ½ hrs. Mechanic is supposed to arrive by about 10: AM today.

Mud: Wt 9.0; visc 48; PV/YP 22/11; Gels 2/6; FL 8; cake 2/32; solids 5%; sand tr; Ph 10.5; CI 15000; Ca 80

Daily Costs: \$62,666 Cum: \$873,711

**November 3, 2007**

Depth: 6557 Ft. last 24 hrs: 0 Rot hrs: 0 ROP: 0 ft/hr  
 Present Activity: TIH Day: 8 Form: Mancos

Rig repair 16 ½ hrs; Trip to change mud motor and bit install new batteries in MWD 6 hrs.

Bit #1 7 7/8" HTC 504ZX; Jets 6/16; Depth In 2223'; Depth out 6588'; 4365' in 103 hrs

Bit #2 7 7/8" HTC 506Z; Jets 6/16; Depth In 6588'

Mud: Wt. 9.0; Vis 52; PV/YP 22/11; gels 2/6; FL 8; cake 2/32; solids 0.5%; sand tr; pH 10.5; CI 1600; Ca 80

Daily Costs: \$18,110 Cum: \$891,821

**November 4, 2007**

Depth: 6588' \* Ft. last 24 hrs: 0 Rot. Hrs: 0 ROP: 0 ft/hr  
 Present Activity: W&R Day: 9 Form: Mancos

Bit @ 2223'. Circulate bottoms up. Trip in to 4128'. Circulate bottoms up. Trip in to 4512'. Drill pipe unscrewed at 4512'. Set back down, tag pipe at 4512', pipe did not fall. Screwed into drill pipe. TOH to 2013' and tightened every tool joint. Trip back to 4438'. Wash & ream 4438' to 6406'.

\* Note: When trip out of hole, tally showed one additional jt in the string. Corrected depth to 6588'

Mud: Wt in 9.1; Wt out 9.2; Vis 47; PV/YP 22/11; gels 2/6; FL 7; cake 2/32; solids 7%; sand tr; pH 10.3; CI 16000; Ca 80

Daily Costs: \$41,791 Cum: \$933,612

**November 5, 2007**

Depth: 7053' Ft. last 24 hrs: 465 Rot hrs: 17.0 ROP: 27.4 ft/hr  
 Present Activity: Drilling Day: 10 Form: Mancos

W & R to 6588' 3 ½ hrs. Drill to 7053' 17 hrs. The current mud motor has a bend of 10 deg/100', however we are only able to achieve about ¼ - ½ deg/100 while sliding. Will trip out to inspect bit and directional tools.

Mud: Wt in 9.1; Wt out 9.2; Vis 46; PV/YP 18/16; gels 2/5; FL 6.8; cake 2/32; solids 5%; sand tr; pH 10.5; CI 14000; Ca 80

Mancos "B" gas show: 400 units TG-6502 units TG (see strip log attached)

Survey:		Actual		Target	
Depth	TVD	Inclination	Azimuth	Inclination	Azimuth
7030	6937.92	9.34	244.33		

N -504.82 E -779.32  
 BH Closure 928.54' Azimuth 237.01

Daily Costs: \$36,908 Cum: \$970,520

**November 6, 2007**

Depth: 7180' Ft.last 24 hrs: 127 Rot hrs: 7.5 ROP: 16.9 ft/hr  
Present Activity: Drilling Day: 11 From: Mancos

R & S to 7053'; TOH to adjust motor angle. Bit #2 ¼ out of gauge with outside cutters broken. PU Bit #3, adjust motor to 1.65. TIH. W & R 6321'-7084'. R & S to 7180' building angle.

Bit #2 7 7/8" HTC 506Z; Jets 6/16; Depth In 6588' Depth out: 7053' 465' in 17 hrs. Avg ROP 27.4 ft/hr.  
Bit #3: 7 7/8" FHI28; Jets 3/20; Depth in 7053'

Mud: Wt in 9.1; Wt out 9.1; Vis 44; PV/YP 16/17; gels 2/5; FL 8.0; caje 2/32; solids 5%; sand tr; pH 10.5; Cl 18000; Ca 80; KCl 3.38

Survey:				Target	
Depth	TVD	Inclination	Azimuth	Inclination	Azimuth
7162'	7067.72	12.44	253.33		

N -513.44ft E -801.57 ft  
BH Closure 954.9 ft Azimuth 237.66

Daily Costs: \$54,803 Cum: \$1,025,323

**November 7, 2007**

Depth: 7588' Ft. last 24 hrs: 408' Rot hrs; 18 ROP: 22.7  
Present Activity: Drilling Day: 12 Form: Mancos

R & S 7180-7588' 18 hrs drilling. Build angle.

Bit #3 7 7/8" FH128

Mud: Wt in 9.2; Wt out 9.2; Vis44; PV/YP 19/14; gels 2/5; FL 8.4; cake 2/32; solids 6%; sand tr; pH 11.0; Cl 18000; Ca 80; KCl 3.38

Survey:				Target	
Depth	TVD	Inclination	Azimuth	Inclination	Azimuth
7542	7439.05	11.44	245.58		

N -536.57 E -878.54  
BH Closure 1029.43 ft Azimuth 238.59

Daily Costs: \$43,159 Cum: \$1,068,482

**November 8, 2007**

Depth: 8052 Ft. last 24 hrs: 464 Rot hrs: 19.5 ROP: 23.8 ft/hr  
Present Activity: Drilling Day: 13 Form: Mancos

Rotate & slide 7588'-8052' in 19 ½ hrs; surveys 4 ½ hrs.

Mud: Wt in 9.2; Wt out 9.2; Visc 44; PV/YP 18/17; Gels 2/5; FL 9.0; cake 2/32; Solids 6.0%; Sand tr; pH 10.5; Cl 18000; Ca 80; KCl 3.38%

Survey:				Target	
Depth	TVD	Inclination	Azimuth	Inclination	Azimuth
4955	7841	12.69	244.33		

N -574.43 E -962.15  
BH Closure 1120.58 Azimuth 239.16

Daily Cost: \$45,600 Cum: \$1,114,082

**November 9, 2007**

Depth: 8290 Ft. last 24 hrs: 238 Rot. Hrs: 9.5 ROP: 25.1  
Present Activity: TIH W&R Day: 14 Form: Mancos

Rotate & slide 8052'-8290'. Started to lose angle and can not steer.  
TOH for bit. Drill 9 1/2 hrs; surveys 1 1/2; pump mud sweeps 1 1/2; trip 8  
1/2; LD & PU new BHA 3. Bit #3 was locked up on one cone and 1/32"  
out of gauge.

Mud: Wt in 9.3; Wt out 9.3; Visc 44; PV/YP 18/20; gels 3/6; FL 8.9;  
cake 2/32; solids 7%; sand tr; pH 10.5; Cl 18000; Ca 80; KCl 3.38

Bit #3 ; 7 7/8"; SN PE8507; FHI28In 7053'; out 8290'; 1270 ft; 53.5  
hrs; 23.7 ft/hr avg.

Bit #4; 7 7/8" FHI28; SN PD 2132; jets 3/20 Depth in 8290'

Survey:		<u>Actual</u>		<u>Target</u>	
<u>Depth</u>	<u>TVD</u>	<u>Inclination</u>	<u>Azimuth</u>	<u>Inclination</u>	<u>Azimuth</u>
8209	8090	10.88	235.33		
		N -601.06	E -1008.13		
		BH Closure 1173.7'	Azimuth 239.20		

Daily Cost: \$57,605 Cum: \$1,171,687

**November 10, 2007**

Depth: 8563 F. last 24 hrs: 273 Rot hrs: 13.5 ROP: 20.2 ft/hr  
Present Activity: Drilling Day: 15 Form: Mancos  
Gas Show: Mancos 8,302', 200 BG-4491 Peak (prob fractured int)  
Mancos 8,492', 400 BG-6798 Peak (prob fractured int-some  
Silt/sand present)

Rotate & slide 8290'-8563'

Mud: Wt in 9.5; Wt out 9.5; Visc: 49; PV/YP 23/20; gels 3/8; FL 7.2;  
cake 2/32; solids 8%; sand tr; pH 10.5; Cl 18000; Ca 80; KCl 3.38%

Bit #4 13.5 hrs; 273'

Survey:		<u>Actual</u>		<u>Target</u>	
<u>Depth</u>	<u>TVD</u>	<u>Inclination</u>	<u>Azimuth</u>	<u>Inclination</u>	<u>Azimuth</u>
8494	8368	12.81	233.31		
		N -635.8	E -1058.6		
		BH Closure 1234.89'	Azimuth 239.01 deg.		

Daily Costs: \$66,572 Cum: \$1,238,259

**November 11, 2007**

Depth: 9020' Ft. last 24 hrs: 457' Rot hrs: 21.0 ROP: 21.8 ft/hr  
Present Activity: Drilling Day: 16 Form: Mancos

Rotate & slide 8563'-9020' 21 hrs; surveys 2 1/2 hrs; RS 1/2 hr.

Mud: Wt in 9.4; Wt out 9.4; Visc 44; PV/YP 18/16; Gels 2/6; FL 7.6;  
cake 2/32; solids 7.0%; sand tr; pH 10.5; Cl 17000; Ca 80; KCl 3.19%

Bit #4: 730' 34.5 hrs

Survey:		<u>Actual</u>		<u>Target</u>	
<u>Depth</u>	<u>TVD</u>	<u>Inclination</u>	<u>Azimuth</u>	<u>Inclination</u>	<u>Azimuth</u>
8970	8831.9	13.38	248.58		
		N -687.98'	E -1153.01'		
		BH Closure 1342.67'	Azimuth 239.18 deg		

Daily Costs: \$48,166 Cum: \$1,286,425

**November 12, 2007**

Depth: 9440 Ft. last 24 hrs: 420 Rot hrs: 21.0 ROP: 20.0 ft/h  
Present Activity: Drilling Days: 17 Form: Mancos

Rotate & slide 9020'-9440' in 21 hrs; surveys 2 1/2 hrs; work tite connections 1/2 hr Begin inclination drop to straighten out hole.

Mud: Wt in 9.4; Wt out 9.4; Visc 44; PV/YP 18/18; Gels 2/8; FL 8.0; cake 2/32; Solids 7%; Sand 0.25%; pH 10.5; Cl 17000; Ca 80; KCl 3.19%

Bit #4 1150' 55.5 hrs.

Survey:		<u>Actual</u>		<u>Target</u>	
<u>Depth</u>	<u>TVD</u>	<u>Inclination</u>	<u>Azimuth</u>	<u>Inclination</u>	<u>Azimuth</u>
9351	9204	9.38	249.08		

Daily Cost: \$41,333 Cum: \$1,327,758

**November 13, 2007**

Depth: 9900' Ft last 24 hrs: 460 Rot hrs: 19.5 ROP: 23.6 ft/hr  
Present Activity: Drilling Day: 18 Form: Mancos

Drill 9440'-9900' in 19 1/2 hrs; Surveys 3 1/2 hrs; Work tite hole @9624' 1 hr

Bit #4: 1610 ft; 75 hrs. Avg ROP 21.47 ft/hr

Mud: Wt in 9.4; Wt out 9.4; Visc 45; PV/YP 17/21; Gels 2/8; FL 9.6; Cake 2/32; Solids 7%; Sand tr; pH 9.5; Cl 16000; Ca 100; KCl 3%

Survey:		<u>Actual</u>		<u>Target</u>	
<u>Depth</u>	<u>TVD</u>	<u>Inclination</u>	<u>Azimuth</u>	<u>Inclination</u>	<u>Azimuth</u>
9796	9646	4.49	251.71		

N -722.61' E -1275.23'  
BH Closure 1470.69' Azimuth 240.12 deg

Daily Costs: \$40,113 Cum: \$1,367.871

**November 14, 2007**

Depth: 10,100' Ft. last 24 hrs: 200' Rot hrs: 14.5 ROP: 13.8 ft/hr  
Present Activity: Tripping Day: 19 Form: Dakota

Drill 9900'-10,100' 14 1/2 hrs; Survey 2.0 hrs; RS 1/2 hr; Circulate 1.0 hrs; TOH LD Bit #4 and motor 6.0 hrs.

Mud: Wt in 9.4; Wt. out 9.4; Visc 44; PV/YP 15/17; Gels 3/9; FL 10; Cake 2/32; Solids 8%; Sand tr; pH 9.8; Cl 16000; Ca 80; KCl 3

Bit #4 In @ 8290'; Out @ 10,100'; 1815'; 89.5 hrs.; Avg 20.22 ft/hr

Bit #5: SN PE 6269; 7 7/8" STC/FHI 30; Jets 3/22; Depth in 10,100'

Survey:		<u>Actual</u>		<u>Target</u>	
<u>Depth</u>	<u>TVD</u>	<u>Inclination</u>	<u>Azimuth</u>	<u>Inclination</u>	<u>Azimuth</u>
10,050	9900	2.44	239.08		

Daily Cost: \$48,923 Cum: \$1,416,794

**November 15, 2007**

Depth: 10,285 Ft. last 24 hrs: 185' Rot hrs: 15 ROP: 12.3 ft/hr  
Present Activity: Drilling Day: 20 Form: Dakota

Change to motor assembly to straight motor. PU drilling jars and Bit #5. TIH. No fill, no tite spots. Drill 10,100'-10,285' 15 hrs; Trip 5 1/2 hrs; PU jars 1/2 hr; change out motor 2 hrs; survey 1/2 hr; break circ @ 1200' 1/2hr

Mud: Wt in 9.4; Wt. out 9.4; Visc 44; PV/YP 15/13; Gels 2/8; FL 9; Cake 2/32; Solids 7%; Sand tr; pH 9.7; Cl 15000; Ca 80; KCl 2.81

Bit #5: 185'; 15 hrs;12.33 ft/hr

Survey:		<u>Actual</u>		<u>Target</u>	
<u>Depth</u>	<u>TVD</u>	<u>Inclination</u>	<u>Azimuth</u>	<u>Inclination</u>	<u>Azimuth</u>
10181		2.13	246.33		

Daily Costs: \$81,857 Cum: \$1,498,651

**November 16, 2007** Depth: 10,337' Ft. last 24 hrs: 52 Rot. Hrs: 5.0 ROP: 10.4 ft/hr

Present Activity: Drilling Day: 21 Form: Dakota

Drill 10,285-10,337 5 hrs; Trip 15 ½ hrs; Change out mud motor 1 hr; Survey 5 hrs; W&R 2 hrs.

Bit #5: 7 7/8" STC/FHI 30 SN PE 6269: In 10,100'; Out 10,331'; 231 ft; 20 hrs ROP: 11.5 ft/hr

Bit #6: 7 7/8" STC/MI613 Jets: 6 x 16 In@ 10,331'; 6 ft; 0.5 hrs

Mud: Wt in 9.4; Wt. out 9.4; Visc 45; PV/YP 14/15; Gels 2/12; FL 9; Cake 2/32; Solids 7%; Sand TR; CI 16000; Ca 80; KCl 3%

Survey:		<u>Actual</u>		<u>Target</u>	
<u>Depth</u>	<u>TVD</u>	<u>Inclination</u>	<u>Azimuth</u>	<u>Inclination</u>	<u>Azimuth</u>
10278	10125	1.81	257.83		

Daily Costs: \$51,775 Cum: \$1,550,426

**November 17, 2007** Depth: 10,775' Ft. last 24 hrs: 438 Rot. Hrs: 22.0 ROP: 19.9 ft/hr

Drill 10,337-10,775 22. hrs; Survey 2 hrs

Bit #5: 444 ft; 27 hrs; ROP 16.4 ft/hr

Mud: Wt in 9.3; Wt out 0.3+; Visc 42; PV/YP 15/17; Gels 3/15; FL 10; Cake 2/32; Solids 7%; Sand TR; CI 16000; Ca 60; KCL 3%

Survey:		<u>Actual</u>		<u>Target</u>	
<u>Depth</u>	<u>TVD</u>	<u>Inclination</u>	<u>Azimuth</u>	<u>Inclination</u>	<u>Azimuth</u>
10655	10504	0.88	293.08		

Daily Costs: \$35,253 Cum: \$1,585,679

**November 18, 2007** Depth: 10787' Ft. last 24 hrs: 12 Rot Hrs: 0.5 ROP: 24.0 ft/hr  
Present Activity: Rig Repairs Day: 23 Form: Morrison

Drill 10,775'-10,787' ½ hr; Rig down for repairs 23 ½ hrs; Having trouble with the SCR and have no mud pumps. TOH. LD MWD. PU new bit. TIH with heavy weight pipe. SD WO rig repairs.

Bit # 6: In @ 10,331'; Out @ 10,787'; 456'; 27.5 hrs; ROP16.5 ft/hr

Bit #7: In @ 10,787'; STC/MI613; 7 7/8"; SN JX 344; Jets 6x15

Mud: Wt in 9.4; Wt out 9.4; Visc 40; PV/YP 13/12; Gels 2/6; FL 9.6; Cake 2/32; Solids 7%; Sand TR; pH 10.2; CL 14000; CA 40; KCL 2.62%

Survey:		<u>Actual</u>		<u>Target</u>	
<u>Depth</u>	<u>TVD</u>	<u>Inclination</u>	<u>Azimuth</u>	<u>Inclination</u>	<u>Azimuth</u>
10655	10504	088	293.08		

Daily Costs: \$31,515 Cum: \$1,617,194

**November 19, 2007** Depth: 11,077' Ft. last 24 hrs: 290 Rot hrs: 13.5 ROP: 21.5 ft/hr  
Present Activity: Drilling Days:24 Form: Morrison

Drill 10,787'-11,077' 13 ½ hrs; Rig Repair 10 ½ hrs.

