

August 6, 2008

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 18-8

*Surface Location: 1,753' FSL & 629' FEL, NE/4 SE/4,
Target Location: 2,567' FNL & 1,007' FEL, SE/4 NE/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 BLM surface 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. A check for \$4,000.00 immediately follows this letter for the processing fee under the Fiscal Year 2008 Consolidated Appropriations Act. Included with the APD is the following supplemental information:

- Exhibit "A" - Civil plat, location and cross-section layouts;
- Exhibit "B" - Photos of the proposed well site and access road;
- Exhibit "C" - Proposed location maps with access corridor;
- Exhibit "D" - Directional Drilling Plan with Directional Drilling Report;
- Exhibit "E" - Surface Use Plan with APD Certification;
- Exhibit "F" - Typical BOP and Choke Manifold diagram;

Thank you very much for your timely consideration of this application. Please feel free to contact myself or Daryl R. 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: Diana Mason, Division of Oil, Gas and Mining
Daryl R. Stewart, Stewart Petroleum Corporation
Dawn Martin, Buys & Associates, Inc.

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DIV. OF OIL, GAS & MINING

FILE COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-72059
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		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Stewart Petroleum Corporation		7. If Unit or CA Agreement, Name and No. Tumbleweed Unit
3a. Address 475 17th St., Ste. 790 Denver, Colorado 80202		8. Lease Name and Well No. Tumbleweed #18-8
3b. Phone No. (include area code) 303-799-1922		9. API Well No. 43-047-40314
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 1,753' FSL & 629' FEL, NE/4 SE/4, At proposed prod. zone 2,567' FNL & 1,007' FEL, SE/4 NE/4,		10. Field and Pool, or Exploratory undesignated
14. Distance in miles and direction from nearest town or post office* 40.1 miles southeast of Ouray, Utah		11. Sec., T. R. M. or Blk. and Survey or Area Section 18, T15S, R21E, SLB&M
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 629'	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. 60'	19. Proposed Depth 12,000' TVD-12,074' MD	20. BLM/BIA Bond No. on file UTB000251
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7,224' GR	22. Approximate date work will start* 09/15/2008	23. Estimated duration 21 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:

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

25. Signature Don Hamilton	Name (Printed/Typed) Don Hamilton	Date 08/06/2008
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Title
Agent for Stewart Petroleum Corporation

Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL	Date 08-13-08
Title Office	ENVIRONMENTAL MANAGER	

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

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

*(Instructions on page 2)

**Federal Approval of this
Action is Necessary**

Surf

620235X
4374159Y
39.510536
-109.601424

BHL
620114X
4374448Y
39.513161
-109.602782

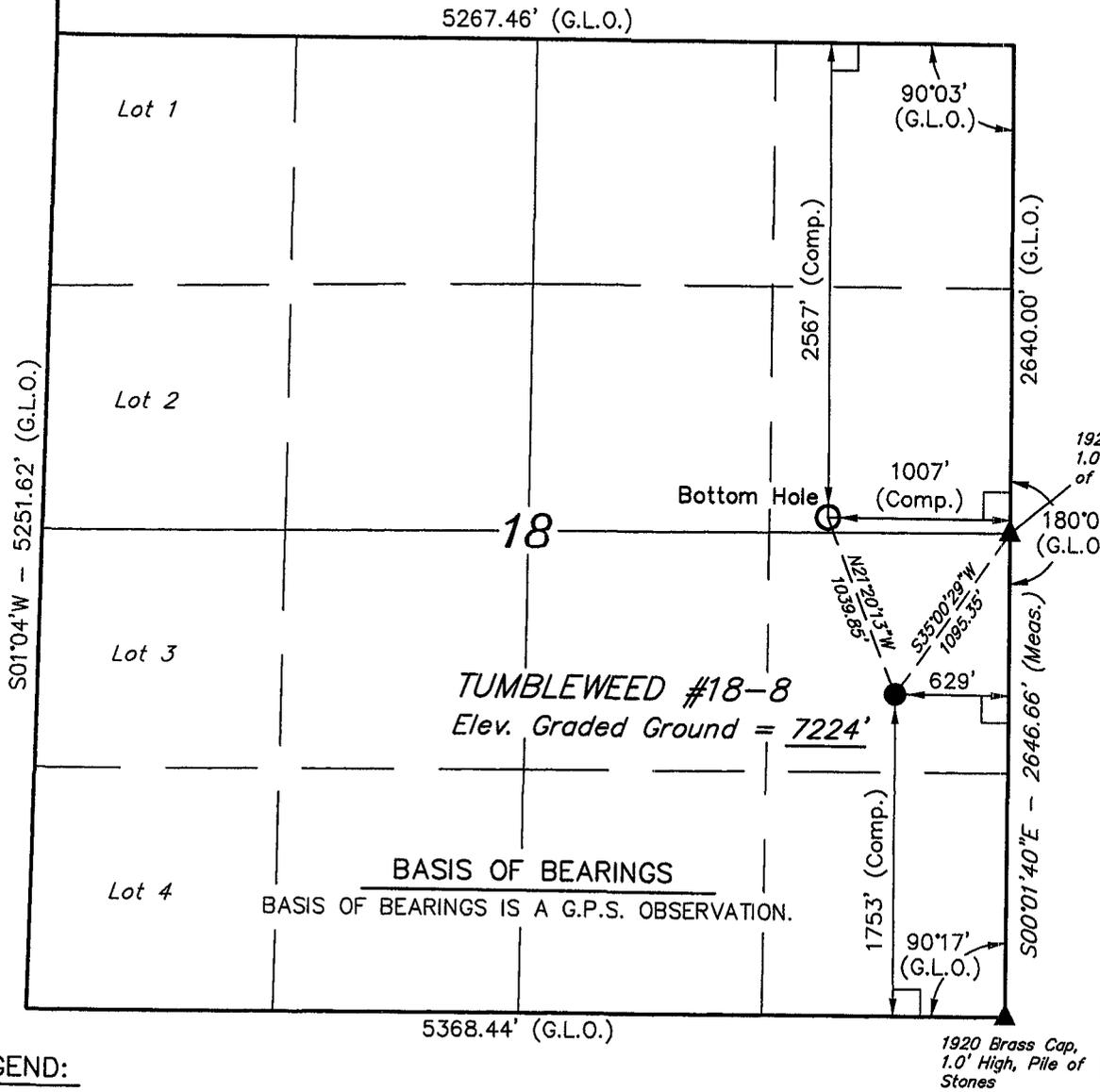
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STEWART PETROLEUM CORPORATION

Well location, TUMBLEWEED #18-8, located as shown in the NE 1/4 SE 1/4 of Section 18, T15S, R21E, S.L.B.&M., Uintah County, Utah.

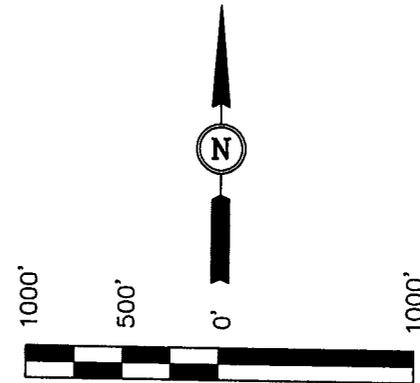
T15S, R21E, S.L.B.&M.

R
22
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21
E



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 7462 FEET.



CERTIFICATE

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

161319

ROBERT [Signature]

REGISTERED LAND SURVEYOR

REGISTRATION NO. 161319

STATE OF UTAH

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

LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 39°30'47.47" (39.513186)	LATITUDE = 39°30'37.90" (39.510528)
LONGITUDE = 109°36'12.57" (109.603492)	LONGITUDE = 109°36'07.73" (109.602147)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 39°30'47.59" (39.513219)	LATITUDE = 39°30'38.03" (39.510564)
LONGITUDE = 109°36'10.09" (109.602803)	LONGITUDE = 109°36'05.26" (109.601461)

SCALE 1" = 1000'	DATE SURVEYED: 04-04-08	DATE DRAWN: 04-07-08
PARTY J.R. N.W. C.C.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE	

DIRECTIONAL DRILLING PLAN

Attachment for Permit to Drill

Name of Operator: Stewart Petroleum Corporation
Address: 475 17th St., Ste. 750
Denver, CO 80202
Well Location: Tumbleweed #18-8
SHL: 1,753' FSL & 629' FEL, NE/4 SE/4, Sec. 18-15S-21E
BHL: 2,567' FNL, 1,007' FEL, SE/4 NE/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	1963	1973	5251	oil or gas
Mesaverde	4033	3973	3251	gas
Castlegate	5863	5783	1441	gas
Mancos	6063	5980	1244	gas
Dakota Silt	9863	9732	(2503)	gas
Cedar Mtn	10063	9932	(2708)	gas
Entrada	10914	10732	(3505)	gas
Wingate	11408	11132	(3908)	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	2,000'	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.

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 BO 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.
- The mud system will be monitored manually/visually.

<u>Interval</u>	<u>Mud Weight (ppg)</u>	<u>Viscosity</u>	<u>Fluid Loss</u>	<u>Remarks</u>
0 – 60'	8.3 – 8.6	27-40	--	Native Spud Mud
60' – 2,000'	8.3 – 8.6	27-40	15 cc or less	Native/Gel/Lime
2,000' – TD	8.6 – 9.5	38-46	15 cc or less	Potassium Formate

7. BLOOIE LINE

- An automatic igniter will not be installed on blooie line. The blooie will have a contact 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'.

DRILLING PLAN

APPROVAL OF OPERATIONS

11. CEMENT SYSTEMS

Conductor: 0-60' Ready mix to surface

Surface Casing: 0-2000'

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

12. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS

Starting Date: September 15, 2008

Duration: 21 Days

SURFACE USE PLAN

Name of Operator: Stewart Petroleum Corporation
Address: 475 - 17th St., Ste. 790
Denver, CO 80202
Well Location: Tumbleweed #18-9 / Tumbleweed #19-1
Uintah County, UT

The surface owner or surface owner representative and dirt contractor will be provided with an approved copy of the surface use plan of operations and approved conditions of approval before initiating construction or drilling.

The onsite inspection for the referenced well was conducted on Wednesday, July 16, 2008 at approximately 1:30 pm. In attendance at the onsite inspection were the following individuals:

Daryl R. Stewart	President	Stewart Petroleum Corporation
Terry Cox	Partner	Stewart Petroleum Corporation
Gene Brown	Contract Pumper	Stewart Petroleum Corporation
Jim Oldham	Dirt Contractor	Diamond J Oilfield Construction
Nate Packer	Natural Resource Specialist	BLM – Vernal Field Office
Paul	Natural Resource Specialist	BLM – Vernal Field Office
Scot Ackerman	Wildlife Biologist	BLM – Vernal Field Office
Don Hamilton	Permitting Agent	Buys & Associates, Inc.

1. Location of Existing Roads:

- a. The proposed well site is located approximately 15.51 miles south of Ouray, Utah.
- b. Directions to the proposed well site have been attached at the end of Exhibit B.
- c. The use of roads under State and County Road Department maintenance are necessary to access the Winter Ridge. However, an encroachment permit is not anticipated since no upgrades to the State or County Road system are proposed at this time.
- d. 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. Since no improvements are anticipated to the State, County, Tribal or BLM access roads no topsoil striping will occur.
- g. The operator will be responsible for all maintenance of the access road including drainage structures.

2. Planned Access Roads:
 - a. Access presently exists to the existing Tumbleweed #18-9 pad. Both the Tumbleweed #18-8 and the Tumbleweed #19-1 will be drilled from the existing pad with no new access proposed.

3. Location of Existing Wells:
 - a. Exhibit B has a map reflecting these wells within a one mile radius of the proposed well.

4. Location of Existing and/or Proposed Production Facilities:
 - a. All permanent structures will be painted a flat, non-reflective Yuma Green (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 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 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 pipeline corridor containing a single 4" steel surface gas pipeline is presently in place and will transport natural gas from the proposed wellsite to the existing QGM pipeline.
 - i. The existing Tumbleweed #18-9 permit allows for pipeline corridor upgrade to a single 8" surface gas pipeline
 - j. The existing pipeline corridor may be upgraded to contain a single 8" surface gas pipeline should production warrant this upgrade.

5. Location and Type of Water Supply:

- a. No water pipelines will be laid for this well.
- b. Drilling water for this will be hauled on the project road(s) as shown in Exhibit B
- c. Water to be used for construction, drilling completion and dust suppression will be obtained through and approved temporary change application from water permit # 49-123 (A8815), Priority Date: 05/09/1921 (DeLambert, Burt and Christine).
- d. Produced water from offset field operations may be utilized to drill this well.

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 Ute Tribal or BLM lands.
- c. If any gravel is used, it will be obtained from a state approved gravel pit.

7. Methods of Handling Waste:

- 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 16 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. Chemicals subject to reporting under the Superfund Amendment and Reauthorization Act (SARA) Title III (hazardous materials including diesel fuel, produced hydrocarbons, drilling fluids, etc.) would be present during various phases of the project including drilling, testing, completion, and production. Annual Tier II chemical inventory reports would be prepared and submitted to emergency response agencies per Federal and State requirements.
- 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 barrel tank will be installed to contain produced waste water. This water will be transported from the tank to an approved disposal facility for disposal.
 - 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 on state or private lands. A central crew camp has been 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.
 - c. Garbage Containers and Portable Toilets are proposed in this application.
 - d. No airstrips or staging areas are proposed with this application.
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; 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 9 lbs /acre with the following native seeds:
 - o Hy-Crested Wheat Grass (4 lbs / acre)
 - o Needle and Thread Grass (4 lbs / acre)
 - o Wyoming Sage Brush (1 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 reseeded at 12 lbs / acre with the following native seeds:
 - o Hy-Crested Wheat Grass (1 lbs / acre)
 - o Scarlet Globe Mallow (1 lbs / acre)
 - o Indian Rice Grass (4 lbs / acre)
 - o Needle and Thread Grass (5 lbs / acre)
 - o Wyoming Sage Brush (1 lbs / acre)

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. Operators Contact Information:

<u>Title</u>	<u>Name</u>	<u>Office Phone</u>	<u>Mobile Phone</u>	<u>e-mail</u>
President	Daryl Stewart	303-799-1922	720-339-9637	dstewart@stewartpetroleum.com
Agent	Don Hamilton	435-719-2018	435-719-2018	starpoint@etv.net

- b. 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.
- c. Our understanding of the results of the onsite inspection are:
 - a. No threatened or 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. Slash generated during the pad area expansion will be dispersed for reclamation and not piled in a way that would create a fire hazard.
 - d. Seed used for reclamation will be conditioned.
 - e. The known sage grouse lek was avoided through an alternate access route proposed with the initial APD.

Certification:

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exists; that I have full knowledge of state and federal laws applicable to this operation; 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 in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under Stewart Petroleum Corporation's BLM bond UTB-000251. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 6th day of August, 2008.

Don Hamilton

Don Hamilton -- Agent for Stewart Petroleum Corporation
2580 Creekview Road
Moab, Utah 84532

435-719-2018
starpoint@etv.net

STEWART PETROLEUM CORPORATION

**UINTAH COUNTY, UT
TUMBLEWEED #18-9 PAD
TUMBLEWEED #18-8**

TUMBLEWEED #18-8

Plan: Design #1

Standard Planning Report

04 August, 2008



Weatherford®

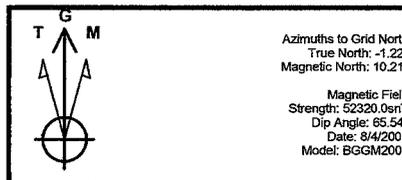
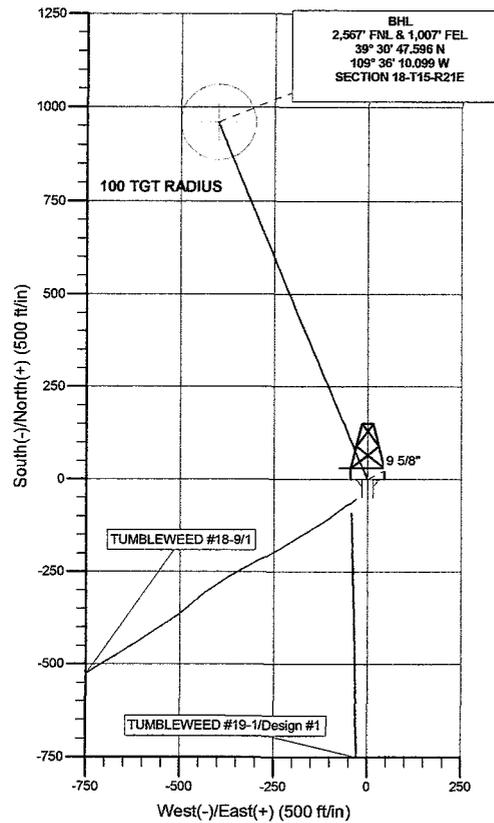
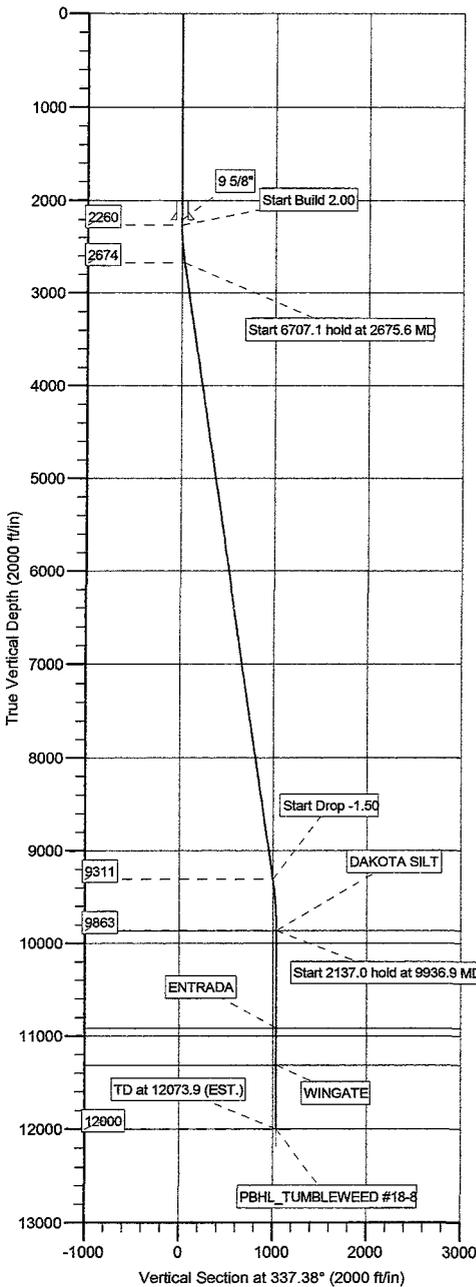


SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0
2	2260.0	0.00	0.00	2260.0	0.0	0.0	0.00	0.00	0.0	0.0
3	2675.6	8.31	337.38	2674.1	27.8	-11.6	2.00	337.38	30.1	
4	9382.7	8.31	337.38	9310.8	922.8	-384.5	0.00	0.00	999.7	
5	9936.9	0.00	0.00	9863.0	959.8	-399.9	1.50	180.00	1039.8	
6	12073.9	0.00	0.00	12000.0	959.8	-399.9	0.00	0.00	1039.8	PBHL_TUMBLEWEED #18-8

WELL DETAILS: TUMBLEWEED #18-8						
+N/-S	+E/-W	Northing	Ground Level:	7225.0	Longitude	Slot
0.0	0.0	132424.56	Easting	772854.45	39° 30' 38.027 N	109° 36' 5.257 W
			Latitude			

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL_TUMBLEWEED #18-8	12000.0	959.8	-399.9	132717.12	772732.56	39° 30' 47.596 N	109° 36' 10.099 W	Circle (Radius: 100.0)

KB ELEV: WELL @ 7240.0ft (Original Well Elev)
 GRD ELEV: 7225.0



CASING DETAILS		
No casing data is available		
FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
9863.0	9936.9	DAKOTA SILT
10914.0	10987.9	ENTRADA
11314.0	11387.9	WINGATE

Plan: Design #1 (TUMBLEWEED #18-8/TUMBLEWEED #18-8)

Created By: Robert H. Scott

Database: EDM 2003.21 Single User Db
Company: STEWART PETROLEUM CORPORATION
Project: UINTAH COUNTY, UT
Site: TUMBLEWEED #18-9 PAD
Well: TUMBLEWEED #18-8
Wellbore: TUMBLEWEED #18-8
Design: Design #1

Local Co-ordinate Reference: Well TUMBLEWEED #18-8
TVD Reference: WELL @ 7240.0ft (Original Well Elev)
MD Reference: WELL @ 7240.0ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	UINTAH COUNTY, UT		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site TUMBLEWEED #18-9 PAD, SECTION 18 -T15S-R21E

Site Position:		Northing:	132,408.42m	Latitude:	39° 30' 37.510 N
From:	Lat/Long	Easting:	772,845.40m	Longitude:	109° 36' 5.650 W
Position Uncertainty:	0.0 ft	Slot Radius:	0.000in	Grid Convergence:	1.22 °

Well TUMBLEWEED #18-8

Well Position	+N/-S	53.0 ft	Northing:	132,424.56 m	Latitude:	39° 30' 38.027 N
	+E/-W	29.7 ft	Easting:	772,854.45 m	Longitude:	109° 36' 5.257 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	7,225.0 ft

Wellbore TUMBLEWEED #18-8

Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	bggm2006	8/4/2008	(°) 11.43	(°) 65.54	(nT) 52,320

Design Design #1

Audit Notes:

Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	337.38

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,260.0	0.00	0.00	2,260.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,675.6	8.31	337.38	2,674.1	27.8	-11.6	2.00	2.00	0.00	337.38	
9,382.7	8.31	337.38	9,310.8	922.8	-384.5	0.00	0.00	0.00	0.00	
9,936.9	0.00	0.00	9,863.0	959.8	-399.9	1.50	-1.50	0.00	180.00	
12,073.9	0.00	0.00	12,000.0	959.8	-399.9	0.00	0.00	0.00	0.00	PBHL_TUMBLEWE

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 Wellbore: TUMBLEWEED #18-8
 Design: Design #1

