

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

FORM 3

AMENDED REPORT   
(highlight changes)

001

<b>APPLICATION FOR PERMIT TO DRILL</b>			5. MINERAL LEASE NO: ML46104	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			8. UNIT or CA AGREEMENT NAME: <del>Seep Canyon</del>	
2. NAME OF OPERATOR: Medallion Exploration			9. WELL NAME and NUMBER: Atchee Ridge 11-20	
3. ADDRESS OF OPERATOR: 6985 Union Park Center CITY #375, Midvale STATE Ut ZIP 84047			PHONE NUMBER: (801) 566-7400	10. FIELD AND POOL, OR WILDCAT: <del>Wildcat</del> <i>Undesignated</i>
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2013' FWL & 1956' FSL AT PROPOSED PRODUCING ZONE:			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 20 12S 25E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 64.0 miles South of Vernal, Utah			12. COUNTY: Uintah	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 1956'	16. NUMBER OF ACRES IN LEASE: 2000		17. NUMBER OF ACRES ASSIGNED TO THIS WELL:	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET)	19. PROPOSED DEPTH: 4,000		20. BOND DESCRIPTION: RLB0005889	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 6720'	22. APPROXIMATE DATE WORK WILL START: 5/1/2005		23. ESTIMATED DURATION: 10 days	

24. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
12-1/4"	9-5/8" 36#	500	295 sx Class G w/2% calc2. Vol is 100% excess
7-7/8"	5-1/2" 17#	4,000	115 sx 28-72 poz & 360 sx G, the actual amnt will be determined off the caliper log.

RECEIVED  
MAR 07 2005

25. ATTACHMENTS

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

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

NAME (PLEASE PRINT) RaSchelle Richens TITLE Permit Specialist  
SIGNATURE *RaSchelle Richens* DATE 3/3/2005

(This space for State use only)

API NUMBER ASSIGNED: 43-047-36362

APPROVAL:

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 04-28-05

By: *[Signature]*

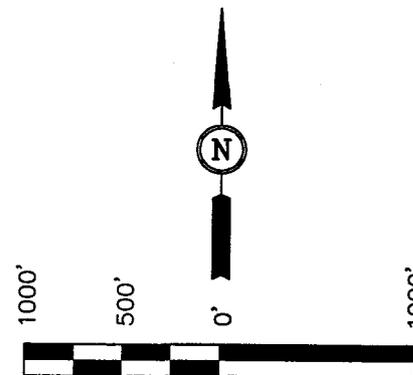
# T12S, R25E, S.L.B.&M.

## MEDALLION EXPLORATION

Well location, ATCHEE RIDGE #11-20, located as shown in the NE 1/4 SW 1/4 of Section 20, T12S, R25E, S.L.B.&M. Uintah County, Utah.

### BASIS OF ELEVATION

TRIANGULATION STATION JEK 13 LOCATED IN THE SE 1/4 OF SECTION 20, T12S, R25E, S.L.B.&M. TAKEN FROM THE RAINBOW, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6762 FEET.