Bit #7: 290 ft; 13.5 hrs; ROP 13.5 ft/hr

Mud: Wt in 9.4; Wt out 9.4; Visc 43; PV/YP 15/12; Gels 2/6; FL 9.4; Cake 2/32; Solids 7%; Sand tr; pH 10.1; CL 14000; CA 40; KCL 2.6%

Entrada sample top: 10,994' MD; Gas 50 BG-3471 peak TG (excellent Show)

Daily Costs: \$18,658 Cum: \$1,635,852

**November 20, 2007** Depth: 11,329' Ft. last 24 hrs: 252 Rot hrs: 23.5 ROP: 10.7 ft/hr  
Present Activity: Drilling Days: 25 Form: Kayenta

Drill 11,077'-11,329' 23 ½ hrs; RS ½ hr

Bit #7 542 ft; 37 hrs; 14.65 ft/hr

Mud: Wt in 9.4; Wt out 9.4; Visc 41; PV/YP 15/14; Gels 2/8; FL 9.0; Cale 2/32; Solids 7%; Sand TR; CL 15000; CA 60; KCL 2.81%

Daily Costs: \$61,570 Cum: \$1,697,422

**November 21, 2007** Depth: 11,437' Ft. last 24 hrs: 108 Rot Hrs: 13.0 ROP: 8.3 ft/hr  
Present Activity: Trip for bit Day: 26 Form: Kayenta

Drill 11,329'-11,437' 13 hrs; Trip for bit 8.0 hrs; Pump pill 1.0; RS ½ hr; RR 1.0 hrs; make up bit ½ hr; survey ½ hr

Bit # 7 In @ 10,787; Out @ 11,437'; 650 ft; 50 hrs; ROP 13.0 ft/hr  
Bit #8 In @ 11,437'; STC MI 613 (RR) SN JX4968; 7 7/8"; Jets 6x16; 456 ft; 27.5 hrs

Mud: Wt in 9.5; Wt. out 9.5; Visc 57; PV/YP 22/25; Gels 6/20; FL 8.0; Cake 2/32; Solids 8% Sand 0.25%; CL 17000; CA 400; KCL 3.19%

Daily Costs: \$46,209 Cum: \$1,743,631

**November 22, 2007** Depth: 11,650' Ft. last 24 hrs: 213 Rot Hrs: 16.5 ROP: 12.9 ft/hr

W & R 11,374'-11,437'; Drill 11,437'-11,650' 16 ½ hrs; TD @ 0530 hrs 11/22/2007; Condition mud and circulate to prep for logs. Logging Company: Halliburton; est time to RIH w/ logs 6:00pm today

Bit #8 Re-Run; In@ 11,437'; Out @ 11,650; Total of 869 ft; 66.5 hrs; ROP 13.06 ft/hr.

Mud: Wt. in 9.5; Wt. out 9.5; Visc 50; PV/YP 22/11; Gels 3/10; FL 8.0; Cake 2/32; Solids 8%; Sand 0.25% pH 10.0; CL 16000; CA 40; KCL 3.0%

Daily Costs: \$30,879 Cum: \$1,774,510

**November 23, 2007** Depth: 11,650 Ft. last 24 hrs: 0 Rot Hrs: 0 ROP: 0  
Present Activity: POOH w/ Logging tools Day: 28 Form: TD

Circulate & condition mud for logs. Short trip. TOH for logs. RU HLS and run logs to 8540'. Logging tool stuck. Worked tools free. POOH to 8278' logs stuck again. Worked free and POOH to 7698', tools stuck again. Work tools free and POOH. LD logging tools. Prep to TIH w/ drilling assemble. Recondition hole and attempt to log tomorrow.

Mud: Wt in 9.7; Wt. out 9.7; Visc 57; PV/YP 22/14; Gels 6/20; FL 9.0; Cake 2/32; Solids 9%; Sand 0.25%; pH 10.5; CL 15000; CA 40; KCL 2.81%

Daily Costs: \$34,267 Cum: \$1,808,777

**November 24, 2007** Depth: 11,650' Ft. last 24 hrs: 0 Rot Hrs: 0 ROP: 0 ft/hr  
Present Activity: Circ/condition mud Days: 29 Form: Wingate-TD

PU drilling assembly with jars and TIH to TD. Circulate & condition mud. TOH to 5700'. TIH to TD. No tite spots, no overpull. Circ/ hole. Approximate time for log attempt 7:00pm tonight

Mud: Wt in 9.7; Wt out 9.7; Visc 57; PV/YP 23/22; Gels 6/18; FL 8.0; Cake 2/32; Solids 9%; Sand 0.25%; pH 10.0; CL 15000; CA 40; KCL 2.81%

Daily Costs: \$55,965 Cum: \$1,864,742

**November 25, 2007** Depth: 11,650 Ft. last 24 hrs: 0 Rot hrs: 0 ROP: 0 ft/hr  
Present Activity: Logging Day: 30 Form: Wingate-TD

TOH to 9500'. Rig crew had not dropped survey or increased mud visc. Trip back in to TD. Drop survey. Increase mud visc. To 62 and stabilized weight at 9.6 ppg. TOH for logs. RU Halliburton. Run resistivity logs w/ articulating sub between sections. Work tool through deviated intervals to TD. Loggers TD 11,658'. Condition mud 4 hrs; trip 9 1/2 hrs; logging 10 1/2hrs.

Mud: Wt in 9.6; Wt out 9.6; Visc 62; PV/YP 21/25; Gels 8/22; FL 8.8; Cake 2/32; Solids 9.0%; Sand 0.325%; pH 10.0; CL 15000; CA 40; KCL 2.81%

Daily Costs: \$27,359 Cum: \$1,892,101

**November 26, 2007** Depth: 11,650 Ft. last 24 hrs: 0 Rot Hrs: 0 ROP: 0  
Present Activity: LD Drill Pipe Days: 31 Form: Wingate-TD

Log with resistivity logs. POOH w/ logs. Run FDC/CNL tools. Unable to get down with tools. Spent 4 hrs. working tools free. LD FDC/CNL tools. Pull wear bushing and LD BHA. TIH to TD. Circ. & condition mud. RU TRS Casing Service to LD drill pipe. Start laying down drill pipe.

Mud: Wt. in 9.7; Wt. out 9.7; Visc. 65; PV/YP 21/25; Gels 8/22; FL 8.8; Cake 2/32; Solids 9%; Sand 0.25%; pH 10.0; CI 15000; CA 40; KCL 2.81%

Survey @ 11,650 inclination 1.0 deg

Daily Costs: \$64,733 Cum: \$1,956,834

**November 27, 2007**

LD drill pipe. Break out kelly and LD heavy weight pipe. Wait on Halliburton 2 hrs to have someone check the DV tool. Run 276 jts. 4 1/2" 11.6 lb P-110. Shoe @ 11,658' Float @ 11,613'. DV tool @ 8479'. Ran marker jts @ 11,134', 9928' and 6556'. Cement w/ 610 sx 13.5 ppg; yield 1.46; 6.9 gals/sk water Halliburton Expandacem; 0.3% Halad-344; 5#/sk silicate; 0.125 #/sk poly flake; 0.2% Super CBL; 0.2% CFR-3; 0.4% HR-5. Bumped plug. Float held. Opened DV tool @ 2200 psi. Circ. Hole for second stage.

Daily Costs: \$204,410 Cum: \$2,161,244

**November 28, 2007**

Circ. Thru DV tool. WO cement 5 hrs. Cement stage #2 with 1030 sx Expandacem 0.3% Halad-344, 5#/sk silicate. 0.125 #/sk polyflake, 0.2% super-CBL, 0.2% CFR-3, 0.2% HR-5. ND BOP Set slips. Clean mud tanks. Rig released 2400 hrs 11-27-07.

Daily Costs: \$105,198 Cum: \$2,266,442

STEWART PETROLEUM CORPORATION

COMPLETION REPORT

**CONFIDENTIAL**

TITE  
HOLE

**Tumbleweed #18-9**  
**Uintah County, Utah**

**LOCATION: NESE Section 18/T15S/R21E (1,700' FSL & 660' FEL)**  
Uintah County, Utah; Elevation 7225' GL (ungraded), 7251' KB, 12,000' Entrada and Wingate  
Exploratory well.

**December 7, 2007**

Set rig anchors.

**December 8, 2007 – December 9, 2007**

Wait on completion unit.

**December 10, 2007**

MIRU Swabbco Well Service completion unit. SD wait on equipment.

**December 11, 2007**

Plow snow from roads.

**December 12, 2007**

Move in power swivel, BOP, closing unit, pump & tank, camp and generator. NU 6" 10,000 psi Cameron tubing head. Unload 320 joints 2 3/8" 4.7# 8rd P-110 tubing SDON

**December 13, 2007**

PU 3 7/8" flat bottom mill + 1 jt 2 3/8" tbg + Model "R" profile nipple + 259 jts 2 3/8" tubing. Rabbit & tally tubing in hole. Tag DV tool @ 8478' KBM. NU pump & tank. Pressure test to 1,000 psi. LD 3 jts. SDON.

**December 14 & 15, 2007**

Thaw out rig and BOP's. TOH w/ 2 3/8" tbg. WO Schlumberger for cased hole logs. Schlumberger engineer refused to come to location because of bad roads. Suggested that Schlumberger go home. MIRU Weatherford logging @ 3:00 AM. Start running cased hole logs. Operation @ 6:00AM, logging.

Daily Costs: \$20,064\* CCC: \$92,132

\*Includes \$4500 from drilling operations

**December 16 & 17, 2007**

Run GR-CBL/VDL-CNL/Array Sonic logs. RD Weatherford. Start TIH w/ tbg.

Daily Costs: \$9537 CCC: \$101,669

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**December 18, 2007**

TIH w/ 2 3/8" tbg. w/ "R" profile nipple 1 jt up. Trip in to PBTD 11,580'. Circulate hole to 2% KCL water. TOH to 5,500'. PU swab. Swab well down to 4,000' +/- SDON. Cement info from CBL: Stage #1 cmt top @ 9,204'; Stage #2 top @ 3,542'. Ratty cement from 7,500' to 3,542'.

Daily Costs: \$58,443 CCC: \$160,112

**December 19, 2007**

RU swab. Swab well from 4,000' down to 4,980' TOH w/ tbg. RU Cased Hole Solutions. Run in hole w/ perforating guns. Perforate the Wingate as follows:

11,510'-11,520' 10" OA 4 JSPF 3 1/8" HSC

All shots fired. Pull out of hole. TIH w/ Baker Retrievmatic packer + 1 jt + "R" nipple + 2 3/8" tbg. Set pkr @ 11,479' w/ 25,000# compression. RU swab.

Run 1 FL 3500' No gas

Run 2 FL 5200' No gas.

SI SDON.

Daily Costs \$57,419 CCC: \$167,768\*

\* Note: Adj. logging cost by -\$8,000

**December 20, 2007**

SITP 600 psig. Blow well down. RU swab. FL @ 4,000'. Made 6 swab runs. Swabbed down to 11,448'. Recover gas cut fluid w/ weak blow following swab. Wait 2 hrs. made Run #7. Rec. no fluid w/ weak blow. Wait 1 hr. made Run #8. Rec. no fluid w/ weak blow. SI SDON.

Daily Costs: \$8873

CCC: \$178,641

**December 21, 2007**

SITP 1500 psig. Blow down well. Pump 25 bbls 2% LCL water down tbg to equalize. Released packer. Pull 40 stands to 10,000' +/- . Swab well down to 8,000' +/- . TOH. SI SDON. Winterize rig and camp for extended shut down.

Daily Costs: \$34,608

CCC: \$213,049

**December 22, 2007**

SD Scheduled for frac on 12/27/07. Will begin operations on 12/26/07

**December 27, 2007**

Plow roads into location. Move in frac master and haul sand. Heat water to 130 deg.. WO frac equipment scheduled for Friday AM.

Daily: \$71,335\*

CCC: \$284,384

\* Includes tubing @ \$57,870

**December 28, 2007**

Plow roads. WO frac equipment.

Daily Costs: \$11,230

CCC: \$295,614

**December 29, 2007**

MIRU Superior Well Services. 7 hours RU time. Pressure test lines to 10,000 psi. Fracture treat the Wingate perms w/ XL 4 low pH cross linked gel system as follows:

PAD	14,100 gals	
Sand laden	16,750 gals	
Total sand	51,000 lbs	35,000# 20/40 PR 6000 + 16,000# 20/40 XRT Gold
Flush	7,410 gals	2% KCL slick water

ISIP 3411 psi; 5 min. 2155 psi; 10 min 1842 psi; 15 min. 1685 psi.

AIR 24.8 BPM; BD Press 5061psi; Max TP 3411 psi; Max Rate 31.6 BPM.

Start flow back on choke to achieve forced closure. Well flowed 15 minutes and died. RD Superior. Left well open overnight with no flow.

Daily Costs: \$ 63,223

CCC: \$357,837

**December 30, 2007**

Well left open overnight. No flow. Thaw out wellhead. TIH w/ notched collar + 1 jt + "R" nipple + 2 3/8" tbg. TIH to 5,500' +/- . RU air compressor and mist tank. Blow hole around. Continue in hole in stages and unload water. Tag sand fill @ 11,570', 50' below perms. CO sand. Pull tbg to 11,488 above Wingate perms. Unload well with compressor from 17:00 hrs to 05:00 hrs. Mist tank on compressor froze up. Well started flowing up the tbg. Well flowing with heads of water and heavy mist with an intermittent 20'-25' flare.

Daily Costs: \$13,920

CCC: \$371,757

**December 31, 2007**

Flow well to clean up frac.

8:00 AM	CP 1300 psi	FTP 30 psi	Water & heavy mist w/ int. 15' flare
10:00	CP 1300 psi	FTP 20 psi	
11:00	CP 1350 psi	FTP 50 psi	
1:00 PM	CP 860 psi	FTP 30 psi	
3:00	CP 850 psi	FTP 60 psi	Water & heavy mist w/ int flare
6:00	CP 850 psi	FTP 35 psi	
9:00	CP 800 psi	FTP 35 psi	
12:00 AM	CP 710 psi	FTP 30 psi	
5:00 AM	CP 600 psi	FTP 40 psi	
6:00	CP 600 psi	FTP 40 psi	
8:00	CP 600 psi	FTP 50 psi	Heavy mist w/ occ. Water slugs and int. 25' flare

**January 1, 2008**

Flow well to clean up after frac.

5:00 AM CP 500 psi FTP 30 psi Well flowing with a constant 20'-25' flare w/ a heavy mist and int. slugs of frac water.

Daily Costs: \$7898 CCC: \$407,763

**January 2, 2008**

Flow well to clean up after frac. CP 500-600 psi FTP 20-40 psi. '20'-25' flare with light mist and intermittent liquid slugs. Installed 2" orifice tester to test well. Liquid slug froze up tester. Continued to flow well. Attempted second test, same results. Continue to flow well.

Daily Costs: \$7898 CCC: \$415,661

**January 3, 2008**

Continue to flow well to clean up after frac. CP 500-600#, FTP 30-40 # 25' flare w/ light mist and some slugs. Will rig up test separator this PM and orifice tester this PM. Unload 1<sup>st</sup> load of line pipe (2<sup>nd</sup> load to be delivered this PM). Take water sample to Superior WS for analysis.

Daily Costs: \$7898 CCC: \$423,559

**January 4, 2008**

Test separator froze over night. Will thaw and start test today. Well continues to flow and clean up after frac. Water sample analysis from Superior WS indicates frac water (pH 6; Sulphates 400; Chlorides 10,000, Spec. Gravity 1.2).

Daily Costs: \$7898 CCC: \$431,457

**January 5, 2008**

SICP 1450#, SITP 1200#; RU test separator and start Wingate Fm. flow test (initially unload 7 BW). Stable flow rate, 740# CP/420# TP, 500 mcf/gpd, 2.1 bwph (will test water sample again).

Daily Costs: \$10,830 CCC: \$442,287

**January 6, 2008**

Killed Wingate Fm. with 110 BW (2% KCL). TOH RU Cased Hole Solutions, RIH set CIBP at 11,460' (KB). FL 6,010' (from surface). Perf lower Entrada 11,128'-11,148' 2 JSPF (0.32" holes). POH w/ guns, RD Cased Hole Solutions. NGTS. SION.

Daily Costs: \$24,560 CCC: \$466,847

**January 7, 2008**

Thaw out well head. SICP 850 psi. Blow well down. PU compression packer. Run in 1 stand and set packer. Packer set ok. TIH and attempt to set packer above Entrada perms. Worked 2 hrs and packer would not set. TOH w/ 100 stands. SI SDON.

Daily Costs: \$13,985 CCC: \$480,032

**January 8, 2008**

TOH w/ pkr. Packer elements washed off and had small amount of scale in packer. PU new packer. TIH. Set pkr @ 11,064'. RU swab. Hit gas cut fluid @ approx. 1200'. Had gas cut fluid to "R" Nipple. Swabbed well down to pkr. SI SDON

Daily Costs: \$14,062 CCC: \$494,094

**January 9, 2008**

SITP 200 psi SICP 0 psi. Run swab. FL @ 7400'.

Run #1	FL 7400'	Pull from 9500'	Had 3-4' flare after swab
Run #2	FL 9400'	Pull from 11,064'	Had 5-6' flare
Run #3	No FL	Pull from 11,064'	No fluid 5-6' flare
Run #4	Wait 1 hr	Pull from 11,064'	No fluid 5-6' flare

Flow well 2 hrs, no change in gas rate. Pump 10 bbls 2% KCL water down tbg to equalize pkr. Took 1 1/2 hrs to get pkr released. TOH. SI SDON Released rig crew. Wait on frac equipment. Will continue to lay flow line.

Daily Costs: \$11,420 CCC: \$505,514

**January 10, 2008**

Wait on frac equipment. Fill frac tanks & heat water. Lay gathering line.

Daily Costs: \$4570 CCC: \$510,084

**January 11, 2008**

WO frac equipment. Finish heating frac water. Continue to lay gathering line.

Daily Costs: \$6360 CCC: \$516,444

**January 12, 2008**

WO frac equipment. Continue to lay gathering line.

Daily Costs: \$7765 CCC: \$524,209

**January 13, 2008**

SICP 1358 psi. WO Superior for frac. MIRU Superior. Pressure test lines to 9800 psi. Fracture treat the lower Entrada perms 11,128'-11,148' per design. BD @ 3227 psi. AIR 14 BPM. Avg Press 1630 psi. Max press. 3500 psi. Pumped 37,639 gals 30# linear gel + 50,000# 30/50 Econoprop sand. ISIP 1476 psi; 5 min 1055 psi; 10 min 951 psi; 15 min 871 psi. SI SDON Released Superior.

Daily Costs: \$87,640 CCC: \$611,849

**January 14, 2008**

SICP 530 psi. Thawed well head. Blew down well. TIH w/ 2 3/8" tbg to 4200' +/- . Unload well with air/foam down tbg. TIH to 8400'+/-. Unload w/ air foam. Start TIH for stage 3 when well kicked off flowing up the annulus. Secured well and let well flow thru a 32/64" choke bean. Flowing frac fluid and some sand. Flowing casing pressure increased to 820 after 2 hrs. SI to replace choke bean that was sand cut. Return well to flowing overnight with heavy mist and occasional inflammable gas.

Daily Costs: \$9040 CCC: \$620,889

**January 15, 2008**

Flow well up the casing. CP 800 psi TP 1300 psi. Flowing on a 1/2" choke bean with heavy mist & intermittent flare and small amount of sand. SI well to check choke bean. Found choke was sand cut. Left well shut in for 6 1/2 hrs waiting on new choke beans. Install 3/8" choke bean. Si pressure 2300 psi. Open well to flow through the tubing at 3:30 PM.

7:30 PM SICP 1930 psi FTP 1400 psi 3/8" choke

8:30 PM SICP 1870 psi FTP 1400 psi 3/8" choke dry gas with very light water mist.

Estimated gas volume 4761 MCFD (lower Entrada only)

SI well at 8:30 PM. 8:30 AM 1/15/08 SICP 2500 psi SITP 2500 psi.

Daily Costs: \$16,992 CCC: \$637,881

**January 16, 2005**

SD wait on wireline to set bridge plug and perforate.