Local Co-ordinate Reference: Well TUMBLEWEED #18-8
 TVD Reference: WELL @ 7240.0ft (Original Well Elev)
 MD Reference: WELL @ 7240.0ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
2,260.0	0.00	0.00	2,260.0	0.0	0.0	0.0	0.00	0.00	0.00	
Start Build 2.00										
2,300.0	0.80	337.38	2,300.0	0.3	-0.1	0.3	2.00	2.00	0.00	
2,400.0	2.80	337.38	2,399.9	3.2	-1.3	3.4	2.00	2.00	0.00	
2,500.0	4.80	337.38	2,499.7	9.3	-3.9	10.0	2.00	2.00	0.00	
2,600.0	6.80	337.38	2,599.2	18.6	-7.8	20.2	2.00	2.00	0.00	
2,675.6	8.31	337.38	2,674.1	27.8	-11.6	30.1	2.00	2.00	0.00	
Start 6707.1 hold at 2675.6 MD										
2,700.0	8.31	337.38	2,698.3	31.0	-12.9	33.6	0.00	0.00	0.00	
2,800.0	8.31	337.38	2,797.2	44.4	-18.5	48.1	0.00	0.00	0.00	
2,900.0	8.31	337.38	2,896.2	57.7	-24.0	62.5	0.00	0.00	0.00	
3,000.0	8.31	337.38	2,995.1	71.1	-29.6	77.0	0.00	0.00	0.00	
3,100.0	8.31	337.38	3,094.1	84.4	-35.2	91.4	0.00	0.00	0.00	
3,200.0	8.31	337.38	3,193.0	97.8	-40.7	105.9	0.00	0.00	0.00	
3,300.0	8.31	337.38	3,292.0	111.1	-46.3	120.4	0.00	0.00	0.00	
3,400.0	8.31	337.38	3,390.9	124.4	-51.8	134.8	0.00	0.00	0.00	
3,500.0	8.31	337.38	3,489.9	137.8	-57.4	149.3	0.00	0.00	0.00	
3,600.0	8.31	337.38	3,588.8	151.1	-63.0	163.7	0.00	0.00	0.00	
3,700.0	8.31	337.38	3,687.8	164.5	-68.5	178.2	0.00	0.00	0.00	
3,800.0	8.31	337.38	3,786.7	177.8	-74.1	192.6	0.00	0.00	0.00	
3,900.0	8.31	337.38	3,885.7	191.2	-79.6	207.1	0.00	0.00	0.00	
4,000.0	8.31	337.38	3,984.6	204.5	-85.2	221.6	0.00	0.00	0.00	
4,100.0	8.31	337.38	4,083.6	217.9	-90.8	236.0	0.00	0.00	0.00	
4,200.0	8.31	337.38	4,182.5	231.2	-96.3	250.5	0.00	0.00	0.00	
4,300.0	8.31	337.38	4,281.5	244.5	-101.9	264.9	0.00	0.00	0.00	
4,400.0	8.31	337.38	4,380.4	257.9	-107.4	279.4	0.00	0.00	0.00	
4,500.0	8.31	337.38	4,479.4	271.2	-113.0	293.8	0.00	0.00	0.00	
4,600.0	8.31	337.38	4,578.3	284.6	-118.6	308.3	0.00	0.00	0.00	
4,700.0	8.31	337.38	4,677.3	297.9	-124.1	322.7	0.00	0.00	0.00	
4,800.0	8.31	337.38	4,776.2	311.3	-129.7	337.2	0.00	0.00	0.00	
4,900.0	8.31	337.38	4,875.2	324.6	-135.2	351.7	0.00	0.00	0.00	
5,000.0	8.31	337.38	4,974.1	338.0	-140.8	366.1	0.00	0.00	0.00	
5,100.0	8.31	337.38	5,073.1	351.3	-146.4	380.6	0.00	0.00	0.00	
5,200.0	8.31	337.38	5,172.0	364.6	-151.9	395.0	0.00	0.00	0.00	
5,300.0	8.31	337.38	5,271.0	378.0	-157.5	409.5	0.00	0.00	0.00	
5,400.0	8.31	337.38	5,369.9	391.3	-163.0	423.9	0.00	0.00	0.00	
5,500.0	8.31	337.38	5,468.9	404.7	-168.6	438.4	0.00	0.00	0.00	
5,600.0	8.31	337.38	5,567.8	418.0	-174.2	452.8	0.00	0.00	0.00	
5,700.0	8.31	337.38	5,666.8	431.4	-179.7	467.3	0.00	0.00	0.00	
5,800.0	8.31	337.38	5,765.7	444.7	-185.3	481.8	0.00	0.00	0.00	
5,900.0	8.31	337.38	5,864.7	458.1	-190.8	496.2	0.00	0.00	0.00	
6,000.0	8.31	337.38	5,963.6	471.4	-196.4	510.7	0.00	0.00	0.00	
6,100.0	8.31	337.38	6,062.6	484.7	-202.0	525.1	0.00	0.00	0.00	
6,200.0	8.31	337.38	6,161.5	498.1	-207.5	539.6	0.00	0.00	0.00	
6,300.0	8.31	337.38	6,260.5	511.4	-213.1	554.0	0.00	0.00	0.00	
6,400.0	8.31	337.38	6,359.4	524.8	-218.6	568.5	0.00	0.00	0.00	
6,500.0	8.31	337.38	6,458.4	538.1	-224.2	583.0	0.00	0.00	0.00	
6,600.0	8.31	337.38	6,557.3	551.5	-229.8	597.4	0.00	0.00	0.00	
6,700.0	8.31	337.38	6,656.3	564.8	-235.3	611.9	0.00	0.00	0.00	
6,800.0	8.31	337.38	6,755.2	578.1	-240.9	626.3	0.00	0.00	0.00	
6,900.0	8.31	337.38	6,854.2	591.5	-246.4	640.8	0.00	0.00	0.00	
7,000.0	8.31	337.38	6,953.1	604.8	-252.0	655.2	0.00	0.00	0.00	
7,100.0	8.31	337.38	7,052.1	618.2	-257.6	669.7	0.00	0.00	0.00	
7,200.0	8.31	337.38	7,151.0	631.5	-263.1	684.1	0.00	0.00	0.00	

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Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,300.0	8.31	337.38	7,250.0	644.9	-268.7	698.6	0.00	0.00	0.00
7,400.0	8.31	337.38	7,348.9	658.2	-274.2	713.1	0.00	0.00	0.00
7,500.0	8.31	337.38	7,447.9	671.6	-279.8	727.5	0.00	0.00	0.00
7,600.0	8.31	337.38	7,546.8	684.9	-285.4	742.0	0.00	0.00	0.00
7,700.0	8.31	337.38	7,645.8	698.2	-290.9	756.4	0.00	0.00	0.00
7,800.0	8.31	337.38	7,744.7	711.6	-296.5	770.9	0.00	0.00	0.00
7,900.0	8.31	337.38	7,843.7	724.9	-302.0	785.3	0.00	0.00	0.00
8,000.0	8.31	337.38	7,942.6	738.3	-307.6	799.8	0.00	0.00	0.00
8,100.0	8.31	337.38	8,041.6	751.6	-313.2	814.3	0.00	0.00	0.00
8,200.0	8.31	337.38	8,140.5	765.0	-318.7	828.7	0.00	0.00	0.00
8,300.0	8.31	337.38	8,239.5	778.3	-324.3	843.2	0.00	0.00	0.00
8,400.0	8.31	337.38	8,338.4	791.7	-329.8	857.6	0.00	0.00	0.00
8,500.0	8.31	337.38	8,437.4	805.0	-335.4	872.1	0.00	0.00	0.00
8,600.0	8.31	337.38	8,536.3	818.3	-341.0	886.5	0.00	0.00	0.00
8,700.0	8.31	337.38	8,635.3	831.7	-346.5	901.0	0.00	0.00	0.00
8,800.0	8.31	337.38	8,734.2	845.0	-352.1	915.4	0.00	0.00	0.00
8,900.0	8.31	337.38	8,833.2	858.4	-357.6	929.9	0.00	0.00	0.00
9,000.0	8.31	337.38	8,932.1	871.7	-363.2	944.4	0.00	0.00	0.00
9,100.0	8.31	337.38	9,031.1	885.1	-368.8	958.8	0.00	0.00	0.00
9,200.0	8.31	337.38	9,130.0	898.4	-374.3	973.3	0.00	0.00	0.00
9,300.0	8.31	337.38	9,229.0	911.8	-379.9	987.7	0.00	0.00	0.00
9,382.7	8.31	337.38	9,310.8	922.8	-384.5	999.7	0.00	0.00	0.00
Start Drop -1.50									
9,400.0	8.05	337.38	9,327.9	925.1	-385.4	1,002.1	1.50	-1.50	0.00
9,500.0	6.55	337.38	9,427.1	936.8	-390.3	1,014.9	1.50	-1.50	0.00
9,600.0	5.05	337.38	9,526.6	946.1	-394.2	1,025.0	1.50	-1.50	0.00
9,700.0	3.55	337.38	9,626.3	953.1	-397.1	1,032.5	1.50	-1.50	0.00
9,800.0	2.05	337.38	9,726.2	957.6	-399.0	1,037.4	1.50	-1.50	0.00
9,900.0	0.55	337.38	9,826.1	959.7	-399.8	1,039.6	1.50	-1.50	0.00
9,936.9	0.00	0.00	9,863.0	959.8	-399.9	1,039.8	1.50	-1.50	0.00
Start 2137.0 hold at 9936.9 MD - DAKOTA SILT									
10,000.0	0.00	0.00	9,926.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
10,100.0	0.00	0.00	10,026.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
10,200.0	0.00	0.00	10,126.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
10,300.0	0.00	0.00	10,226.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
10,400.0	0.00	0.00	10,326.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
10,500.0	0.00	0.00	10,426.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
10,600.0	0.00	0.00	10,526.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
10,700.0	0.00	0.00	10,626.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
10,800.0	0.00	0.00	10,726.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
10,900.0	0.00	0.00	10,826.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
10,987.9	0.00	0.00	10,914.0	959.8	-399.9	1,039.8	0.00	0.00	0.00
ENTRADA									
11,000.0	0.00	0.00	10,926.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
11,100.0	0.00	0.00	11,026.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
11,200.0	0.00	0.00	11,126.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
11,300.0	0.00	0.00	11,226.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
11,387.9	0.00	0.00	11,314.0	959.8	-399.9	1,039.8	0.00	0.00	0.00
WINGATE									
11,400.0	0.00	0.00	11,326.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
11,500.0	0.00	0.00	11,426.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
11,600.0	0.00	0.00	11,526.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
11,700.0	0.00	0.00	11,626.1	959.8	-399.9	1,039.8	0.00	0.00	0.00



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 TVD Reference: WELL @ 7240.0ft (Original Well Elev)
 MD Reference: WELL @ 7240.0ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,800.0	0.00	0.00	11,726.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
11,900.0	0.00	0.00	11,826.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
12,000.0	0.00	0.00	11,926.1	959.8	-399.9	1,039.8	0.00	0.00	0.00
12,073.9	0.00	0.00	12,000.0	959.8	-399.9	1,039.8	0.00	0.00	0.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
9,936.9	9,863.0	DAKOTA SILT		0.00	
10,987.9	10,914.0	ENTRADA		0.00	
11,387.9	11,314.0	WINGATE		0.00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,260.0	2,260.0	0.0	0.0	Start Build 2.00
2,675.6	2,674.1	27.8	-11.6	Start 6707.1 hold at 2675.6 MD
9,382.7	9,310.8	922.8	-384.5	Start Drop -1.50
9,936.9	9,863.0	959.8	-399.9	Start 2137.0 hold at 9936.9 MD
12,073.9	12,000.0	959.8	-399.9	TD at 12073.9 (EST.)

STEWART PETROLEUM CORPORATION

**UINTAH COUNTY, UT
TUMBLEWEED #18-9 PAD
TUMBLEWEED #18-8**

**TUMBLEWEED #18-8
Design #1**

Anticollision Report

04 August, 2008



Weatherford®

Company: STEWART PETROLEUM CORPORATION
 Project: UINTAH COUNTY, UT
 Reference Site: TUMBLEWEED #18-9 PAD
 Site Error: 0.0ft
 Reference Well: TUMBLEWEED #18-8
 Well Error: 0.0ft
 Reference Wellbore: TUMBLEWEED #18-8
 Reference Design: Design #1

Local Co-ordinate Reference: Well TUMBLEWEED #18-8
 TVD Reference: WELL @ 7240.0ft (Original Well Elev)
 MD Reference: WELL @ 7240.0ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 2003.21 Single User Db
 Offset TVD Reference: Offset Datum

Reference	Design #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	0.0 to 20,000.0ft	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 8/4/2008			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	12,073.9	Design #1 (TUMBLEWEED #18-8)	MWD	MWD - Standard

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
TUMBLEWEED #18-9 PAD						
TUMBLEWEED #18-9 - TUMBLEWEED #18-9 - 1	0.0	0.0	60.7			
TUMBLEWEED #18-9 - TUMBLEWEED #18-9 - Plan #1	0.0	0.0	60.7			
TUMBLEWEED #18-9 - TUMBLEWEED #18-9 - Plan #1	2,260.0	2,260.0	60.7	60.7	10,000.000	CC, ES
TUMBLEWEED #19-1 - TUMBLEWEED #19-1 - Design #1	0.0	0.0	99.8			
TUMBLEWEED #19-1 - TUMBLEWEED #19-1 - Design #1	233.4	233.4	99.8	99.8	10,000.000	CC, ES

Offset Design TUMBLEWEED #18-9 PAD - TUMBLEWEED #18-9 - TUMBLEWEED #18-9 - 1													Offset Site Error:	0.0 ft
Survey Program: 2202-MWD, 10370-													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Highside Tooface (")	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-150.72	-53.0	-29.7	60.7					
100.0	100.0	100.0	100.0	0.1	0.1	-150.71	-53.0	-29.7	60.7	60.7	0.00	N/A		
200.0	200.0	199.9	199.9	0.3	0.2	-150.68	-53.0	-29.8	60.8	60.8	0.00	N/A		
300.0	300.0	299.9	299.9	0.5	0.3	-150.63	-53.1	-29.9	61.0	61.0	0.00	N/A		
400.0	400.0	399.9	399.9	0.8	0.5	-150.56	-53.3	-30.1	61.2	61.2	0.00	N/A		
500.0	500.0	499.8	499.8	1.0	0.6	-150.47	-53.5	-30.3	61.5	61.5	0.00	N/A		
600.0	600.0	599.8	599.8	1.2	0.7	-150.36	-53.7	-30.6	61.8	61.8	0.00	N/A		
700.0	700.0	699.7	699.7	1.4	0.8	-150.23	-54.0	-30.9	62.2	62.2	0.00	N/A		
800.0	800.0	799.7	799.7	1.7	0.9	-150.09	-54.3	-31.2	62.6	62.6	0.00	N/A		
900.0	900.0	899.7	899.7	1.9	1.0	-149.93	-54.7	-31.7	63.2	63.2	0.00	N/A		
1,000.0	1,000.0	999.6	999.6	2.1	1.1	-149.75	-55.1	-32.1	63.7	63.7	0.00	N/A		
1,100.0	1,100.0	1,099.6	1,099.6	2.3	1.2	-149.56	-55.5	-32.6	64.4	64.4	0.00	N/A		
1,200.0	1,200.0	1,199.5	1,199.5	2.6	1.4	-149.35	-56.0	-33.2	65.1	65.1	0.00	N/A		
1,300.0	1,300.0	1,299.5	1,299.5	2.8	1.5	-149.13	-56.5	-33.8	65.8	65.8	0.00	N/A		
1,400.0	1,400.0	1,399.4	1,399.4	3.0	1.6	-148.90	-57.1	-34.4	66.7	66.7	0.00	N/A		
1,500.0	1,500.0	1,499.4	1,499.4	3.2	1.7	-148.66	-57.7	-35.1	67.6	67.6	0.00	N/A		
1,600.0	1,600.0	1,599.4	1,599.3	3.5	1.8	-148.41	-58.3	-35.9	68.5	68.5	0.00	N/A		
1,700.0	1,700.0	1,699.3	1,699.3	3.7	1.9	-148.15	-59.0	-36.7	69.5	69.5	0.00	N/A		
1,800.0	1,800.0	1,799.3	1,799.2	3.9	2.0	-147.88	-59.8	-37.5	70.6	70.6	0.00	N/A		
1,900.0	1,900.0	1,899.2	1,899.2	4.1	2.1	-147.60	-60.6	-38.4	71.7	71.7	0.00	N/A		
2,000.0	2,000.0	1,999.2	1,999.1	4.4	2.3	-147.32	-61.4	-39.4	72.9	72.9	0.00	N/A		
2,100.0	2,100.0	2,099.1	2,099.0	4.6	2.4	-147.04	-62.2	-40.4	74.2	74.2	0.00	N/A		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



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Output errors are at: 2.00 sigma
Database: EDM 2003.21 Single User Db
Offset TVD Reference: Offset Datum

Offset Design TUMBLEWEED #18-9 PAD - TUMBLEWEED #18-9 - TUMBLEWEED #18-9 - 1													Offset Site Error:	0.0 ft
Survey Program: 2202-MWD, 10370-													Offset Well Error:	0.0 ft
Reference				Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
2,200.0	2,200.0	2,199.0	2,199.0	4.8	2.5	-146.75	-63.1	-41.4	75.5	75.5	0.00	N/A		
2,260.0	2,260.0	2,258.0	2,257.9	5.0	2.6	-146.48	-63.9	-42.4	76.7	76.7	0.00	N/A		
2,300.0	2,300.0	2,297.4	2,297.2	5.0	2.7	-123.63	-64.7	-43.5	78.1	78.1	0.00	N/A		
2,400.0	2,399.9	2,395.5	2,395.3	5.3	2.9	-123.33	-66.8	-48.3	84.4	84.4	0.00	N/A		
2,500.0	2,499.7	2,492.5	2,492.0	5.5	3.2	-124.05	-70.1	-55.2	94.9	94.9	0.00	N/A		
2,600.0	2,599.2	2,588.1	2,587.0	5.7	3.4	-125.99	-75.8	-63.5	110.3	110.3	0.00	N/A		
2,675.6	2,674.1	2,659.5	2,657.8	5.9	3.6	-127.79	-81.6	-70.8	125.4	125.4	0.00	N/A		
2,700.0	2,698.3	2,682.5	2,680.6	6.0	3.7	-128.40	-83.7	-73.4	130.8	130.8	0.00	N/A		
2,800.0	2,797.2	2,775.2	2,772.1	6.2	4.0	-130.19	-93.0	-85.0	154.7	154.7	0.00	N/A		
2,900.0	2,896.2	2,866.4	2,861.4	6.5	4.3	-130.92	-104.3	-99.4	182.0	182.0	0.00	N/A		
3,000.0	2,995.1	2,961.9	2,954.4	6.7	4.6	-130.89	-116.5	-116.9	210.9	210.9	0.00	N/A		
3,100.0	3,094.1	3,061.3	3,051.4	7.0	5.0	-130.65	-127.9	-135.5	238.7	238.7	0.00	N/A		
3,200.0	3,193.0	3,157.5	3,145.5	7.3	5.3	-130.49	-138.4	-153.0	265.8	265.8	0.00	N/A		
3,300.0	3,292.0	3,251.2	3,236.9	7.6	5.6	-130.36	-149.1	-170.4	293.5	293.5	0.00	N/A		
3,400.0	3,390.9	3,347.2	3,330.6	7.8	6.0	-130.26	-160.3	-188.3	321.5	321.5	0.00	N/A		
3,500.0	3,489.9	3,441.8	3,422.7	8.1	6.4	-130.12	-171.4	-206.3	349.7	349.7	0.00	N/A		
3,600.0	3,588.8	3,536.2	3,514.6	8.4	6.8	-129.92	-182.6	-224.9	378.3	378.3	0.00	N/A		
3,700.0	3,687.8	3,632.5	3,608.3	8.7	7.2	-129.71	-194.1	-244.2	407.2	407.2	0.00	N/A		
3,800.0	3,786.7	3,733.0	3,706.1	9.0	7.6	-129.45	-205.4	-264.5	435.5	435.5	0.00	N/A		
3,900.0	3,885.7	3,829.7	3,800.3	9.3	8.0	-129.23	-215.4	-283.6	462.8	462.8	0.00	N/A		
4,000.0	3,984.6	3,935.1	3,903.3	9.7	8.4	-129.13	-226.0	-303.2	489.4	489.4	0.00	N/A		
4,100.0	4,083.6	4,032.4	3,998.6	10.0	8.8	-129.15	-235.4	-320.2	515.0	515.0	0.00	N/A		
4,200.0	4,182.5	4,131.3	4,095.7	10.3	9.1	-129.22	-244.8	-336.9	540.4	540.4	0.00	N/A		
4,300.0	4,281.5	4,226.8	4,189.4	10.6	9.5	-129.30	-254.0	-352.9	565.7	565.7	0.00	N/A		
4,400.0	4,380.4	4,319.8	4,280.7	10.9	9.8	-129.37	-263.0	-368.4	591.1	591.1	0.00	N/A		
4,500.0	4,479.4	4,409.5	4,368.4	11.2	10.2	-129.45	-272.9	-383.8	617.9	617.9	0.00	N/A		
4,600.0	4,578.3	4,507.1	4,464.0	11.6	10.6	-129.59	-284.2	-400.1	644.9	644.9	0.00	N/A		
4,700.0	4,677.3	4,603.6	4,558.5	11.9	11.0	-129.73	-295.2	-416.0	671.7	671.7	0.00	N/A		
4,800.0	4,776.2	4,702.6	4,655.5	12.2	11.3	-129.86	-306.6	-432.4	698.6	698.6	0.00	N/A		
4,900.0	4,875.2	4,807.5	4,758.6	12.5	11.7	-130.17	-318.7	-447.2	724.4	724.4	0.00	N/A		
5,000.0	4,974.1	4,909.4	4,859.1	12.9	12.1	-130.52	-330.1	-460.5	749.5	749.5	0.00	N/A		
5,100.0	5,073.1	4,994.2	4,942.6	13.2	12.4	-130.81	-340.0	-471.6	775.1	775.1	0.00	N/A		
5,200.0	5,172.0	5,076.1	5,022.9	13.5	12.7	-131.00	-350.3	-483.7	802.2	802.2	0.00	N/A		
5,300.0	5,271.0	5,154.8	5,099.6	13.8	13.1	-131.07	-361.2	-497.3	831.4	831.4	0.00	N/A		
5,400.0	5,369.9	5,258.2	5,200.0	14.2	13.6	-131.00	-375.0	-517.4	861.2	861.2	0.00	N/A		
5,500.0	5,468.9	5,383.3	5,322.5	14.5	14.0	-131.06	-389.8	-538.7	888.6	888.6	0.00	N/A		
5,600.0	5,567.8	5,485.1	5,422.5	14.8	14.4	-131.14	-400.1	-554.5	913.9	913.9	0.00	N/A		
5,700.0	5,666.8	5,577.0	5,512.8	15.2	14.8	-131.21	-409.8	-569.0	939.5	939.5	0.00	N/A		
5,800.0	5,765.7	5,672.0	5,606.0	15.5	15.2	-131.29	-420.1	-583.8	965.5	965.5	0.00	N/A		
5,900.0	5,864.7	5,768.6	5,700.8	15.8	15.5	-131.37	-430.6	-598.9	991.5	991.5	0.00	N/A		
6,000.0	5,963.6	5,876.6	5,806.9	16.2	16.0	-131.43	-441.5	-615.9	1,016.9	1,016.9	0.00	N/A		
6,100.0	6,062.6	5,961.5	5,890.2	16.5	16.3	-131.42	-449.8	-630.1	1,042.3	1,042.3	0.00	N/A		
6,200.0	6,161.5	6,057.6	5,984.4	16.8	16.7	-131.42	-459.9	-646.4	1,068.5	1,068.5	0.00	N/A		
6,300.0	6,260.5	6,166.0	6,090.8	17.2	17.1	-131.47	-470.9	-663.6	1,094.0	1,094.0	0.00	N/A		
6,400.0	6,359.4	6,243.0	6,166.5	17.5	17.4	-131.51	-478.8	-675.6	1,119.4	1,119.4	0.00	N/A		
6,500.0	6,458.4	6,332.3	6,253.8	17.8	17.8	-131.47	-488.7	-691.7	1,146.6	1,146.6	0.00	N/A		
6,600.0	6,557.3	6,433.1	6,352.3	18.2	18.2	-131.42	-499.6	-710.0	1,173.6	1,173.6	0.00	N/A		
6,700.0	6,656.3	6,528.1	6,445.3	18.5	18.6	-131.40	-510.1	-726.7	1,200.6	1,200.6	0.00	N/A		
6,800.0	6,755.2	6,628.1	6,543.2	18.8	19.0	-131.43	-521.8	-743.4	1,227.7	1,227.7	0.00	N/A		
6,900.0	6,854.2	6,748.9	6,661.6	19.2	19.5	-131.49	-534.8	-762.7	1,253.8	1,253.8	0.00	N/A		
7,000.0	6,953.1	6,838.9	6,749.9	19.5	19.8	-131.45	-543.0	-778.1	1,279.0	1,279.0	0.00	N/A		
7,100.0	7,052.1	6,984.0	6,892.5	19.9	20.4	-131.40	-554.6	-802.3	1,302.9	1,302.9	0.00	N/A		