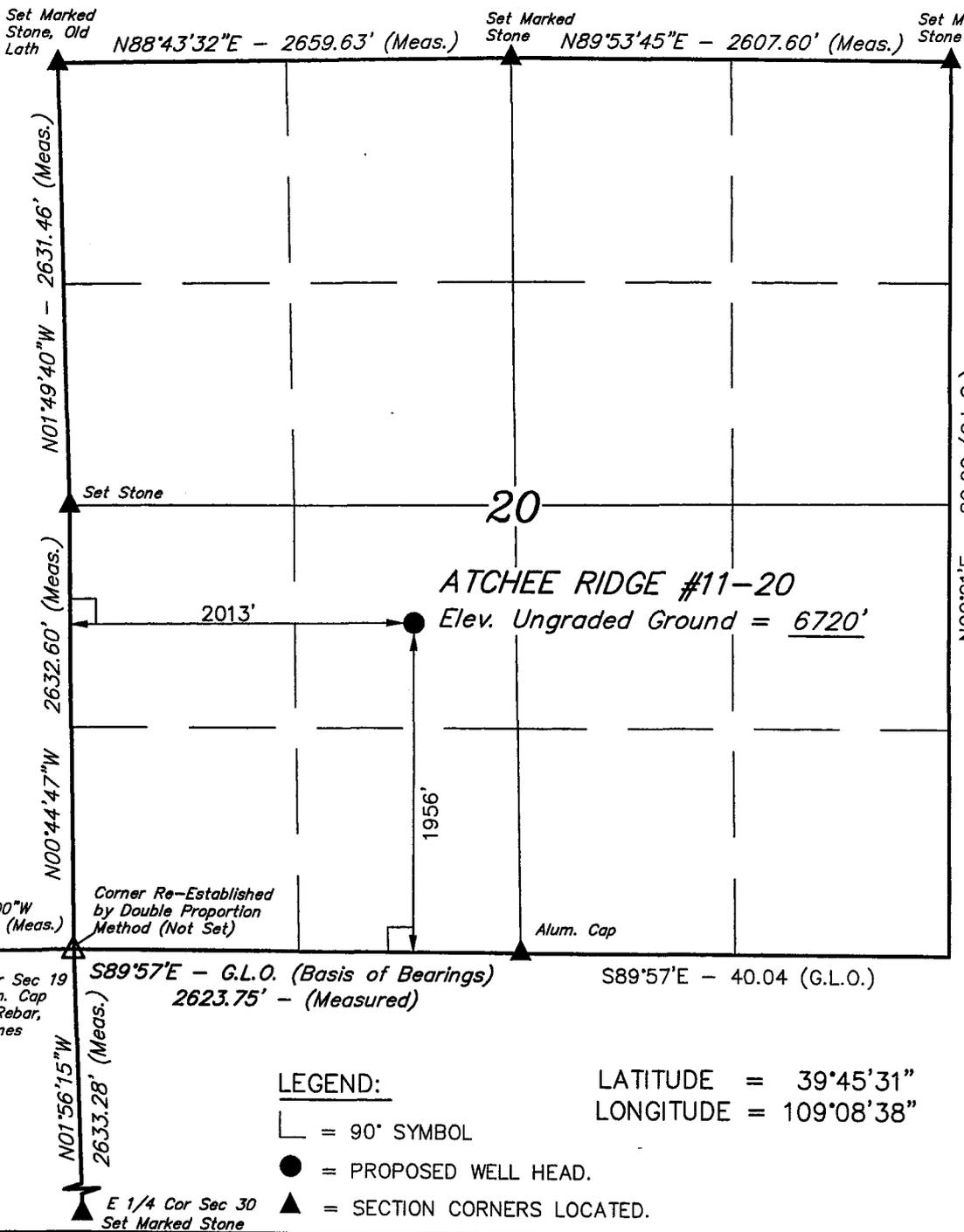


SCALE

### CERTIFICATE

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

*Robert L. Kay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 101719  
 STATE OF UTAH  
 KAY



### LEGEND:

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

LATITUDE =  $39^{\circ}45'31''$

LONGITUDE =  $109^{\circ}08'38''$

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

SCALE 1" = 1000'	DATE SURVEYED: 11-12-01	DATE DRAWN: 11-26-01
PARTY K.K. J.T. C.G.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE MEDALLION EXPLORATION	

Division of Oil, Gas and Mining  
 MEDALLION EXPLORATION  
 Atchee Ridge #11-20  
 NE1/4SW1/4 Sec. 20, T12S, R25E  
 Uintah County, Utah

LEASE NO. ML-46104  
 SEEP CANYON UNIT  
 DRILLING PLAN

**R649-8-4**

All Lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (R649-3), Utah Division of Oil, Gas and Mining and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

**1. Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Green River	Surface	+6739'
Wasatch	1552'	+5187'
Mesa Verde	2422'	+4317'
T.D	4000'	+2739'

**2. Estimated Depths of Anticipated Water, Oil, Gas or Minerals Formation**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Gas	Wasatch	1552'
Gas	Mesa Verde	2422'
Water	N/A	

All fresh water prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

**3. Pressure Control Equipment: (Schematic Attached)**

Medallion Exploration minimum specifications for pressure control equipment are as follows:

Ram Type: 10" Hydraulic double with annular, 3000 psi w.p.

Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers (if used) shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

- a. when initially installed;
- b. whenever any seal subject to test pressure is broken
- c. following related repairs; and
- d. at 30-day intervals

Valves shall be tested from working pressure side during BOPS tests with all down stream valves open.

When testing the kill line valve(s) the check valve shall be held open or the ball removed.

Annular preventers shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BOPE pit level drill shall be conducted weekly for each drilling crew.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log.

BOP systems shall be consistent with API RP53. Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The District Office should be notified, with sufficient lead time, in order to have the State representative on location during pressure testing.

- a. The size and rating of the BOP stack is shown on the attached diagram. Although a rig has not been chosen to drill this well, most of the equipment for this depth of hole in the area use a 2000 psi working pressure blowout preventor.
- b. A choke line and a kill line are to be properly installed. The kill line is not to be used as a fill-up line.

- c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
- d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

**4. Proposed Casing and Cementing Program:**

- a. The proposed casing and cementing program shall be conducted as to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth shall be based on all relevant factors, including; presence/absence of hydrocarbons; fracture gradients; usable water zones; formation pressures; lost circulation zones; other minerals; or other unusual characteristics. All indications of usable water shall be reported.
- b. Casing design shall assume formation pressure gradients of 0.44 to 0.50 psi per foot for exploratory wells (lacking better data).
- c. Casing design shall assume fracture gradients from 0.70 to 1.00 psi per foot for exploratory wells (lacking better data)
- d. Casing collars shall have a minimum clearance of 0.422 inches of all sides in the hole/casing annulus, with recognition that variances can be granted for justified exceptions.
- e. All waiting on cement times shall be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.
- f. All casing except the conductor casing, shall be new or reconditioned and tested used casing that meets or exceeds API standards for new casing.
- g. The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.
- h. All indications of usable water shall be reported to the authorized officer prior to running the next string of casing or before plugging orders are requested, whichever occurs first.

- i. Surface casing shall have centralizers on every fourth joint of casing starting with the shoe joint and up to the bottom of the cellar.
- j. Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc. shall be utilized to help isolated the cement from contamination by the mud fluid being displaced ahead of the cement slurry.
- k. All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or 1500 psi, whichever is greater, but not exceed 70 percent of the minimum internal yield. If pressure declines more than 1- percent in 30 minutes, corrective action shall be taken.
- l. On all exploratory well, and on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing how shall be preformed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- m. The proposed casing will be as follows:

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Wt.</u>	<u>Grade</u>	<u>Type</u>	<u>New or Used</u>
Surface	0-300'	12-1/4"	9-5/8"	36#	K-55	ST&C	New
Production	0-4000'	7-7/8"	5-1/2"	17#	J-55	LT&C	New

- n. Casing design subject to revision based on geologic conditions encountered. If used casing is utilized it will be tested to API standards for new or better casing.

- o. The cement program will be as follows:

<u>Surface</u>	<u>Type and Amount</u>
0-500'	295 sx Class "G" (Yield - 1.16) with 2% Cacl, .25#/sk Celloflake, Vol are 100% excess. Circulate to surface.

**Production**

**Type and Amount**

Lead with 115 sacks 28-72  
Poz (Yield -3.42) with 10%  
gel, +6lbs/sk BA-91  
Bonding, 0.5% SM +2#/sk  
KOL seal, +0.25% celloflake.  
Followed by 360 sacks Class  
"G" (Yield - 1.53) with 10%  
Gypsum, +10% salt, +4% FL-  
52.

Note: Actual volumes to be calculated from caliper log.