**January 17, 2008**

SITP 2500 psi SICP 2500 psi. Kill well w/ 2% KCL water. TIH and clean out to 11,280'. TOH prep to set BP and to perforate. SI SDON

Daily Costs: \$17,886 CCC: \$655,767

**January 18, 2008**

TP 0 psi CP 0 psi. MIRU Cased Hole Solutions. RUN w/ Halliburton 8,000 psi 225 deg. Composite bridge plug. FL @ 2600'. Set plug @ 11,082'. POOH. PU perforating guns. Run in hole and perforate the upper Entrada as follows:

11,010'-11,040' 30' OA 4 JSPF 120 0.32" holes

FL dropped approx 60'. POOH. RD & release perforators. SI SDON.

Note: SI CP @ 7:00 AM is 150 psi.

Daily Costs: \$43,363 CCC: \$718,708

**January 19, 2008**

SI CP 150 psi. Heat water for frac. Start MIRU Superior Well Services.

Daily \$12,250 CCC: \$730,958

**January 20, 2008**

SI CP 170 psi. RU Superior Well Services. During pressure test, blender failed. Wait 9 hrs to get repairs. Start frac @ 5:00 PM. Pressure test lines. Fracture treat per design. BD press 3720 psi @ 23 BPM; Pump 51619 gals (1229 bbls) 20# X-linked Borate fluid system and 102,000# 20/40 econoprop ceramic. AIR 32.7 BPM; ATP 3285 psi; Max TP 5384 psi; ISIP 3000 psi; gradient 0.71 psi/ft. Start forced closure flow back immediately on a 24/64" choke @ 1/4-1/2 BPM 5 min 2823 psi; 10 min 560 psi; 15 min 480 psi. Well flowed for approx 1 hr down to a trickle of fluid. SI. RD Superior. SI SDON.

Daily Costs: \$112,907 CCC: \$843,865

**January 21, 2008**

SITP 200 psi. PU tri-cone bit and TIH. Tag sand @ 10,805-. Drill hard compacted frac sand to 10,988' (183'). SI SDON

Daily Costs: \$12,970 CCC: \$856,835

**January 22, 2008**

SICP 0 psi. Small whisper of gas. Thaw out power swivel. CO sand 10,988' to 10,993'. Bit locking up. Reverse circulate hole clean. TOH w/ bit. TIH w/ 4 blade mill to 8788'. SI SDON.

Daily Costs: \$10,572 CCC: \$867,407

**January 23, 2008**

SICP 0 psi. TIH from 8788' to 10,993'. Thaw power swivel and pump. Establish reverse circulation and attempt to cleanout sand. Could not make any hole. Have a lot of torque. With 6,000-8,000 lbs on mill, the power swivel stalls. Worked approx 2 hrs with no change. Have a minute amount of steel filings in returns. TOH. Mill shows extreme wear. Appears that there is junk in the hole. SI SDON

Daily Costs: \$13,190 CCC: \$880,597

**January 24, 2008**

PU 3 3/4" magnet. TIH to 10,993'. Reverse circulate and work magnet for approx 2 hrs. Gained no new hole and recovered small amount of sand during circulation. TOH w/ magnet. Recovered approx. a 1/2 handful of fine metal shavings. SI SDON.

Daily Costs: \$14,419 CCC: \$895,016

**January 25, 2008**

SI CP 0 psi. PU 3 3/4" junk basket w/ cut-rite shoe. TIH. Tag fish @ 10,993'. Rotate & wash over fish. CO sand to 11,082'. Tag composite BP. Set down on plug and it moved downhole approximately 2'. Immediately lost circulation. Tried to pick up and were stuck on the plug. Worked free and TOH to 1700'+/-. Snowing so hard, the driller can not see the derrick hand so SI SDON.

Daily Costs: \$10,920 CCC: \$905,936

**January 26, 2008**

SICP 0 psi. PU 3 7/8" mill + 1 jt + R Nipple. TIH to 10,892' (14 stands above the plug) rig engine quit. Work on engine and wait on mechanic with computer diagnostics to repair engine. SI SDON Note: This AM, still waiting on mechanic. Possibly will have one by tomorrow AM (from Grand Junction) but this is not certain.

Daily Costs: \$7,160 CCC: \$913,096

**January 27, 2008**

WO mechanic. Mechanic worked on engine. WO parts. Should have parts by late tonight and have rig running by tomorrow AM.

Daily Costs: \$3910 CCC: \$917,006

**January 28, 2008**

CP 0 psi WO engine parts. Snowing and wind blowing. Roads are all drifted shut. Parts are at the bottom of Hay Canyon, D-8 cat is in transit to get the parts.

Daily Costs: \$4470 CCC: \$921,476

**January 29, 2008**

Install computer parts in Cat engine. TIH w/ 14 stands. Tag @ 11,082'. CO sand & push plug to 11,116' Reverse circulate with a lot of torque. Appears still are pushing junk on top of plug. At 11,116', torque stalled out power swivel. Pickup with drag to 11,111' and hung up. Worked pipe with approx. 5' of travel and intermittent rotation still circulating. Then lost circulation. Can still pump down backside but with no returns. Worked pipe within the 5' of travel then stuck firm. Attempted to pump down the tubing. Tubing plugged. Worked pipe to 62,000 lbs over weight of string. Can not circulate, can not rotate, can not move pipe. Left overnight with 60,000# pulled on string. SI SDON.

Daily Costs: \$8530 CCC: \$930,006

**January 30, 2008**

SI CP 0 psi. Work stuck pipe to 62,000# over string weight. Well started to up the casing. Continued to work pipe. Well unloading strong. SI well Installed a 24/64" choke bean. Flow well through choke recovering water and sand. Continue to work stuck pipe. CP increased to 1300 psi flowing on 24/64 choke. Stopped working stuck pipe. Well continued to clean up. CP increased to 1850 psi. Installed a 16/64" choke. CP increased to 2300 psi immediately. Flow well with slugs of fluid and intermittent gas flare. SI well SDON.

This AM SI CP 2800 psi.

Daily Costs: \$11,150 CCC: \$941,156

**January 31, 2008**

Plow snow and open roads. Wait on water trucks.

SICP this AM 2950 psi. Wireline truck to perform free point and to cut tubing should be on location at approx noon.

Daily Costs: \$15,170 CCC: \$956,326

**February 1, 2008**

SI CP 2940 psi. WO KCL water. Attempt to kill well. Pump 1-1 1/2 BPM down annulus. Pressured to 3400 psi. Blew pop off on pump. Bleed back casing to 3240 psi through a 16/64" choke. Flowed back water. Pumped down annulus @ 1/2 BPM. Pressure increased to 3520 psi. SD pumping. Pressure bled off to 3380 psi in 1 hr. Pumped a total of 63 BW. Annulus capacity to top perf is 87 bbls. SD pumping. Left pressure on well for about 2 hrs with very slight bleed off. Flow well back through annulus on 16/64" choke overnight. This AM pressure 2900 psi in 16/64" choke flowing dry gas with very occasional slug of water.

Daily Costs: \$18,129 CCC: \$974,455

**February 2, 2008**

Flowing CP 2940 psi on a 16/64" choke. Install a 38/64" choke. Stabilized 1900 psi. Worked stuck pipe. Still no movement. Attempt to kill well with 2% KCL water. Pump down annulus 2000 psi. Pressure increased to 3400 psi @ 36 bbls. Pressure increased to 3800 psi. SD. After 4 hrs, pressure 3620 psi. WO wireline crew. They are coming in behind the cat that is opening the road. Rig up Cased Hole Solutions. RIH w/ sinker bars and jars. Tag @ 10,707'. Spud on plug with no gains. Pull out of hole. RD Cased Hole Solutions. SI SDON

Daily Costs: \$27,441 CCC: \$1,001,896

**February 3, 2008**

SD operations and release rig crew while wait on coil tubing unit. Left camp attended. WO coil tubing unit.

Daily Costs: \$8,730 CCC: \$1,010,626

**February 4, 2008**

Well SI. WO coil tubing.

Daily Costs: \$5,130 CCC: \$1,015,756

**February 5, 2008**

SI WO Halliburton coil tubing unit and nitrogen. Plow roads.

Daily Costs: \$5,130 CCC: \$1,020,886

**February 6, 2008**

SI WO Halliburton Coil Tubing Unit.

Daily Costs: \$5130 CCC: \$1,026,016

**February 7, 2008**

SICP 3100 psi. MIRU Halliburton Coil Tubing Unit and nitrogen. Run in hole with 1 1/4" wash nozzle on 1 1/4" tubing. Tag sand @ 10,703' KB. Work hard sand with 7000 lbs set down weight for approx 1 hr. Broke though. CO 379' of sand with foam to the "R" nipple @ 11,082'. Worked 1 1/2 hrs with 7000 lb set down to try to get through R nipple. Could not get through. Ran out of hot water. Purge coil tubing with N2. Trip out of hole. SI SDON.

Daily Costs: \$83,871 CCC: \$1,109,887  
 (Includes road plowing for several days)

**February 8, 2008**

SICP 3200 psi . RD Halliburton Coil Tubing unit. WO on wireline truck for chemical cut. Baker Atlas out of Rock Springs, WY will arrive tomorrow AM. SI SDON

Daily Costs: \$13,622 CCC: \$1,123,509

**February 9, 2008**

SICP 3200 psi SITP 350 psi. WO Baker Atlas. MIRU Baker Atlas wireline to free point tubing. Blow down tubing . Started flowing water. RD Kelly hose and tie in hard line going to pit. Well flowed for approx 1 hour on a 16/64" choke then died.. RIH with free point tool. Tool stopped working. POOH and work on tool. RIH tool stopped working again. POOH. Work on tool. RIH. Ran free point between 9000' to 11,000'. Showed diminishing pipe stretch until had 0% movement at 11,000'. Free point inconclusive probably due to excessive drag due to hole inclination. POOH. LD tools. SI SDON

Daily Costs: \$22,913 CCC: \$1,146,422

**February 10, 2008**

SI CP 3100 psi SITP 90 psi. Blow down tubing. RU pump & tank. Pump 36 bbls 2% KCL water down the tubing to kill the well. Fluid level est. at between 2200' and 2500'. RU Baker Atlas. RIH w/ 1 11/16" tubing perforating gun. Perforate 6 0.30" holes 3 JSPF 11,646-11,648. Tbg on vacuum. POOH w/ guns. Kill well w/ approx. 120 bbls 2% KCL water. Work stuck pipe. Still not free. RIH w/ 1 11/16" chemical cutter. Attempted to pull tension and found that we were frozen in the 2 3/8" X 4 1/2" annulus below the BOP's. Pump 35 gals of methanol down the annulus and left with 3000 psi. WO hot oil truck. Thaw out casing w/ 200 degree water. Pull 23,000# over string weight and attempt to cut off @ 11,059' KB. Work tbg. Was not free. Appears hold downs did not hold and kinked the line. Poured a new rope socket. RIH w/ 2<sup>nd</sup> chemical cut. Tagged up @ 11,059', the depth of the 1<sup>st</sup> cut. Pulled gun up to 10,988' and pulled 27,000# over string weight. The tubing collar that was in the elevators came off of the pipe. POOH w/ chemical cutter. Replaced the tubing collar. LD chemical cutter and prepared a 1 11/16" jet cutter. RIH. Pulled 21,000# over and shot off tubing @ 10,988'. Tubing came free. Worked jet cutter loose and POOH. RD Baker-Atlas and released. SI SDON

Details: Mill @ 11,116'  
 Perf 6 0.30" holes 11,046'-11,048'  
 1 jt  
 1.81 " "R" nipple @ 11,082'  
 Chem cut attempt @ 11,059'  
 Jet cut @ 10,988' top of fish.  
 Total fish 128'

Daily Costs: \$47,984 CCC: \$1,194,406

**February 11, 2008**

SICP 1840 psi SITP 1840 psi. Kill well w/ 2% KCL water. TOH w/ 2 3/8" tbg to 1536'. SI SDON

Daily Costs: \$13,660 CCC: \$1,208,066

**February 12, 2008**

SICP 0 psi SITP 0 psi. Finish TOH w/ 24 stands of tubing + cut off jt. PU fishing tools as follows:

ITCO spear	1 7/8" OD	4.70'
Drain sub	3 1/8" X 1" ID	1.74'
Bowen bumper sub	3 1/8" X 1"	8.01'
Bowen jars	3 1/8" X 1"	8.41'
X-over	3 1/8" X 1"	2.00'
6 drill collars	3 1/8" X 1"	182.56'
X-over	3 1/8" X 1"	2.58'
Bowen Acc.	3 1/8" X 1"	8.59'
X-over	3 1/8" X 1"	1.61'

TIH. Tag sand @ 10,966'. Top of fish @ 10,988'. Have 22' of sand on fish. Unable to get sufficient circulation through fishing tools to clean out sand. TOH to 20 stands ( kill string. ) SI SDON

Daily Costs: \$11,170 CCC: \$1,219,236

**February 13, 2008**

SICP 150 psi SITP 150 psi. Blow well down. Pump 20 bbl 2% KCL water down tubing. TOH Stand back drill collars & lay down fishing tools. PU skirted flat bottom mill as follows:

Skirt	3 5/8" OD X 3 1/8" ID	5.00'
Extension	3 5/8" X 3 1/4"	4.55'
Canfield bushing	1 1/4" ID	2.10
X-over	2 3/8" X 1.99"	1.61'

TIH to 5500' +/- . SD to change out both wing valves on the tubing head that were leaking. Well started flowing. Pump 10 bbls 2% KCL water down tubing. TIH to 10,951', 15' above sand. RU foam air machine. Displace kill fluid out through a 16/64" choke. Kick well off @ 12:30 AM. Well making heavy amounts of sand and water. Flow well on 16/64 choke to 7:00 AM. Still making sand but lesser amounts. FCP 2150 psi FTP 2600 psi.

Daily Costs: \$20,275 CCC: \$1,239,511

**February 14, 2008**

Flow well on 16/64" choke. SICP 2150 psi FTP 2600 psi. Well still making sand. Inject foamer down annulus to help carry sand. Install 24/64" choke. Flow well with FTP 1800 psi. Sand cleaned up. Kill well down tubing to make connection. Reverse circulate with foam air. Circulate down 1 jt. Kill well down tubing to make connection. Circulate to top of fish @ 10,098'. Circulate 5' over fish with skirt and set mill on tubing stub. Mill for 30 minutes with 2,000 lbs tubing weight. Getting some torque. SI SDON.

Daily Costs: \$50,879 CCC: \$1,290,390

(Note: this includes \$38,493 for water hauling which includes frac water)

**February 15, 2008**

SICP 2800 psi SITP 2800 psi. Flow well up tubing to draw down pressure. Attempt to kill well down tubing. Blow down backside. Well started to heave large quantities of sand. Washed out flow line, flow tees and cage nipple. SI to repair flow line. Flow well through tubing on 16/64" choke for approx 2 1/2 hrs to clean up sand. Sand started to clean up. Pump down tubing to make a connection. Open up casing to flow off pressure to get well killed. Pressure would not draw down. Installed 16/64" choke bean on annulus flow. Flowed well through tubing and annulus, both on 16/64" chokes. Pressure came down to 1900 psi. Pumped into tubing to kill well. Tag fish @ 10,988'. Milled 1 1/2' of top of the fish to get rid of bell caused by jet cut. All indications are that the tubing is still attached and that it has not come loose at the first chemical cut attempt. Pull 10 stands. SI SDON

Daily Costs: \$12,305 CCC: \$1,302,695

**February 16, 2008**

SICP 510 psi SITP 100 psi. Had some well head freezing problems. Kill well. TOH w/ tubing and mill. Mill showed markings that indicated had been milling on the tubing. PU fishing tools with overshot assembly as follows:

Overshot	3 3/4" OD X 1.375" ID	2.49'
Drain Sub	3 1/8" X 1.0"	1.74'
Bumper sub	3 1/8" X 1.0"	8.01'
Jars	3 1/8" X 1.0"	8.41'
X-over	3 1/8" X 1.0"	2.00'
Drill collars 6	3 1/8" X 1.5"	182.56'
X-over	3 1/8" X 1.0"	2.58'
Bowen Accelerator	3 1/8" X 1.0"	8.59'
X-over	3 1/8" X 1.0"	1.61'

Total string 217.99'

Daily Costs: \$14,922 CCC: \$1,317,617

**February 17, 2008**

SICP 0 psi SITP 0 psi TIH with fishing tools. Tag fish @ 10,988'. Rotate over fish and catch fish. Jar & bump on fish. Jarred fish out of 45' of sand then came loose. TOH. Recovered 109' of 2 3/8" tubing. This is from the first chemical cut that was supposed to have been @ 11,059'. It was actually cut @ 11,097'. Fish left in hole is mill + x-over + 17' 2 3/8". TIH with kill string to 2460' +/- . SI SDON

Daily Costs: \$11,590 CCC: \$1,329,207

**February 18, 2008**

SICP 0 psi SITP 0 psi. TOH with kill string. PU wash pipe and fishing string. TIH to 8200' +/- and well started flowing. SD kill well. Finish TIH. Tag sand @ 11,012'. Top of fish @ 11,097'. We have 85' of sand above the fish. PU tools to 10,967', 45' above sand. SI SDON.

WO pipe w/ shoe	3 5/8" OD X 3 1/4" ID	21.08'
Bushing	3 5/8" X 1 1/4"	2.10
Bumper sub	3 1/8" X 1"	8.01'
Jars	3 1/8" X 1"	8.42'
X-over	3 1/8" X 1"	2.00'
6 Drill collars	3 1/8" X 1 1/2"	182.56'
X-over	3 1/8" X 1"	2.58"
Accelerator	3 1/8" X 1"	8.60'
X-over	3 1/8" X 1"	1.16'

Total Length 236.96'

Daily Costs: \$9,785 CCC: \$1,338,992

**February 19, 2008**

SICP 600 psi SITP 0 psi. Start foam air injection down annulus. Establish circulation. Tag sand @ 10,012'. Circulate out sand 10,012' to 11,116' with circulating pressure of 1800-1850 psi. Stuck mill is @ 11,116'. Rotate down onto mill. Lost circulation on tubing. Casing pressure increased to 2050 psi. Have intermittent returns on tubing. Pump 42 bbls (tubing volume) 2% KCL water down tubing. Caught pressure at that point. SD pumping, pressure bled off slowly. Pull 6 stands of tubing. Kill well down annulus with 140 bbls 2% KCL water. SI SDON

Daily Costs: \$10,355 CCC: \$1,349,347

**February 20, 2008**

SICP 0 psi SITP 840 psi. Blow down tubing pressure through 16/64" choke. TIH to 11,114'. No sand fill. TOH with wet string. Drill collars plugged with sand. Break out tools & set back collars. TIH w/ 50 stand kill string. Note: Had small amount of metal filings inside the wash over pipe.