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Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
7,200.0	7,151.0	7,081.2	6,988.4	20.2	20.7	-131.42	-561.2	-816.6	1,324.9	1,324.9	0.00	N/A		
7,300.0	7,250.0	7,149.4	7,055.4	20.5	21.0	-131.34	-565.6	-828.7	1,347.9	1,347.9	0.00	N/A		
7,400.0	7,348.9	7,278.4	7,181.5	20.9	21.5	-131.05	-572.4	-854.9	1,371.0	1,371.0	0.00	N/A		
7,500.0	7,447.9	7,352.0	7,253.4	21.2	21.8	-130.84	-575.4	-870.5	1,393.4	1,393.4	0.00	N/A		
7,600.0	7,546.8	7,421.2	7,320.8	21.6	22.1	-130.69	-580.4	-885.5	1,418.5	1,418.5	0.00	N/A		
7,700.0	7,645.8	7,529.8	7,427.1	21.9	22.5	-130.56	-588.5	-906.0	1,442.9	1,442.9	0.00	N/A		
7,800.0	7,744.7	7,589.7	7,485.6	22.2	22.8	-130.51	-593.8	-917.4	1,468.6	1,468.6	0.00	N/A		
7,900.0	7,843.7	7,675.2	7,568.7	22.6	23.2	-130.37	-602.3	-935.8	1,496.2	1,496.2	0.00	N/A		
8,000.0	7,942.6	7,804.1	7,694.4	22.9	23.7	-130.20	-613.4	-962.0	1,522.1	1,522.1	0.00	N/A		
8,100.0	8,041.6	7,890.2	7,778.4	23.3	24.1	-130.11	-621.3	-979.0	1,548.4	1,548.4	0.00	N/A		
8,200.0	8,140.5	7,976.6	7,862.7	23.6	24.5	-130.03	-629.5	-996.1	1,575.0	1,575.0	0.00	N/A		
8,300.0	8,239.5	8,071.6	7,955.5	23.9	24.9	-129.99	-639.6	-1,014.0	1,602.1	1,602.1	0.00	N/A		
8,400.0	8,338.4	8,183.7	8,065.2	24.3	25.4	-129.99	-651.3	-1,033.8	1,628.6	1,628.6	0.00	N/A		
8,500.0	8,437.4	8,272.0	8,151.9	24.6	25.7	-130.05	-661.2	-1,047.9	1,654.9	1,654.9	0.00	N/A		
8,600.0	8,536.3	8,336.0	8,214.3	25.0	26.0	-130.05	-668.8	-1,059.4	1,682.7	1,682.7	0.00	N/A		
8,700.0	8,635.3	8,424.9	8,301.0	25.3	26.4	-130.05	-679.8	-1,075.9	1,711.2	1,711.2	0.00	N/A		
8,800.0	8,734.2	8,545.7	8,418.8	25.6	26.9	-130.08	-695.2	-1,097.5	1,739.9	1,739.9	0.00	N/A		
8,900.0	8,833.2	8,642.0	8,512.9	26.0	27.3	-130.08	-705.9	-1,114.6	1,767.0	1,767.0	0.00	N/A		
9,000.0	8,932.1	8,718.0	8,587.0	26.3	27.6	-130.05	-714.3	-1,129.4	1,794.9	1,794.9	0.00	N/A		
9,100.0	9,031.1	8,808.4	8,674.9	26.7	28.1	-129.98	-724.8	-1,148.1	1,823.7	1,823.7	0.00	N/A		
9,200.0	9,130.0	8,935.8	8,798.7	27.0	28.6	-129.84	-738.0	-1,175.3	1,851.8	1,851.8	0.00	N/A		
9,300.0	9,229.0	9,044.1	8,904.1	27.3	29.1	-129.70	-747.3	-1,198.5	1,878.4	1,878.4	0.00	N/A		
9,382.7	9,310.8	9,165.5	9,022.4	27.6	29.6	-129.55	-757.0	-1,223.5	1,899.8	1,899.8	0.00	N/A		
9,400.0	9,327.9	9,198.9	9,055.1	27.7	29.8	-129.57	-759.3	-1,230.0	1,903.9	1,903.9	0.00	N/A		
9,500.0	9,427.1	9,340.3	9,194.1	27.9	30.3	-129.68	-766.8	-1,254.6	1,924.5	1,924.5	0.00	N/A		
9,600.0	9,526.6	9,468.0	9,320.3	28.2	30.7	-129.81	-774.2	-1,272.6	1,942.6	1,942.6	0.00	N/A		
9,700.0	9,626.3	9,625.0	9,476.1	28.4	31.2	-129.87	-781.3	-1,290.4	1,956.7	1,956.7	0.00	N/A		
9,800.0	9,726.2	9,766.1	9,616.7	28.6	31.5	-129.86	-784.9	-1,302.8	1,965.9	1,965.9	0.00	N/A		
9,900.0	9,826.1	9,901.5	9,751.7	28.7	31.8	-129.80	-787.2	-1,311.8	1,972.0	1,972.0	0.00	N/A		
9,936.9	9,863.0	9,934.2	9,784.4	28.8	31.9	-152.39	-787.6	-1,313.7	1,973.5	1,973.5	0.00	N/A		
10,000.0	9,926.1	10,002.0	9,852.1	28.9	32.0	-152.32	-788.8	-1,317.3	1,976.0	1,976.0	0.00	N/A		
10,100.0	10,026.1	10,099.7	9,949.7	29.0	32.2	-152.25	-790.9	-1,321.1	1,979.8	1,979.8	0.00	N/A		
10,200.0	10,126.1	10,227.0	10,076.9	29.2	32.4	-152.16	-793.0	-1,325.7	1,982.9	1,982.9	0.00	N/A		
10,300.0	10,226.1	10,344.0	10,193.8	29.4	32.6	-152.08	-793.8	-1,329.1	1,984.9	1,984.9	0.00	N/A		
10,400.0	10,326.1	10,449.3	10,299.1	29.5	32.8	-152.03	-794.3	-1,331.4	1,986.3	1,986.3	0.00	N/A		
10,500.0	10,426.1	10,551.0	10,400.7	29.7	32.9	-151.98	-794.8	-1,333.5	1,987.7	1,987.7	0.00	N/A		
10,600.0	10,526.1	10,656.7	10,506.4	29.9	33.1	-151.94	-795.2	-1,335.3	1,988.8	1,988.8	0.00	N/A		
10,700.0	10,626.1	10,756.8	10,606.6	30.0	33.2	-151.91	-795.5	-1,336.8	1,989.8	1,989.8	0.00	N/A		
10,800.0	10,726.1	10,857.4	10,707.1	30.2	33.4	-151.88	-795.8	-1,338.3	1,990.8	1,990.8	0.00	N/A		
10,900.0	10,826.1	10,957.8	10,807.6	30.4	33.5	-151.84	-796.1	-1,339.7	1,991.7	1,991.7	0.00	N/A		
11,000.0	10,926.1	11,058.0	10,907.7	30.6	33.7	-151.81	-796.4	-1,341.1	1,992.6	1,992.6	0.00	N/A		
11,100.0	11,026.1	11,158.0	11,007.7	30.7	33.8	-151.78	-796.7	-1,342.5	1,993.6	1,993.6	0.00	N/A		
11,200.0	11,126.1	11,257.8	11,107.5	30.9	34.0	-151.75	-797.0	-1,343.9	1,994.5	1,994.5	0.00	N/A		
11,300.0	11,226.1	11,356.9	11,206.6	31.1	34.1	-151.72	-797.3	-1,345.3	1,995.5	1,995.5	0.00	N/A		
11,400.0	11,326.1	11,456.0	11,305.7	31.3	34.3	-151.68	-797.6	-1,346.8	1,996.5	1,996.5	0.00	N/A		
11,500.0	11,426.1	11,555.1	11,404.8	31.4	34.4	-151.65	-798.0	-1,348.4	1,997.5	1,997.5	0.00	N/A		
11,600.0	11,526.1	11,654.2	11,503.9	31.6	34.6	-151.61	-798.3	-1,350.0	1,998.6	1,998.6	0.00	N/A		
11,700.0	11,626.1	11,700.0	11,549.7	31.8	34.6	-151.60	-798.5	-1,350.8	2,000.4	2,000.4	0.00	N/A		
11,800.0	11,726.1	11,700.0	11,549.7	32.0	34.6	-151.60	-798.5	-1,350.8	2,006.8	2,006.8	0.00	N/A		
11,900.0	11,826.1	11,700.0	11,549.7	32.1	34.6	-151.60	-798.5	-1,350.8	2,018.0	2,018.0	0.00	N/A		
12,000.0	11,926.1	11,700.0	11,549.7	32.3	34.6	-151.60	-798.5	-1,350.8	2,034.1	2,034.1	0.00	N/A		
12,073.9	12,000.0	11,700.0	11,549.7	32.5	34.6	-151.60	-798.5	-1,350.8	2,049.1	2,049.1	0.00	N/A		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Company: STEWART PETROLEUM CORPORATION
Project: UINTAH COUNTY, UT
Reference Site: TUMBLEWEED #18-9 PAD
Site Error: 0.0ft
Reference Well: TUMBLEWEED #18-8
Well Error: 0.0ft
Reference Wellbore: TUMBLEWEED #18-8
Reference Design: Design #1

Local Co-ordinate Reference: Well TUMBLEWEED #18-8
TVD Reference: WELL @ 7240.0ft (Original Well Elev)
MD Reference: WELL @ 7240.0ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 2003.21 Single User Db
Offset TVD Reference: Offset Datum

Company: STEWART PETROLEUM CORPORATION
 Project: UINTAH COUNTY, UT
 Reference Site: TUMBLEWEED #18-9 PAD
 Site Error: 0.0ft
 Reference Well: TUMBLEWEED #18-8
 Well Error: 0.0ft
 Reference Wellbore: TUMBLEWEED #18-8
 Reference Design: Design #1

Local Co-ordinate Reference: Well TUMBLEWEED #18-8
 TVD Reference: WELL @ 7240.0ft (Original Well Elev)
 MD Reference: WELL @ 7240.0ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 2003.21 Single User Db
 Offset TVD Reference: Offset Datum

Offset Design TUMBLEWEED #18-9 PAD - TUMBLEWEED #18-9 - TUMBLEWEED #18-9 - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-MWD, 10370-														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-150.72	-53.0	-29.7	60.7						
100.0	100.0	100.0	100.0	0.1	0.1	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
200.0	200.0	200.0	200.0	0.3	0.3	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
300.0	300.0	300.0	300.0	0.5	0.5	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
400.0	400.0	400.0	400.0	0.8	0.8	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
500.0	500.0	500.0	500.0	1.0	1.0	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
600.0	600.0	600.0	600.0	1.2	1.2	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
700.0	700.0	700.0	700.0	1.4	1.4	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
800.0	800.0	800.0	800.0	1.7	1.7	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
900.0	900.0	900.0	900.0	1.9	1.9	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
1,500.0	1,500.0	1,500.0	1,500.0	3.2	3.2	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
1,900.0	1,900.0	1,900.0	1,900.0	4.1	4.1	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A			
2,260.0	2,260.0	2,260.0	2,260.0	5.0	5.0	-150.72	-53.0	-29.7	60.7	60.7	0.00	N/A CC, ES			
2,300.0	2,300.0	2,299.3	2,299.3	5.0	5.0	-128.17	-53.1	-29.9	61.1	61.1	0.00	N/A			
2,400.0	2,399.9	2,397.3	2,397.2	5.3	5.2	-128.91	-54.7	-32.5	65.7	65.7	0.00	N/A			
2,500.0	2,499.7	2,494.7	2,494.5	5.5	5.4	-130.15	-57.9	-37.9	75.5	75.5	0.00	N/A			
2,600.0	2,599.2	2,591.2	2,590.5	5.7	5.6	-131.50	-62.8	-46.1	90.4	90.4	0.00	N/A			
2,675.6	2,674.1	2,663.3	2,662.0	5.9	5.7	-132.41	-67.6	-54.0	105.1	105.1	0.00	N/A			
2,700.0	2,698.3	2,686.4	2,684.9	6.0	5.8	-132.72	-69.3	-56.8	110.4	110.4	0.00	N/A			
2,800.0	2,797.2	2,780.4	2,777.6	6.2	6.0	-133.22	-77.3	-70.0	133.6	133.6	0.00	N/A			
2,900.0	2,896.2	2,873.2	2,868.5	6.5	6.2	-132.92	-86.8	-85.6	159.5	159.5	0.00	N/A			
3,000.0	2,995.1	2,968.7	2,961.7	6.7	6.5	-132.33	-97.5	-103.4	187.0	187.0	0.00	N/A			
3,100.0	3,094.1	3,064.8	3,055.6	7.0	6.8	-131.89	-108.2	-121.2	214.5	214.5	0.00	N/A			
3,200.0	3,193.0	3,160.9	3,149.4	7.3	7.1	-131.54	-119.0	-139.0	242.0	242.0	0.00	N/A			
3,300.0	3,292.0	3,257.1	3,243.3	7.6	7.5	-131.27	-129.8	-156.9	269.5	269.5	0.00	N/A			
3,400.0	3,390.9	3,353.2	3,337.1	7.8	7.8	-131.05	-140.6	-174.7	297.1	297.1	0.00	N/A			
3,500.0	3,489.9	3,449.3	3,430.9	8.1	8.1	-130.86	-151.4	-192.6	324.6	324.6	0.00	N/A			
3,600.0	3,588.8	3,545.5	3,524.8	8.4	8.5	-130.71	-162.2	-210.4	352.1	352.1	0.00	N/A			
3,700.0	3,687.8	3,641.6	3,618.6	8.7	8.9	-130.57	-172.9	-228.3	379.7	379.7	0.00	N/A			
3,800.0	3,786.7	3,737.7	3,712.5	9.0	9.3	-130.46	-183.7	-246.1	407.2	407.2	0.00	N/A			
3,900.0	3,885.7	3,833.8	3,806.3	9.3	9.6	-130.36	-194.5	-264.0	434.8	434.8	0.00	N/A			
4,000.0	3,984.6	3,930.0	3,900.1	9.7	10.0	-130.27	-205.3	-281.8	462.3	462.3	0.00	N/A			
4,100.0	4,083.6	4,026.1	3,994.0	10.0	10.4	-130.19	-216.1	-299.7	489.9	489.9	0.00	N/A			
4,200.0	4,182.5	4,122.2	4,087.8	10.3	10.8	-130.12	-226.9	-317.5	517.4	517.4	0.00	N/A			
4,300.0	4,281.5	4,218.4	4,181.7	10.6	11.2	-130.06	-237.7	-335.4	545.0	545.0	0.00	N/A			
4,400.0	4,380.4	4,314.5	4,275.5	10.9	11.6	-130.00	-248.4	-353.2	572.5	572.5	0.00	N/A			
4,500.0	4,479.4	4,410.6	4,369.3	11.2	12.0	-129.95	-259.2	-371.1	600.1	600.1	0.00	N/A			
4,600.0	4,578.3	4,506.7	4,463.2	11.6	12.5	-129.90	-270.0	-388.9	627.6	627.6	0.00	N/A			
4,700.0	4,677.3	4,602.9	4,557.0	11.9	12.9	-129.86	-280.8	-406.8	655.2	655.2	0.00	N/A			
4,800.0	4,776.2	4,699.0	4,650.9	12.2	13.3	-129.82	-291.6	-424.6	682.7	682.7	0.00	N/A			
4,900.0	4,875.2	4,795.1	4,744.7	12.5	13.7	-129.78	-302.4	-442.5	710.3	710.3	0.00	N/A			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Company: STEWART PETROLEUM CORPORATION
 Project: UINTAH COUNTY, UT
 Reference Site: TUMBLEWEED #18-9 PAD
 Site Error: 0.0ft
 Reference Well: TUMBLEWEED #18-8
 Well Error: 0.0ft
 Reference Wellbore: TUMBLEWEED #18-8
 Reference Design: Design #1

Local Co-ordinate Reference: Well TUMBLEWEED #18-8
 TVD Reference: WELL @ 7240.0ft (Original Well Elev)
 MD Reference: WELL @ 7240.0ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 2003.21 Single User Db
 Offset TVD Reference: Offset Datum