- p. Anticipated cement tops will be reported as to depth; not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a State representative on location while running all casing strings and cementing.
- q. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller's log.
- r. The following reports shall be filed with the Div. of Oil, Gas and Mining within 30 days after the work is completed.
  - 1. Progress reports, Form 9 (R649-8-10) "Sundry Notices and Reports on Wells", must include complete information concerning:
    - a. Setting of each string of casing, showing the size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.
    - b. Temperature or bond logs must be submitted for each well where the casing cement was not circulated to the surface.

s. Auxiliary equipment to be used is as follows:

1. Kelly cock.
2. No bit float is deemed necessary.
3. A sub with a full opening valve.

5. **Mud Program:**

a. The proposed circulating mediums to be employed in drilling are as follows:

<u>Interval</u>	<u>Mud Type</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>F/L</u>	<u>PH</u>
0-300'	Native	8.4-8.8	N/A	NC	9.0
300-4000'	LSND	8.4-8.8	36-38	10-15cc	9.0

Sufficient quantities of mud materials will be maintained or readily accessible for the purpose of assuring well control during the course of drilling operations. A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, static filtration loss, and Ph.

b. Mud monitoring equipment to be used is as follows:

1. Periodic checks will be made each tour of the mud system. The mud level will be checked visually.

c. No chromate additives will be used in the mud system on State, Federal and/or Indian lands without prior State or BLM approval to ensure adequate protection of fresh water aquifers.

d. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

e. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

6. **Evaluation Program:**

The anticipated type and amount of testing, logging and coring are as follows:

a. No drill stem tests are anticipated, however, if they are run the following will be adhered to:

Initial opening of drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer. However, DST's may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e. lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the authorized officer. Closed chamber DST's may be accomplished day or night.

A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions. This would involve provided some means for reverse circulation.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that are required to "run" during the test shall have spark arresters or water cooled exhausts.

- b. The logging program consisted of a DIL-GR form T.D. to base of surface casing with the GR to surface. A CNL-FDC and FMI will be run from T.D. to 1000' (minimum run). A DSI-GR will be run for T.D. to base of surface casing.
- c. No cores are anticipated.
- d. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 8) will be submitted no later than 30 days after completion of the well or after completion of operations being performed, in accordance with R649-8-9. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 8. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Div. of Oil, Gas and Mining.
- e. The anticipated completion program is as follows:  
The Mesa Verde and the Wasatch formations will be perforated, tested and sand fraced if necessary in sequence until a paying zone has been establish.
- f. Daily drilling and completion progress reports shall be submitted to the Div. of Oil, Gas, and Mining in SLC on a weekly basis.

7. **Abnormal Temperatures of Pressures**

- a. No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered in or known to exist from previous wells drilled to similar depths in the general area.
- b. The maximum anticipated bottom hole pressure will be approximately 900 psi at T.D.

8. **Anticipated Starting Dates and Notification of Operations**

- a. Drilling will commence immediately upon approval of this application and the availability of a Drilling Rig.
- b. It is anticipated that the drilling of this well will take approximately 5 days.
- c. The Div. of Oil, Gas and Mining shall be notified, during regular work hours (7:45 a.m. - 4:30 p.m., Monday through Friday with the exception of holidays), at least 24 hours prior to spudding the well.
- d. Operator shall report production data to Div. of Oil, Gas and Mining.
- e. The date on which productions is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.
- f. Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operation may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

- g.** No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the Div. of Oil, Gas and Mining. If operations are to be suspended, prior approval of the Div. of Oil, Gas and Mining will be obtained and notification given before resumption of operations.
- h.** The spud date will be reported orally to the Div. of Oil, Gas and Mining within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.
- i.** In accordance with R649-8-11, this well will be reported on Form 10 "Monthly Oil and Gas Production, starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Div. of Oil, Gas and Mining. 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah, 84114-5801
- j.** Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Div. of Oil, Gas and Mining.
- k.** If a replacement rig is contemplated for completion operations, a "Sundry Notice" Form 9 to that effect will be filed, for prior approval of the Div. of Oil, Gas, and Mining and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
- l.** Should the well be successfully completed for production, the Div. of Oil, Gas, and Mining will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communications, no later than 5 days following the date on which the well is placed on production.
- m.** Pursuant to Onshore Order No. 7, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the Div. of Oil, Gas and Mining.
- n.** Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the Div. of Oil, Gas and Mining and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.

- o.** A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3 and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.
- p.** A first production conference will be scheduled within 15 days after receipt of the first production notice.
- q.** No well abandonment operations will be commenced without the prior approval of the Div. of Oil, Gas and Mining. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the Div. of Oil, Gas and Mining. A "Subsequent Report of Abandonment" Form 9 will be filed with the Div. of Oil, Gas and Mining within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Div. of Oil, Gas and Mining or his representative, or the appropriate Surface Managing Agency.
- r.** Lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable State laws and regulations.

**R649-8**  
**NOTIFICATION REQUIREMENTS**

Location Construction - forty-eight (48) hours prior to construction of location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice - at least twenty-four (24) hours prior to spudding the well.

Casing string and  
Cementing twenty-four (24) hours prior to running casing and cementing all casing strings.

BOP and Related –  
Equipment Tests twenty-four (24) hours prior to initiating pressure tests.

First Production –  
Notice within five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**1. Existing Roads**

- a. The proposed well site is located approximately 24.0 miles south of Bonanza, Utah.
- b. Directions to the location from Vernal, Utah are as follows:  
Proceed in a southerly direction from Vernal, Utah along highway 45 approximately 56.9 miles to Bonanza, Utah and an existing road to the south; proceed in a southerly direction approximately 16.9 miles to Rainbow, Utah and the junction of this road and an existing road to the south; turn left and proceed in a southerly direction approximately 7.1 miles to the junction of this road and the beginning of the proposed access road to the west approximately 200' + or - miles into location
- c. For location of access roads within a 2-Mile radius, see Maps A & B.
- d. Improvement to the existing access will be approximately .1 mile +/-.
- e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
- f. Existing roads and newly constructed roads on surface under the jurisdiction of any Surface Managing Agency shall be maintained in accordance with the standards of the SMA.