Daily Costs: \$9,290 CCC: \$1,358,637

**February 21, 2008**

SICP 30 psi SITP 0 psi TOH w/ 50 stand kill string. PU fishing string. TIH to 10,516' +/- . SI SDON

Over shot	3 3/4" X 1.375"	2.49'
String sub	3 1/8" X 1.0"	1.74'
Bumper sub	3 1/8" X 1.0"	8.03'
Jars	3 1/8" X 1.0"	8.40'
6 Drill Collars	3 1/8" X 1.0"	175.07'
Acc. Sub	3 1/8" X 1.0"	8.41'
X-over sub	3 1/8" X 1.0"	1.61'

Daily Costs: \$13,893 CCC: \$1,372,530

**February 22, 2008**

TIH with 50 stands. Tag fish @ 11,097'. Work overshot 2 hrs trying to catch fish. Bump down hard 1/2 hr. Moved 7' - 8' down hole. TOH with fishing tools. Did not recover the fish. Had some sand in grapple. Top of fish now at 11,104'. PU wash over shoe assembly with jars and bumper sub. TIH to 10,436' SI SDON

Wash over pipe	3 5/8" X 3 1/4"	21.08'
Bushing	3 5/8" X 1 1/4"	2.10'

Bumper sub	3 1/8" X 1.0"	8.03'
Jars	3 1/8" X 1.0"	8.40'
6 Drill Collars	3 1/8" X 1.0"	175.07'
Acc. Sub	3 1/8" X 1.0"	8.41'
X-over sub	3 1/8" X 1.0"	1.61'

Daily Costs: \$9,675 CCC: \$1,382,205

**February 23, 2008**

SICP 0 psi SITP 0 psi. TIH to 11,076'. Inject foam/air down annulus. Made 3 swab runs from 4000' to help establish returns up tubing. Started to get weak returns on tubing with 1900 psi on casing with air. Started losing returns on tubing and CP increased to 2120 psi then returns stopped. Indicated plugging in tubing. Pump foam/air down tubing. Pressure to 2200 psi (max output of compressor) Cannot pump down tubing. Surge pressure off of tubing. Attempt to pump down tubing again. Pressured to 2200 psi. Still plugged. Continue to work pipe, pipe is free. Blow down casing and start well flowing. Started to get very heavy flow of sand. Flow well on 18/64" choke and work tubing still recovering large volumes of sand slugs and water. Flow and work pipe for 3 hours. CP 1440 psi on 18/64" choke. Left well flowing overnight to clean up sand. This AM CP 1280 psi on 18/64" choke with intermittent sand and water slugs. Flow rate is much lower than previously. Appears that there is sand across part of the perforations.

Daily Costs: \$13,754 CCC: \$1,395,959

**February 24, 2008**

FCP 1280 psi on 18/64 choke. Still getting some sand. Start to kill well down annulus. Work 85 bbls 2% KCL water down annulus with max pressure of 3200 psi over 6 hours. CP 900 psi. SI SDON

Daily costs: \$8,820 CCC: \$1,404,779

**February 25, 2008**

SICP 890 psi SITP 0 psi. Blow down casing. Kill well with 25 bbls 2% KCL water down annulus. TOH with work string. Kill well 4 times during trip. LD fishing tools. PU production string with slick collar on bottom + 1 jt 2 3/8" + 1.81" "R" Nipple. TIH with 66 stands + a single. SI SDON.

Daily Costs: \$85,036\* CCC: \$1,489,815  
\*Includes \$74,261 fishing tools

**February 26, 2008**

SICP 440 psi SITP 0 psi. Blow casing down. TIH to 10,904'. RU swab. Swab tubing down to 3500'. Blow well around with foam/air down the tubing. Recover a small amount of sand. CO to 10,957' with intermittent slugs of sand. Circulate to clean up. SI SDON

Daily Costs: \$14,570 CCC: \$1,504,385

**February 27, 2008**

SICP 2400 psi SITP 2600 psi. Flow well to pit down to 1800 psi. Start circulation with foam/air down tubing. Pump foam flag and time returns. Clean out sand with foam/air circulation down the tubing killing tubing between connections. CO to top of fish @ 11,108 KB. Circulate hole clean. Shut down air and kill tubing. LD 5 jts tubing and land tubing on donut in tubing head.

Tubing collar end of tubing	10,957'
1 jt. 2 3/8" 4.7# P-110	
1.18" "R" Nipple	10,923'
335 jts 2 3/8" 4.7# P-110	

ND BOP. NU tree. Lay flow lines to pit and install cage nipple with a 16/64" choke bean. Flow well through tubing to clean up. Start to rig down equipment to move out.

This AM FTP 2400 psi. CP 2720 psi. Flowing through the tubing on a 16/64" choke. Have a mist of water.

Daily Costs: \$12,208 CCC: \$1,516,593

**February 28, 2008**

CP 2720 psi FTP 2400 psi. Flow well for approx. 17 hrs at stabilized rate. SI well @ 10:00 AM 2/27/08. SICP 2780 psi SITP 2400 psi @ 22 hrs SI. Demobilize equipment

Daily Costs: \$65,114 CCC: \$1,581,707  
(Includes \$48,790 for foam/air machine)

**February 29, 2008**

SICP 2850 psi SITP 2400 psi

Cost Adjustments:	\$143,628	CCC:	\$1,725,335
Includes:			
Tubing	\$67,870		
Flow Line	\$63,647		
De-mob	\$12,111		

**March 3, 2008**

SICP 2925 psi SITP 2100 psi

Questar installing meter run

**Last report until production equipment installation**

**April 25, 2008**

Repair roads and move in production equipment. Will start setting equipment this AM.

Costs:	\$220,887	CCC:	\$1,946,222
Equipment	\$145,120		
Roads/Trucking	\$75,757		

**April 26, 2008**

SICP 3200 psi. SITP 2250 psi

Unload all equipment. Set 4 400 bbl tanks on pad and lay out stair ways. Set gas production unit, 1,500,000 BTU, 6500 PSI Coils, 24" x 10' 1440 PSI 3 Phase Separator. Set 30" 1600 psi 375,000 btu dehy unit and BTEX separator. Rip trench from well head to production unit. SDON

Daily Costs:	\$10,475	CCC:	\$1,956,697
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**April 27, 2008**

Continue setting equipment and trenching for flow line.

Daily Costs:	\$4024	CCC:	\$1,960,721
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**April 28, 2008**

SD for Sunday

Daily Costs:	\$0	CCC:	\$1,960,721
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**April 29, 2008**

Work on stairs and landing for tank battery. Lay & measure piping. Set BTEX unit and measure out piping. Note: welders did not show up. Looking for new welders.

Daily Costs:	\$2855	CCC:	\$1,963,576
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**April 30, 2008**

Finish setting BTEX unit and nipple up contactor tower. Lay out 4" flowline and well head connections.

Daily Costs:	\$5170	CCC:	\$1,968,746
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**May 1, 2008**

Welded 4" flow line from wellhead to separator. Ran dump lines to tanks. Assemble and install hatches. Moved in meter building for 3" meter run & set.

Daily Costs:	\$10,180	CCC:	\$1,978,926
Cumulative Facilities:	\$254,020		

**May 2, 2008**

Continue assembling production facilities. 65% complete

Daily Costs:	\$8140	CCC:	\$1,987,066
Cumulative Facilities:	\$262,160		

**May 3, 2008**

Continue installing production facilities. Approx. 75% completed

Daily Costs:	\$8,200	CCC:	\$1,995,266
Cumulative Facilities:	\$270,360		

**May 4, 2008**

Continue assemble of production facilities.

Daily Costs:	\$6520	CCC:	\$2,001,786
Cumulative Facilities:	\$276,880		

**May 5, 2008**

SD for Sunday		CCC:	\$2,001,786
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**May 6, 2008**

Installing dump valves on separator and dehydrator. Setting 3" meter run. Build manifold going into dehydrator.

Daily Cost:	\$6570	CCC:	\$2,008,356
Cum. Facilities:	\$283,450		

**May 7, 2008**

Finish manifold on wellhead. Continue additional fabrication and installations.

Daily Costs:	\$7230	CCC:	\$2,015,586
Cum Facilities:	\$290,680		

**May 8, 2008**

Make final ties in to dehy and well head. Start laying line from dehy to pipeline. RU Tefteller Wireline & run bottom hole pressure. Recorded surface pressure, 2941 psi. BHP @ 11,030' mid-point of perms, 3736 psi. Pressure gradient 0.3387 psi/ft measured depth. Recorded temperature 236 deg.

Daily Costs:	\$10,410	CCC:	\$2,025,996
Cum. Facilities	\$301,090 (Includes pressure survey)		

**May 9, 2008**

Finish installation of production facilities. Attempt to pressure test. Have leaking valve between the separator and dehydrator. SD. Wait for replacement valve and for glycol and antifreeze for units. Still need to make final tie in at road crossing.

Daily Costs:	\$9835	CCC:	\$2,035,831
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**May 10, 2008**

Replace leaking valve. Make tie ins at road crossings. Wrap and bury pipe across roads. Pressure test system ok. Shut down and release crews. Wait on glycol to be delivered on May 12. First delivery should be on May 12.

Daily Costs:	\$7845	CCC:	\$2,043,676
Cum Facilities:	\$315,770		

**May 11, 2008**

SD wait on glycol

Cum Facilities: \$315,770 CCC: \$2,043,676

**May 12, 2008**

SD wait on glycol

Cum Facilities: \$315,770 CCC: \$2,043,676

**May 13, 2008**

Fig 4" production line and pressure test ok. Purge lateral. Test gas quality with Questar ok. Repair various leaks in separator and dehy. Fill separator and dehy with antifreeze and glycol. Repair antifreeze leak in production unit. Work on suction side of high pressure glycol pump on dehy. Wait on parts to repair dump valves.

Daily Costs: \$4828  
Cum. Facilities: \$326,928 CCC: \$2,050,286

**May 14, 2008**

Work on production equipment. Repaired burner in production unit and started heating unit. Repaired glycol pump on dehy. Attempt to repair hi-lo valve on production unit. Can not get valve to open. SD for night.

Daily Costs: \$3330 CCC: \$2,053,616

**May 15, 2008**

Repair Hi-lo valve. Continue to readjust & rebuild equipment. Patton Services installed auto igniters and monitoring equipment on the flare and the BTEX unit. Unable to get the igniters to function. SD for night.

Daily Costs: \$4350  
Cum Facilities: \$331,278 CCC: \$2,057,966

**May 16, 2008**

Continue de-hy repairs. Re-install igniters & monitors on dehy and BTEX unit. Put well on production. First delivery at 20:00 hrs 5-15-08.

<u>Time</u>	<u>CP</u>	<u>TP</u>	<u>MCFD</u>	<u>Choke</u>
20:00	2950	2940	4,090	12/64
22:00	2940	2800	3,991	12/64
23:00	2940	2800	3,977	12/64

At 22:30 the coils in the production unit failed and blew the antifreeze out of the unit. SI and secured well. Wait for repairs. At 6:00 AM SICP 2950 psig SITP 2810 psig.

Daily Costs: \$3170  
Cum. Equipment \$334,448 CCC: \$2,061,136

**May 17, 2008**

Disassemble production unit to determine cause of failure. Pulled heat coils and fire tube. Could not see any problems. Sent coils into CE Natco in Vernal to have hydro tested. Tested OK. Returned coils to location with new parts for re-installation. SDON

Daily Costs: \$3800  
Cum Facilities: \$338,248 CCC: \$2,064,936

**May 18, 2008**

Install heat coils in production unit. Install piping and pressure test with well gas to 900 psi. Found a high pressure regulator leaking gas. Disassembled regulator. Found to be faulty allowing gas to dump into the coolant. Replace regulator. Install fire tube and NU all lines. Check for leaks. Replaced snap head on oil dump. Filled production unit with anti freeze and assemble fire tube stack. Pressure up dehy and BTEX unit.

OK Start fires in all units to bring up to operating temperature. Left equipment @ operating temp. Questar will arrive in AM to deliver the well. Calibrate well site production meter.

Daily Costs: \$3650  
Cum. Facilities: \$341,898 CCC: \$2,068,586

**May 19, 2008**

Turn well on @ 6:30 AM. SI CP 2950 psi SITP 2910 psi. At 8:00 PM, well is stabilized at 4,018 MCFD CP 2850 psi TP 2630 psi 19/64 choke.

**May 20, 2008**

Adjust equipment. Clean up location. Flare stack on BTEX unit started to overheat. SD BTEX unit and inspected. There is a section of insulation missing. Left well producing while locating insulation. 06:00 today, flow rate 4,105 MCFD CP 2800 psi TP 2580 psi.

Daily Costs: \$26,410 (Includes glycol and camp rental)  
Cum Facilities: \$368,308 CCC: \$2,094,996

**May 21, 2008**

Continue to flow well to sales and repair equipment. Hose on high pressure glycol pump failed. Replaced hose. High pressure regulator on the separator failed for the 3<sup>rd</sup> time. Found that there was 500 psi trim in the 1500 psi regulator. Well SI for 2 hrs for repairs. Finished cleaning up location.

<u>Time</u>	<u>CP</u>	<u>TP</u>	<u>Rate</u>	<u>Choke</u>
12:00	2800	2550	3636	19/64
06:00	2760	2460	4071	20/64

Note: Questar line pressure has increased slightly.

Daily Costs: \$4138  
Cum Facilities: \$372,438 CCC: \$2,099,134

**May 22, 2008**

Continue to locate parts for separator and BTEX flare stack. Parts arrived late afternoon. Installed insulation in flare stack and made repairs to regulator. While picking up the flare stack to re-install, the roustabout crew dropped the flare stack and damaged all of the insulation. SI well.. Left well SI overnight. This AM SICP 2850 psi SITP 2790 psi.

Daily Costs: \$3250  
Cum. Facilities: \$375,688 CCC: \$2,102,304

**May 23, 2008**

Try to located new flare stack. Re-plumb pump lines on BTEX pump to get sufficient volume. SDON wait on flare stack.

Daily Costs: \$2950  
Cum. Facilities: \$378,638 CCC: \$2,105,254

**May 24, 2008**

Reset flare stack. Replaced gas control lines to BTEX pump. Repair dump valves on BTEX unit. Heat up dehy to 300 deg. Could not pump glycol. Bleed & primed pump. Still could not circulate glycol to still column through heat coils. SDON

Daily Costs: \$2550  
Cum. Facilities: \$381,188 CCC: \$2,107,804

**May 25, 2008**

Move lines to pump. Found Y strainer full of trash. Clean out strainer and started pulling heat coils out of dehy to clean and inspect. Change out filters again. Build glycol volume and bring temp up to operating temperature. Started to circulate glycol through the heat coils. Brought well on at 1,220 MCFD. Discovered

that are losing glycol down the sales line. Shut down glycol pump and continued to flow gas. Reduced separator temperature to 60 deg. And increase gas flow to 2,431 MCFD. Left flowing overnight. This AM FCP 2850 psi FTP 2780 psi Rate of 2,434 MCFD Choke 8/64.

Daily Costs:	\$2550		
Cum. Facilities:	\$383,738	CCC:	\$2,110,354

**May 26, 2008**

AM CP 2850 psi TP 2780 psi. flowing at 2431 MCFD. Increased production to 4027 MCFD. Wait on dehy repair people.

Daily Costs:	\$1450		
Cum. Facilities:	\$385,188	CCC:	\$2,111,804

**May 27, 2008**

CP 2840 psi TP 2800 psi. separator frozen up. Thaw equipment. Put well back on production at 3891 MCFD. Increase production to 5011 MCFD. Wind blowing and can not keep the fire in the separator burning. Will install baffles in flare stack. Shut well in for safety. SDON

Daily Costs:	\$1450		
Cum. Facilities:	\$386,638	CCC:	\$2,113,254

**May 28, 2008**

Service personnel with High Country Equipment arrived location 1:00 PM. Start repair and cleaning of separator. Pull dumps and start cleaning out unit. Recovered a large amount of scale and rust along with mouse nests and bird nests. Re-plumbed the flash separator on the BTEX unit. SDON

Daily Costs:	\$4200		
Cum. Facilities:	\$390,838	CCC:	\$2,117,454

**May 29, 2008**

Disassemble separator. RU steam clean unit. Steam clean for 3 hrs to clean out all of the gunk. R0assemble. Prepare dehy for gas delivery. Turn gas through facilities and monitor dehy equipment. Found that the contact tower is plugged. SI SDON Wait on cleaning unit to acidize and clean the tower.

Daily Costs:	\$2650		
Cum Facilities:	\$393,488	CCC:	\$2,120,104

**May 30, 2008**

RU Moneyhun cleaning unit. Attempt to cleanout contact tower on dehy unit. Appears that the trays have broken loose and that the downcomer is plugged. Ceased operations and shut in well. Wait for new unit or new contact tower.

Daily Costs:	\$2250		
Cum. Facilities:	\$395,738	CCC:	\$2,122,354

**May 31, 2008**

SI wait on new contactor tower.

Cum. Facilities:	\$395,738	CCC:	\$2,122,354
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**June 1, 2008**

SI wait on new contactor tower.

Cum. Facilities:	\$395,738	CCC:	\$2,122,354
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**June 2, 2008**

SI wait on new contactor tower.

Cum. Facilities:	\$395,738	CCC:	\$2,122,354
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**June 3, 2008**

SI wait on new contactor tower.

Cum. Facilities:	\$395,738	CCC:	\$2,122,354
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**June 4, 2008**

SI wait on new contactor tower.

Cum. Facilities:	\$395,738	CCC:	\$2,122,354
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**June 5, 2008**

SI wait on new contactor tower.

Cum. Facilities:	\$395,738	CCC:	\$2,122,354
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**June 6, 2008**

SI wait on new contactor tower.

Cum. Facilities:	\$395,738	CCC:	\$2,119,104
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**June 7, 2008**

Move in crane. High country arrived with new contact tower for the dehy. Dismantled and removed the old tower. Set new tower in place and start to plumb in.

Daily Costs:	\$4150		
Cum: Facilities:	\$401,338	CCC:	\$2,123,254

**June 8, 2008**

Assemble new contact tower on dehy unit. Load with TEG. Build temperature in unit to 370 deg. Start gas delivery at 1,021 MCFD last night.. SICP 2940 psi SITP 2900 psi. Increased flow rate to 3,000 MCFD through night. This AM well flowing at 3,000 MCFD.