Offset Design TUMBLEWEED #18-9 PAD - TUMBLEWEED #18-9 - TUMBLEWEED #18-9 - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD, 10370-													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.0	4,974.1	4,891.3	4,838.5	12.9	14.1	-129.75	-313.1	-460.3	737.8	737.8	0.00	N/A		
5,100.0	5,073.1	4,987.4	4,932.4	13.2	14.6	-129.71	-323.9	-478.2	765.4	765.4	0.00	N/A		
5,200.0	5,172.0	5,083.5	5,026.2	13.5	15.0	-129.69	-334.7	-496.0	792.9	792.9	0.00	N/A		
5,300.0	5,271.0	5,179.6	5,120.0	13.8	15.4	-129.66	-345.5	-513.9	820.5	820.5	0.00	N/A		
5,400.0	5,369.9	5,275.8	5,213.9	14.2	15.9	-129.63	-356.3	-531.7	848.0	848.0	0.00	N/A		
5,500.0	5,468.9	5,371.9	5,307.7	14.5	16.3	-129.61	-367.1	-549.6	875.6	875.6	0.00	N/A		
5,600.0	5,567.8	5,468.0	5,401.6	14.8	16.7	-129.59	-377.8	-567.4	903.2	903.2	0.00	N/A		
5,700.0	5,666.8	5,564.2	5,495.4	15.2	17.2	-129.56	-388.6	-585.3	930.7	930.7	0.00	N/A		
5,800.0	5,765.7	5,660.3	5,589.2	15.5	17.6	-129.54	-399.4	-603.1	958.3	958.3	0.00	N/A		
5,900.0	5,864.7	5,756.4	5,683.1	15.8	18.0	-129.53	-410.2	-621.0	985.8	985.8	0.00	N/A		
6,000.0	5,963.6	5,852.5	5,776.9	16.2	18.5	-129.51	-421.0	-638.8	1,013.4	1,013.4	0.00	N/A		
6,100.0	6,062.6	5,948.7	5,870.8	16.5	18.9	-129.49	-431.8	-656.7	1,040.9	1,040.9	0.00	N/A		
6,200.0	6,161.5	6,044.8	5,964.6	16.8	19.4	-129.48	-442.5	-674.5	1,068.5	1,068.5	0.00	N/A		
6,300.0	6,260.5	6,140.9	6,058.4	17.2	19.8	-129.46	-453.3	-692.4	1,096.0	1,096.0	0.00	N/A		
6,400.0	6,359.4	6,237.1	6,152.3	17.5	20.2	-129.45	-464.1	-710.2	1,123.6	1,123.6	0.00	N/A		
6,500.0	6,458.4	6,333.2	6,246.1	17.8	20.7	-129.43	-474.9	-728.1	1,151.1	1,151.1	0.00	N/A		
6,600.0	6,557.3	6,429.3	6,340.0	18.2	21.1	-129.42	-485.7	-745.9	1,178.7	1,178.7	0.00	N/A		
6,700.0	6,656.3	6,525.4	6,433.8	18.5	21.6	-129.41	-496.5	-763.8	1,206.2	1,206.2	0.00	N/A		
6,800.0	6,755.2	6,621.6	6,527.6	18.8	22.0	-129.39	-507.2	-781.6	1,233.8	1,233.8	0.00	N/A		
6,900.0	6,854.2	6,717.7	6,621.5	19.2	22.4	-129.38	-518.0	-799.5	1,261.4	1,261.4	0.00	N/A		
7,000.0	6,953.1	6,813.8	6,715.3	19.5	22.9	-129.37	-528.8	-817.3	1,288.9	1,288.9	0.00	N/A		
7,100.0	7,052.1	6,910.0	6,809.2	19.9	23.3	-129.36	-539.6	-835.1	1,316.5	1,316.5	0.00	N/A		
7,200.0	7,151.0	7,006.1	6,903.0	20.2	23.8	-129.35	-550.4	-853.0	1,344.0	1,344.0	0.00	N/A		
7,300.0	7,250.0	7,102.2	6,996.8	20.5	24.2	-129.34	-561.2	-870.8	1,371.6	1,371.6	0.00	N/A		
7,400.0	7,348.9	7,198.3	7,090.7	20.9	24.7	-129.33	-572.0	-888.7	1,399.1	1,399.1	0.00	N/A		
7,500.0	7,447.9	7,294.5	7,184.5	21.2	25.1	-129.32	-582.7	-906.5	1,426.7	1,426.7	0.00	N/A		
7,600.0	7,546.8	7,390.6	7,278.4	21.6	25.6	-129.31	-593.5	-924.4	1,454.2	1,454.2	0.00	N/A		
7,700.0	7,645.8	7,486.7	7,372.2	21.9	26.0	-129.31	-604.3	-942.2	1,481.8	1,481.8	0.00	N/A		
7,800.0	7,744.7	7,582.9	7,466.0	22.2	26.5	-129.30	-615.1	-960.1	1,509.3	1,509.3	0.00	N/A		
7,900.0	7,843.7	7,679.0	7,559.9	22.6	26.9	-129.29	-625.9	-977.9	1,536.9	1,536.9	0.00	N/A		
8,000.0	7,942.6	7,775.1	7,653.7	22.9	27.4	-129.28	-636.7	-995.8	1,564.5	1,564.5	0.00	N/A		
8,100.0	8,041.6	7,871.2	7,747.6	23.3	27.8	-129.28	-647.4	-1,013.6	1,592.0	1,592.0	0.00	N/A		
8,200.0	8,140.5	7,967.4	7,841.4	23.6	28.3	-129.27	-658.2	-1,031.5	1,619.6	1,619.6	0.00	N/A		
8,300.0	8,239.5	8,063.5	7,935.2	23.9	28.7	-129.26	-669.0	-1,049.3	1,647.1	1,647.1	0.00	N/A		
8,400.0	8,338.4	8,159.6	8,029.1	24.3	29.1	-129.26	-679.8	-1,067.2	1,674.7	1,674.7	0.00	N/A		
8,500.0	8,437.4	8,255.8	8,122.9	24.6	29.6	-129.25	-690.6	-1,085.0	1,702.2	1,702.2	0.00	N/A		
8,600.0	8,536.3	8,351.9	8,216.7	25.0	30.0	-129.24	-701.4	-1,102.9	1,729.8	1,729.8	0.00	N/A		
8,700.0	8,635.3	8,448.0	8,310.6	25.3	30.5	-129.24	-712.2	-1,120.7	1,757.3	1,757.3	0.00	N/A		
8,800.0	8,734.2	8,544.1	8,404.4	25.6	30.9	-129.23	-722.9	-1,138.6	1,784.9	1,784.9	0.00	N/A		
8,900.0	8,833.2	8,640.3	8,498.3	26.0	31.4	-129.23	-733.7	-1,156.4	1,812.4	1,812.4	0.00	N/A		
9,000.0	8,932.1	8,736.4	8,592.1	26.3	31.8	-129.22	-744.5	-1,174.3	1,840.0	1,840.0	0.00	N/A		
9,100.0	9,031.1	8,832.5	8,685.9	26.7	32.3	-129.22	-755.3	-1,192.1	1,867.6	1,867.6	0.00	N/A		
9,200.0	9,130.0	8,928.7	8,779.8	27.0	32.7	-129.21	-766.1	-1,210.0	1,895.1	1,895.1	0.00	N/A		
9,300.0	9,229.0	9,024.8	8,873.6	27.3	33.2	-129.21	-776.8	-1,227.8	1,922.7	1,922.7	0.00	N/A		
9,382.7	9,310.8	9,104.3	8,951.3	27.6	33.6	-129.20	-785.8	-1,242.6	1,945.5	1,945.5	0.00	N/A		
9,400.0	9,327.9	9,120.9	8,967.5	27.7	33.6	-129.26	-787.6	-1,245.7	1,950.2	1,950.2	0.00	N/A		
9,500.0	9,427.1	9,217.3	9,061.6	27.9	34.1	-129.53	-798.4	-1,263.6	1,976.7	1,976.7	0.00	N/A		
9,600.0	9,526.6	9,329.6	9,171.2	28.2	34.6	-129.70	-811.0	-1,284.3	2,001.5	2,001.5	0.00	N/A		
9,700.0	9,626.3	9,507.3	9,345.8	28.4	35.1	-129.74	-828.0	-1,312.5	2,022.1	2,022.1	0.00	N/A		
9,800.0	9,726.2	9,688.3	9,525.1	28.6	35.6	-129.74	-841.0	-1,334.0	2,037.0	2,037.0	0.00	N/A		
9,900.0	9,826.1	9,871.7	9,707.7	28.7	36.0	-129.69	-849.7	-1,348.4	2,046.3	2,046.3	0.00	N/A		
9,936.9	9,863.0	9,939.7	9,775.6	28.8	36.1	-152.28	-851.7	-1,351.8	2,048.3	2,048.3	0.00	N/A		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company: STEWART PETROLEUM CORPORATION
Project: UINTAH COUNTY, UT
Reference Site: TUMBLEWEED #18-9 PAD
Site Error: 0.0ft
Reference Well: TUMBLEWEED #18-8
Well Error: 0.0ft
Reference Wellbore: TUMBLEWEED #18-8
Reference Design: Design #1

Local Co-ordinate Reference: Well TUMBLEWEED #18-8
TVD Reference: WELL @ 7240.0ft (Original Well Elev)
MD Reference: WELL @ 7240.0ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 2003.21 Single User Db
Offset TVD Reference: Offset Datum

Offset Design TUMBLEWEED #18-9 PAD - TUMBLEWEED #18-9 - TUMBLEWEED #18-9 - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD, 10370-													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,000.0	9,926.1	10,056.5	9,892.2	28.9	36.3	-152.22	-853.8	-1,355.2	2,050.2	2,050.2	0.00	N/A		
10,100.0	10,026.1	10,190.4	10,026.1	29.0	36.5	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
10,200.0	10,126.1	10,290.4	10,126.1	29.2	36.6	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
10,300.0	10,226.1	10,390.4	10,226.1	29.4	36.7	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
10,400.0	10,326.1	10,490.4	10,326.1	29.5	36.8	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
10,500.0	10,426.1	10,590.4	10,426.1	29.7	36.9	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
10,600.0	10,526.1	10,690.4	10,526.1	29.9	37.1	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
10,700.0	10,626.1	10,790.4	10,626.1	30.0	37.2	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
10,800.0	10,726.1	10,890.4	10,726.1	30.2	37.3	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
10,900.0	10,826.1	10,990.4	10,826.1	30.4	37.4	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
11,000.0	10,926.1	11,090.4	10,926.1	30.6	37.6	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
11,100.0	11,026.1	11,190.4	11,026.1	30.7	37.7	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
11,200.0	11,126.1	11,290.4	11,126.1	30.9	37.8	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
11,300.0	11,226.1	11,390.4	11,226.1	31.1	38.0	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
11,400.0	11,326.1	11,490.4	11,326.1	31.3	38.1	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
11,500.0	11,426.1	11,590.4	11,426.1	31.4	38.2	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
11,600.0	11,526.1	11,690.4	11,526.1	31.6	38.4	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
11,700.0	11,626.1	11,790.4	11,626.1	31.8	38.5	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
11,800.0	11,726.1	11,890.4	11,726.1	32.0	38.6	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
11,900.0	11,826.1	11,990.4	11,826.1	32.1	38.8	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
12,000.0	11,926.1	12,090.4	11,926.1	32.3	38.9	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		
12,073.9	12,000.0	12,164.2	12,000.0	32.5	39.0	-152.21	-854.2	-1,355.8	2,050.5	2,050.5	0.00	N/A		

Company: STEWART PETROLEUM CORPORATION
 Project: UINTAH COUNTY, UT
 Reference Site: TUMBLEWEED #18-9 PAD
 Site Error: 0.0ft
 Reference Well: TUMBLEWEED #18-8
 Well Error: 0.0ft
 Reference Wellbore: TUMBLEWEED #18-8
 Reference Design: Design #1

Local Co-ordinate Reference: Well TUMBLEWEED #18-8
 TVD Reference: WELL @ 7240.0ft (Original Well Elev)
 MD Reference: WELL @ 7240.0ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM 2003.21 Single User Db
 Offset TVD Reference: Offset Datum

Offset Design TUMBLEWEED #18-9 PAD - TUMBLEWEED #19-1 - TUMBLEWEED #19-1 - Design #1														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (ft)	+EJ-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-155.59	-90.9	-41.2	99.8						
100.0	100.0	100.0	100.0	0.1	0.1	-155.59	-90.9	-41.2	99.8	99.8	0.00	N/A			
200.0	200.0	200.0	200.0	0.3	0.3	-155.59	-90.9	-41.2	99.8	99.8	0.00	N/A			
233.4	233.4	233.4	233.4	0.4	0.4	-155.59	-90.9	-41.2	99.8	99.8	0.00	N/A	CC, ES		
300.0	300.0	298.5	298.5	0.5	0.5	-155.69	-91.3	-41.2	100.2	100.2	0.00	N/A			
400.0	400.0	395.3	395.2	0.8	0.7	-156.47	-94.6	-41.2	103.2	103.2	0.00	N/A			
500.0	500.0	491.8	491.5	1.0	0.9	-157.91	-101.1	-41.0	109.4	109.4	0.00	N/A			
600.0	600.0	591.1	590.5	1.2	1.2	-159.58	-109.7	-40.8	117.5	117.5	0.00	N/A			
700.0	700.0	690.8	689.7	1.4	1.4	-161.05	-118.4	-40.7	125.6	125.6	0.00	N/A			
800.0	800.0	790.4	789.0	1.7	1.7	-162.33	-127.1	-40.5	133.8	133.8	0.00	N/A			
900.0	900.0	890.0	888.2	1.9	2.0	-163.47	-135.8	-40.3	142.1	142.1	0.00	N/A			
1,000.0	1,000.0	989.6	987.4	2.1	2.2	-164.48	-144.4	-40.1	150.4	150.4	0.00	N/A			
1,100.0	1,100.0	1,089.2	1,086.7	2.3	2.5	-165.39	-153.1	-39.9	158.8	158.8	0.00	N/A			
1,200.0	1,200.0	1,188.9	1,185.9	2.6	2.8	-166.20	-161.8	-39.7	167.2	167.2	0.00	N/A			
1,300.0	1,300.0	1,288.5	1,285.2	2.8	3.1	-166.94	-170.5	-39.6	175.6	175.6	0.00	N/A			
1,400.0	1,400.0	1,388.1	1,384.4	3.0	3.3	-167.61	-179.2	-39.4	184.1	184.1	0.00	N/A			
1,500.0	1,500.0	1,487.7	1,483.6	3.2	3.6	-168.22	-187.8	-39.2	192.6	192.6	0.00	N/A			
1,600.0	1,600.0	1,587.3	1,582.9	3.5	3.9	-168.78	-196.5	-39.0	201.1	201.1	0.00	N/A			
1,700.0	1,700.0	1,687.0	1,682.1	3.7	4.2	-169.29	-205.2	-38.8	209.6	209.6	0.00	N/A			
1,800.0	1,800.0	1,786.6	1,781.4	3.9	4.5	-169.76	-213.9	-38.6	218.1	218.1	0.00	N/A			
1,900.0	1,900.0	1,886.2	1,880.6	4.1	4.7	-170.20	-222.6	-38.4	226.7	226.7	0.00	N/A			
2,000.0	2,000.0	1,985.8	1,979.8	4.4	5.0	-170.61	-231.2	-38.3	235.2	235.2	0.00	N/A			
2,100.0	2,100.0	2,085.4	2,079.1	4.6	5.3	-170.98	-239.9	-38.1	243.8	243.8	0.00	N/A			
2,200.0	2,200.0	2,185.1	2,178.3	4.8	5.6	-171.33	-248.6	-37.9	252.4	252.4	0.00	N/A			
2,260.0	2,260.0	2,244.8	2,237.9	5.0	5.7	-171.53	-253.8	-37.8	257.6	257.6	0.00	N/A			
2,300.0	2,300.0	2,283.2	2,276.1	5.0	5.9	-149.03	-257.2	-37.7	261.3	261.3	0.00	N/A			
2,400.0	2,399.9	2,373.9	2,366.2	5.3	6.1	-149.55	-267.0	-37.5	274.7	274.7	0.00	N/A			
2,500.0	2,499.7	2,463.0	2,454.5	5.5	6.4	-150.33	-279.5	-37.2	294.2	294.2	0.00	N/A			
2,600.0	2,599.2	2,550.2	2,540.4	5.7	6.8	-151.28	-294.3	-36.9	319.7	319.7	0.00	N/A			
2,675.6	2,674.1	2,614.5	2,603.4	5.9	7.0	-152.03	-306.9	-36.6	343.0	343.0	0.00	N/A			
2,700.0	2,698.3	2,634.9	2,623.4	6.0	7.1	-152.34	-311.2	-36.6	351.1	351.1	0.00	N/A			
2,800.0	2,797.2	2,717.6	2,703.9	6.2	7.4	-153.52	-330.1	-36.2	386.3	386.3	0.00	N/A			
2,900.0	2,896.2	2,809.5	2,793.1	6.5	7.9	-154.63	-352.5	-35.7	423.1	423.1	0.00	N/A			
3,000.0	2,995.1	2,902.2	2,883.0	6.7	8.3	-155.57	-375.1	-35.2	460.1	460.1	0.00	N/A			
3,100.0	3,094.1	2,994.9	2,972.8	7.0	8.7	-156.38	-397.7	-34.7	497.1	497.1	0.00	N/A			
3,200.0	3,193.0	3,087.6	3,062.7	7.3	9.2	-157.07	-420.3	-34.2	534.2	534.2	0.00	N/A			
3,300.0	3,292.0	3,180.3	3,152.6	7.6	9.6	-157.67	-442.9	-33.8	571.4	571.4	0.00	N/A			
3,400.0	3,390.9	3,272.9	3,242.5	7.8	10.1	-158.20	-465.5	-33.3	608.6	608.6	0.00	N/A			
3,500.0	3,489.9	3,365.6	3,332.3	8.1	10.5	-158.67	-488.1	-32.8	645.9	645.9	0.00	N/A			
3,600.0	3,588.8	3,458.3	3,422.2	8.4	11.0	-159.09	-510.7	-32.3	683.2	683.2	0.00	N/A			
3,700.0	3,687.8	3,551.0	3,512.1	8.7	11.4	-159.46	-533.3	-31.8	720.5	720.5	0.00	N/A			
3,800.0	3,786.7	3,643.6	3,602.0	9.0	11.9	-159.80	-555.9	-31.4	757.8	757.8	0.00	N/A			
3,900.0	3,885.7	3,736.3	3,691.9	9.3	12.3	-160.10	-578.5	-30.9	795.2	795.2	0.00	N/A			
4,000.0	3,984.6	3,829.0	3,781.7	9.7	12.8	-160.38	-601.1	-30.4	832.6	832.6	0.00	N/A			
4,100.0	4,083.6	3,921.7	3,871.6	10.0	13.3	-160.64	-623.7	-29.9	870.0	870.0	0.00	N/A			
4,200.0	4,182.5	4,014.3	3,961.5	10.3	13.7	-160.87	-646.3	-29.4	907.4	907.4	0.00	N/A			
4,300.0	4,281.5	4,107.0	4,051.4	10.6	14.2	-161.09	-668.9	-29.0	944.8	944.8	0.00	N/A			
4,400.0	4,380.4	4,199.7	4,141.2	10.9	14.6	-161.28	-691.5	-28.5	982.3	982.3	0.00	N/A			
4,500.0	4,479.4	4,292.4	4,231.1	11.2	15.1	-161.47	-714.1	-28.0	1,019.7	1,019.7	0.00	N/A			
4,600.0	4,578.3	4,385.1	4,321.0	11.6	15.6	-161.64	-736.7	-27.5	1,057.2	1,057.2	0.00	N/A			
4,700.0	4,677.3	4,477.7	4,410.9	11.9	16.0	-161.80	-759.3	-27.0	1,094.6	1,094.6	0.00	N/A			
4,800.0	4,776.2	4,570.4	4,500.7	12.2	16.5	-161.95	-781.9	-26.6	1,132.1	1,132.1	0.00	N/A			

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Company: STEWART PETROLEUM CORPORATION
Project: UINTAH COUNTY, UT
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Reference Wellbore: TUMBLEWEED #18-8
Reference Design: Design #1

Local Co-ordinate Reference: Well TUMBLEWEED #18-8
TVD Reference: WELL @ 7240.0ft (Original Well Elev)
MD Reference: WELL @ 7240.0ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 2003.21 Single User Db
Offset TVD Reference: Offset Datum

Offset Design TUMBLEWEED #18-9 PAD - TUMBLEWEED #19-1 - TUMBLEWEED #19-1 - Design #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.0	4,875.2	4,663.1	4,590.6	12.5	17.0	-162.09	-804.5	-26.1	1,169.6	1,169.6	0.00	N/A		
5,000.0	4,974.1	4,755.8	4,680.5	12.9	17.4	-162.22	-827.2	-25.6	1,207.0	1,207.0	0.00	N/A		
5,100.0	5,073.1	4,848.4	4,770.4	13.2	17.9	-162.34	-849.8	-25.1	1,244.5	1,244.5	0.00	N/A		
5,200.0	5,172.0	4,941.1	4,860.2	13.5	18.4	-162.46	-872.4	-24.6	1,282.0	1,282.0	0.00	N/A		
5,300.0	5,271.0	5,033.8	4,950.1	13.8	18.8	-162.57	-895.0	-24.2	1,319.5	1,319.5	0.00	N/A		
5,400.0	5,369.9	5,126.5	5,040.0	14.2	19.3	-162.67	-917.6	-23.7	1,357.0	1,357.0	0.00	N/A		
5,500.0	5,468.9	5,219.1	5,129.9	14.5	19.8	-162.77	-940.2	-23.2	1,394.5	1,394.5	0.00	N/A		
5,600.0	5,567.8	5,311.8	5,219.8	14.8	20.2	-162.86	-962.8	-22.7	1,432.0	1,432.0	0.00	N/A		
5,700.0	5,666.8	5,404.5	5,309.6	15.2	20.7	-162.95	-985.4	-22.2	1,469.5	1,469.5	0.00	N/A		
5,800.0	5,765.7	5,497.2	5,399.5	15.5	21.2	-163.03	-1,008.0	-21.8	1,507.0	1,507.0	0.00	N/A		
5,900.0	5,864.7	5,589.8	5,489.4	15.8	21.7	-163.11	-1,030.6	-21.3	1,544.5	1,544.5	0.00	N/A		
6,000.0	5,963.6	5,682.5	5,579.3	16.2	22.1	-163.18	-1,053.2	-20.8	1,582.1	1,582.1	0.00	N/A		
6,100.0	6,062.6	5,775.2	5,669.1	16.5	22.6	-163.26	-1,075.8	-20.3	1,619.6	1,619.6	0.00	N/A		
6,200.0	6,161.5	5,867.9	5,759.0	16.8	23.1	-163.32	-1,098.4	-19.9	1,657.1	1,657.1	0.00	N/A		
6,300.0	6,260.5	5,960.6	5,848.9	17.2	23.5	-163.39	-1,121.0	-19.4	1,694.6	1,694.6	0.00	N/A		
6,400.0	6,359.4	6,053.2	5,938.8	17.5	24.0	-163.45	-1,143.6	-18.9	1,732.1	1,732.1	0.00	N/A		
6,500.0	6,458.4	6,145.9	6,028.6	17.8	24.5	-163.51	-1,166.2	-18.4	1,769.7	1,769.7	0.00	N/A		
6,600.0	6,557.3	6,238.6	6,118.5	18.2	24.9	-163.57	-1,188.8	-17.9	1,807.2	1,807.2	0.00	N/A		
6,700.0	6,656.3	6,331.3	6,208.4	18.5	25.4	-163.63	-1,211.4	-17.5	1,844.7	1,844.7	0.00	N/A		
6,800.0	6,755.2	6,423.9	6,298.3	18.8	25.9	-163.68	-1,234.0	-17.0	1,882.3	1,882.3	0.00	N/A		
6,900.0	6,854.2	6,516.6	6,388.2	19.2	26.4	-163.73	-1,256.6	-16.5	1,919.8	1,919.8	0.00	N/A		
7,000.0	6,953.1	6,609.3	6,478.0	19.5	26.8	-163.78	-1,279.2	-16.0	1,957.3	1,957.3	0.00	N/A		
7,100.0	7,052.1	6,702.0	6,567.9	19.9	27.3	-163.83	-1,301.8	-15.5	1,994.8	1,994.8	0.00	N/A		
7,200.0	7,151.0	6,794.6	6,657.8	20.2	27.8	-163.87	-1,324.4	-15.1	2,032.4	2,032.4	0.00	N/A		
7,300.0	7,250.0	6,887.3	6,747.7	20.5	28.2	-163.92	-1,347.0	-14.6	2,069.9	2,069.9	0.00	N/A		
7,400.0	7,348.9	6,980.0	6,837.5	20.9	28.7	-163.96	-1,369.6	-14.1	2,107.5	2,107.5	0.00	N/A		
7,500.0	7,447.9	7,072.7	6,927.4	21.2	29.2	-164.00	-1,392.2	-13.6	2,145.0	2,145.0	0.00	N/A		
7,600.0	7,546.8	7,165.4	7,017.3	21.6	29.7	-164.04	-1,414.8	-13.1	2,182.5	2,182.5	0.00	N/A		
7,700.0	7,645.8	7,258.0	7,107.2	21.9	30.1	-164.08	-1,437.4	-12.7	2,220.1	2,220.1	0.00	N/A		
7,800.0	7,744.7	7,350.7	7,197.0	22.2	30.6	-164.11	-1,460.0	-12.2	2,257.6	2,257.6	0.00	N/A		
7,900.0	7,843.7	7,443.4	7,286.9	22.6	31.1	-164.15	-1,482.7	-11.7	2,295.1	2,295.1	0.00	N/A		
8,000.0	7,942.6	7,536.1	7,376.8	22.9	31.5	-164.18	-1,505.3	-11.2	2,332.7	2,332.7	0.00	N/A		
8,100.0	8,041.6	7,628.7	7,466.7	23.3	32.0	-164.22	-1,527.9	-10.7	2,370.2	2,370.2	0.00	N/A		
8,200.0	8,140.5	7,721.4	7,556.5	23.6	32.5	-164.25	-1,550.5	-10.3	2,407.8	2,407.8	0.00	N/A		
8,300.0	8,239.5	7,814.1	7,646.4	23.9	33.0	-164.28	-1,573.1	-9.8	2,445.3	2,445.3	0.00	N/A		
8,400.0	8,338.4	7,906.8	7,736.3	24.3	33.4	-164.31	-1,595.7	-9.3	2,482.9	2,482.9	0.00	N/A		
8,500.0	8,437.4	7,999.4	7,826.2	24.6	33.9	-164.34	-1,618.3	-8.8	2,520.4	2,520.4	0.00	N/A		
8,600.0	8,536.3	8,092.1	7,916.1	25.0	34.4	-164.37	-1,640.9	-8.3	2,558.0	2,558.0	0.00	N/A		
8,700.0	8,635.3	8,184.8	8,005.9	25.3	34.9	-164.40	-1,663.5	-7.9	2,595.5	2,595.5	0.00	N/A		
8,800.0	8,734.2	8,277.5	8,095.8	25.6	35.3	-164.42	-1,686.1	-7.4	2,633.0	2,633.0	0.00	N/A		
8,900.0	8,833.2	8,370.1	8,185.7	26.0	35.8	-164.45	-1,708.7	-6.9	2,670.6	2,670.6	0.00	N/A		
9,000.0	8,932.1	8,462.8	8,275.6	26.3	36.3	-164.48	-1,731.3	-6.4	2,708.1	2,708.1	0.00	N/A		
9,100.0	9,031.1	8,555.5	8,365.4	26.7	36.8	-164.50	-1,753.9	-5.9	2,745.7	2,745.7	0.00	N/A		
9,200.0	9,130.0	8,648.2	8,455.3	27.0	37.2	-164.53	-1,776.5	-5.5	2,783.2	2,783.2	0.00	N/A		
9,300.0	9,229.0	8,740.9	8,545.2	27.3	37.7	-164.55	-1,799.1	-5.0	2,820.8	2,820.8	0.00	N/A		
9,382.7	9,310.8	8,817.5	8,619.5	27.6	38.1	-164.57	-1,817.8	-4.6	2,851.8	2,851.8	0.00	N/A		
9,400.0	9,327.9	8,833.5	8,635.1	27.7	38.2	-164.60	-1,821.7	-4.5	2,858.3	2,858.3	0.00	N/A		
9,500.0	9,427.1	8,926.8	8,725.6	27.9	38.6	-164.76	-1,844.5	-4.0	2,894.3	2,894.3	0.00	N/A		
9,600.0	9,526.6	9,021.0	8,816.9	28.2	39.1	-164.90	-1,867.4	-3.5	2,927.9	2,927.9	0.00	N/A		
9,700.0	9,626.3	9,117.9	8,907.0	28.4	39.8	-165.00	-1,907.0	-2.7	2,958.8	2,958.8	0.00	N/A		
9,800.0	9,726.2	9,217.7	9,002.7	28.6	41.0	-165.03	-1,977.9	-1.2	2,979.9	2,979.9	0.00	N/A		
9,900.0	9,826.1	10,042.0	9,826.1	28.7	41.6	-165.06	-2,000.7	-0.7	2,987.2	2,987.2	0.00	N/A		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