**2. Planned Access Roads**

- a. Approximately 200' +/- miles of new construction will be required as shown on Map B.
- b. The maximum grade of the new construction will be approximately 5%.
- c. No turnouts are planned.
- d. No low water crossings will be necessary. There are no major cuts and fills. No culverts and/or bridges will be required.
- e. The new access road was centerline flagged at the time of staking.
- f. The use of surfacing material is not anticipated, however it may be necessary depending on weather conditions.
- g. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
- h. Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. (1989).
- i. The road will be constructed/upgraded to meet the standards of the anticipated traffic flow and all weather road requirements. Construction/upgrading shall include ditching, draining, graveling, crowing and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainage's be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.
- j. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well,. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produce, stored, transported, or disposed of in association with the drilling of this well.

There are no related structures or facilities planned at this time.

The road will be used year-round for maintenance of production facilities. Only flat blading of the existing roadway will be required at this time. No temporary work areas will be needed.

**3. Location of Existing Wells Within a 1-Mile Radius of the Proposed Location. See Map #C).**

- a. Water wells - none.
- b. Injection wells - none
- c. Producing wells - none
- d. Drilling wells - none
- e. Shut-in wells - none
- f. Temporarily abandoned wells - none
- g. Disposal wells - none
- h. Abandoned wells - none
- i. Dry Holes - none

**4. Location of Tank Batteries and Production Facilities.**

- a. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted Desert Tan (10YR613). All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.
- b. If storage facilities/tank batteries are constructed on this lease, the facility battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain at a minimum, the entire content of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.
- c. A Sundry Notice will be submitted showing placement of all production facilities prior to construction.
- d. All loading lines will be placed inside the berm surrounding the tank battery.

- e. Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flow line will be buried or anchored down from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.
- f. The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO 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 will be submitted to the Div. of Oil, Gas, and Mining once. All meter measurement facilities will conform with all regulations for liquid hydrocarbons and Onshore Oil and Gas Order No. 5 for natural gas measurement.
- g. Any necessary pits will be properly fenced to prevent any wildlife entry.
- h. All site security guidelines identified in R649-3-34 regulations will be adhered to.
- i. All off-lease storage, off-lease measurement, or commingling on-lease or off lease will have prior written approval from the Div. of Oil, Gas, and Mining.
- j. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic.
- k. The road will be maintained in a safe useable condition.

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

- a. All water needed for drilling purposes will be obtained from Evacuation Creek. A copy of the permit identifying the permit number and point of diversion is submitted with APD.
- b. Water will be hauled to location over the roads marked on Maps A and B.

**6. Source of Construction Material**

- a. Surface and subsoil materials in the immediate area will be utilized.
- b. Any gravel used will be obtained from a commercial source.
- c. No construction materials will be removed from State land.

7. **Methods of Handling Waste Disposal**

- a. The reserve pit will be constructed so as not to leak, break, or allow discharge. If fractured rock is encountered, a 12 mil plastic nylon reinforced liner will be utilized. The pit will be first lined with sufficient bedding (either straw or dirt) to cover any rocks. The 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. More stringent protective requirements may be deemed necessary by the Div. of Oil, Gas, and Mining. If a pit liner is deemed to be unnecessary, the pit must be inspected by a representative of the Div. Of oil, Gas, and Mining prior to putting fluids in the pit.
- c. Burning will not be allowed. All trash will be contained in a trash cage and its contents removed at the end of drilling operations and hauled to an approved disposal sight.
- d. Drill cuttings are to be contained and buried in the reserve pit.
- e. 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.
- f. A chemical porta-toilet will be furnished with the drilling rig.
- g. The produced fluids 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.

8. **Ancillary Facilities**

There are no airstrips, camps or other facilities planned during the drilling of the proposed well.

9. **Well Site Layout**

- a. The operator or his/her contractor shall contact the Div. of Oil, Gas, and Mining forty-eight (48) hours prior to construction of activities.
- b. The reserve pit will be located on the east side of the location.
- c. The flare pit will be located downwind of the prevailing wind direction on the southeast side, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.
- d. The stockpiled topsoil (first six inches) will be stored on the eastside corner of the location between points B & 6.

- e. Access to the well pad will be from the north between points 3 and 4.
- f. See location layout for orientation of rig, cross section of drill pad and cuts and fills.
- g. The location of mud tanks; reserve pit, trash cage; pipe racks; living facilities and soil stockpiles will be shown on the location layout.
- h. During construction, all brush will be removed from the well pad and access road and stockpiled separately from the topsoil.
- i. All pits will be fenced according to the following minimum standards.
  - 1. 39 inch net wire shall be used with at least one strand or barbed wire on top of the net wire (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
  - 2. The net wire shall be no more than 2-inches above the ground. The barbed wire shall be 3-inches above the net wire. Total height of the fence shall be at least 42-inches.
  - 3. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
  - 4. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
  - 5. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.
- J. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until cleanup.

10. **Plans for Restoration of Surface**

**Producing Location**

- a. Immediately upon well completion the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash and junk not required for production.

- b. Immediately upon well completion, any hydrocarbons on the pit shall be removed.
- c. The plastic nylon reinforced liner shall be torn and perforated before backfilling of the reserve pit.
- d. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximate natural contours.

The reserve pit will be reclaimed within 120 days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed and all cans, barrels, pipe, etc., will be removed.

- e. Reclamation of unused disturbed areas on the well pad/access road no longer needed for operations, such as cut slopes, and fill areas will be accomplished by grading, leveling and seeding as recommended by the Div. of Oil, Gas, and Mining.

The seed mixture for reclamation work will be a sight specific mixture as recommended by the authorized officer of the Div. of Oil, Gas, and Mining the time of reclamation. Seeding will be performed in the fall after September 15 or until permanent ground freeze. Any other seeding period will require the approval of the authorized officer.

#### **Dry Hole**

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and Div. of Oil, Gas, and Mining will attach the appropriate surface rehabilitation conditions of approval.

#### **11. Surface Ownership**

Access Roads - All roads are County maintained.