Daily Costs:	\$1450		
Cum Facilities:	\$402,788	CCC:	\$2,124,704

ENTITY ACTION FORM

Operator: STEWART PETROLEUM CORPORATION Operator Account Number: N 3145  
 Address: 475 17th St., Ste. 790  
 city Denver  
 state CO zip 80202 Phone Number: 303/799/1922

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739299	Tumbleweed #18-9		NESE	18	15S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	16926	10/12/2007			6/19/08	
Comments: <u>ENWIN <sup>NEW WELL!!</sup></u> <u>BHL=SWSE</u>							<b>CONFIDENTIAL</b>

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							<b>RECEIVED</b> JUN 10 2008

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

DIV. OF OIL, GAS & MINING

Daryl R. Stewart  
Name (Please Print)

[Signature]  
Signature

President  
Title

6/8/08  
Date

CONFIDENTIAL

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

*TYPE HOLE*

AMENDED REPORT  FORM 8  
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  OTHER \_\_\_\_\_

b. TYPE OF WORK: NEW WELL  HORIZ. LATS.  DEEP-EN  RE-ENTRY  DIFF. RESVR.  OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
Stewart Petroleum Corporation

3. ADDRESS OF OPERATOR:  
475 17th Street Ste. 790 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 799-1922

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: 1700' FSL & 660' FEL NE 1/4 SE 1/4  
AT TOP PRODUCING INTERVAL REPORTED BELOW: 1026' FSL & 2023' FEL SW 1/4 SE 1/4  
AT TOTAL DEPTH: 1026' FSL & 2023' FEL SW 1/4 SE 1/4

954 fsl 1981 fel  
per DKD review

14. DATE SPUNDED: 10/12/2007 15. DATE T.D. REACHED: 11/22/2007 16. DATE COMPLETED: 1/13/2008  
ABANDONED  READY TO PRODUCE

18. TOTAL DEPTH: MD 11,650 TVD 11,500 19. PLUG BACK T.D.: MD 11,550 TVD 11,400 20. IF MULTIPLE COMPLETIONS, HOW MANY? \* 21. DEPTH BRIDGE PLUG SET: MD 11,460 TVD 11,340

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
*ACTR, CBL, GR, CCL, CNL*

23. WAS WELL CORED? NO  YES  (Submit analysis)  
WAS DST RUN? NO  YES  (Submit report)  
DIRECTIONAL SURVEY? NO  YES  (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14"		0	60				Surface	
12 3/4"	9 5/8" K-55	36#	0	2,196		1455		Surface	
7 7/8"	4 1/2" P110	11.6#	0	11,650	8,479	1640		3542' CBL	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	10,957							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Wingate	11,480	11,650		
(B) Entrada	10,994	11,222		
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
11,510 11,520	.32"	40	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
11,010 11,040	.32"	120	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
11,128 11,148	.32"	40	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
11510'-11520'	31180 gals + 51000# sand
11128'-11148'	37639 gals + 50000# 30/50 mesh sand
11010'-11040'	51619 gals + 10200# 20/40 mesh sand

RECEIVED

JUN 10 2008

DIV. OF OIL, GAS & MINING

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS  GEOLOGIC REPORT  DST REPORT  DIRECTIONAL SURVEY  
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION  CORE ANALYSIS  OTHER: \_\_\_\_\_

30. WELL STATUS:

S

*TYPE HOLE*

**31. INITIAL PRODUCTION**

**INTERVAL A (As shown in Item #26)**

DATE FIRST PRODUCED:		TEST DATE: 12/30/2007		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL: 0	GAS – MCF: 1,000	WATER – BBL: 0	PROD. METHOD: Flowing
CHOKE SIZE:	TBG. PRESS. 50	CSG. PRESS. 600	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 1,000	WATER – BBL: 0	INTERVAL STATUS: SI	

**INTERVAL B (As shown in Item #26)**

DATE FIRST PRODUCED:		TEST DATE: 1/15/2008		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL: 0	GAS – MCF: 4,761	WATER – BBL: 0	PROD. METHOD: Flowing
CHOKE SIZE: 3/8"	TBG. PRESS.	CSG. PRESS. 1,870	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 4,762	WATER – BBL: 0	INTERVAL STATUS: SIWOPL	

**INTERVAL C (As shown in Item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:	

**INTERVAL D (As shown in Item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:	

**32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**

Vented

**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

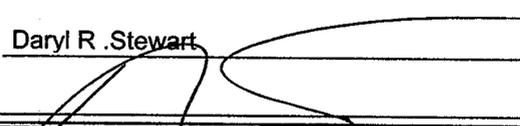
Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

**34. FORMATION (Log) MARKERS:**

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Castlegate	5,845	5,875	Gas/Water	Dakota	10,066
Mancos	6,084	10,066	Gas/Water	Morrison	10,312
Dakota	10,066	10,169	Gas	Entrada	10,970
Cedar Mtn	10,169	10,312	Gas	Wingate	11,480
Morrison	10,312	10,610	Gas		
Entrada	10,970	11,222	Gas		
Wingate	11,480	11,650	Gas/Water		

**35. ADDITIONAL REMARKS (include plugging procedure)**

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Daryl R. Stewart TITLE President  
 SIGNATURE  DATE 6/8/2008

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340  
 1594 West North Temple, Suite 1210  
 Box 145801 Fax: 801-359-3940  
 Salt Lake City, Utah 84114-5801



**Weatherford<sup>®</sup>**

## **Drilling Services**

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## **FINAL SURVEYS**

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## **STEWART PETROLEUM**

TUMBLEWEED #18-9

UINTAH COUNTY, UT

WELL FILE: FINAL

NOVEMBER 29, 2007

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**Weatherford International Ltd.**

2690 Oil Drive  
Casper, WY 82604  
+1-307-265-1413 Main  
+1-307-235-3958 Fax  
[www.weatherford.com](http://www.weatherford.com)

# STEWART PETROLEUM

TUMBLEWEED #18-9  
600' FEL, 2023' FSL  
SECTION 18 -T15S-R21E  
UINTAH COUNTY, UT



### SITE DETAILS

TUMBLEWEED #18-9  
SECTION 18 -T15S-R21E  
Site Centre Latitude: 39°30'37.510N  
Longitude: 109°36'05.650W  
Ground Level: 7225.00  
Positional Uncertainty: 0.00  
Convergence: 1.22

### WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
TUMBLEWEED #18-9	0.00	0.00	434409.96	2535576.96	39°30'37.510N	109°36'05.650W	N/A

### TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL_18-9	12000.00	-801.24	-1326.15	433608.72	2534250.82	Circle (Radius: 100)

### FIELD DETAILS

UINTAH COUNTY, UT

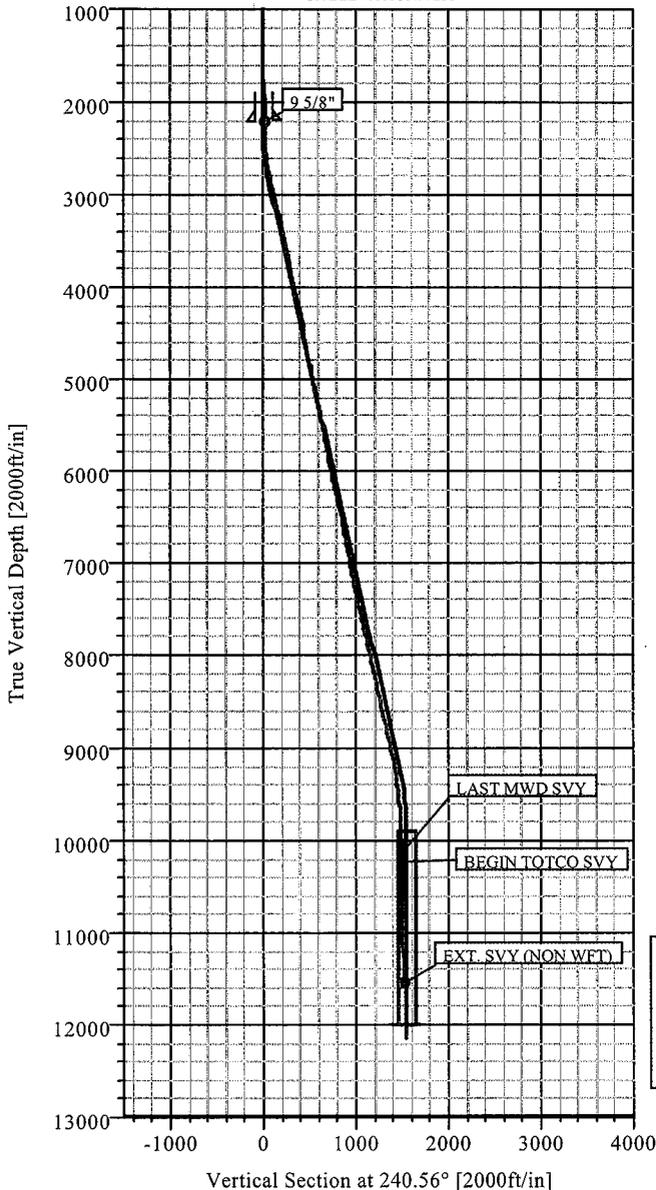
Geodetic System: US State Plane Coordinate System 1927  
Ellipsoid: NAD27 (Clarke 1866)  
Zone: Utah, Central Zone  
Magnetic Model: bggm2006

System Datum: Mean Sea Level  
Local North: Grid North

### FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	5698.00	5765.71	CASTLEGATE
2	5956.00	6028.63	MANCOS
3	6513.00	6597.34	MANCOS B
4	7293.00	7392.72	MID MANCOS MARKER
5	9466.00	9614.79	KMC 'SHOW ZONE'
6	9698.00	9847.65	DAKOTA SILT
7	9797.00	9946.85	DAKOTA
8	9966.00	10116.04	CEDAR MOUNTAIN
9	10091.00	10241.14	MORRISON
10	10669.00	10819.26	CURTIS
11	10716.00	10866.27	ENTRADA
12	11250.00	11400.33	WINGATE
13	11502.00	11652.36	CHINLE

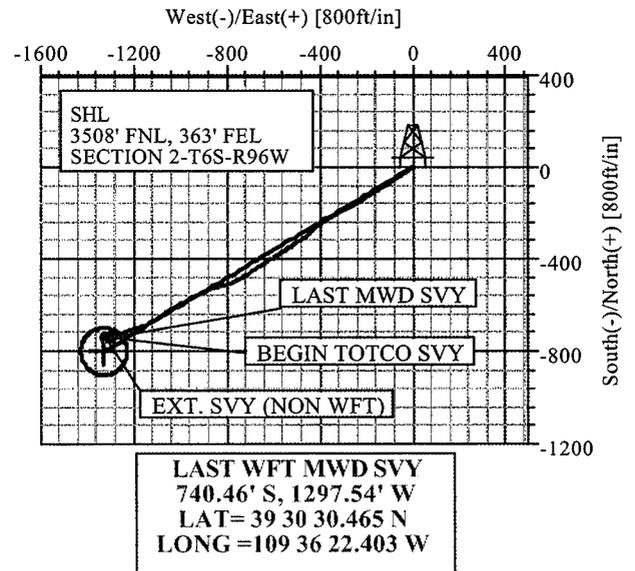
KB ELEVATION: 7240'  
GR ELEVATION: 7255'



Azimuths to Grid North  
True North: -1.22°  
Magnetic North: 10.33°

Magnetic Field  
Strength: 52463nT  
Dip Angle: 65.56°  
Date: 9/19/2007  
Model: bggm2006

TOTAL CORRECTION TO TRUE NORTH 10.33°



### EXT.TD(NON WFT): (TUMBLEWEED #18-9/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
160	11700.00	1.00	257.83	11549.63	-745.55	-1321.11	0.04	0.00	1516.96

LAT=39 30 30.419 N LONG=-109 36 22.705 W

Wellpath: (TUMBLEWEED #18-9/1)

Created By: ROBERT SCOTT

Date: 11/28/2007

# Weatherford International, Ltd.

## Survey Report - Geographic

<b>Company:</b> STEWART PETROLEUM CORPORATION	<b>Date:</b> 11/28/2007	<b>Time:</b> 09:26:40	<b>Page:</b> 1
<b>Field:</b> UINTAH COUNTY, UT	<b>Co-ordinate(NE) Reference:</b> Well: TUMBLEWEED #18-9, Grid North		
<b>Site:</b> TUMBLEWEED #18-9	<b>Vertical (TVD) Reference:</b> SITE 7240.0		
<b>Well:</b> TUMBLEWEED #18-9	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,240.56Azi)		
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

<b>Field:</b> UINTAH COUNTY, UT		
<b>Map System:</b> US State Plane Coordinate System 1927	<b>Map Zone:</b> Utah, Central Zone	
<b>Geo Datum:</b> NAD27 (Clarke 1866)	<b>Coordinate System:</b> Well Centre	
<b>Sys Datum:</b> Mean Sea Level	<b>Geomagnetic Model:</b> bggm2006	

<b>Site:</b> TUMBLEWEED #18-9 SECTION 18 -T15S-R21E		
<b>Site Position:</b>	<b>Northing:</b> 434409.96 ft	<b>Latitude:</b> 39 30 37.510 N
<b>From:</b> Geographic	<b>Easting:</b> 2535576.96 ft	<b>Longitude:</b> 109 36 5.650 W
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> Grid
<b>Ground Level:</b> 7225.00 ft		<b>Grid Convergence:</b> 1.22 deg

<b>Well:</b> TUMBLEWEED #18-9			<b>Slot Name:</b>		
<b>Well Position:</b>	<b>+N-S</b> 0.00 ft	<b>Northing:</b> 434409.96 ft	<b>Latitude:</b> 39 30 37.510 N		
	<b>+E/-W</b> 0.00 ft	<b>Easting :</b> 2535576.96 ft	<b>Longitude:</b> 109 36 5.650 W		
<b>Position Uncertainty:</b>	0.00 ft				

<b>Wellpath:</b> 1			<b>Drilled From:</b> Surface
<b>Current Datum:</b> SITE	<b>Height</b> 7240.00 ft	<b>Tie-on Depth:</b> 0.00 ft	
<b>Magnetic Data:</b> 9/19/2007		<b>Above System Datum:</b> Mean Sea Level	
<b>Field Strength:</b> 52463 nT		<b>Declination:</b> 11.54 deg	
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>Mag Dip Angle:</b> 65.56 deg
	ft	ft	<b>Direction</b>
			deg
	0.00	0.00	0.00
			240.56

<b>Survey Program for Definitive Wellpath</b>				
<b>Date:</b> 11/28/2007	<b>Validated:</b> No	<b>Version:</b> 11		
<b>Actual From</b> ft	<b>To</b> ft	<b>Survey</b>	<b>Toolcode</b>	<b>Tool Name</b>
2202.00	10276.00	Survey #1 (2202.00-10276.00)	MWD	MWD - Standard
10370.00	11700.00	Survey #2 (10370.00-11700.00)		

Survey														
MD	Incl	Azim	TVD	+N/-S	+E/-W	Map	Map	Latitude		Longitude				
ft	deg	deg	ft	ft	ft	Northing	Easting	Deg	Min	Sec	Deg	Min	Sec	
0.00	0.00	238.86	0.00	0.00	0.00	434409.96	2535576.96	39	30	37.510	N	109	36	5.650
2202.00	0.81	228.96	2201.93	-10.22	-11.74	434399.75	2535565.23	39	30	37.411	N	109	36	5.803
2265.00	1.75	231.08	2264.91	-11.12	-12.82	434398.85	2535564.14	39	30	37.403	N	109	36	5.817
2328.00	2.81	247.08	2327.86	-12.32	-14.99	434397.64	2535561.97	39	30	37.391	N	109	36	5.845
2392.00	3.75	247.96	2391.75	-13.72	-18.38	434396.25	2535558.58	39	30	37.378	N	109	36	5.888
2487.00	5.25	242.21	2486.46	-16.91	-25.10	434393.05	2535551.86	39	30	37.348	N	109	36	5.975
2582.00	6.69	231.46	2580.94	-22.39	-33.28	434387.58	2535543.69	39	30	37.296	N	109	36	6.081
2646.00	7.88	231.33	2644.43	-27.45	-39.62	434382.52	2535537.34	39	30	37.247	N	109	36	6.163
2752.00	9.63	231.33	2749.19	-37.53	-52.22	434372.43	2535524.75	39	30	37.150	N	109	36	6.326
2816.00	11.56	230.83	2812.09	-44.93	-61.37	434365.04	2535515.60	39	30	37.079	N	109	36	6.445
2879.00	12.75	234.33	2873.68	-52.97	-71.91	434357.00	2535505.05	39	30	37.002	N	109	36	6.582
2943.00	13.13	235.71	2936.06	-61.18	-83.65	434348.78	2535493.31	39	30	36.923	N	109	36	6.734
3038.00	12.50	239.71	3028.69	-72.45	-101.45	434337.52	2535475.52	39	30	36.815	N	109	36	6.964
3134.00	12.13	239.21	3122.48	-82.85	-119.08	434327.12	2535457.88	39	30	36.716	N	109	36	7.192
3229.00	12.81	237.96	3215.24	-93.55	-136.58	434316.42	2535440.38	39	30	36.614	N	109	36	7.418
3292.00	12.63	237.71	3276.69	-100.93	-148.33	434309.03	2535428.64	39	30	36.544	N	109	36	7.570
3387.00	12.88	238.46	3369.35	-112.02	-166.13	434297.95	2535410.83	39	30	36.438	N	109	36	7.800
3483.00	13.31	238.83	3462.85	-123.33	-184.71	434286.63	2535392.26	39	30	36.330	N	109	36	8.040
3578.00	13.50	238.96	3555.26	-134.71	-203.56	434275.25	2535373.40	39	30	36.221	N	109	36	8.283
3673.00	13.50	240.83	3647.64	-145.83	-222.75	434264.13	2535354.22	39	30	36.116	N	109	36	8.531
3768.00	12.75	242.46	3740.16	-156.09	-241.72	434253.88	2535335.24	39	30	36.018	N	109	36	8.776