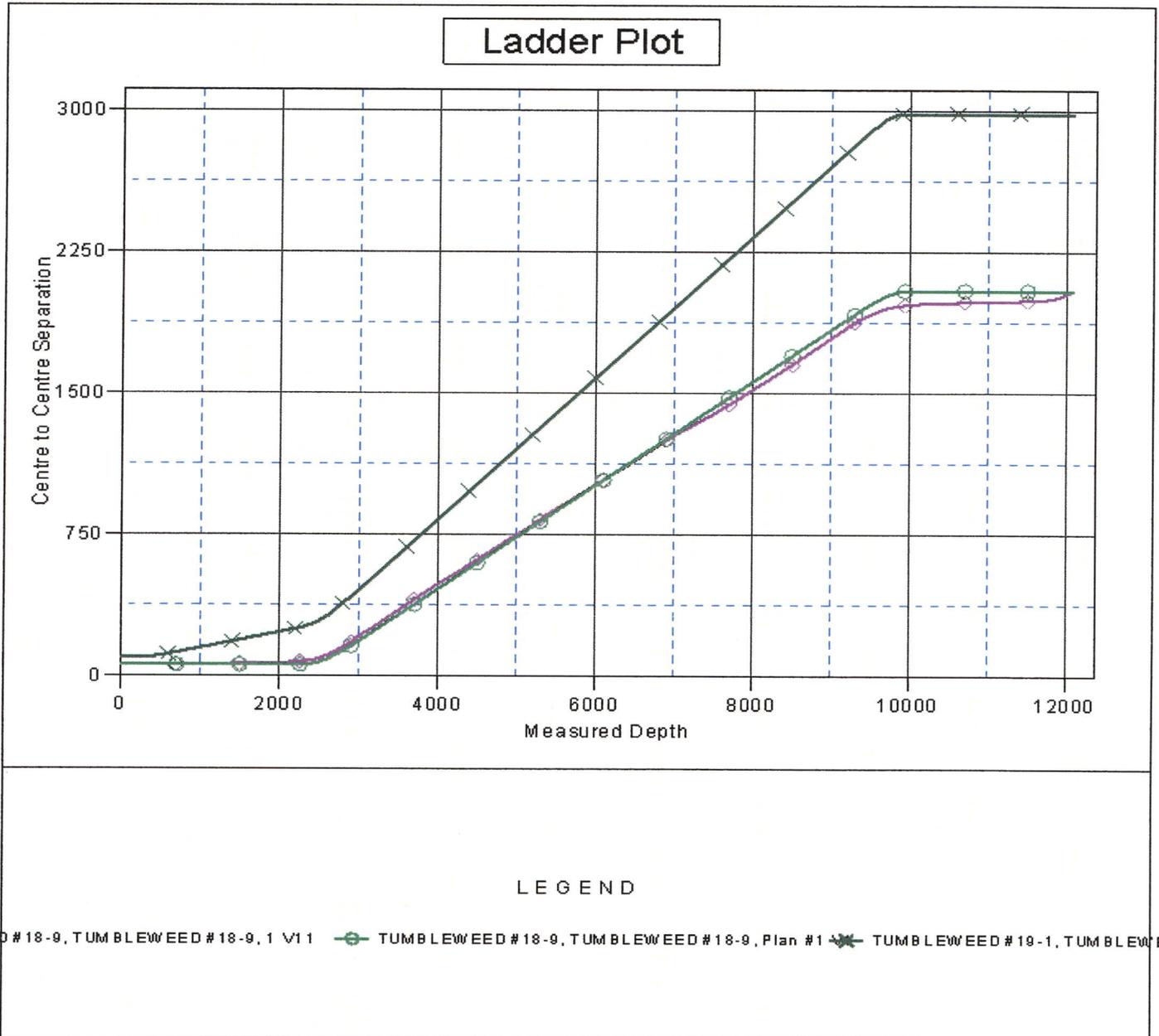
Company: STEWART PETROLEUM CORPORATION
Project: UINTAH COUNTY, UT
Reference Site: TUMBLEWEED #18-9 PAD
Site Error: 0.0ft
Reference Well: TUMBLEWEED #18-8
Well Error: 0.0ft
Reference Wellbore: TUMBLEWEED #18-8
Reference Design: Design #1

Local Co-ordinate Reference: Well TUMBLEWEED #18-8
TVD Reference: WELL @ 7240.0ft (Original Well Elev)
MD Reference: WELL @ 7240.0ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 2003.21 Single User Db
Offset TVD Reference: Offset Datum

Offset Design TUMBLEWEED #18-9 PAD - TUMBLEWEED #19-1 - TUMBLEWEED #19-1 - Design #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,936.9	9,863.0	10,078.8	9,863.0	28.8	41.7	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
10,000.0	9,926.1	10,142.0	9,926.1	28.9	41.7	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
10,100.0	10,026.1	10,242.0	10,026.1	29.0	41.8	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
10,200.0	10,126.1	10,342.0	10,126.1	29.2	41.9	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
10,300.0	10,226.1	10,442.0	10,226.1	29.4	42.0	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
10,400.0	10,326.1	10,542.0	10,326.1	29.5	42.1	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
10,500.0	10,426.1	10,642.0	10,426.1	29.7	42.2	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
10,600.0	10,526.1	10,742.0	10,526.1	29.9	42.3	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
10,700.0	10,626.1	10,842.0	10,626.1	30.0	42.4	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
10,800.0	10,726.1	10,942.0	10,726.1	30.2	42.4	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
10,900.0	10,826.1	11,042.0	10,826.1	30.4	42.5	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
11,000.0	10,926.1	11,142.0	10,926.1	30.6	42.6	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
11,100.0	11,026.1	11,242.0	11,026.1	30.7	42.7	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
11,200.0	11,126.1	11,342.0	11,126.1	30.9	42.8	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
11,300.0	11,226.1	11,442.0	11,226.1	31.1	42.9	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
11,400.0	11,326.1	11,542.0	11,326.1	31.3	43.0	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
11,500.0	11,426.1	11,642.0	11,426.1	31.4	43.1	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
11,600.0	11,526.1	11,742.0	11,526.1	31.6	43.2	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
11,700.0	11,626.1	11,842.0	11,626.1	31.8	43.3	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
11,800.0	11,726.1	11,942.0	11,726.1	32.0	43.4	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
11,900.0	11,826.1	12,042.0	11,826.1	32.1	43.5	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
12,000.0	11,926.1	12,142.0	11,926.1	32.3	43.6	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		
12,073.9	12,000.0	12,215.8	12,000.0	32.5	43.7	172.32	-2,000.7	-0.7	2,987.4	2,987.4	0.00	N/A		

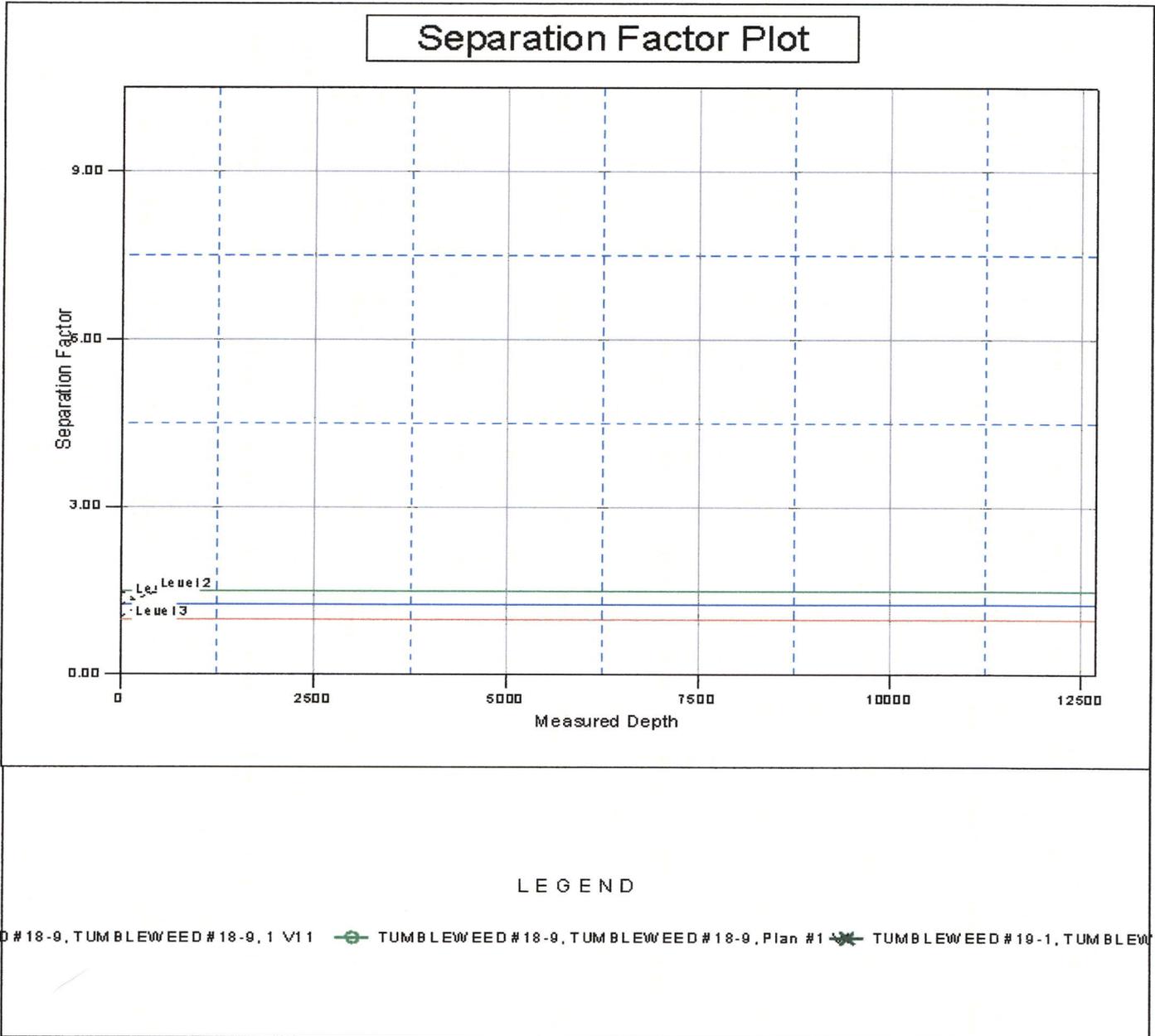
Company:	STEWART PETROLEUM CORPORATION	Local Co-ordinate Reference:	Well TUMBLEWEED #18-8
Project:	UINTAH COUNTY, UT	TVD Reference:	WELL @ 7240.0ft (Original Well Elev)
Reference Site:	TUMBLEWEED #18-9 PAD	MD Reference:	WELL @ 7240.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	Grid
Reference Well:	TUMBLEWEED #18-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	TUMBLEWEED #18-8	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

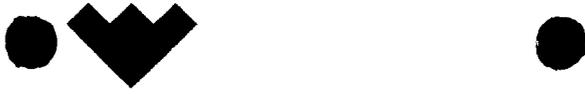
Reference Depths are relative to WELL @ 7240.0ft (Original Well Elev) Coordinates are relative to: TUMBLEWEED #18-8
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302
 Central Meridian is 111° 30' 0.000 W ° Grid Convergence at Surface is: 1.22°



Company:	STEWART PETROLEUM CORPORATION	Local Co-ordinate Reference:	Well TUMBLEWEED #18-8
Project:	UINTAH COUNTY, UT	TVD Reference:	WELL @ 7240.0ft (Original Well Elev)
Reference Site:	TUMBLEWEED #18-9 PAD	MD Reference:	WELL @ 7240.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	Grid
Reference Well:	TUMBLEWEED #18-8	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	TUMBLEWEED #18-8	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 7240.0ft (Original Well Elev) Coordinates are relative to: TUMBLEWEED #18-8
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302
 Central Meridian is 111° 30' 0.000 W ° Grid Convergence at Surface is: 1.22°





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STEWART PETROLEUM CORPORATION

TUMBLEWEED #18-8, #18-3, #18-11, #19-1 & #17-12
SECTION 18, T15S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 54.9 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 7.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 11.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO TO SOUTHWEST; TURN LEFT AND PROCEED IN SOUTHWESTERLY, THEN WESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 1.4 MILES TO THE PROPOSED LOCATION.

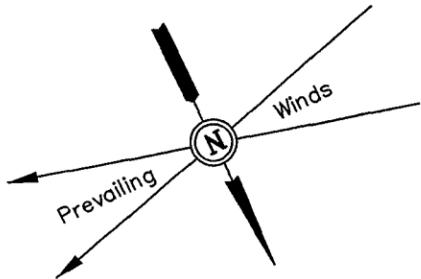
TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 107.1 MILES.

STEWART PETROLEUM CORPORATION

FIGURE #1

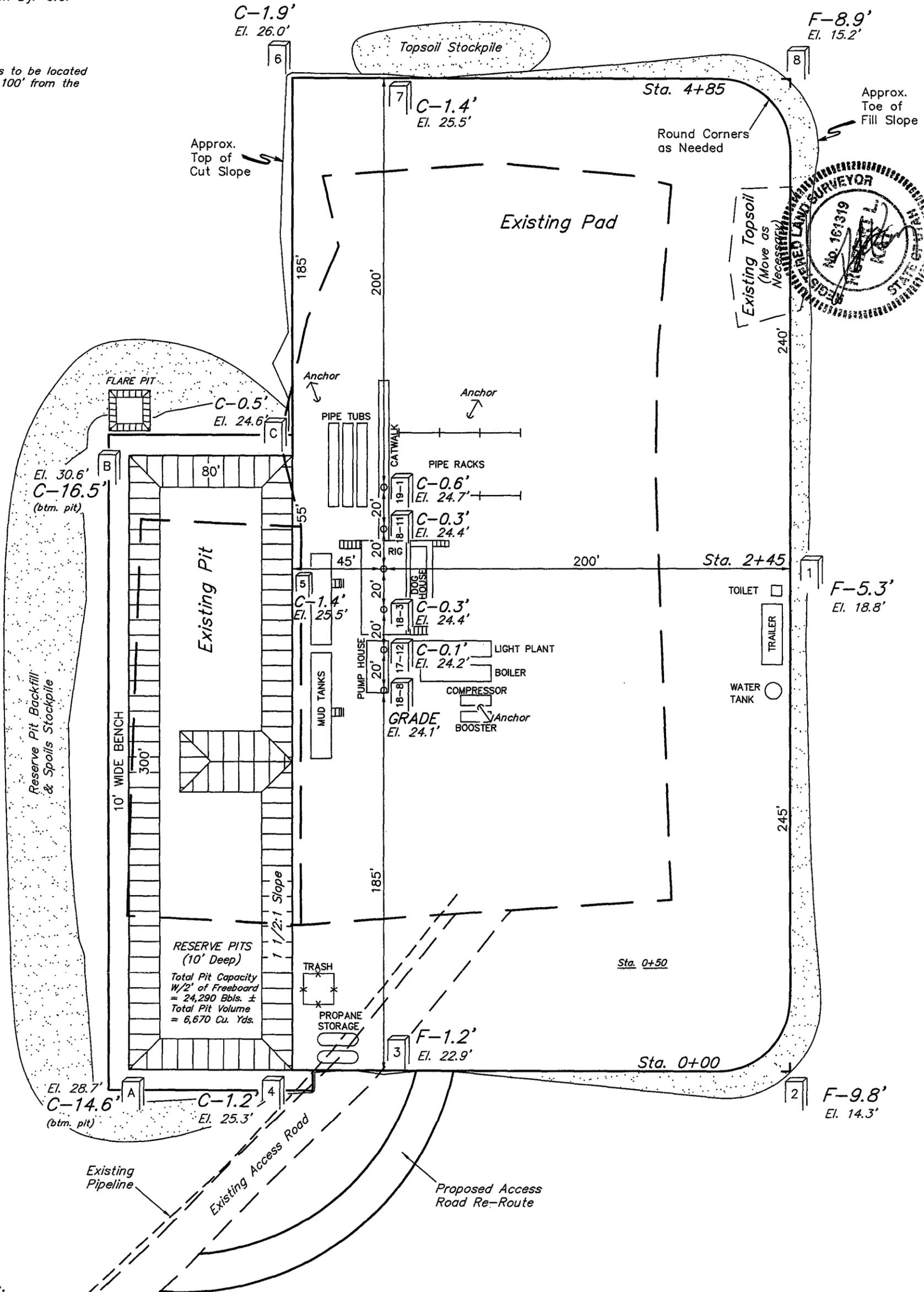
LOCATION LAYOUT FOR

TUMBLEWEED #18-3, #18-8, #18-11, #19-1 & #17-12
SECTION 18, T15S, R21E, S.L.B.&M.
NE 1/4 SE 1/4



SCALE: 1" = 50'
DATE: 04-07-08
Drawn By: C.C.

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



NOTES:
Elev. Ungraded Ground At # 19-1 Loc. Stake = 7224.7'
Elev. Ungraded Ground At #18-8 Loc. Stake = 7224.1'
FINISHED GRADE ELEV. AT LOC. STAKES = 7224.1'

STEWART PETROLEUM CORPORATION

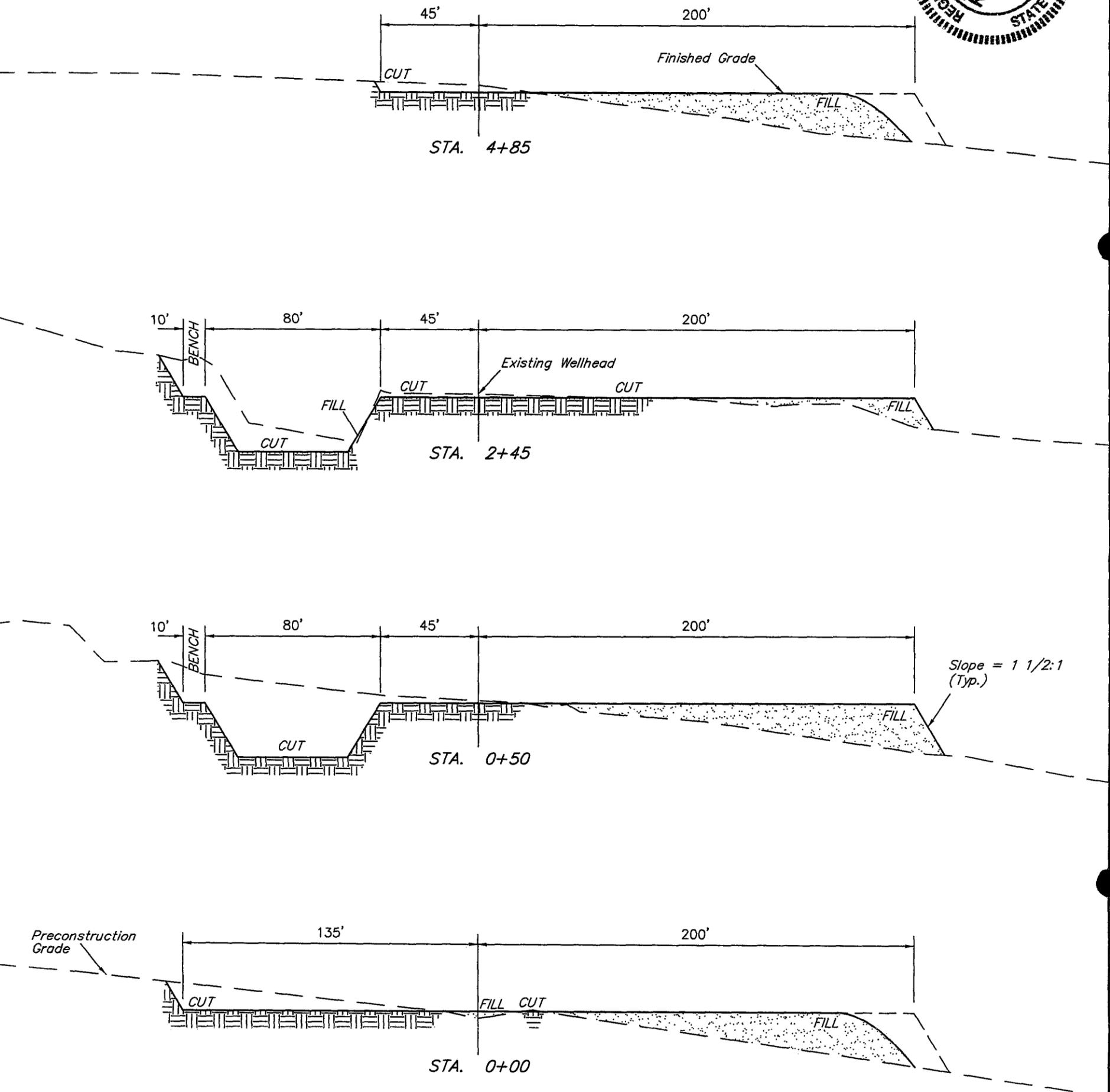
FIGURE #2

TYPICAL CROSS SECTIONS FOR

TUMBLEWEED #18-3, #18-8, #18-11, #19-10 & #17-12
SECTION 18, T15S, R21E, S.L.B.&M.
NE 1/4 SE 1/4

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

DATE: 04-07-08
Drawn By: C.C.



APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,250 Cu. Yds.
(New Construction Only)	
Remaining Location	= 8,040 Cu. Yds.
TOTAL CUT	= 9,290 CU.YDS.
FILL	= 9,690 CU.YDS.

* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

DEFICET MATERIAL	= <400> Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 4,590 Cu. Yds.
DEFICET UNBALANCE (After Rehabilitation)	= <4,990> Cu. Yds.

STEWART PETROLEUM CORPORATION
TUMBLEWEED #18-8, #18-3, #18-11, #19-1 & #17-12
 LOCATED IN UINTAH COUNTY, UTAH
 SECTION 18, T15S, R21E, S.L.B.&M.

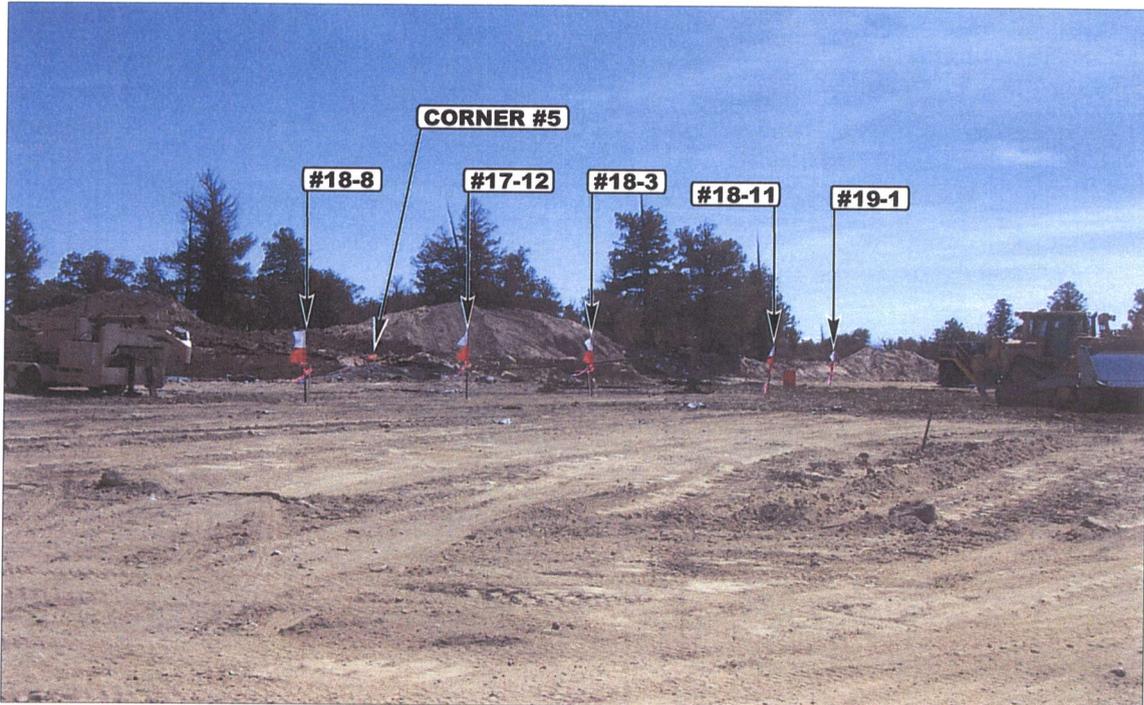


PHOTO: VIEW OF LOCATION STAKES & CORNER #5

CAMERA ANGLE: SOUTHEASTERLY

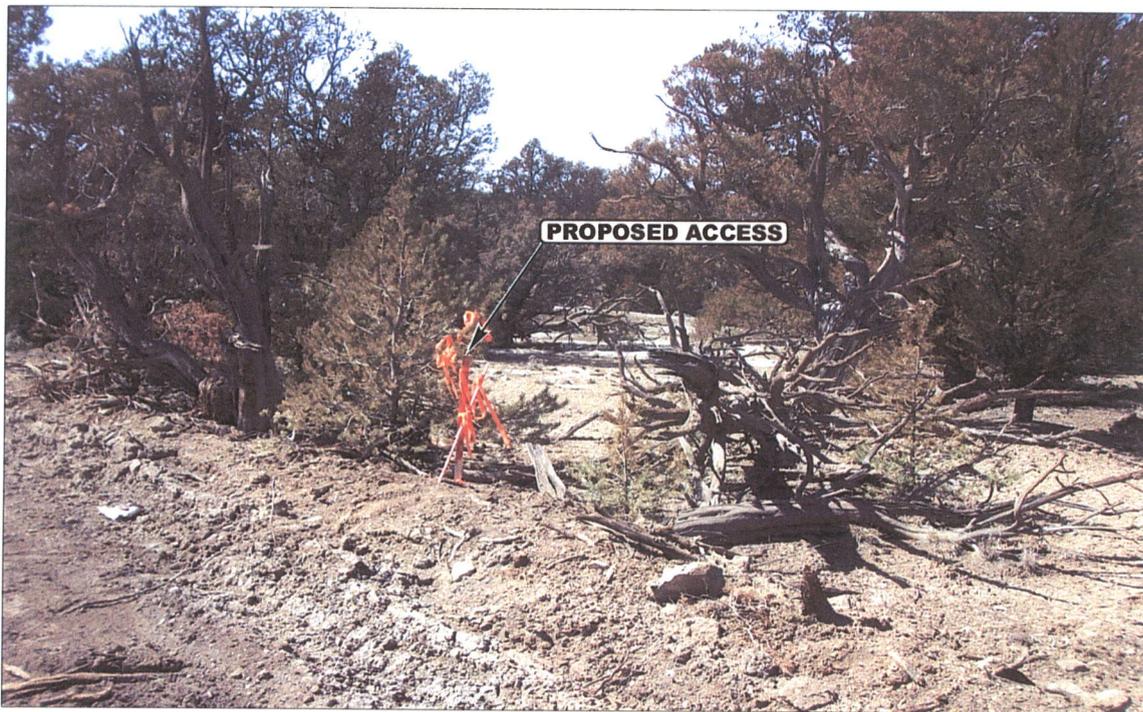


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

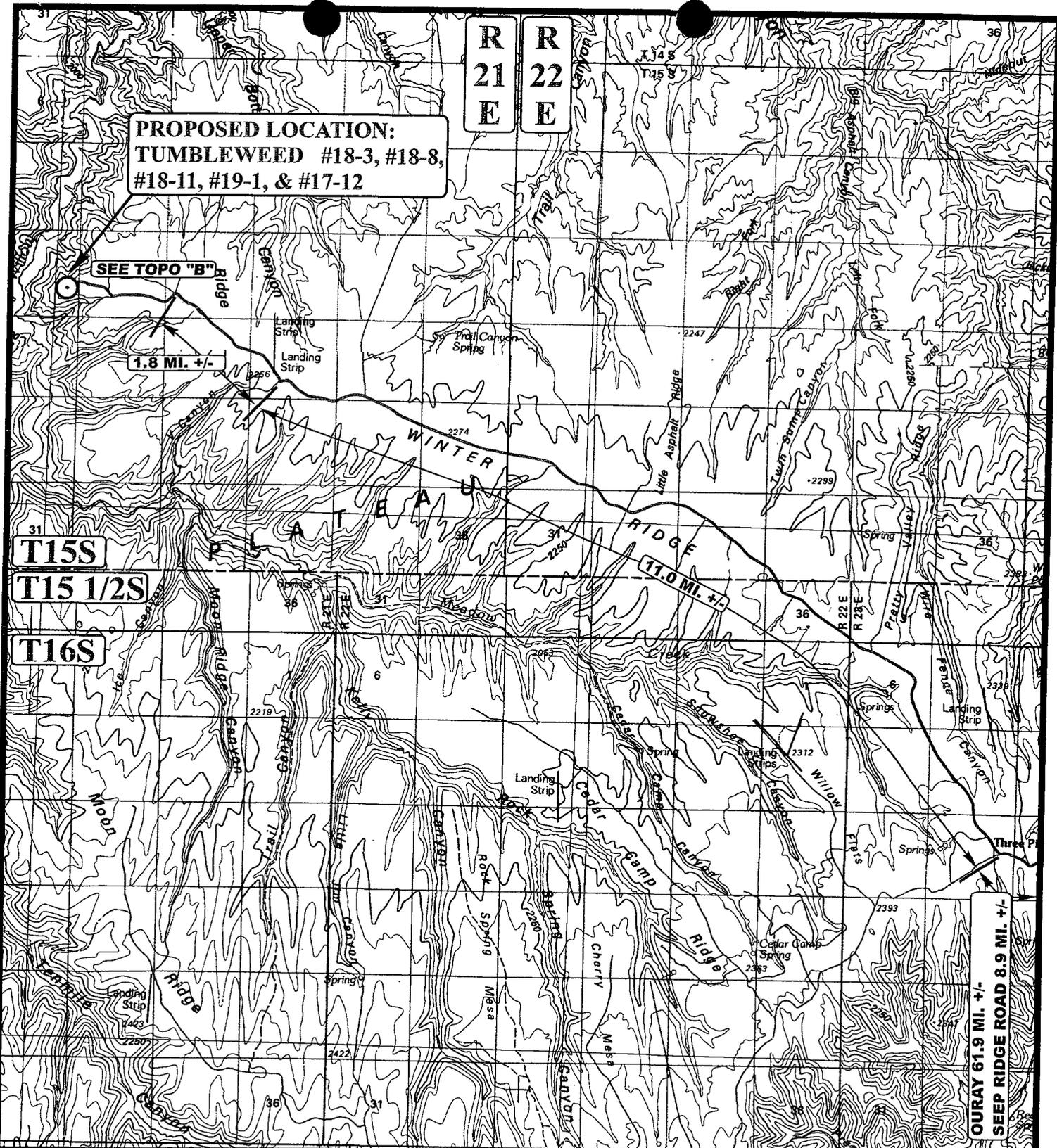
CAMERA ANGLE: NORTHWESTERLY



- Since 1964 -

U
E
L
S Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	4	9	08	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: B.H.	DRAWN BY: G.L.	REVISED: 00-00-00		



**PROPOSED LOCATION:
TUMBLEWEED #18-3, #18-8,
#18-11, #19-1, & #17-12**

SEE TOPO "B"

1.8 MI. +/-

11.0 MI. +/-

OURAY 61.9 MI. +/-
SEEP RIDGE ROAD 8.9 MI. +/-

T15S

T15 1/2S

T16S

R
21
E

R
22
E

LEGEND:

○ PROPOSED LOCATION

STEWART PETROLEUM CORPORATION

TUMBLEWEED #18-3, #18-8,
#18-11, #19-1, & #17-12
SECTION 18, T15S, R21E, S.L.B.&M.
NE 1/4 SE 1/4



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

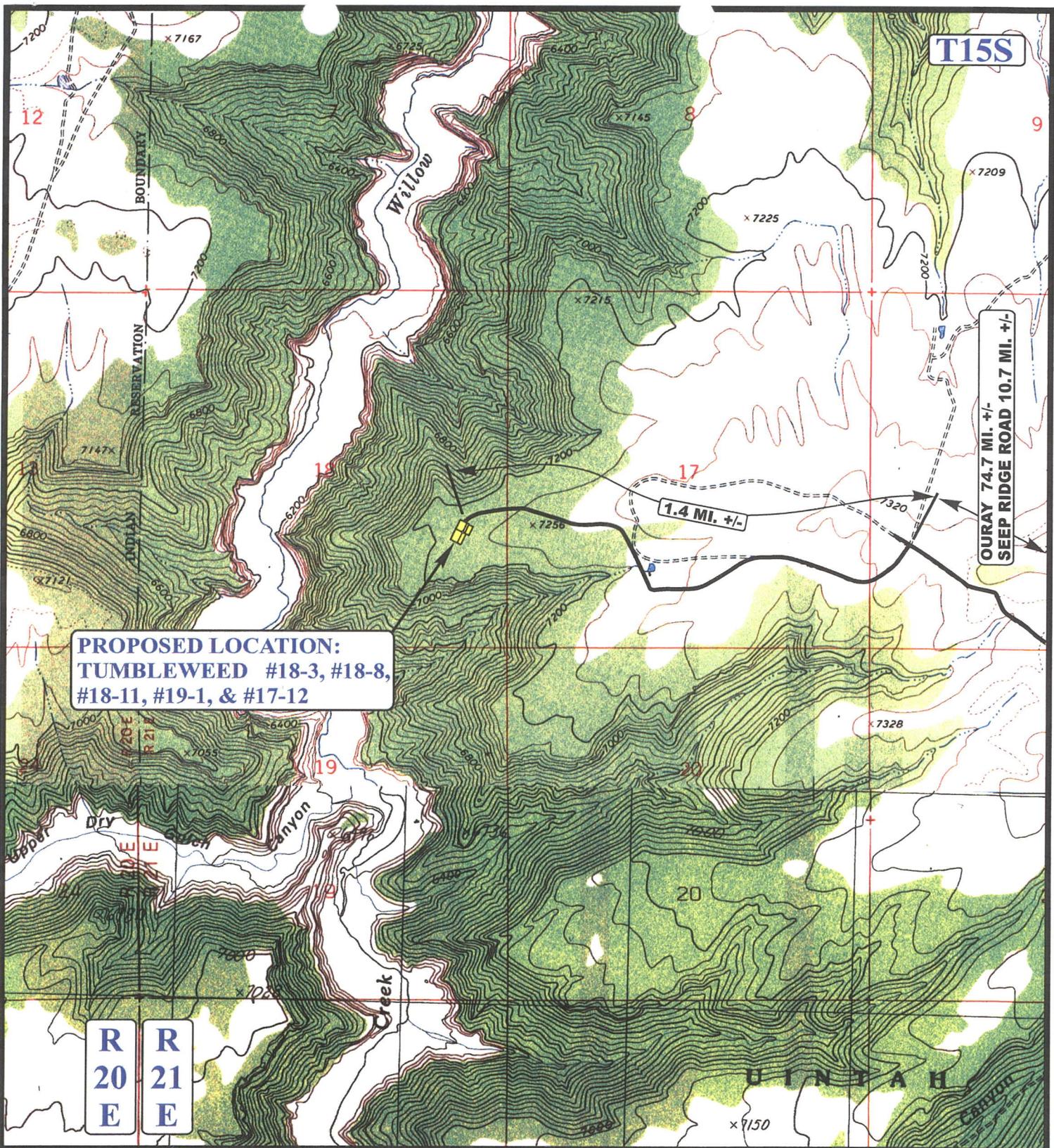


**TOPOGRAPHIC
MAP**

4 9 08
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: GL. REVISED: 00-00-00





**PROPOSED LOCATION:
TUMBLEWEED #18-3, #18-8,
#18-11, #19-1, & #17-12**

**OURAY 74.7 MI. +/-
SEEP RIDGE ROAD 10.7 MI. +/-**

1.4 MI. +/-

LEGEND:

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



STEWART PETROLEUM CORPORATION

**TUMBLEWEED #18-3, #18-8,
#18-11, #19-1, & #17-12
SECTION 18, T15S, R21E, S.L.B.&M.
NE 1/4 SE 1/4**



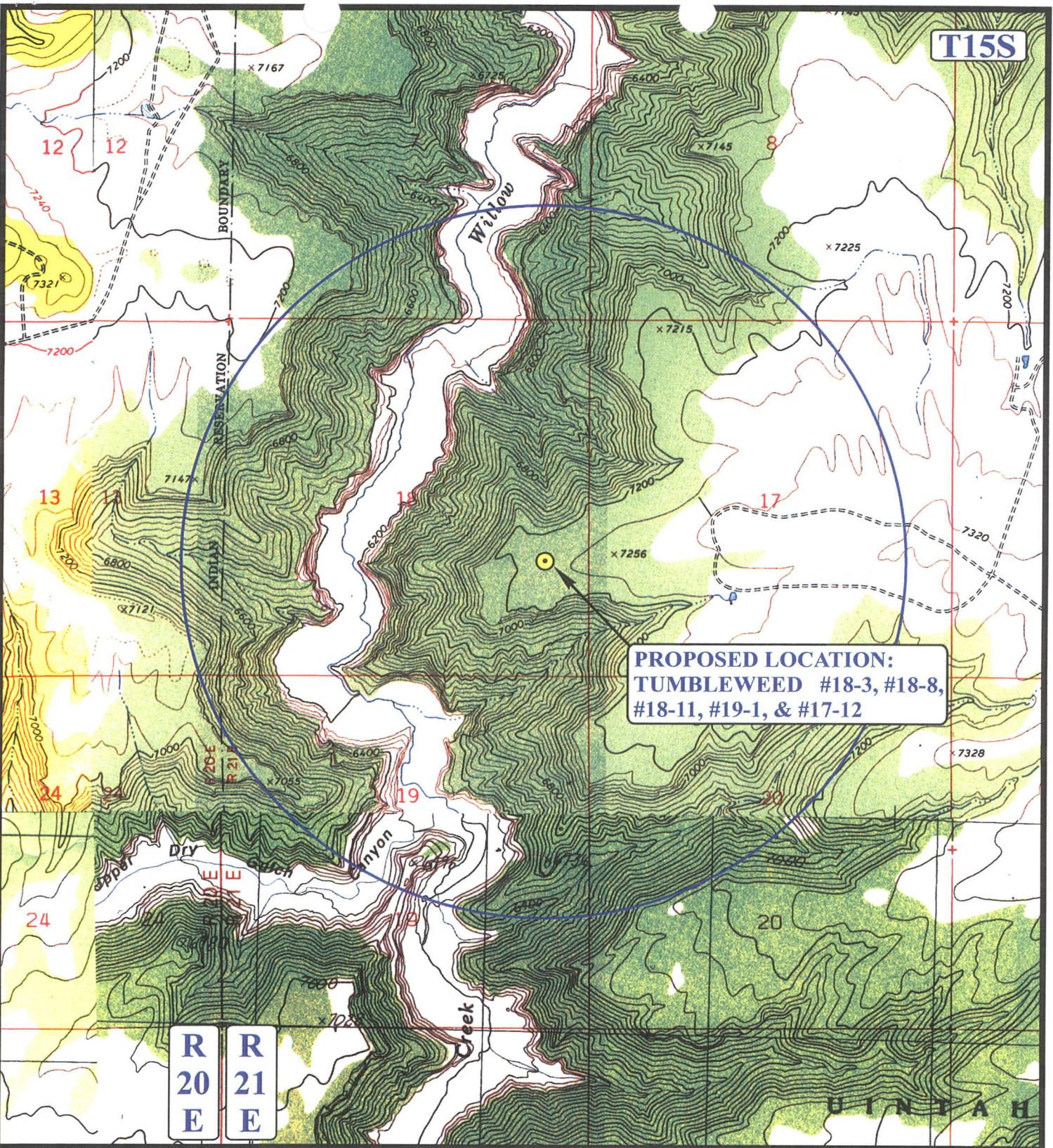
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
MAP**

4 9 08
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: GL. REVISED: 00-00-00





**PROPOSED LOCATION:
TUMBLEWEED #18-3, #18-8,
#18-11, #19-1, & #17-12**

LEGEND:

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

STEWART PETROLEUM CORPORATION

**TUMBLEWEED #18-3, #18-8,
#18-11, #19-1, & #17-12
SECTION 18, T15S, R21E, S.L.B.&M.
NE 1/4 SE 1/4**



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



**TOPOGRAPHIC
MAP**

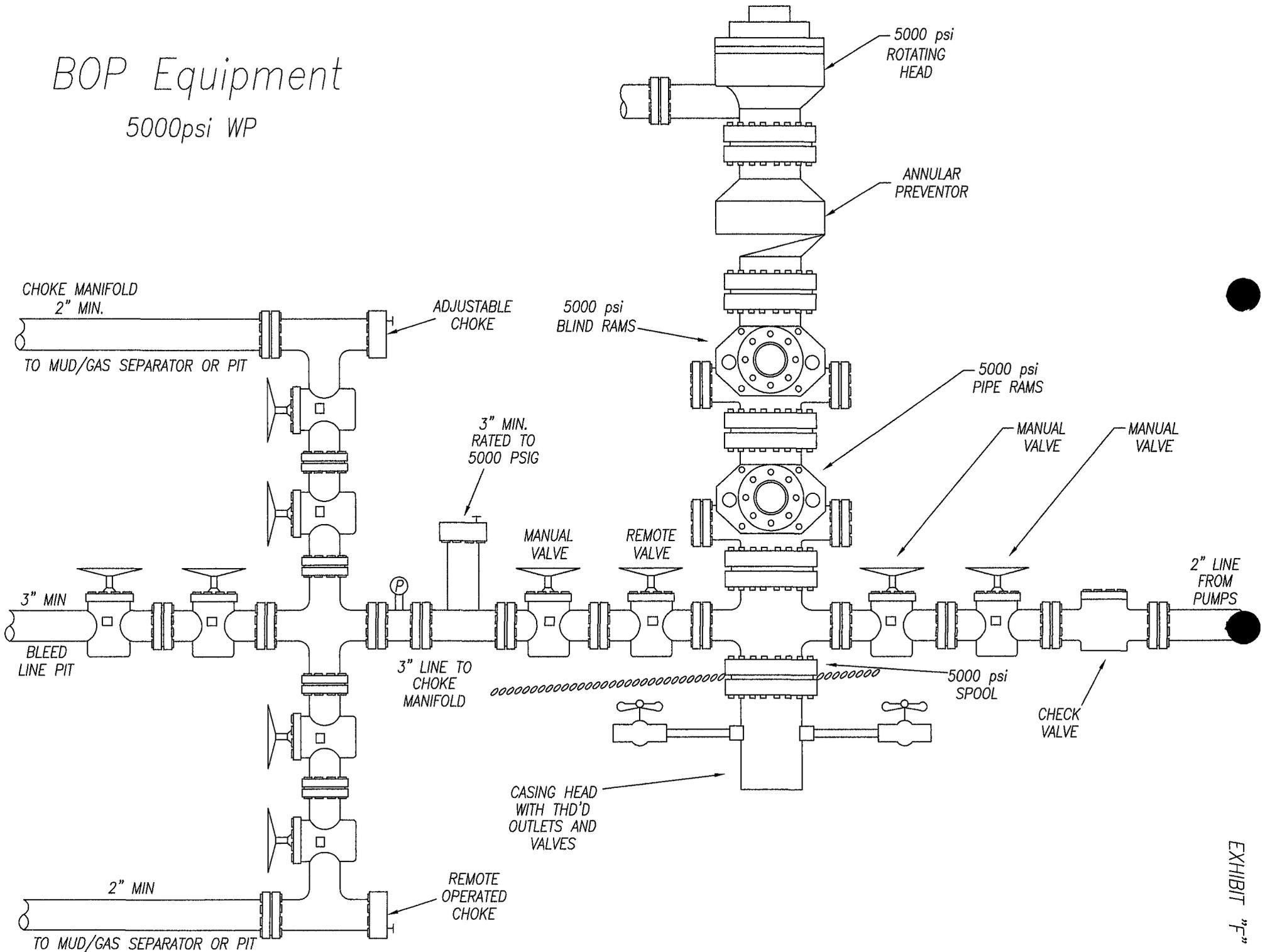
4 9 08
MONTH DAY YEAR



SCALE: 1" = 2000' DRAWN BY: GL. REVISED: 00-00-00

BOP Equipment

5000psi WP



**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 08/11/2008

API NO. ASSIGNED: 43-047-40314

WELL NAME: TUMBLEWEED 18-8
 OPERATOR: STEWART PETROLEUM CORP (N3145)
 CONTACT: DON HAMILTON

PHONE NUMBER: 303-799-1922

PROPOSED LOCATION:

SENE

NESE 18 150S 210E
 SURFACE: 1753 FSL 0629 FEL
 BOTTOM: 2567 FNL 1007 FEL
 COUNTY: UINTAH
 LATITUDE: 39.51054 LONGITUDE: -109.6014
 UTM SURF EASTINGS: 620235 NORTHINGS: 4374159
 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. 49-12)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

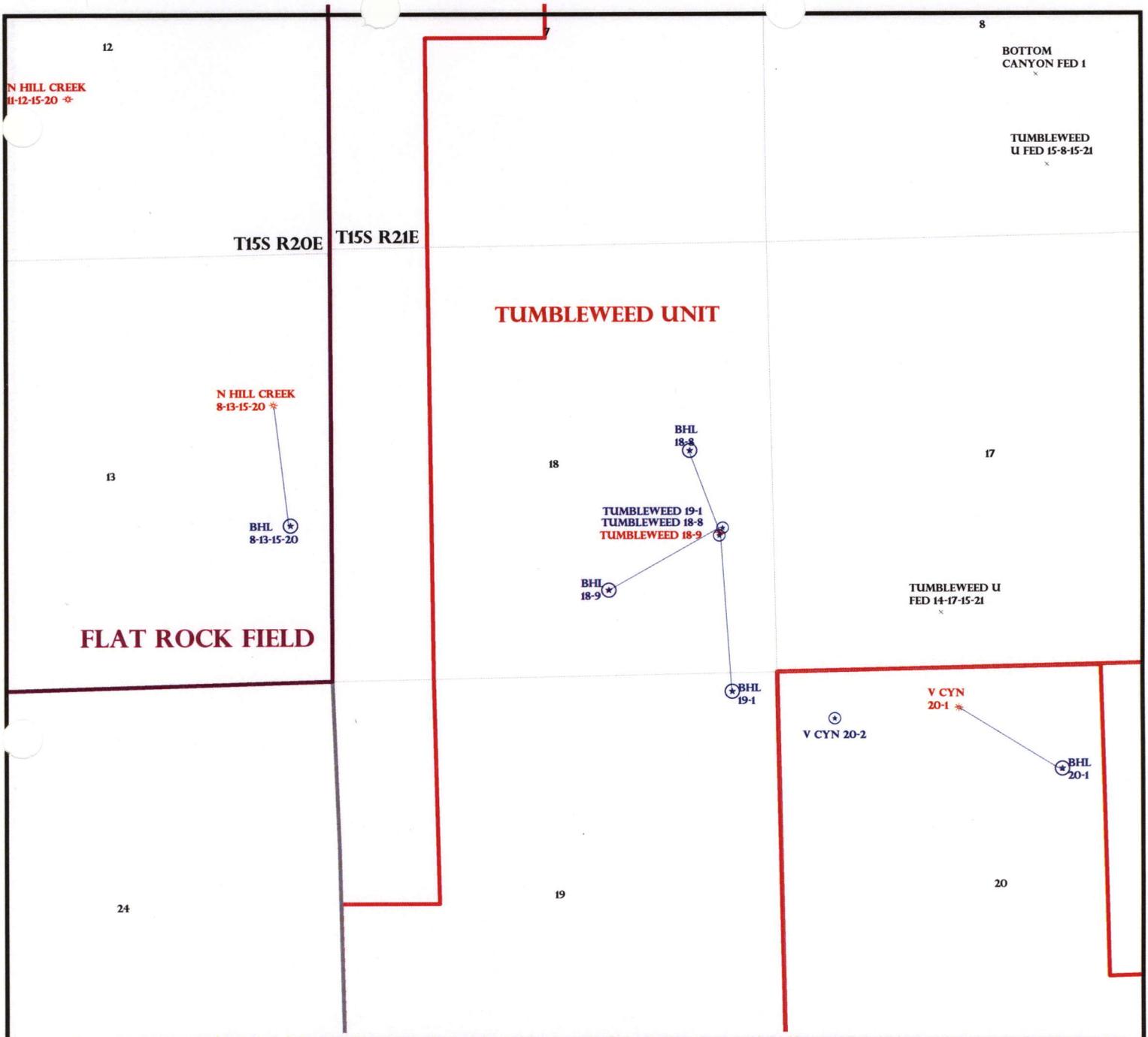
LOCATION AND SITING:

- 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. Seismic Approval
2. Spacing Strip



OPERATOR: STEWART PETRO CORP (N3145)

SEC: 18 T.15S R. 21E

FIELD: UNDESIGNATED (002)

COUNTY: UINTAH

SPACING: R649-3-11 / DIRECTIONAL DRILLING

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

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

- 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



PREPARED BY: DIANA MASON
DATE: 12-AUGUST-2008

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)

August 12, 2008

Memorandum

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

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

API #	WELL NAME	LOCATION
(Proposed PZ Wingate)		
43-047-40314	Tumbleweed 18-8 Sec 18 T15S R21E 1753 FSL 0629 FEL BHL Sec 18 T15S R21E 2567 FNL 1007 FEL	
43-047-40315	Tumbleweed 19-1 Sec 18 T15S R21E 1663 FSL 0673 FEL BHL Sec 19 T15S R21E 0249 FNL 0559 FEL	

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

/s/ Michael L. Coulthard

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



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

August 13, 2008

Stewart Petroleum Corporation
475 17th St., Ste. 790
Denver, CO 80202

Re: Tumbleweed 18-8 Well, Surface Location 1753' FSL, 629' FEL, NE SE, Sec. 18,
T. 15 South, R. 21 East, Bottom Location 2567' FNL, 1007' FEL, SE NE, 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.

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 43-047-40314.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

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

Operator: Stewart Petroleum Corporation
Well Name & Number Tumbleweed 18-8
API Number: 43-047-40314
Lease: UTU-72059

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

3. Reporting Requirements

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

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

RECEIVED

Form 3160-3
(February 2005)

AUG - 8 2008

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

BLM

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-72059
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		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Stewart Petroleum Corporation		7. If Unit or CA Agreement, Name and No. Tumbleweed Unit UTU-80665X
3a. Address 475 17th St., Ste. 790 Denver, Colorado 80202		8. Lease Name and Well No. Tumbleweed #18-8
3b. Phone No. (include area code) 303-799-1922		9. API Well No. 43-049-40314
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 1,753' FSL & 629' FEL, NE/4 SE/4, At proposed prod. zone 2,567' FNL & 1,007' FEL, SE/4 NE/4,		10. Field and Pool, or Exploratory undesignated
14. Distance in miles and direction from nearest town or post office* 40.1 miles southeast of Ouray, Utah		11. Sec., T. R. M. or Blk. and Survey or Area Section 18, T15S, R21E, SLB&M
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 629'	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. 60'	19. Proposed Depth 12,000' TVD-12,074' MD	20. BLM/BIA Bond No. on file UTB000251
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7,224' GR	22. Approximate date work will start* 09/15/2008	23. Estimated duration 21 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 08/06/2008
Title Agent for Stewart Petroleum Corporation		

Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed) <i>John Venels</i>	Date SEP 22 2008
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)

NOS 61108

AFMSS# 08PP0891A

UBDGM

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

RECEIVED
OCT 06 2008
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

Company: Stewart Petroleum Corporation
Well No: Tumbleweed 18-8
API No: 43-047-40314

Location: NESE, Sec. 18, T15S, R21E
Lease No: UTU-72059
Agreement: TumbleweedUnit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	(435) 828-3546
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	(435) 828-4029
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	(435) 828-7381
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

Fax: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

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

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

SITE SPECIFIC CONDITIONS OF APPROVAL

- All the culverts would be installed according to the BLM Gold Book.
- Permission from an authorized BLM representative would be required if construction or other operations occur during wet conditions that would lead to excessive rutting.
- No traffic will be allowed on the access road between the hours of 5 am and 9 am from 3/1 to 6/15 in order to protect strutting sage-grouse.
- Permission to clear all wildlife stipulations would 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 three feet tall.

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

SITE SPECIFIC DOWNHOLE COAs:

- Adjust surface casing cement volume to provide a minimum of 50% excess volume.
- The top of the production casing cement shall extend a minimum of 200 feet above the surface casing shoe.
- Logging: Run Gamma Ray from TD to surface.

Variances Granted:

- Air Drilling:
- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 80' from the well bore.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

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

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

OPERATING REQUIREMENT REMINDERS:

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

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

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



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Vernal Field Office

170 South 500 East

Vernal, UT 84078

(435) 781-4400 Fax: (435) 781-4410



IN REPLY REFER TO:

3160

LLUTG01000

CERTIFIED MAIL

RETURN RECEIPT REQUESTED

No. 7005 1820 0002 6515 9038

October 31, 2008

Stewart Petroleum Corporation

Attn: Daryl Stewart

475 17th Street, Suite 1250

Denver, CO 80202

43 047 40314
15 S 21 E 18

Re: Rescindment of APD Approvals
Tumbleweed #19-1
Tumbleweed #18-8

Dear Mr. Stewart:

The Application for Permit to Drill for the above referenced wells were approved on the dates noted in the following information:

Tumbleweed #19-1 was approved September 22, 2008
NESE Section 18, Township 15 South, Range 21 East
Lease U-72018

Tumbleweed #18-8 was approved September 22, 2008
NESE Section 18, Township 15 South, Range 21 East
Lease U-72059

I regret to inform you that I must rescind the approval from this office for the two referenced wells. The Application for Permit to Drill (APD) for the Tumbleweed 18-8 well and the Tumbleweed 19-1 were inadvertently approved. The APDs should not have been approved pursuant to the Deputy State Director's decision in SDR UT 08-01, which directed this office to withhold authorizing any surface disturbance associated with the Tumbleweed 18-8 well and Federal Lease UTU-72059 until a decision is reissued on the Tumbleweed Exploratory Drilling EA.

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DIV. OF OIL, GAS & MINING

Stewart Petroleum has the right to a State Director review of this decision as per the procedures outlined in 43 CFR 3165.3. Should you have any questions pertaining to this correspondence, please contact me at 435-781-4440.

Sincerely,



Jerry Kenczka
AFM for Lands and Minerals

cc: Well files
U-922
SUWA
Solicitor

UDOGM

December 19, 2008

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

43-047-40314

RE: Updated APD Information - Stewart Petroleum Corporation

- o Tumbleweed 18-8
- o Tumbleweed 19-1

15 S 21E 18

Dear Fluid Minerals Group:

On behalf of Stewart Petroleum Corporation, Buys & Associates, Inc. respectfully submits the enclosed original and three copies of the above referenced Exhibit "A" and "B" for the above referenced wells to replace those previously submitted on August 6, 2008. The plat packages have been updated to reflect that only two directional well bores are proposed from the existing Tumbleweed 18-9 pad resulting in no new surface disturbance. All other aspects of the project and surface use plan remain unchanged from the original August 6, 2008 and updated November 13, 2008 submittals.

Thank you very much for your timely consideration of this application. Please feel free to contact myself or Daryl R. 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: Diana Mason - Division of Oil, Gas and Mining
Daryl R. Stewart, Stewart Petroleum Corporation
Dawn Martin, Buys & Associates, Inc.

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DEC 23 2008
DIV. OF OIL, GAS & MINING

FILE COPY

STEWART PETROLEUM CORPORATION

TUMBLEWEED #18-8 & #19-1

LOCATED IN UINTAH COUNTY, UTAH
SECTION 18, T15S, R21E, S.L.B.&M.



PHOTO: VIEW OF LOCATION STAKES & CORNER #5

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHWESTERLY

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- Since 1964 -

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

LOCATION PHOTOS

4
MONTH

9
DAY

08
YEAR

PHOTO

TAKEN BY: B.H.

DRAWN BY: G.L.

REV: 12-15-08 C.C.

R
22
E

R
21
E

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

WEST - 5267.46' (G.L.O.)

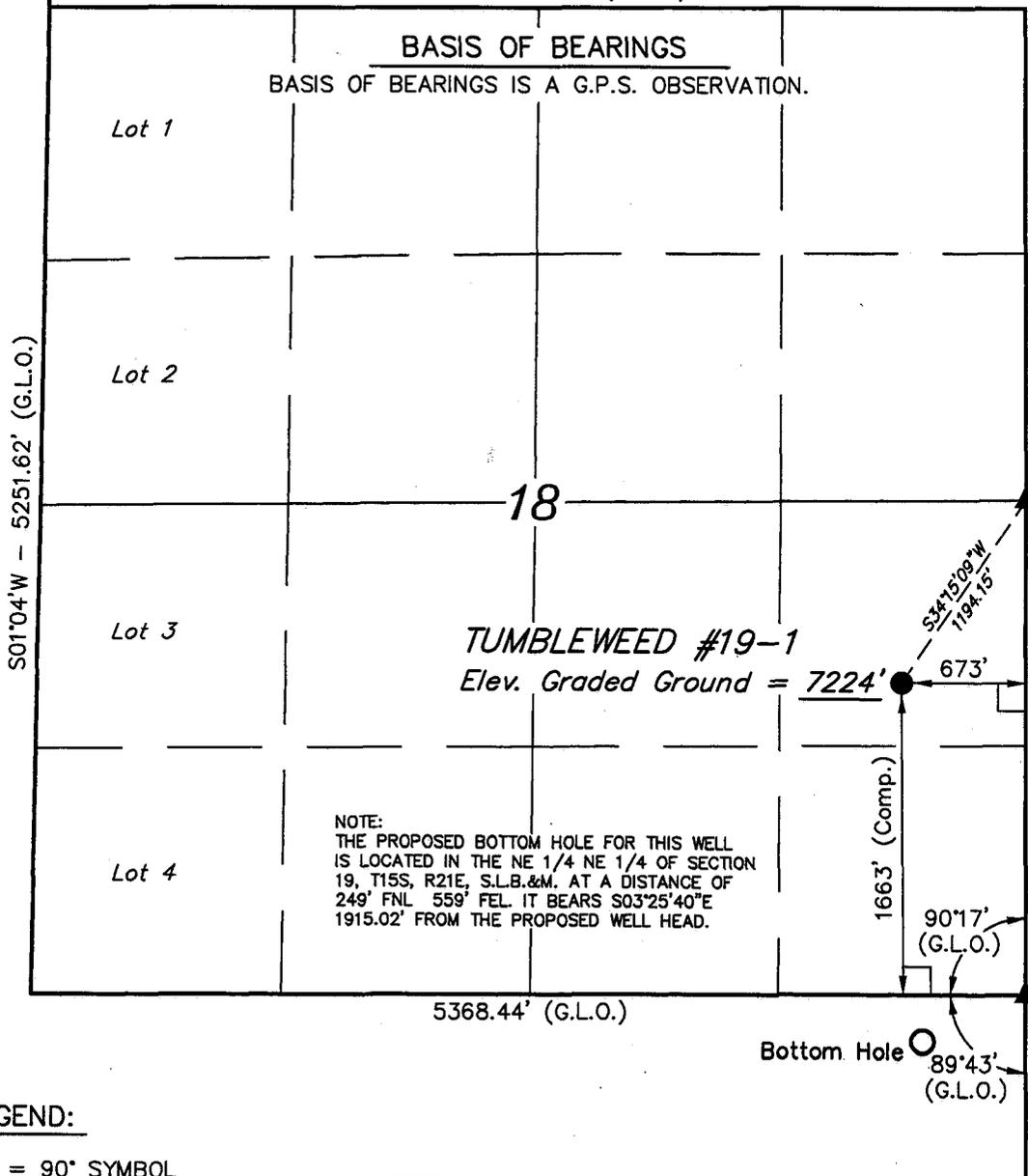
BASIS OF BEARINGS
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

STEWART PETROLEUM CORPORATION

Well location, TUMBLEWEED #19-1, 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 7462 FEET.

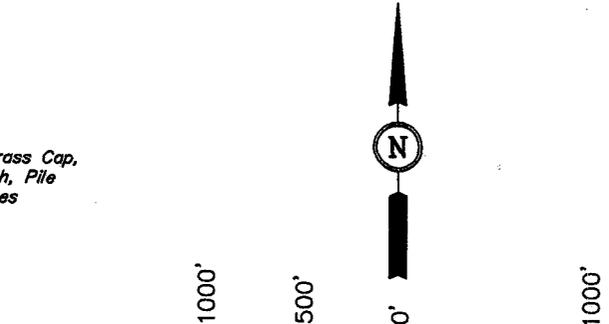


N00°03'W - 2640.00' (G.L.O.)

N00°03'W - 2646.66' (Meas.)

S00°01'40\"E - 2646.66' (Meas.)

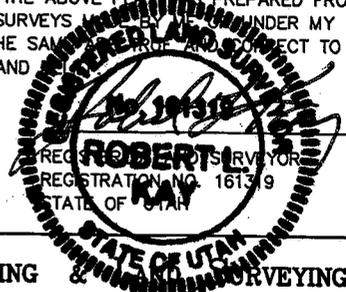
1920 Brass Cap,
1.0' High, Pile
of Stones



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DEC 23 2008

CERTIFICATE

DIV. OF OIL, GAS & MINING
I HEREBY CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



NOTE:
THE PROPOSED BOTTOM HOLE FOR THIS WELL IS LOCATED IN THE NE 1/4 NE 1/4 OF SECTION 19, T15S, R21E, S.L.B.&M. AT A DISTANCE OF 249' FNL 559' FEL. IT BEARS S03°25'40\"E 1915.02' FROM THE PROPOSED WELL HEAD.

1920 Brass Cap,
1.0' High, Pile
of Stones

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

NAD 83 (TARGET BOTTOM HOLE)		NAD 83 (SURFACE LOCATION)	
LATITUDE = 39°30'18.13" (39.505036)	LONGITUDE = 109°36'06.80" (109.601889)	LATITUDE = 39°30'37.01" (39.510281)	LONGITUDE = 109°36'08.28" (109.602300)
NAD 27 (TARGET BOTTOM HOLE)		NAD 27 (SURFACE LOCATION)	
LATITUDE = 39°30'18.25" (39.505069)	LONGITUDE = 109°36'04.33" (109.601203)	LATITUDE = 39°30'37.14" (39.510317)	LONGITUDE = 109°36'05.81" (109.601614)

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

SCALE 1" = 1000'	DATE SURVEYED: 04-04-08	DATE DRAWN: 04-07-08
PARTY J.R. N.W. C.C.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE STEWART PETROLEUM CORPORATION	

R
22
E | R
21
E

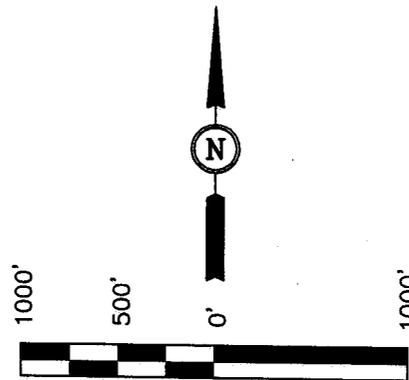
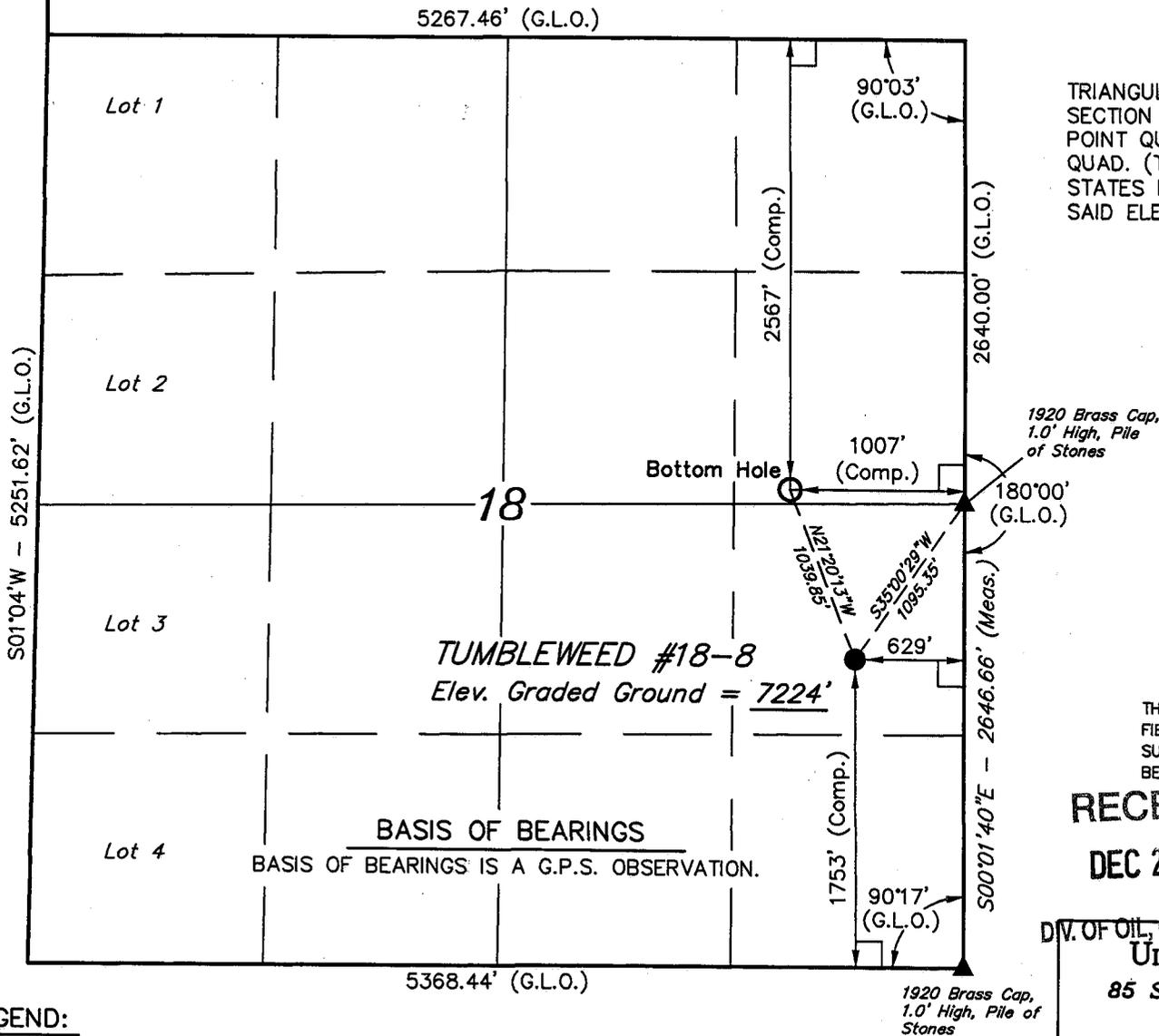
T15S, R21E, S.L.B.&M.