Wellpad - The well pad is located on State lands

#### **12. Other Information**

- a. A Class III archeological survey was conducted by Montgomery Archaeological Consultants. No cultural resources were found and clearance has been recommended. A copy of this is attached.

- b. The operator is responsible for informing all persons in the areas who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archeological sites, or for collecting artifacts. If historic or archeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the Div. of Oil, Gas, and Mining. Within five working days the Div. of Oil, Gas, and Mining will inform the Operator as to:
- whether the materials appear eligible for the National Register of Historic Places;
  - the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
  - A time frame for the AO to complete and expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate. If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.
- c. The operator will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the appropriate County Extension Office.
- d. Drilling rig and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if authorization is obtained, it is only a temporary measure.
- e. All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.
- f. A complete copy of the approved APD shall be on location during construction of the location and drilling activities.
- g. There will be no deviation from the proposed drilling and/or workover program without prior approval from the Division of Oil, Gas and Mining. Safe drilling and operating practices must be observed. All wells whether drilling, producing, suspended or abandoned will be identified in accordance with 43 CFR 3162.

Division of Oil, Gas & Mining  
Medallion Exploration, Inc.  
Atchee Ridge 11-20  
NE1/4SW1/4 SEC. 20, T12S, R25E  
Uintah County, Utah

LEASE NO. ML-46104  
SEEP CANYON UNIT  
SURFACE USE PLAN

- h. "Sundry Notice and Report on Wells" (Form 9) will be filed for approval for all changes of plans and other operations.
- i. This permit will be valid for a period of one year from the date of approval. An extension period may be granted, if requested, prior to the expirations of the original approval period. After permit termination, a new application will be filed for approval for any future operations.
- j. The operator or his contractor shall contact the Division of Oil, Gas and Mining at 801-538-5277 48 hours prior to construction activities.
- k. The Division of Oil, Gas and Mining shall be notified upon site completion prior to moving on the drilling rig.
- l. In the event after-hours approvals are necessary, please contact the following individual.

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

Permit Matters  
Drilling & Completion Matters

RaSchell Richens  
6985 Union Park Center, Ste. 375  
Midvale, Utah 84047  
801-566-7400 Office  
801-566-7477 Fax  
801-842-3637 Cell

**Certification**

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

This statement is subject to the provisions of 18.U.S.C.100 for the filing of a false statement.

  
-----  
RaSchelle Richens - Permitting

CULTURAL RESOURCE INVENTORY OF  
MEDALLION EXPLORATION'S SIX PROPOSED  
WELL LOCATIONS, ATCHEE RIDGE SWD,  
#2-20, #3-20, #6-20, #7-20 AND #11-20  
UINTAH COUNTY, UTAH

Katie Simon  
and  
Keith R. Montgomery

CULTURAL RESOURCE INVENTORY OF  
MEDALLION EXPLORATION'S SIX PROPOSED  
WELL LOCATIONS, ATCHEE RIDGE SWD,  
#2-20, #3-20, #6-20, #7-20 AND #11-20  
UINTAH COUNTY, UTAH

By:

Katie Simon  
and  
Keith R. Montgomery

Prepared For:

State of Utah  
School and Institutional  
Trust Lands Administration

Prepared Under Contract With:

Medallion Exploration  
6985 Union Park Center, Suite 375  
Midvale, UT 84047

Prepared By:

Montgomery Archaeological Consultants  
P.O. Box 147  
Moab, Utah 84532

MOAC Report No. 04-299

December 3, 2004

United States Department of Interior (FLPMA)  
Permit No. 04-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-04-MQ-1383s

## ABSTRACT

A cultural resource inventory was conducted by Montgomery Archaeological Consultants (MOAC) in November 2004 for Medallion Exploration's six proposed well locations on Atchee Ridge, Uintah County, Utah. The proposed well locations are designated Atchee Ridge SWD, #2-20, #3-20, #6-20, #7-20, and #11-20. The six proposed well locations with associated access routes are located in Township 12 South, Range 25 East, Section 20. A total of 64 acres was inventoried on land administered by State of Utah School and Institutional Trust Lands Administration (SITLA).

The inventory of Medallion Exploration's six proposed well locations resulted in the documentation of two new historic archaeological sites. Both of these sites are small, low density historic temporary camps. They possess limited artifact assemblages and are common site types to the area. The sites are evaluated as not eligible to the NRHP as they lack potential for providing information relevant to the history of the area. Based on these findings, recommendation of "no historic properties affected" pursuant to Section 106, CFR 800 is proposed for this project.

## INTRODUCTION

In November 2004 Montgomery Archaeological Consultants (MOAC) inventoried Medallion Exploration's proposed Atchee Ridge well locations SWD, #2-20, #3-20, #6-20, #7-20, and #11-20. The project area is on Atchee Ridge about 50 miles south of the town of Vernal, Uintah County, Utah. The survey was implemented at the request of Ms. RaSchelle Richens, Medallion Exploration, Midvale, Utah. The project area occurs on property of the State of Utah School and Institutional Trust Lands Administration (SITLA).

The objectives of the inventory were to locate, document, and evaluate any cultural resources within the project area in accordance with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). Also, the inventory was implemented to attain compliance with a number of federal and state mandates, including the National Historic Preservation Act (NHPA) of 1969 (as amended), the Archaeological and Historic Conservation Act of 1974, the Archaeological Resources Protection Act of 1979, and the American Indian Religious Freedom Act of 1978.