# Weatherford International, Ltd.

## Survey Report - Geographic

<b>Company:</b> STEWART PETROLEUM CORPORATION	<b>Date:</b> 11/28/2007	<b>Time:</b> 09:26:40	<b>Page:</b> 2
<b>Field:</b> UINTAH COUNTY, UT	<b>Co-ordinate(NE) Reference:</b> Well: TUMBLEWEED #18-9, Grid North		
<b>Site:</b> TUMBLEWEED #18-9	<b>Vertical (TVD) Reference:</b> SITE 7240.0		
<b>Well:</b> TUMBLEWEED #18-9	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,240.56Azi)		
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	←← Latitude →→		←← Longitude →→	
								Deg	Min Sec	Deg	Min Sec
3831.00	13.00	242.21	3801.57	-162.60	-254.16	434247.36	2535322.81	39 30	35.956 N	109 36	8.936 W
3926.00	11.56	241.33	3894.40	-172.15	-271.96	434237.81	2535305.00	39 30	35.866 N	109 36	9.166 W
4022.00	11.44	240.83	3988.47	-181.41	-288.72	434228.56	2535288.25	39 30	35.778 N	109 36	9.382 W
4117.00	11.00	240.21	4081.66	-190.50	-304.81	434219.46	2535272.16	39 30	35.691 N	109 36	9.590 W
4212.00	11.25	240.08	4174.87	-199.63	-320.70	434210.34	2535256.26	39 30	35.604 N	109 36	9.795 W
4276.00	10.94	240.21	4237.67	-205.76	-331.39	434204.21	2535245.58	39 30	35.546 N	109 36	9.933 W
4371.00	12.00	237.08	4330.78	-215.61	-347.50	434194.36	2535229.46	39 30	35.452 N	109 36	10.141 W
4466.00	11.69	234.83	4423.75	-226.52	-363.66	434183.45	2535213.31	39 30	35.348 N	109 36	10.350 W
4561.00	11.50	235.33	4516.81	-237.45	-379.31	434172.52	2535197.65	39 30	35.243 N	109 36	10.553 W
4656.00	11.81	235.71	4609.86	-248.31	-395.13	434161.65	2535181.83	39 30	35.139 N	109 36	10.758 W
4778.00	10.19	229.21	4729.62	-262.40	-413.62	434147.57	2535163.34	39 30	35.004 N	109 36	10.998 W
4878.00	9.81	229.73	4828.10	-273.68	-426.82	434136.28	2535150.15	39 30	34.895 N	109 36	11.169 W
4910.00	9.56	228.33	4859.64	-277.21	-430.88	434132.75	2535146.08	39 30	34.861 N	109 36	11.222 W
4942.00	10.00	227.71	4891.17	-280.85	-434.92	434129.12	2535142.04	39 30	34.826 N	109 36	11.274 W
4973.00	10.44	228.96	4921.68	-284.50	-439.03	434125.46	2535137.93	39 30	34.791 N	109 36	11.328 W
5005.00	10.63	228.83	4953.14	-288.35	-443.44	434121.62	2535133.52	39 30	34.753 N	109 36	11.385 W
5037.00	11.31	229.46	4984.56	-292.33	-448.05	434117.63	2535128.92	39 30	34.715 N	109 36	11.445 W
5069.00	11.63	230.21	5015.92	-296.43	-452.91	434113.53	2535124.05	39 30	34.676 N	109 36	11.508 W
5101.00	12.44	229.58	5047.22	-300.73	-458.01	434109.23	2535118.95	39 30	34.634 N	109 36	11.574 W
5133.00	13.31	232.33	5078.41	-305.22	-463.55	434104.75	2535113.41	39 30	34.591 N	109 36	11.646 W
5164.00	13.75	235.08	5108.55	-309.51	-469.40	434100.46	2535107.57	39 30	34.550 N	109 36	11.722 W
5196.00	13.88	236.33	5139.63	-313.81	-475.71	434096.15	2535101.25	39 30	34.509 N	109 36	11.804 W
5228.00	13.63	235.46	5170.71	-318.08	-482.01	434091.88	2535094.95	39 30	34.468 N	109 36	11.885 W
5291.00	12.50	234.21	5232.08	-326.28	-493.66	434083.69	2535083.31	39 30	34.389 N	109 36	12.036 W
5355.00	11.19	235.96	5294.71	-333.80	-504.42	434076.16	2535072.54	39 30	34.317 N	109 36	12.175 W
5387.00	11.06	236.46	5326.11	-337.24	-509.55	434072.73	2535067.41	39 30	34.284 N	109 36	12.242 W
5419.00	10.63	236.96	5357.54	-340.54	-514.59	434069.42	2535062.38	39 30	34.253 N	109 36	12.307 W
5450.00	10.56	237.08	5388.01	-343.64	-519.37	434066.32	2535057.60	39 30	34.223 N	109 36	12.368 W
5482.00	10.69	236.58	5419.46	-346.87	-524.31	434063.09	2535052.66	39 30	34.192 N	109 36	12.432 W
5514.00	10.88	236.33	5450.90	-350.18	-529.30	434059.78	2535047.67	39 30	34.160 N	109 36	12.497 W
5545.00	10.88	236.46	5481.34	-353.42	-534.17	434056.54	2535042.80	39 30	34.129 N	109 36	12.560 W
5577.00	11.13	236.46	5512.75	-356.80	-539.26	434053.17	2535037.70	39 30	34.097 N	109 36	12.626 W
5608.00	11.13	235.46	5543.17	-360.15	-544.22	434049.82	2535032.74	39 30	34.065 N	109 36	12.690 W
5640.00	10.81	234.83	5574.58	-363.62	-549.22	434046.34	2535027.75	39 30	34.032 N	109 36	12.755 W
5672.00	10.88	233.96	5606.01	-367.13	-554.11	434042.83	2535022.85	39 30	33.998 N	109 36	12.818 W
5703.00	10.94	234.08	5636.45	-370.58	-558.86	434039.39	2535018.10	39 30	33.965 N	109 36	12.880 W
5735.00	11.00	235.71	5667.87	-374.08	-563.84	434035.89	2535013.12	39 30	33.932 N	109 36	12.944 W
5767.00	11.25	237.08	5699.27	-377.50	-568.98	434032.47	2535007.98	39 30	33.899 N	109 36	13.011 W
5799.00	10.81	237.21	5730.67	-380.82	-574.13	434029.15	2535002.84	39 30	33.867 N	109 36	13.077 W
5830.00	10.69	236.08	5761.13	-384.00	-578.96	434025.97	2534998.01	39 30	33.837 N	109 36	13.140 W
5862.00	10.56	238.33	5792.58	-387.19	-583.92	434022.77	2534993.05	39 30	33.806 N	109 36	13.204 W
5894.00	10.88	239.96	5824.02	-390.24	-589.03	434019.72	2534987.94	39 30	33.777 N	109 36	13.270 W
5926.00	11.25	239.71	5855.43	-393.33	-594.33	434016.64	2534982.63	39 30	33.748 N	109 36	13.338 W
5957.00	11.50	239.21	5885.82	-396.44	-599.60	434013.53	2534977.36	39 30	33.718 N	109 36	13.406 W
6021.00	11.56	238.21	5948.53	-403.08	-610.53	434006.89	2534966.43	39 30	33.655 N	109 36	13.548 W
6084.00	11.25	237.83	6010.28	-409.68	-621.10	434000.29	2534955.87	39 30	33.592 N	109 36	13.684 W
6116.00	10.81	237.46	6041.69	-412.95	-626.27	433997.01	2534950.69	39 30	33.560 N	109 36	13.751 W
6148.00	10.38	236.21	6073.15	-416.17	-631.20	433993.79	2534945.77	39 30	33.530 N	109 36	13.815 W
6179.00	10.44	235.83	6103.64	-419.30	-635.84	433990.66	2534941.12	39 30	33.500 N	109 36	13.875 W
6211.00	10.56	236.71	6135.10	-422.54	-640.69	433987.43	2534936.27	39 30	33.469 N	109 36	13.938 W
6243.00	11.56	238.08	6166.51	-425.84	-645.86	433984.12	2534931.10	39 30	33.437 N	109 36	14.004 W
6274.00	12.25	238.33	6196.84	-429.21	-651.30	433980.75	2534925.67	39 30	33.405 N	109 36	14.075 W
6306.00	12.50	238.71	6228.10	-432.79	-657.15	433977.17	2534919.82	39 30	33.371 N	109 36	14.150 W

# Weatherford International, Ltd.

## Survey Report - Geographic

<b>Company:</b> STEWART PETROLEUM CORPORATION	<b>Date:</b> 11/28/2007	<b>Time:</b> 09:26:40	<b>Page:</b> 3
<b>Field:</b> Uintah County, UT	<b>Co-ordinate(NE) Reference:</b> Well: TUMBLEWEED #18-9, Grid North		
<b>Site:</b> TUMBLEWEED #18-9	<b>Vertical (TVD) Reference:</b> SITE 7240.0		
<b>Well:</b> TUMBLEWEED #18-9	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,240.56Azi)		
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →		← Longitude →	
								Deg	Min Sec	Deg	Min Sec
6337.00	12.31	238.46	6258.37	-436.27	-662.83	433973.70	2534914.13	39 30	33.338 N	109 36	14.224 W
6401.00	12.13	239.71	6320.92	-443.23	-674.45	433966.74	2534902.51	39 30	33.271 N	109 36	14.374 W
6433.00	12.19	239.33	6352.20	-446.64	-680.26	433963.32	2534896.70	39 30	33.239 N	109 36	14.449 W
6496.00	11.88	237.21	6413.82	-453.55	-691.43	433956.42	2534885.53	39 30	33.173 N	109 36	14.593 W
6591.00	11.81	234.46	6506.80	-464.50	-707.57	433945.47	2534869.40	39 30	33.068 N	109 36	14.802 W
6655.00	11.25	235.21	6569.51	-471.86	-718.02	433938.10	2534858.94	39 30	32.998 N	109 36	14.937 W
6718.00	11.06	236.21	6631.32	-478.73	-728.09	433931.23	2534848.87	39 30	32.932 N	109 36	15.068 W
6750.00	10.63	238.96	6662.74	-481.96	-733.17	433928.00	2534843.79	39 30	32.901 N	109 36	15.133 W
6782.00	10.94	241.83	6694.18	-484.92	-738.38	433925.05	2534838.59	39 30	32.873 N	109 36	15.201 W
6813.00	11.69	242.96	6724.58	-487.73	-743.77	433922.23	2534833.20	39 30	32.846 N	109 36	15.270 W
6877.00	11.69	244.46	6787.25	-493.48	-755.39	433916.49	2534821.57	39 30	32.792 N	109 36	15.420 W
6940.00	10.00	244.33	6849.12	-498.60	-766.08	433911.37	2534810.88	39 30	32.743 N	109 36	15.558 W
6972.00	9.13	245.33	6880.68	-500.86	-770.89	433909.10	2534806.07	39 30	32.722 N	109 36	15.620 W
7035.00	9.38	244.33	6942.86	-505.17	-780.06	433904.79	2534796.90	39 30	32.681 N	109 36	15.738 W
7067.00	9.19	245.71	6974.44	-507.35	-784.74	433902.61	2534792.22	39 30	32.661 N	109 36	15.798 W
7098.00	10.00	249.71	7005.00	-509.30	-789.52	433900.66	2534787.44	39 30	32.643 N	109 36	15.860 W
7130.00	11.75	250.46	7036.43	-511.36	-795.20	433898.61	2534781.77	39 30	32.623 N	109 36	15.933 W
7162.00	12.44	253.33	7067.72	-513.44	-801.57	433896.53	2534775.39	39 30	32.604 N	109 36	16.014 W
7194.00	12.06	254.58	7098.99	-515.31	-808.10	433894.65	2534768.87	39 30	32.587 N	109 36	16.098 W
7225.00	12.31	255.33	7129.29	-517.01	-814.42	433892.95	2534762.55	39 30	32.572 N	109 36	16.179 W
7257.00	11.88	257.96	7160.58	-518.56	-820.94	433891.40	2534756.03	39 30	32.558 N	109 36	16.263 W
7287.00	11.88	260.08	7189.94	-519.74	-827.00	433890.23	2534749.97	39 30	32.547 N	109 36	16.340 W
7321.00	12.50	259.96	7223.17	-520.98	-834.07	433888.98	2534742.90	39 30	32.536 N	109 36	16.431 W
7352.00	13.38	256.08	7253.38	-522.43	-840.85	433887.53	2534736.11	39 30	32.524 N	109 36	16.518 W
7384.00	13.38	250.46	7284.52	-524.56	-847.94	433885.41	2534729.03	39 30	32.504 N	109 36	16.609 W
7416.00	12.69	249.08	7315.69	-527.05	-854.71	433882.91	2534722.25	39 30	32.481 N	109 36	16.696 W
7479.00	11.44	249.08	7377.30	-531.75	-867.01	433878.21	2534709.95	39 30	32.437 N	109 36	16.854 W
7542.00	11.44	245.58	7439.05	-536.57	-878.54	433873.40	2534698.43	39 30	32.392 N	109 36	17.002 W
7606.00	13.56	244.33	7501.53	-542.44	-891.08	433867.52	2534685.89	39 30	32.336 N	109 36	17.164 W
7669.00	14.00	246.33	7562.72	-548.70	-904.71	433861.26	2534672.25	39 30	32.277 N	109 36	17.340 W
7701.00	13.44	246.83	7593.80	-551.72	-911.68	433858.25	2534665.29	39 30	32.249 N	109 36	17.429 W
7733.00	12.88	246.58	7624.96	-554.60	-918.37	433855.36	2534658.59	39 30	32.222 N	109 36	17.515 W
7765.00	12.06	247.83	7656.21	-557.28	-924.74	433852.69	2534652.23	39 30	32.197 N	109 36	17.597 W
7796.00	12.19	247.46	7686.51	-559.76	-930.76	433850.21	2534646.20	39 30	32.174 N	109 36	17.675 W
7828.00	12.69	244.21	7717.76	-562.58	-937.05	433847.38	2534639.92	39 30	32.147 N	109 36	17.756 W
7892.00	12.56	245.21	7780.22	-568.56	-949.69	433841.41	2534627.27	39 30	32.091 N	109 36	17.919 W
7955.00	12.69	244.33	7841.69	-574.43	-962.15	433835.54	2534614.82	39 30	32.035 N	109 36	18.079 W
8018.00	12.50	239.58	7903.18	-580.88	-974.26	433829.09	2534602.70	39 30	31.974 N	109 36	18.236 W
8082.00	12.38	241.21	7965.68	-587.69	-986.25	433822.28	2534590.71	39 30	31.909 N	109 36	18.390 W
8145.00	11.69	238.71	8027.29	-594.25	-997.62	433815.71	2534579.34	39 30	31.847 N	109 36	18.537 W
8209.00	10.88	235.33	8090.05	-601.06	-1008.13	433808.91	2534568.83	39 30	31.782 N	109 36	18.673 W
8272.00	11.69	233.96	8151.84	-608.20	-1018.18	433801.77	2534558.78	39 30	31.713 N	109 36	18.803 W
8304.00	12.56	237.21	8183.12	-611.99	-1023.73	433797.98	2534553.24	39 30	31.677 N	109 36	18.875 W
8336.00	13.06	237.33	8214.33	-615.82	-1029.70	433794.14	2534547.27	39 30	31.640 N	109 36	18.952 W
8367.00	12.81	236.71	8244.54	-619.60	-1035.52	433790.36	2534541.45	39 30	31.604 N	109 36	19.027 W
8431.00	12.88	234.96	8306.94	-627.59	-1047.29	433782.37	2534529.67	39 30	31.528 N	109 36	19.180 W
8494.00	12.81	233.21	8368.36	-635.80	-1058.63	433774.16	2534518.33	39 30	31.449 N	109 36	19.327 W
8557.00	12.00	237.71	8429.89	-643.49	-1069.76	433766.48	2534507.20	39 30	31.375 N	109 36	19.471 W
8621.00	12.19	238.33	8492.47	-650.59	-1081.14	433759.38	2534495.83	39 30	31.307 N	109 36	19.618 W
8684.00	12.94	240.71	8553.96	-657.53	-1092.95	433752.43	2534484.01	39 30	31.241 N	109 36	19.770 W
8748.00	13.94	241.08	8616.21	-664.76	-1105.95	433745.20	2534471.02	39 30	31.173 N	109 36	19.938 W
8780.00	13.69	239.83	8647.28	-668.53	-1112.60	433741.43	2534464.37	39 30	31.137 N	109 36	20.024 W

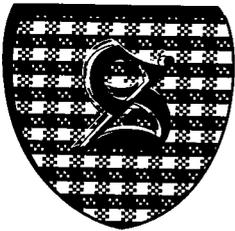
# Weatherford International, Ltd.

## Survey Report - Geographic

<b>Company:</b> STEWART PETROLEUM CORPORATION	<b>Date:</b> 11/28/2007	<b>Time:</b> 09:26:40	<b>Page:</b> 4
<b>Field:</b> UINTAH COUNTY, UT	<b>Co-ordinate(NE) Reference:</b>	Well: TUMBLEWEED #18-9, Grid North	
<b>Site:</b> TUMBLEWEED #18-9	<b>Vertical (TVD) Reference:</b>	SITE 7240.0	
<b>Well:</b> TUMBLEWEED #18-9	<b>Section (VS) Reference:</b>	Well (0.00N,0.00E,240.56Azi)	
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b>	Minimum Curvature	<b>Db:</b> Sybase

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →		← Longitude →	
								Deg	Min Sec	Deg	Min Sec
8843.00	13.56	241.58	8708.51	-675.79	-1125.54	433734.17	2534451.43	39 30	31.068 N	109 36	20.191 W
8907.00	13.94	247.08	8770.68	-682.37	-1139.24	433727.60	2534437.73	39 30	31.006 N	109 36	20.368 W
8970.00	13.38	248.58	8831.90	-687.98	-1153.01	433721.98	2534423.95	39 30	30.953 N	109 36	20.545 W
9034.00	13.19	247.46	8894.18	-693.49	-1166.65	433716.48	2534410.32	39 30	30.901 N	109 36	20.720 W
9097.00	13.06	248.46	8955.54	-698.86	-1179.91	433711.11	2534397.06	39 30	30.851 N	109 36	20.891 W
9161.00	12.13	250.46	9018.00	-703.76	-1192.97	433706.20	2534383.99	39 30	30.805 N	109 36	21.059 W
9224.00	11.13	252.08	9079.70	-707.85	-1205.00	433702.12	2534371.97	39 30	30.768 N	109 36	21.213 W
9288.00	10.19	255.08	9142.60	-711.20	-1216.34	433698.76	2534360.62	39 30	30.737 N	109 36	21.359 W
9351.00	9.38	249.08	9204.68	-714.47	-1226.52	433695.49	2534350.44	39 30	30.707 N	109 36	21.490 W
9415.00	8.69	246.83	9267.89	-718.24	-1235.84	433691.73	2534341.12	39 30	30.671 N	109 36	21.610 W
9478.00	7.75	246.71	9330.24	-721.79	-1244.12	433688.18	2534332.85	39 30	30.638 N	109 36	21.716 W
9542.00	7.00	247.71	9393.71	-724.97	-1251.69	433684.99	2534325.27	39 30	30.608 N	109 36	21.814 W
9605.00	6.50	249.96	9456.27	-727.65	-1258.59	433682.31	2534318.37	39 30	30.583 N	109 36	21.902 W
9668.00	5.38	255.71	9518.94	-729.60	-1264.81	433680.36	2534312.16	39 30	30.565 N	109 36	21.982 W
9732.00	4.94	253.83	9582.68	-731.11	-1270.36	433678.85	2534306.61	39 30	30.551 N	109 36	22.053 W
9796.00	4.19	251.71	9646.47	-732.61	-1275.23	433677.35	2534301.74	39 30	30.537 N	109 36	22.116 W
9891.00	3.56	261.33	9741.26	-734.15	-1281.44	433675.82	2534295.53	39 30	30.524 N	109 36	22.196 W
9923.00	3.56	257.71	9773.19	-734.51	-1283.39	433675.46	2534293.57	39 30	30.520 N	109 36	22.221 W
9954.00	3.19	252.08	9804.14	-734.98	-1285.15	433674.99	2534291.81	39 30	30.516 N	109 36	22.243 W
9986.00	3.06	249.96	9836.09	-735.54	-1286.80	433674.42	2534290.16	39 30	30.511 N	109 36	22.264 W
10018.00	2.50	243.33	9868.06	-736.15	-1288.23	433673.81	2534288.74	39 30	30.505 N	109 36	22.283 W
10050.00	2.44	239.08	9900.03	-736.81	-1289.43	433673.15	2534287.53	39 30	30.499 N	109 36	22.298 W
10087.00	2.75	241.08	9936.99	-737.65	-1290.89	433672.32	2534286.08	39 30	30.491 N	109 36	22.317 W
10181.00	2.13	246.33	10030.90	-739.44	-1294.46	433670.53	2534282.50	39 30	30.474 N	109 36	22.363 W
10276.00	1.81	257.83	10125.85	-740.46	-1297.54	433669.50	2534279.42	39 30	30.465 N	109 36	22.403 W
10370.00	1.31	257.83	10219.81	-741.00	-1300.05	433668.96	2534276.92	39 30	30.460 N	109 36	22.435 W
10465.00	1.19	257.83	10314.79	-741.44	-1302.07	433668.52	2534274.89	39 30	30.456 N	109 36	22.461 W
10560.00	1.13	257.83	10409.77	-741.85	-1303.95	433668.12	2534273.01	39 30	30.452 N	109 36	22.485 W
10655.00	0.88	257.83	10504.75	-742.20	-1305.58	433667.77	2534271.38	39 30	30.449 N	109 36	22.506 W
10719.00	0.88	257.83	10568.75	-742.40	-1306.54	433667.56	2534270.42	39 30	30.447 N	109 36	22.518 W
10938.00	0.83	257.83	10787.72	-743.09	-1309.74	433666.87	2534267.23	39 30	30.441 N	109 36	22.559 W
10994.00	0.82	257.83	10843.72	-743.26	-1310.52	433666.70	2534266.44	39 30	30.440 N	109 36	22.569 W
11241.00	0.82	257.83	11090.69	-744.01	-1313.98	433665.96	2534262.99	39 30	30.433 N	109 36	22.613 W
11700.00	1.00	257.83	11549.63	-745.55	-1321.11	433664.42	2534255.86	39 30	30.419 N	109 36	22.705 W