STEWART PETROLEUM CORPORATION

Well location, TUMBLEWEED #18-8, 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 7462 FEET.



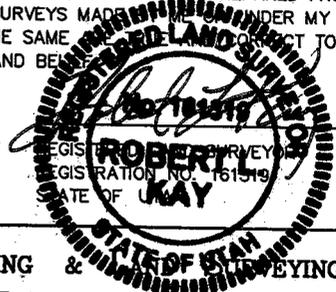
SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE UNDER MY SUPERVISION AND THAT THE SAME ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

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DIV. OF OIL, GAS & MINING

UINTAH ENGINEERING & SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

LEGEND:

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

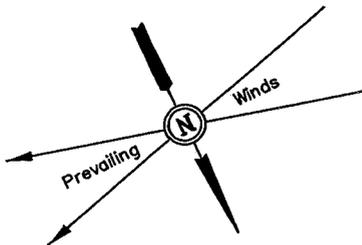
NAD 83 (TARGET BOTTOM HOLE)		NAD 83 (SURFACE LOCATION)	
LATITUDE = 39°30'47.47" (39.513186)		LATITUDE = 39°30'37.90" (39.510528)	
LONGITUDE = 109°36'12.57" (109.603492)		LONGITUDE = 109°36'07.73" (109.602147)	
NAD 27 (TARGET BOTTOM HOLE)		NAD 27 (SURFACE LOCATION)	
LATITUDE = 39°30'47.59" (39.513219)		LATITUDE = 39°30'38.03" (39.510564)	
LONGITUDE = 109°36'10.09" (109.602803)		LONGITUDE = 109°36'05.26" (109.601461)	

SCALE 1" = 1000'	DATE SURVEYED: 04-04-08	DATE DRAWN: 04-07-08
PARTY J.R. N.W. C.C.		REFERENCES G.L.O. PLAT
WEATHER COOL		FILE STEWART PETROLEUM CORPORATION

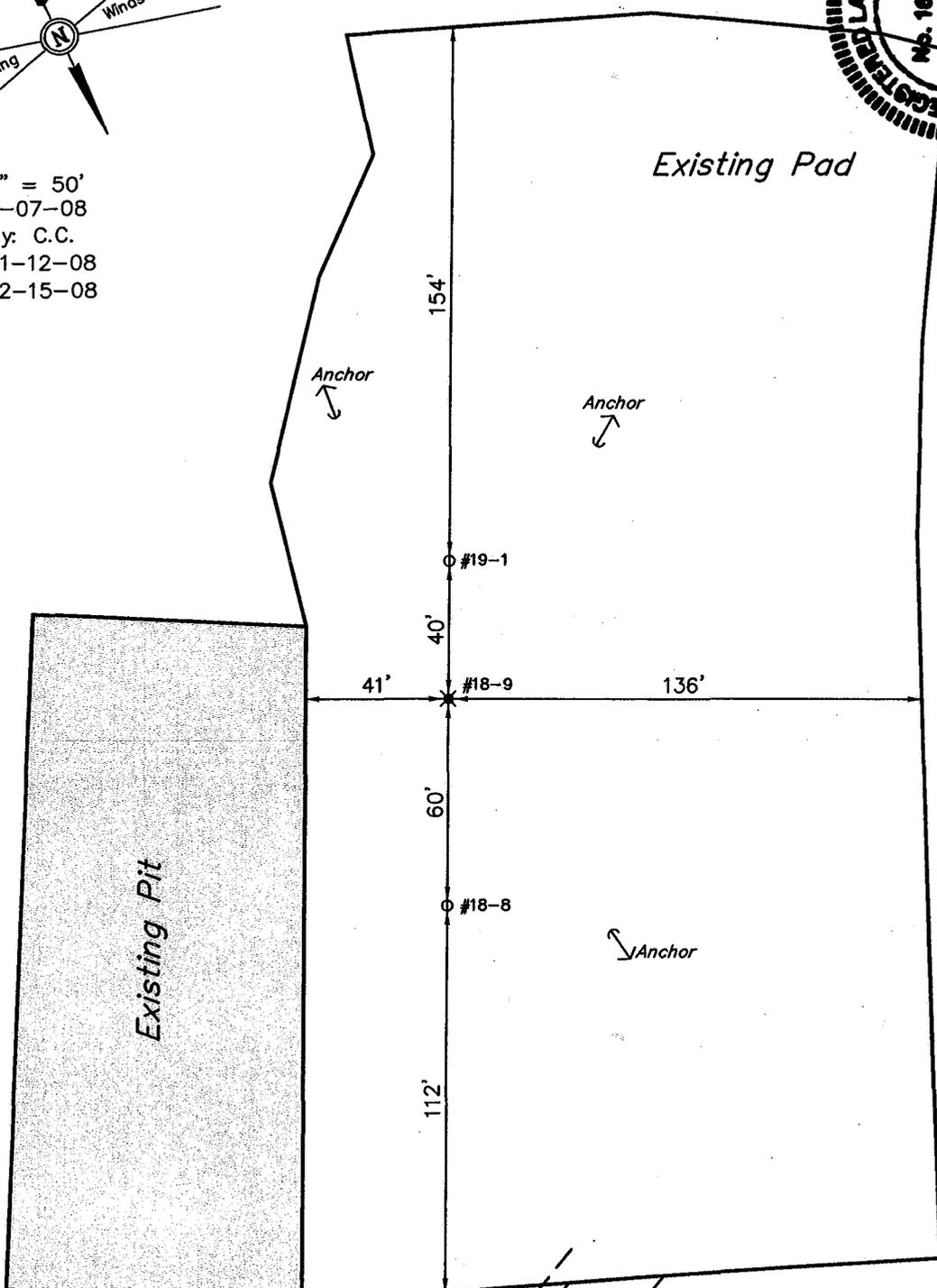
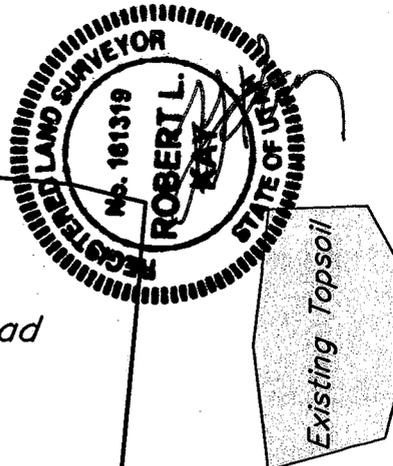
STEWART PETROLEUM CORPORATION

LOCATION LAYOUT FOR

TUMBLEWEED #18-8 & #19-1
SECTION 18, T15S, R21E, S.L.B.&M.
NE 1/4 SE 1/4

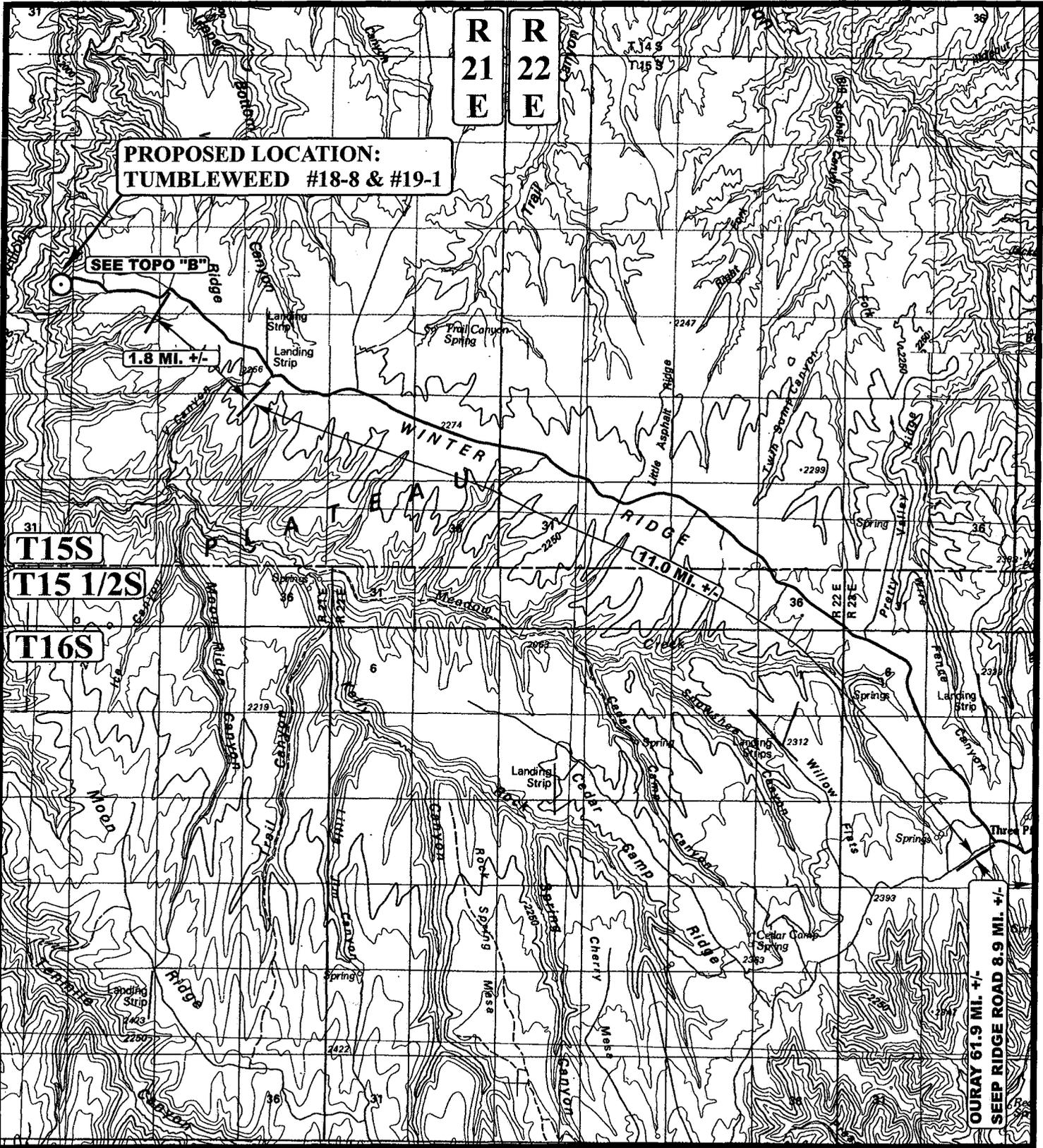


SCALE: 1" = 50'
DATE: 04-07-08
Drawn By: C.C.
Revised: 11-12-08
Revised: 12-15-08



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DIV. OF OIL, GAS & MINING
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017



**PROPOSED LOCATION:
TUMBLEWEED #18-8 & #19-1**

SEE TOPO "B"

1.8 MI. +/-

11.0 MI. +/-

**OURAY 61.9 MI. +/-
SEEP RIDGE ROAD 8.9 MI. +/-**

T15S

T15 1/2S

T16S

**R
21
E**

**R
22
E**

LEGEND:

○ PROPOSED LOCATION

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STEWART PETROLEUM CORPORATION

**TUMBLEWEED #18-8 & #19-1
SECTION 18, T15S, R21E, S.L.B.&M.
NE 1/4, SE 1/4**



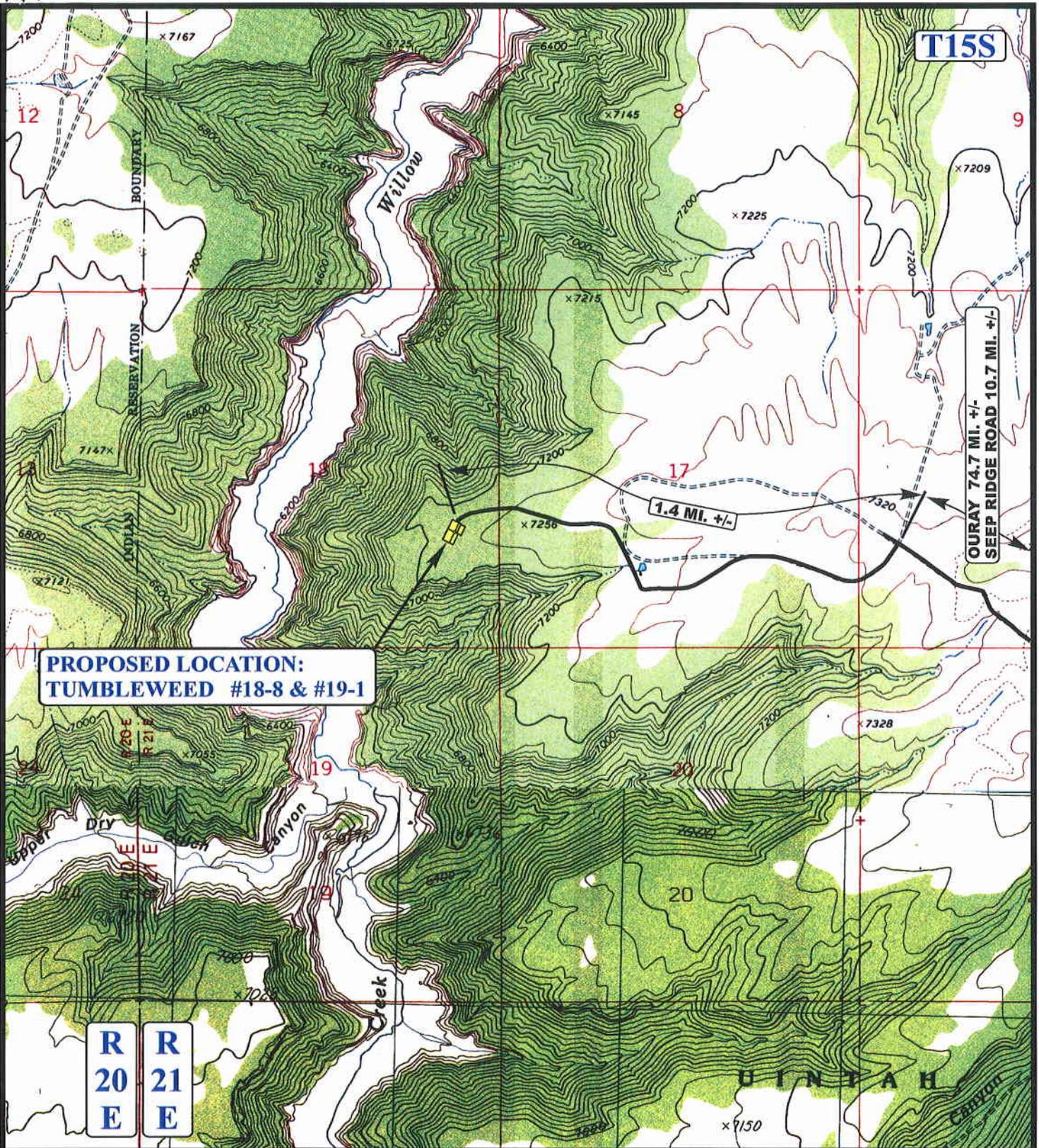
Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
MAP**

4 9 08
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: G.L. REV: 12-15-08 C.C.





**PROPOSED LOCATION:
TUMBLEWEED #18-8 & #19-1**

**R 20 E
R 21 E**

LEGEND:

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

STEWART PETROLEUM CORPORATION

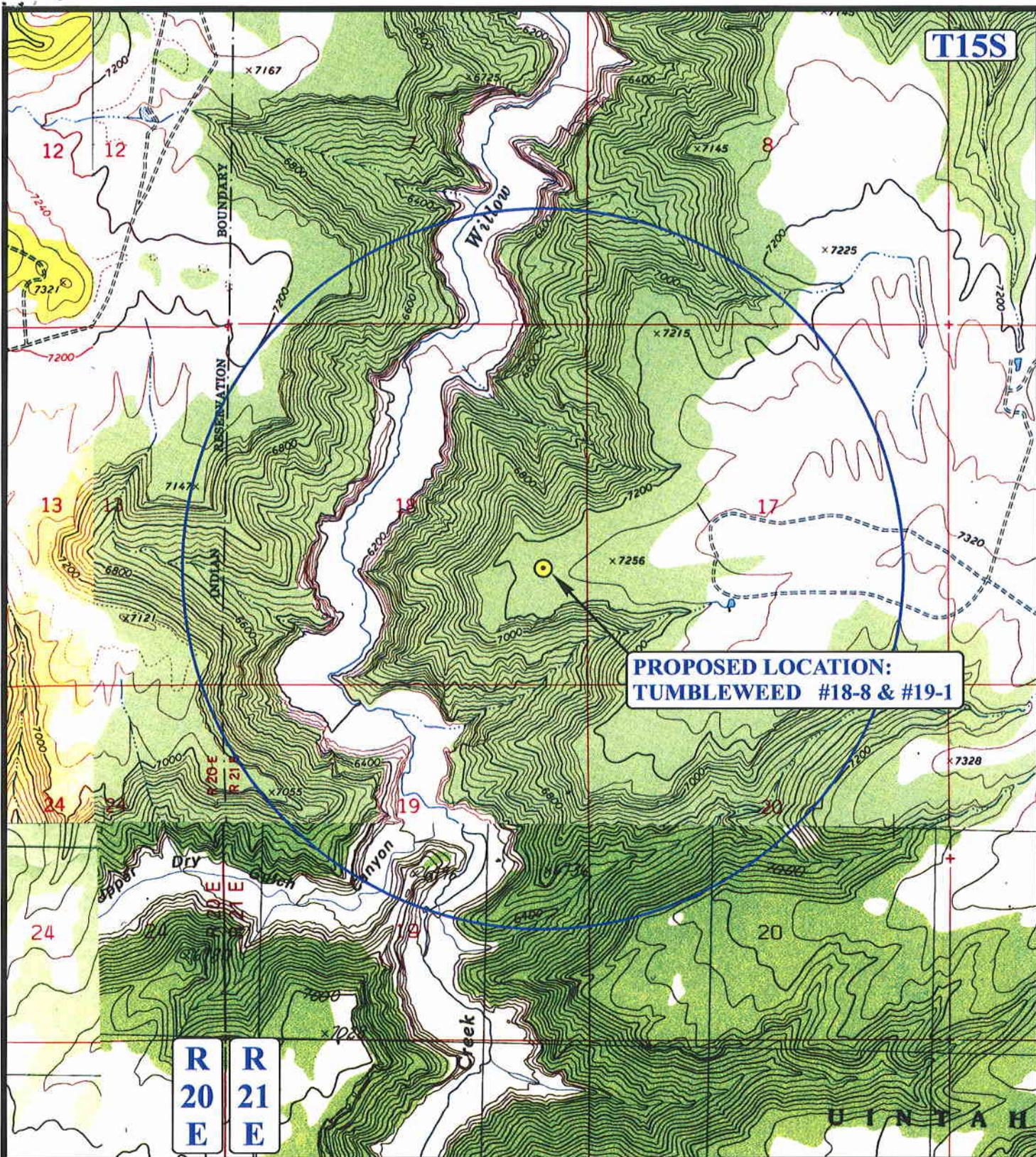
**TUMBLEWEED #18-8 & #19-1
SECTION 18, T15S, R21E, S.L.B.&M.
NE 1/4, SE 1/4**



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

TOPOGRAPHIC MAP **4 9 08**
MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: G.L. REV: 12-15-08 C.C.





T15S

**PROPOSED LOCATION:
TUMBLEWEED #18-8 & #19-1**

R 20 E
R 21 E

U I N T A H

LEGEND:

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



STEWART PETROLEUM CORPORATION

TUMBLEWEED #18-8 & #19-1
SECTION 18, T15S, R21E, S.L.B.&M.
NE 1/4, SE 1/4



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

TOPOGRAPHIC **4 9 08**
MAP MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: GL. REV: 12-15-08 C.C.



STEWART PETROLEUM CORPORATION
TUMBLEWEED #18-8 & #19-1
SECTION 18, T15S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 54.9 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 7.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 11.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN WESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 1.4 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 107.1 MILES.

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DEC 23 2008

DIV. OF OIL, GAS & MINING



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

October 20, 2009

Stewart Petroleum Corporation
475 17th St., Ste. 790
Denver, CO 80202

Re: APD Rescinded – Tumbleweed 18-8, Sec. 18, T. 15S, R. 21E,
Uintah County, Utah, API No. 43-047-40314

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on August 13, 2008. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective October 20, 2009.

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

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

Sincerely,

Diana Mason
Environmental Scientist

cc: Well File
Bureau of Land Management, Vernal