The fieldwork was performed on November 3 and 4, 2004 by Mark Bond, Mark Lane and Katie Simon under the direction of Keith R. Montgomery (Principal Investigator). Permits issued to MOAC for this project are U.S.D.I. (FLPMA) Permit No. 04-UT-60122 and State of Utah Antiquities Permit (Survey) No. U-04-MQ-1383b issued to MOAC. A file search was performed by Marty Thomas at the Utah Division of State History (May 17, 2004). This consultation indicated that several inventories have been completed in the area. In 1995, Metcalf Archaeological Consultants surveyed a well location for Amoco Productions which resulted in the documentation of a prehistoric isolated find (Spath 1995). Senco-Phenix inventoried four well locations for Medallion Exploration in 1998; no cultural resources were found (Senulis 1998). In 2000, Montgomery Archaeological Consultants surveyed the Medallion Exploration's Seep Canyon pipeline (Montgomery 2000). The inventory resulted in the documentation of an eligible cattle line camp (42Un2744) and an ineligible well (42Un2745). In 2004, MOAC inventoried one well location for Medallion that resulted in no cultural resources (Montgomery 2004). None of these cultural resources occur in the immediate project area.

## DESCRIPTION OF PROJECT AREA

The project area occurs east of East Seep Canyon, along Atchee Ridge road in the Uintah Basin. The six proposed well locations with associated access routes are located in Township 12 South, Range 25 East, Section 20 (Table 1 and Figure 1).

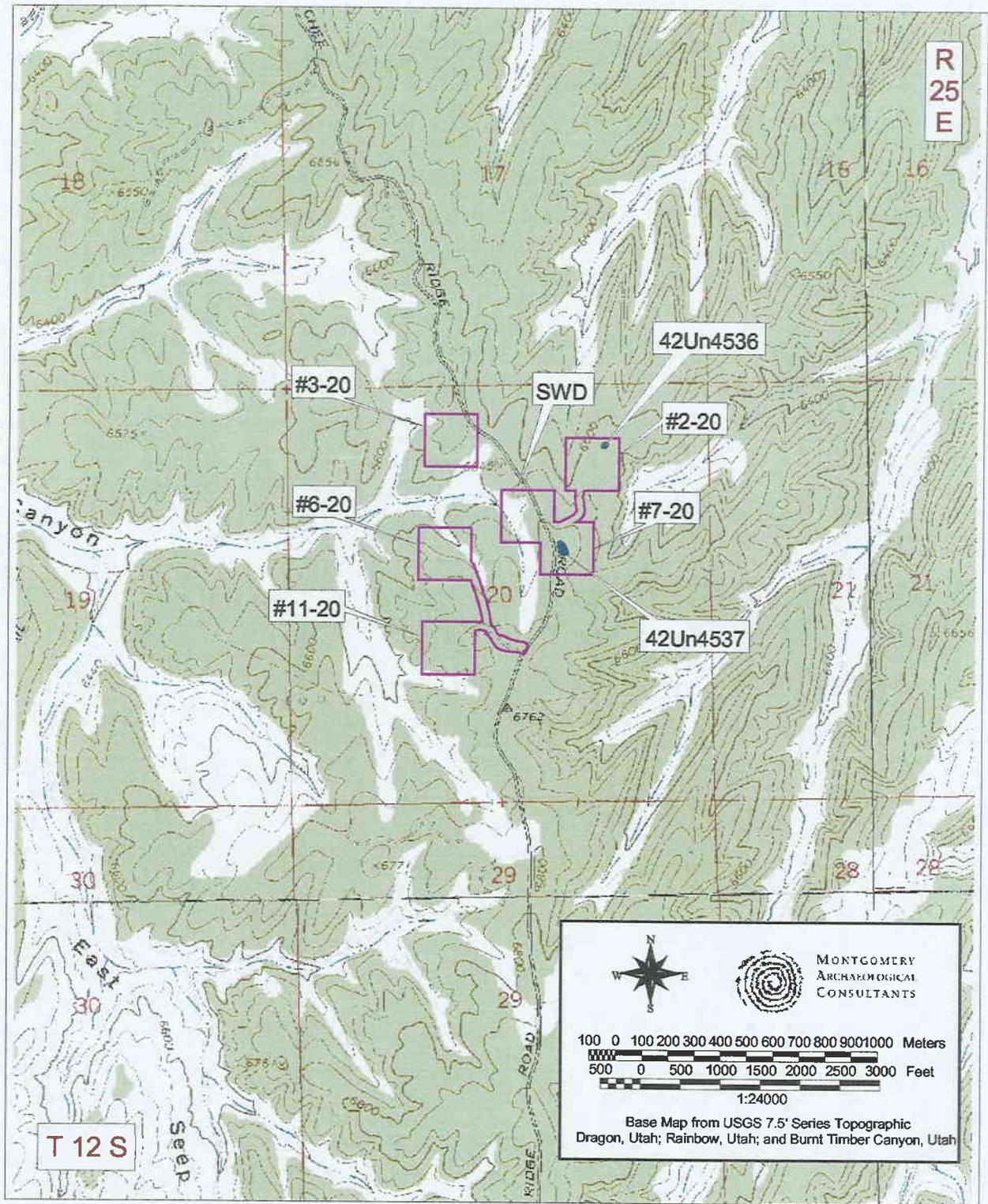


Figure 1. Medallion Exploration's Six Proposed Well Locations, Uintah County, UT.

Table 1. Medallion Exploration's Six Proposed Well Locations with Legal Descriptions, Land Status, Access Corridor Lengths, and Cultural Resources

Well Location Designation	Well Pad Legal Location	Access	Cultural Resources
Atchee Ridge SWD	T 12 S, R 25 E, Sec. 20 SW/NE	100 ft	None
Atchee Ridge #2-20	T 12 S, R 25 E, Sec. 20 NW/NE	1,050 ft	42Un4536
Atchee Ridge #3-20	T 12 S, R 25 E, Sec. 20 NE/NW	300 ft	None
Atchee Ridge #6-20	T 12 S, R 25 E, Sec. 20 SE/NW	520 ft	None
Atchee Ridge #7-20	T 12 S, R 25 E, Sec. 20 SW/NE	520 ft	42Un4537
Atchee Ridge #11-20	T 12 S, R 25 E, Sec. 20 NE/SW	520 ft	None

### Environment

The study area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The Uinta Basin ecosystem is within the Green River drainage, considered to be the northernmost extension of the Colorado Plateau. Topographically, this area consists of north-south trending interfluvial ridges dissected by extensive draws and canyons. The geology is comprised of Quaternary and Tertiary age deposits which include sedimentary rocks. The Green River Formation is predominate in the project area, and contains claystone, sandstone, and carbonate beds. The soil in the area consists of shale and silt. Elevations in the inventory area range between 6560 and 6720 feet. Vegetation is dominated by a pinyon-juniper and sagebrush community intermixed with mountain mahogany, prickly pear cactus, greasewood, and grasses. The nearest permanent water source in the area is Evacuation Creek located approximately 5 miles to the east, although intermittent springs occur in East Seep Canyon. Fauna which inhabit the area include deer, antelope, rabbits, badgers, ground squirrels, prairie dogs, and various other rodents and reptiles. Modern disturbances to the landscape include well locations, access roads, pipelines, and livestock grazing.