STEWART PETROLEUM CORPORATION

475 Seventeenth Street • Suite 1250 • Denver, CO 80202  
(303) 799-1922 • FAX (303) 799-1924

January 12, 2010

VIA FEDEX

Dustin Doucet  
Utah Division of Oil, Gas and Mining  
Department of Natural Resources  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84116

Re: Tumbleweed #18-9  
API# 4304739299  
Request for Wildcat Severance Tax Exemption

**RECEIVED**

**JAN 19 2010**

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

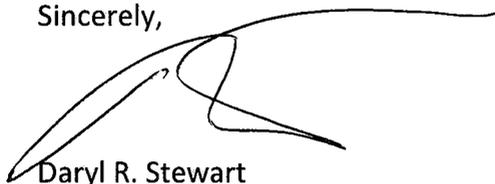
Dear Dustin;

Per this letter and attachments I am herewith requesting the severance tax exemption, for the referenced well, under Section 59-5-102(2) (d), retroactive to the date of first production. Information provided is as follows:

- 1) PowerPoint slides representing:
  - a. Seismic interpretation of the Entrada Formation (primary objective) and plat map (showing the location of the nearest well the Wind River NHC #8-13, SENE Sec. 13/15S/20E).
  - b. The interpretation includes an Entrada amplitude map (representing velocity contrast between eolian Entrada potential gas reservoirs (hot or yellow colors) and tight interdune deposits (cool colors)). Note that the #18-9 is in an isolated sand body (productive), whereas the nearest well, as above, is located in the interdune facies .
  - c. Also included is a Entrada structure map representing the "high" structural position that the sand body was found in (Entrada "highs" due to sand body accretion).
  - d. The final slide is a seismic cross-section through both of the wells. This slide illustrates that separate nature of the Entrada, both by deposition (sand/interdune) and faulting (normal fault).
- 2) Form 8 for the #18-9 well. Form 8 for the #8-13 well (all zones commingled per the cross-section attached and the Entrada perforated was in a different interval then the #18-9 (see cross-section...the #8-13 not in the #18-9 sand body) and personal correspondence with Wind River).
- 3) Pressure buildup graph w/ original BHP noted at 3,748 psi.

Dustin, this well is the first and only well we have drilled in Utah (we are still waiting on an EA from the BLM for further development). We were made aware of the Wildcat tax exemption by both Wind River (Tom and Marc) and the Utah State Tax Commission. I apologize for the late application and would entertain any questions you might have or if you need more information please let me know and we will forward ASAP.

Sincerely,

A handwritten signature in black ink, appearing to read 'Daryl R. Stewart', with a long horizontal flourish extending to the right.

Daryl R. Stewart

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**JAN 19 2010**

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

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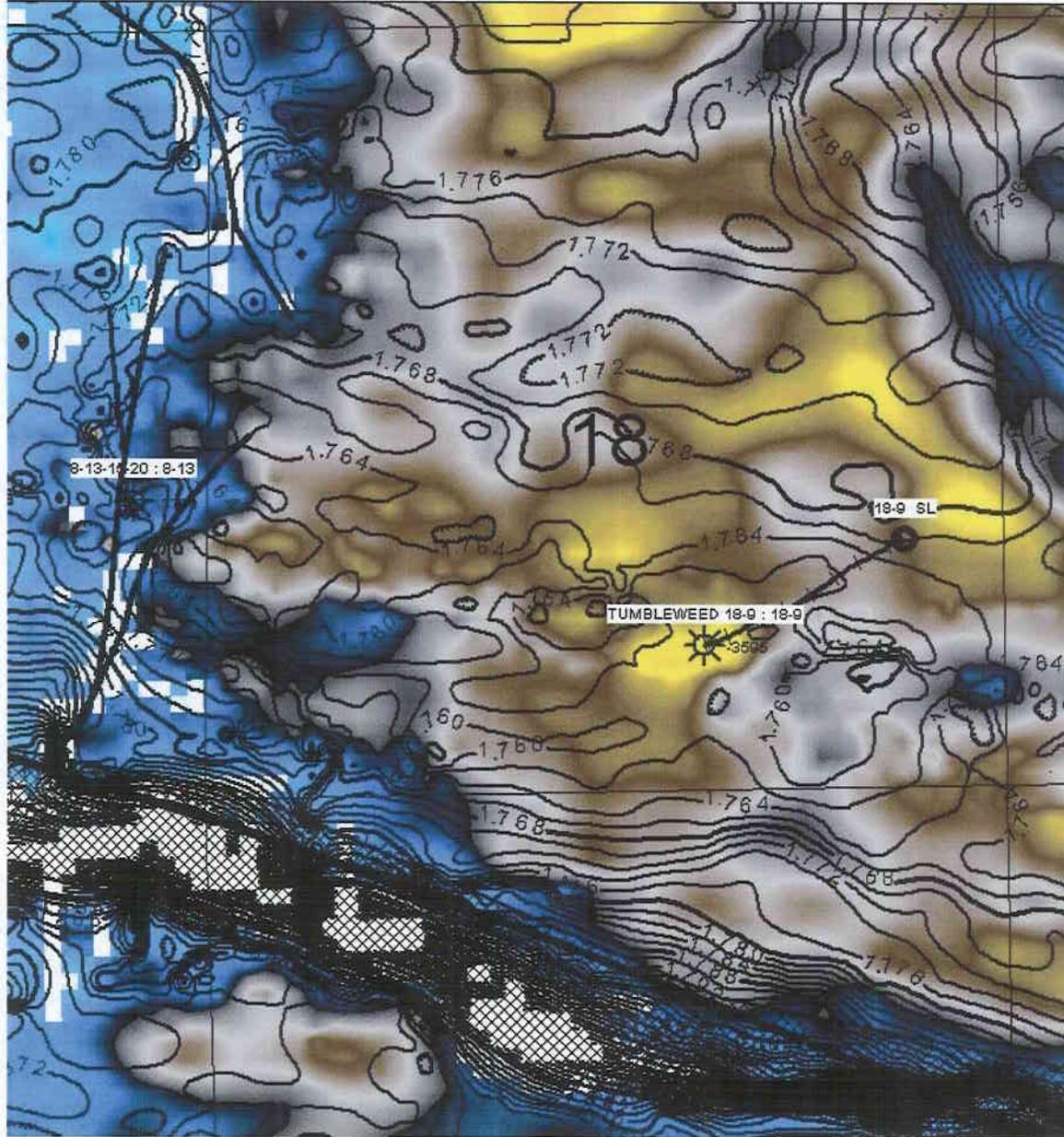
JAN 19 2010

DIV. OF OIL, GAS & MINING

# Stewart Petroleum Corporation

Tumbleweed #18-9  
NESE Sec. 18/ T15S/R21E  
Application for Severance Tax  
Exemption

**ENTRADA AMPLITUDE WITH ENTRADA TIME STRUCTURE CONTOURS**

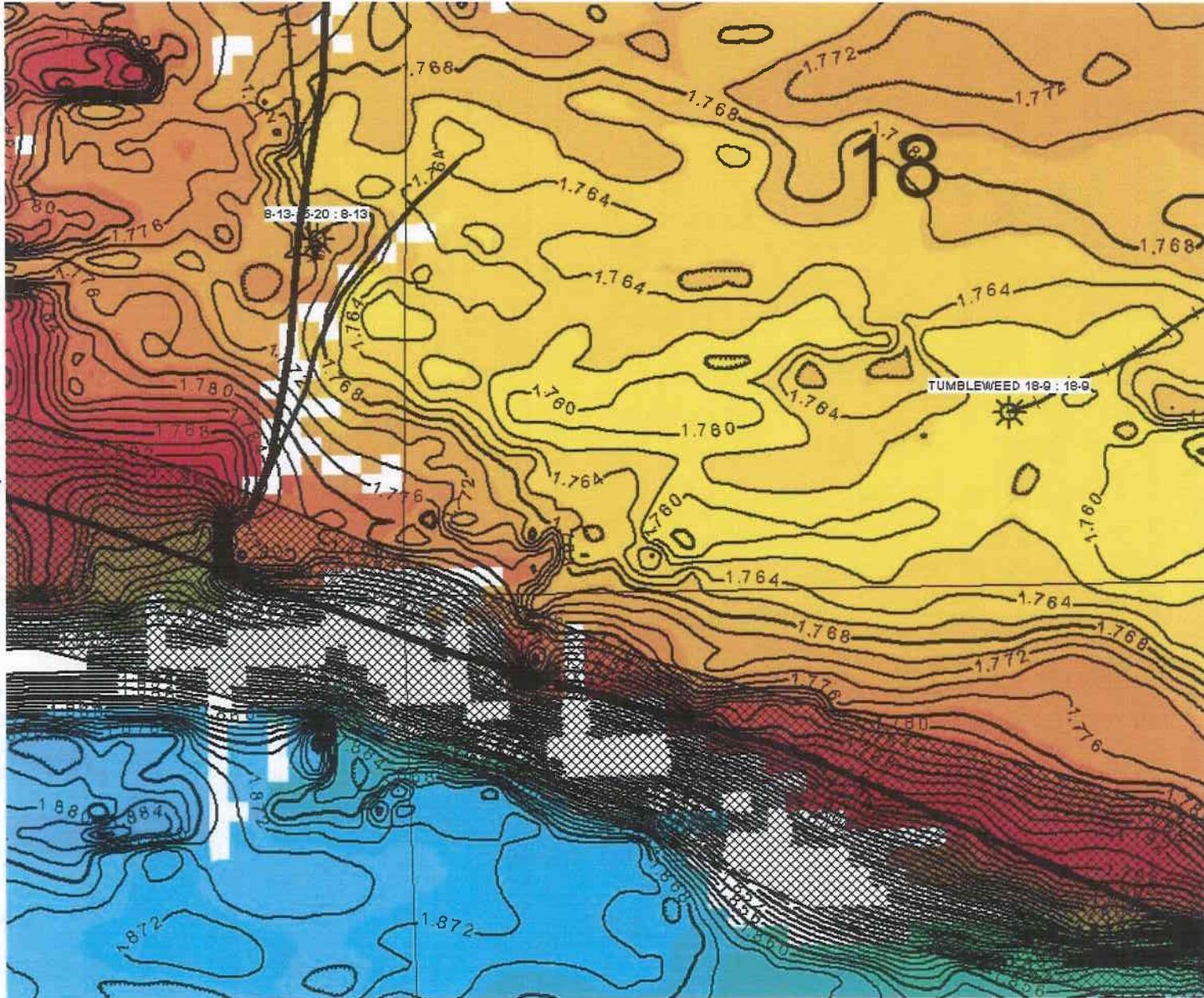


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**JAN 19 2010**

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ENTRADA TIME STRUCTURE C.I. = .002 SEC.



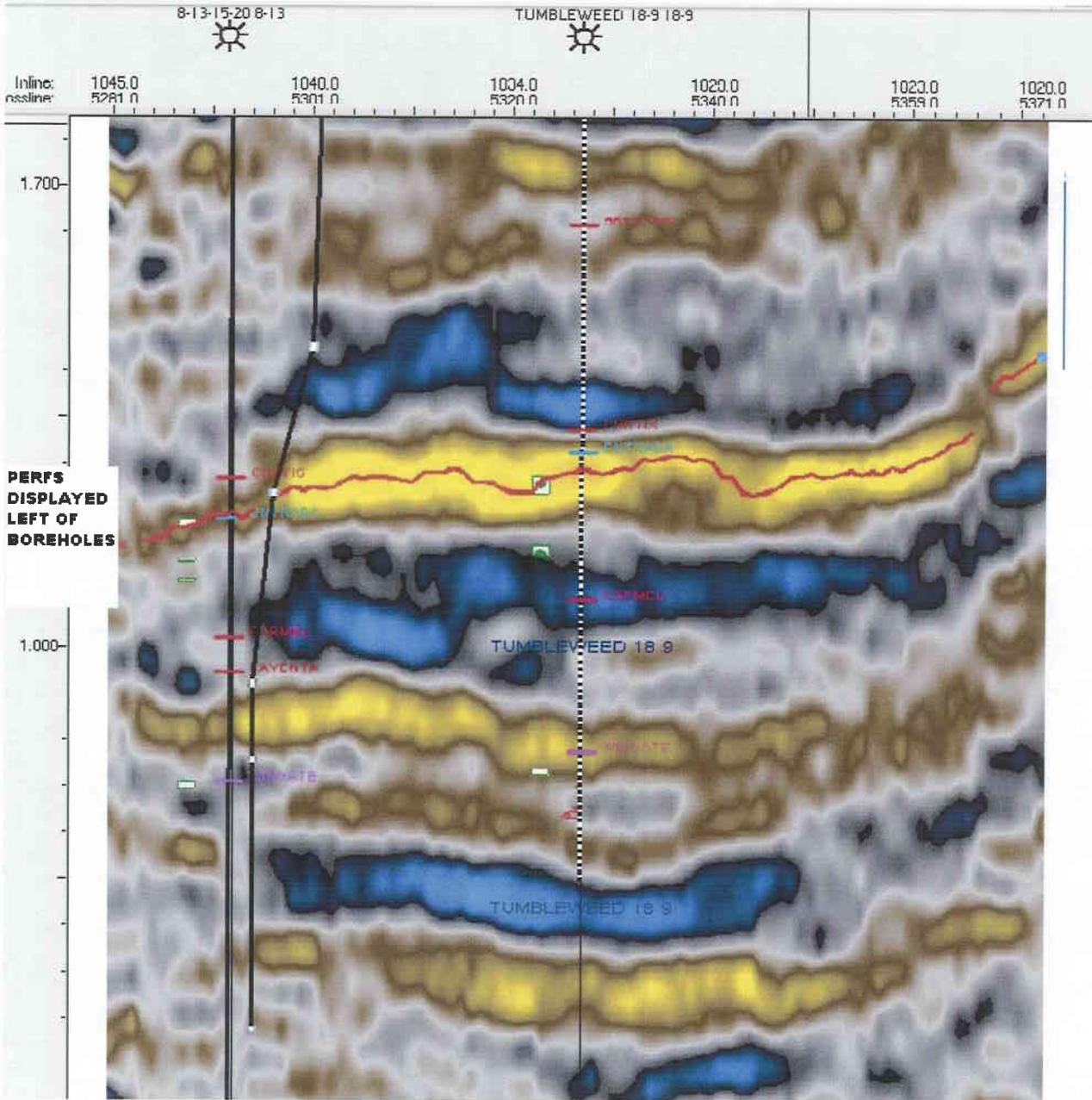
FAULT  
ZONE

RECEIVED

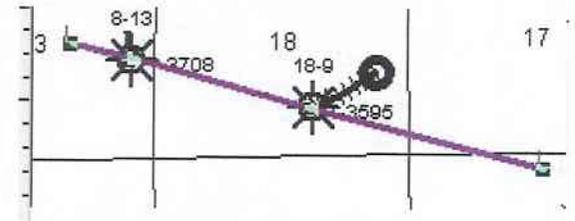
JAN 19 2010

DIV. OF OIL, GAS & MINING

**ARBITRARY LINE THROUGH 8-13 AND 18-9**



**ARB LINE INDEX MAP**



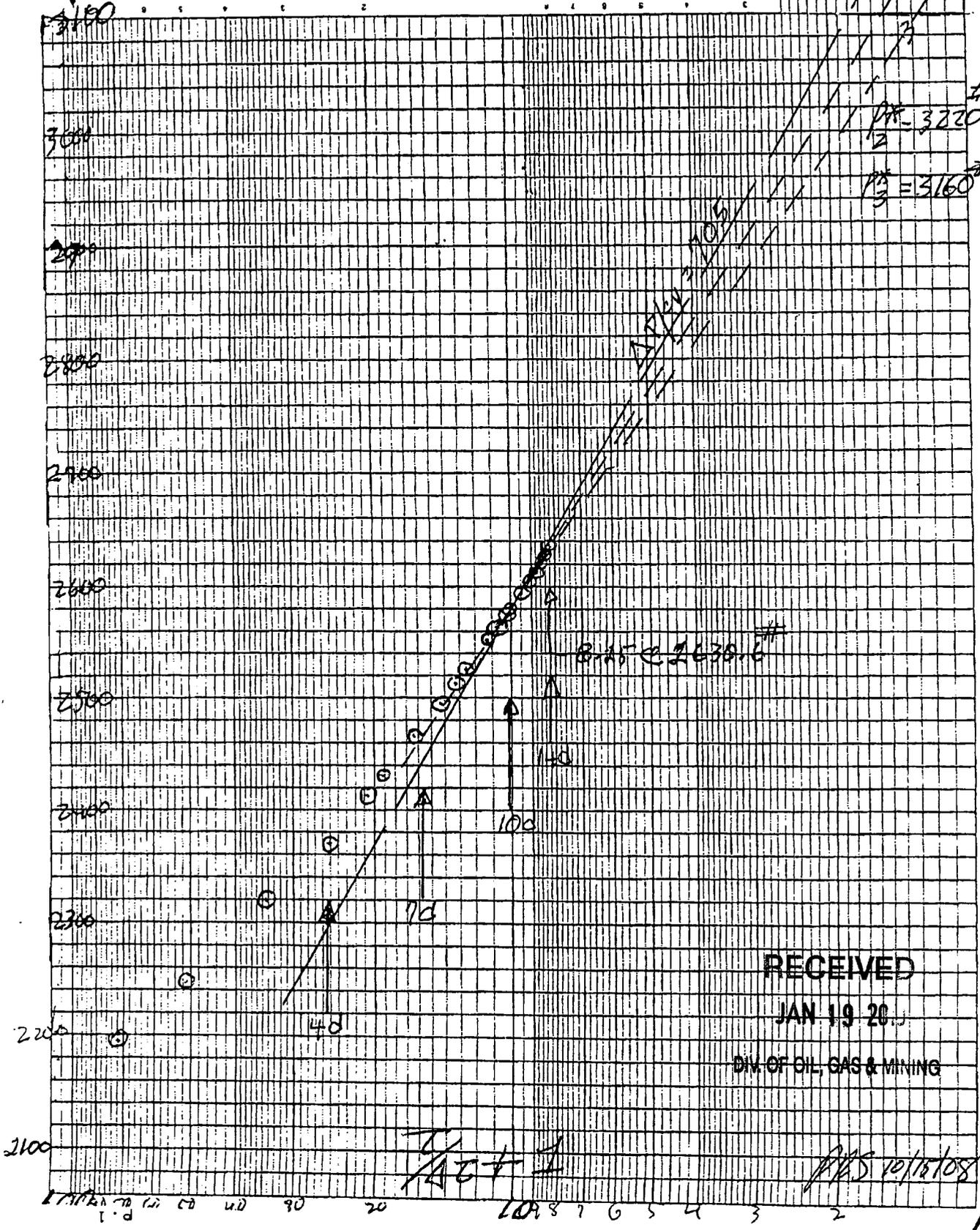
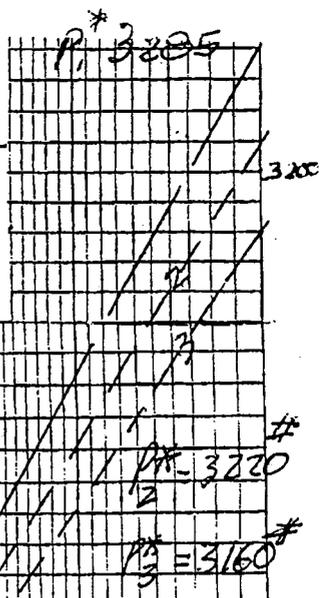
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**JAN 19 2010**