## SURVEY METHODOLOGY

An intensive pedestrian survey was performed for this project which is considered 100% coverage. At the proposed well location, a ten acre or larger area centered on the center stake of the location was surveyed by the archaeologist walking parallel transects spaced no more than 10 m (30 ft) apart. The access corridor was 100 feet wide, surveyed by walking parallel transects along the staked centerline, spaced no more than 10 m (30 ft) apart. Ground visibility was considered to be good. A total of 64 acres was inventoried on land administered by SITLA.

## RESULTS AND CONCLUSIONS

The inventory of Medallion Exploration's proposed Atachee Ridge well locations SWD, #2-20, #3-20, #6-20, #7-20, and #11-20 with access roads resulted in the documentation of two new archaeological sites (42Un4536 and 42Un4537).

### Archaeological Site

Smithsonian Site No.: 42Un4536  
Land Status: SITLA  
Well Location: Atchee Ridge #2-20  
NRHP Eligibility: Not Eligible

Description: This site is a small, low density historic camp situated on the eastern slope of a north-south trending ridge. It consists of an artifact scatter and a brush enclosure with a stove platform inside. The artifact assemblage includes two tobacco tins, one sanitary can, two hole-in-top milk cans, two sanitary food cans and scattered axe-cut wood. Feature A is a stove platform measuring 32 x 18 inches and consists of five tabular sandstone rocks averaging 15 x 6 x 2" in size. The stones appear to have originally formed a flat surface and functioned as a stove platform. All exhibit red-orange oxidation. Five axe-cut wood pieces are located near the feature. No charcoal or soil staining was observed. One 1 lb. coffee can was present within the feature. Feature B is a brush enclosure measuring 25 feet in diameter, up to 3 feet high, and 4 feet wide. It consists of felled pinyon and juniper trees and branches aligned in a roughly circular formation with a large pinyon tree on the western side. Feature A is located within this enclosure. Axe-cut wood was observed throughout the site and surrounding area. Site 42Un4536 is a common site type in the area and fails to be associated with important people or events significant to the past. Therefore, it is recommended as not eligible to the NRHP due to its lack of potential to yield additional information important to the history of the area.

Smithsonian Site No.: 42Un4537  
Land Status: SITLA  
Well Location: Atchee Ridge #7-20  
NRHP Eligibility: Not Eligible

Description: This site is a small, low density historic camp situated on the eastern slope of a north-south trending ridge. The artifact assemblage includes three baking soda tins, one KC Baking Powder tin, one hole-in-top milk can, four lids, and one purple glass bottle finish. In addition, 20+ long, de-limbed wood poles. Five of these are 9-11 feet long and 3-5 inches in diameter, while the remaining 15+ are slightly shorter. Five of these poles are laid vertically across the live branches of a pinyon and a juniper tree. One 11 inch piece of 6 x 1" milled wood is also present and axe-cut and saw-cut wood was observed throughout the site and greater surrounding area. The site also includes one depression feature situated between a juniper and a pinyon. It measures 6 feet in diameter and 9 inches at it's deepest point (the center). Just northwest of the feature is a scatter of 15+charcoal pieces. Site 42Un4537 is a common site type in the area and fails to be associated with important people or events significant to the past. Therefore, it is recommended as not eligible to the NRHP due to its lack of potential to yield additional information important to the history of the area.

## NATIONAL REGISTER OF HISTORIC PLACES EVALUATION

The National Register Criteria for Evaluation of Significance and procedures for nominating cultural resources to the National Register of Historic Places (NRHP) are outlined in 36 CFR 60.4 as follows:

The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of State and local importance that possess integrity of location, design, setting, material, workmanship, feeling, and association, and that they:

- a)...are associated with events that have made a significant contribution to the broad patterns of our history; or
- b)...are associated with the lives of persons significant to our past; or
- c)...embody the distinctive characteristics of a type, period, or method of construction; or that represents the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- d)...have yielded or may be likely to yield information important in prehistory or history.

The inventory of Westport Oil and Gas Company's proposed state #1022-36J well location with associated access and pipeline corridors resulted in the location of one previously recorded ineligible historic temporary camp (42Un3091) and the documentation of one new historic site (42Un3696). Site 42Un3696 is a historic rock cairn which lacks any associated artifacts. The feature fails to exhibit significant structural attributes and is a common site type in the area. It is recommended as not eligible to the NRHP since it is unlikely to contribute to the historic research domains of the area.

### MANAGEMENT RECOMMENDATIONS

The inventory of Medallion Exploration's proposed Atachee Ridge well locations SWD, #2-20, #3-20, #6-20, #7-20, and #11-20 with access roads resulted in the documentation of two new historical archaeological sites (42Un4536 and 42Un4537) which are recommended as not eligible to the NRHP. On the basis of the findings, a recommendation of "no historic properties affected" pursuant to Section 106, CFR 800 is proposed for this project.

## REFERENCES CITED

Montgomery, K.R.

2000 Cultural Resource Inventory of Medallion Exploration's Seep Canyon Pipeline, Uintah County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report No. U-00-MQ-0716b.

2004 Cultural Resource Inventory of Medallion Exploration's Proposed Well Location Atchee Ridge 16-19 #1, Uintah County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report No. U-04-MQ-0452s.