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

BHP

Tumbledwood #18-9  
PBU 9/25-10/9/08



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JAN 19 2009

DIV. OF OIL, GAS & MINING

1/19/09

PKS 10/15/08



**Dustin Doucet - RE: DOGM Sundry, Tumbleweed #18-9 Sev tax exemption request**

---

**From:** "Daryl Stewart" <dstewart@stewartpetroleum.com>  
**To:** "'Dustin Doucet'" <dustindoucet@utah.gov>  
**Date:** 5/3/2010 7:57 AM  
**Subject:** RE: DOGM Sundry, Tumbleweed #18-9 Sev tax exemption request

---

Dustin,

Yes, the Wingate has never produced. And I agree that requesting an exemption for the Wingate is moot at this point since the first 12 months of production from this well has already occurred.

We appreciate the exemption for the Entrada and if anything more is needed please let me know.

Thanx Dustin!

Daryl

---

**From:** Dustin Doucet [mailto:dustindoucet@utah.gov]  
**Sent:** Monday, May 03, 2010 7:42 AM  
**To:** Daryl Stewart  
**Subject:** RE: DOGM Sundry, Tumbleweed #18-9 Sev tax exemption request

Daryl,

Is it correct that except for the original testing of the Wingate, that it never produced? If so, I can clarify that in my writeup. I will copy both you and the Tax Commission of my decision. As for the Wingate, I believe that your 12 months is over, so qualifying the Wingate would probably not change anything unless it did produce the first 12 months, then we would need that info so you get your full credit. Note: the statute states "A tax is not imposed under this section upon: (c) the **first** 12 months of production for wildcat wells..."

Let me know if you have questions. Thanks.

Dustin

Dustin K. Doucet  
Petroleum Engineer  
Utah Division of Oil, Gas and Mining  
Oil and Gas Program  
1594 West North Temple, Suite 1210  
Salt Lake City, UT 84116

Phone: (801) 538-5281  
fax: (801) 359-3940  
email: [dustindoucet@utah.gov](mailto:dustindoucet@utah.gov)

>>> "Daryl Stewart" <dstewart@stewartpetroleum.com> 4/30/2010 10:32 AM >>>  
Dustin,

Thank you for the email!

In regards to the Wingate please see the attached. The Wingate perms are behind a CIBP and are not producing. The only formation producing is the Entrada. We don't see producing the Wingate anytime soon since prices would need to be significantly higher than they are now. That being said I guess we should also apply for the exemption for the Wingate for down the road. I can put together a PowerPoint, etc. for the Wingate and submit to you via a sundry if that would work? Concerning the Entrada and its approval for the exemption will you be sending correspondence to Stewart and the Tax Commission or will you send just to me and I will forward to the commission?

Thanx for the work Dustin and I look forward to hearing from you.

Daryl

---

**From:** Dustin Doucet [mailto:dustindoucet@utah.gov]  
**Sent:** Thursday, April 29, 2010 5:02 PM  
**To:** Daryl Stewart  
**Subject:** Re: DOGM Sundry, Tumbleweed #18-9 Sev tax exemption request

Daryl,

I am finally processing your request. Sorry for the delay. I am inclined to approve it for wildcat in the Entrada, but don't have any information on the Wingate so cannot approve in the Wingate. Without any information on how much production is coming from each formation I will be unable to recommend an amount qualifying for the credit since the formations have been commingled. If you have any information that shows production amounts from each formation (i.e. production log) or more information supporting the Wingate as a separate pool, please forward on to me and I can incorporate into my review. If not I will forward on stating that the Entrada qualifies, but insufficient information was provided for the Wingate and it would not qualify. Not sure how the Tax Commission would administer the tax credit - whether they would give you any credit or not. Let me know if you have additional info that would help. Thanks.

Dustin K. Doucet  
 Petroleum Engineer  
 Utah Division of Oil, Gas and Mining  
 Oil and Gas Program  
 1594 West North Temple, Suite 1210  
 Salt Lake City, UT 84116

Phone: (801) 538-5281  
 fax: (801) 359-3940  
 email: [dustindoucet@utah.gov](mailto:dustindoucet@utah.gov)

>>> "Daryl Stewart" <dstewart@stewartpetroleum.com> 3/16/2010 2:11 PM >>>  
 Dustin,

Per your request I am sending the Sundry Notice (attached) for the "Request for Wildcat Severance Tax Exemption" that was submitted to the DOGM on January 12, 2010 (original will be sent via mail). Please let me know if anything more is needed on the Sundry or the request.

Thank you in advance!

**Daryl R. Stewart**

**STEWART PETROLEUM CORPORATION**  
475 17th Street, Suite 790  
Denver, Colorado 80202

303/799/1922 ph.  
303/799/1924 fax



**STEWART PETROLEUM CORPORATION**

Operator: STEWART PETROLEUM CORPORATION  
 Prospect:  
 Well Name: TUMBLEWEED #18-9-15-21  
 Location: ne se Sec. 18-T15S-R21E  
 County: Uintah County  
 State: Utah

GL: 7225'  
 RF: 7251'  
 KB: 26.0'

Spudded:  
 Completed:

Casing ID	FT	Cement
9 5/8" 36#	2196'	Surface
4 1/2" 11.6# P-110	11,858'	

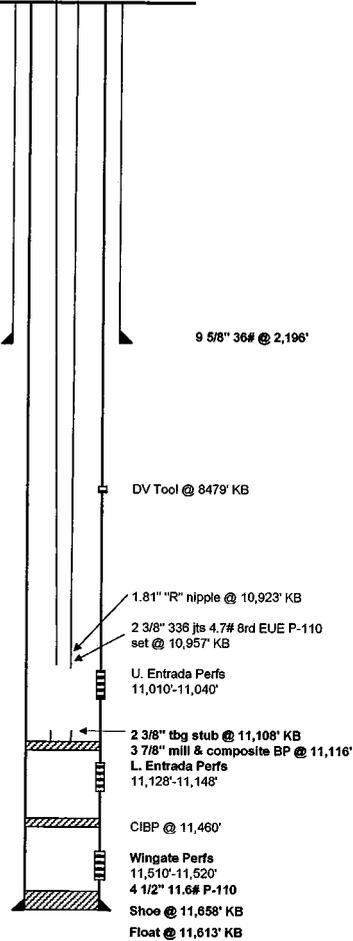
DV Tool 8479'

**TUBING ASSEMBLY**

COMPLETION	Perfs	SH/FT	Date	Fm
1	11,510'-11,520'			Wingate
2	11,128'-11,148'			L. Entrada
3	11,010'-11,040'			U. Entrada
4				
5				
6				

**Completions**

I.P.:  
 Gas:  
 Oil:  
 Water:



Last Report 2/4/08  
 Prepared TJC 2/4/08

DIVISION OF OIL, GAS AND MINING  
**Wildcat Well Determination**  
**STATEMENT OF BASIS**

**Applicant:** Stewart Petroleum Corporation

**Location:** NESE Sec. 18 T15S, R21E, Uintah County, Utah

**WELL NAME:** Tumbleweed 18-9 **API #:** 43-047-39299

**FINDINGS**

1. This well was completed on January 13, 2008 and first produced in May 2008 from the Entrada formation.
2. This well was < 1 mile from any known production in the Wingate and Entrada Formations at the time of the completion and the start of commercial production (see attachment A and Area of Review Map).
3. This well was tested in the Wingate from 12/19/07 through 1/6/2008, but was found to be non productive and a CIBP was set @ 10,460' isolating it from the Entrada perms uphole. The subject well only produces from the Entrada formation and the CIBP and a fish @ 11, 108' isolates the Entrada formation from the Wingate formation.
4. This well is approximately 4005' from the N Hill Creek 8-13-15-20 (API 4304734954) that also produces from the Entrada and Wingate formations. The N Hill Creek 8-13-15-20 was designated a wildcat well for these formations.
5. From the seismic interpretation provided, the subject well is completed in a separate dune structure in the Entrada and can be considered a separate pool.
6. The Wildcat Tax Credit application was received 2+ years after completion of the Tumbleweed 18-9 well (see submittal requirements in R649-3-35-1).

**CONCLUSIONS**

The request for final wildcat well determination was received well after the completion of the well. Future requests for wildcat well determination should be submitted in accordance with R649-3-35-1. Based on the findings above the Division has determined the Tumbleweed 18-9 well was drilled into an unknown area for the Entrada formation. Therefore, the Division finds that this well qualifies for the severance tax exemption under Section 59-5-102(5)(c) for wildcat wells for the Entrada formation only. This determination was made in accordance with Oil and Gas General Conservation Rule R649-3-35. If the operator disagrees with this determination, the decision may be appealed to the Board of Oil Gas and Mining.

Reviewer(s): Dustin K. Doucet

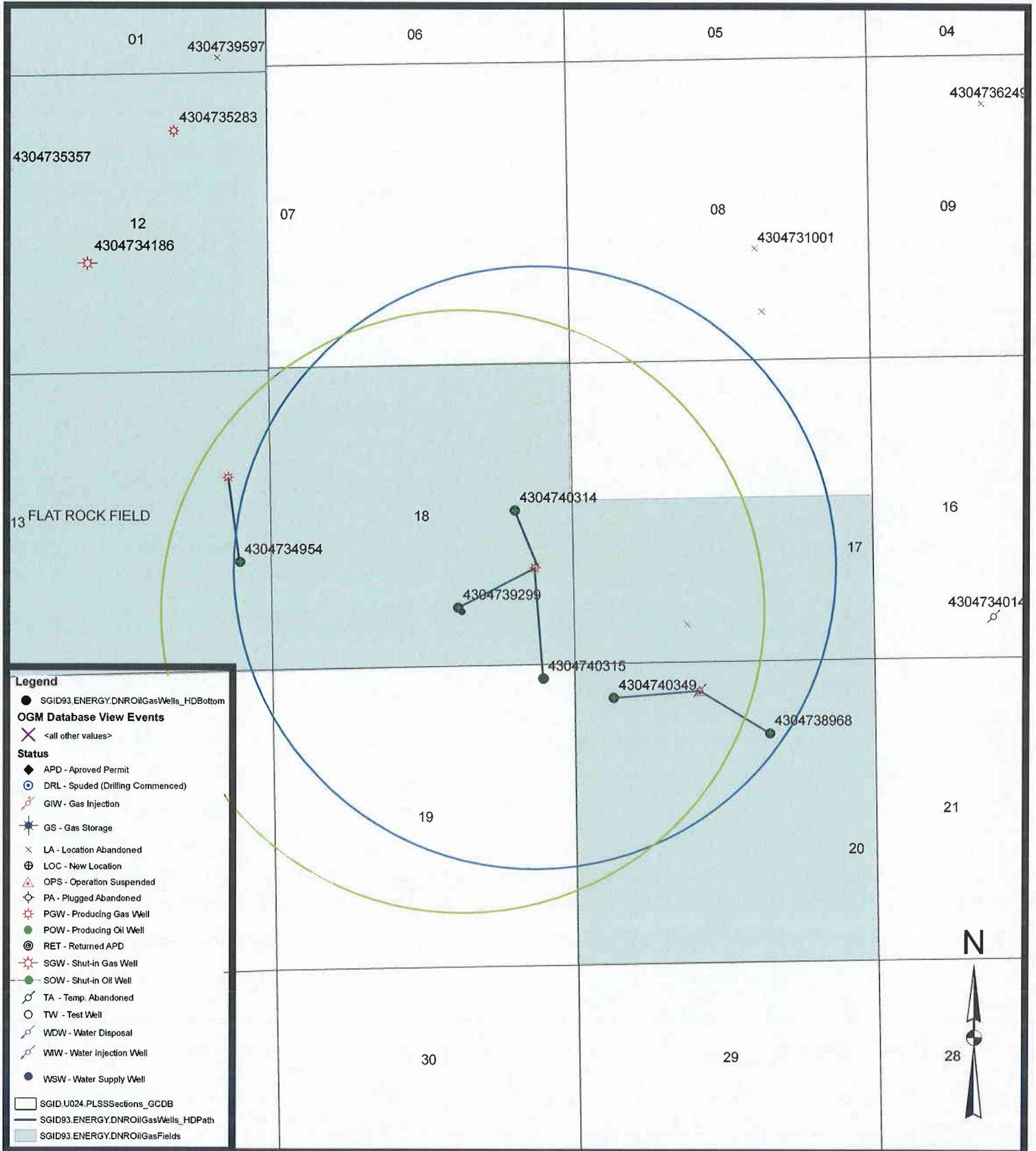


Date: 5/3/10

CC: Utah State Tax Commission  
ATTN: Shandra Winters



# Wildcat Designation Area of Review Tumbleweed 18-9 Well



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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL			5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-72059	
OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____			6. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a	
2. NAME OF OPERATOR: Stewart Petroleum Corporation			7. UNIT or CA AGREEMENT NAME: Tumbleweed Unit	
3. ADDRESS OF OPERATOR: 475 17th St., Ste. 790			8. WELL NAME and NUMBER: Tumbleweed Unit #18-9	
CITY Denver STATE CO ZIP 80202			9. API NUMBER: 4304739299	
4. LOCATION OF WELL			10. FIELD AND POOL, OR WILDCAT: Undesignated Wildcat	
FOOTAGES AT SURFACE: 1700' FSL & 660' FEL NE 1/4 SE 1/4			COUNTY: Uintah	
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 18 15S 21E			STATE: UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (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"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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: Request for WC Sev tax exemption
	<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.

Sundry notice for "Request for Wildcat Severance Tax Exemption" submitted January 12, 2010 to the DOGM.

NAME (PLEASE PRINT) <u>Daryl R. Stewart</u>	TITLE <u>President</u>
SIGNATURE	DATE <u>3/16/2010</u>

(This space for State use only)

**APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING**

DATE: 5/3/2010

BY:

(See Instructions on Reverse Side)

\* See attached Statement of Basis  
CC: TAX Commission (emailed)

**RECEIVED**

**MAR 22 2010**

DIV. OF OIL, GAS & MINING

(5/2000)

43-047-39299  
18 15s 21e



# United States Department of the Interior



## BUREAU OF LAND MANAGEMENT

Utah State Office  
440 West 200 South, Suite 500  
Salt Lake City, UT 84101  
<http://www.blm.gov/ut/st/en.html>

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SEP 12 2013

DIV. OF LAND & WATER

SEP 05 2013

IN REPLY REFER TO:  
3180 (UTU80665X)  
UT-922000

Tumbleweed 18-9

Stewart Petroleum Corp.  
Attn: Daryl R. Stewart  
475 Seventeenth Street, Suite 790  
Denver, Colorado 80202

Re: Automatic Contraction  
Tumbleweed Unit  
Uintah County, Utah

Dear Mr. Stewart:

Your letter dated August 29, 2013, (as amended in red) describes the lands automatically eliminated effective February 28, 2013, from the Tumbleweed Unit Area, located in Uintah County, Utah, pursuant to Section 2(e) of the unit agreement and requests our concurrence. The lands you have described contain 6,515.80 acres more or less, and constitute all legal subdivisions, no parts of which are included in the Initial Tumbleweed Participating Area "A". As a result of the automatic contraction, the unit is reduced to 760.00 acres.

The following Federal Leases are entirely eliminated from the unit area:

UTU72667                      UTU74858

The following Federal Leases are partially eliminated from the unit area:

UTU84256    UTU72018    UTU72059

You have complied with the requirements of Section 2(e), provided you promptly notify all interested parties.

If you have any questions, please contact Mickey Coulthard of this office at (801) 539-4042.

Sincerely,



Roger L. Bankert  
Chief, Branch of Minerals

Enclosure

cc: UDOGM  
SITLA – w/enclosure  
ONRR w/Exhibit “B” (Attn: Nancy McCarthy)  
BLM FOM - Vernal (UTG01) w/enclosure

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

FORM 6

**ENTITY ACTION FORM**

Operator: stewart petroleum corporation Operator Account Number: N 3145  
 Address: 475 17th street  
city denver  
state CO zip 80202 Phone Number: (303) 799-1922

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739299	Tumbleweed Unit #18-9		NESE	18	15S	21E	Uinta
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
D	16926	13800				2/28/13	
<b>Comments:</b> Ehwin - moved into unit pa 10/21/13							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Daryl R. Stewart  
 Name (Please Print)  
[Signature]  
 Signature  
President 10/19/2013  
 Title Date

**RECEIVED**

**OCT 21 2013**