Senulis, J.A.

1998 An Intensive Cultural Resource Survey and Inventory of the Proposed Oil Springs #1; Seep Canyon State #30-12-25, Atchee Ridge State #2-29-12-25, Atchee State #20-12-25 and Atchee State #1-29-12-25 Well Pads and Access Roads, Uintah County, Utah. Senco-Phenix, Mount Pleasant, Utah. Report No. U-98-SC-0347.

Spath, C.

1995 Amoco Production's Proposed Seep Canyon #24-19-12-25 Well Pad and Access, Section 19, T12S, R25E, Uintah County, Utah. Class III Cultural Resource Inventory. Metcalf Archaeological Consultants, Inc., Eagle, Colorado. Report No. U-95-MM-044.

Stokes, W.L.

1986 *Geology of Utah*. Utah Museum of Natural History and Utah Geological and Mineral Survey. Salt Lake City.

# MEDALLION EXPLORATION

## ATCHEE RIDGE #11-20

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 20, T12S, R25E, S.L.B.&M.



PHOTO: VIEW OF WELL LOCATION STAKE

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

11 15 01  
MONTH DAY YEAR

PHOTO

TAKEN BY: J.T.

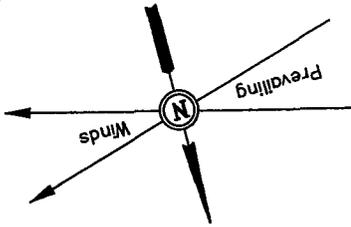
DRAWN BY: K.G.

REVISED: 00-00-00

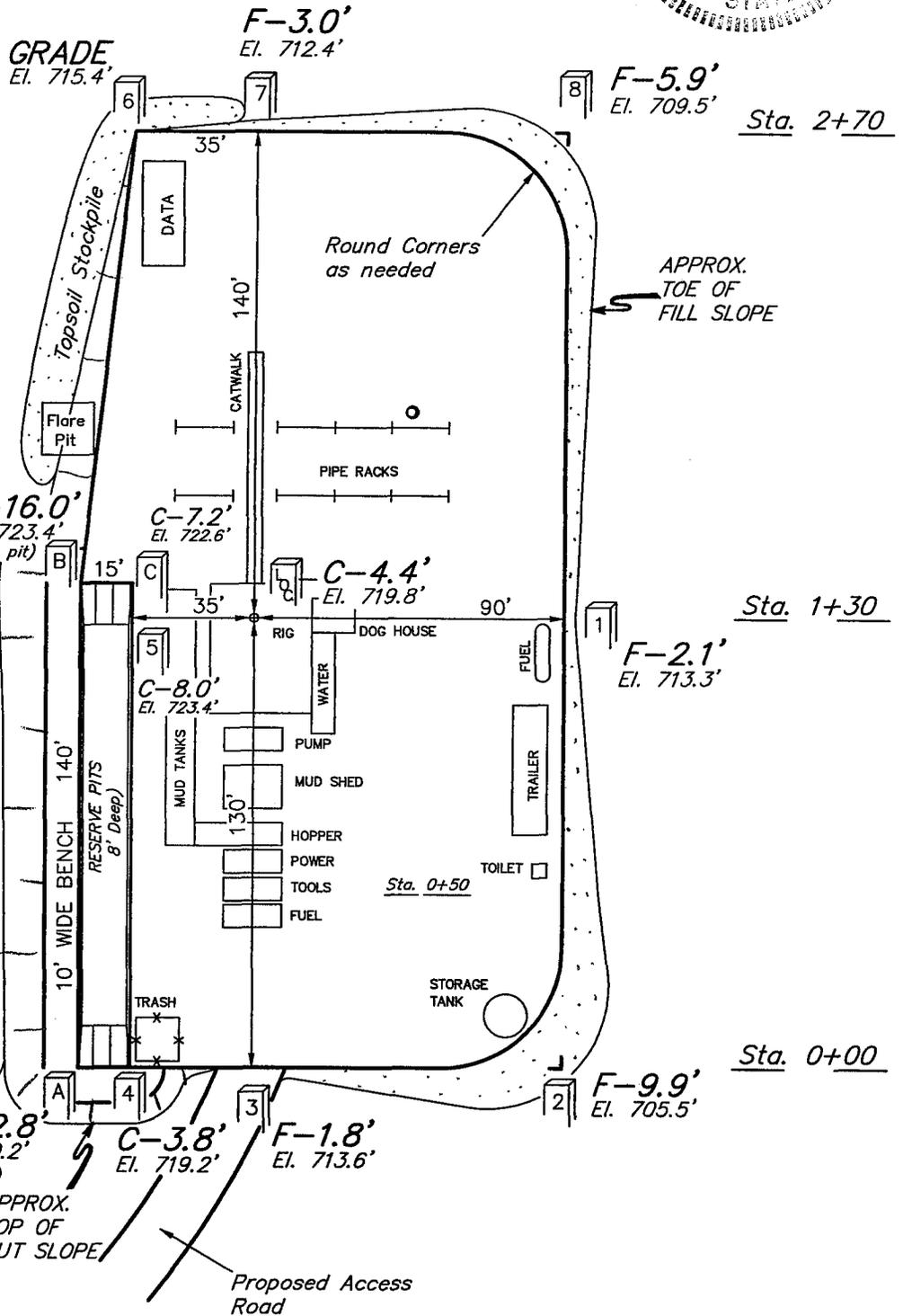
# MEDALLION EXPLORATION

LOCATION LAYOUT FOR

ATCHEE RIDGE #11-20  
SECTION 20, T12S, R25E, S.L.B.&M.  
1956' FSL 2013' FWL



SCALE: 1" = 50'  
DATE: 11-26-01  
Drawn By: C.G.



Pit Capacity With  
2' of Freeboard  
is ± 1,840 Bbls.

**FIGURE #1**

Elev. Ungraded Ground at Location Stake = 6719.8'  
Elev. Graded Ground at Location Stake = 6715.4'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

# MEDALLION EXPLORATION

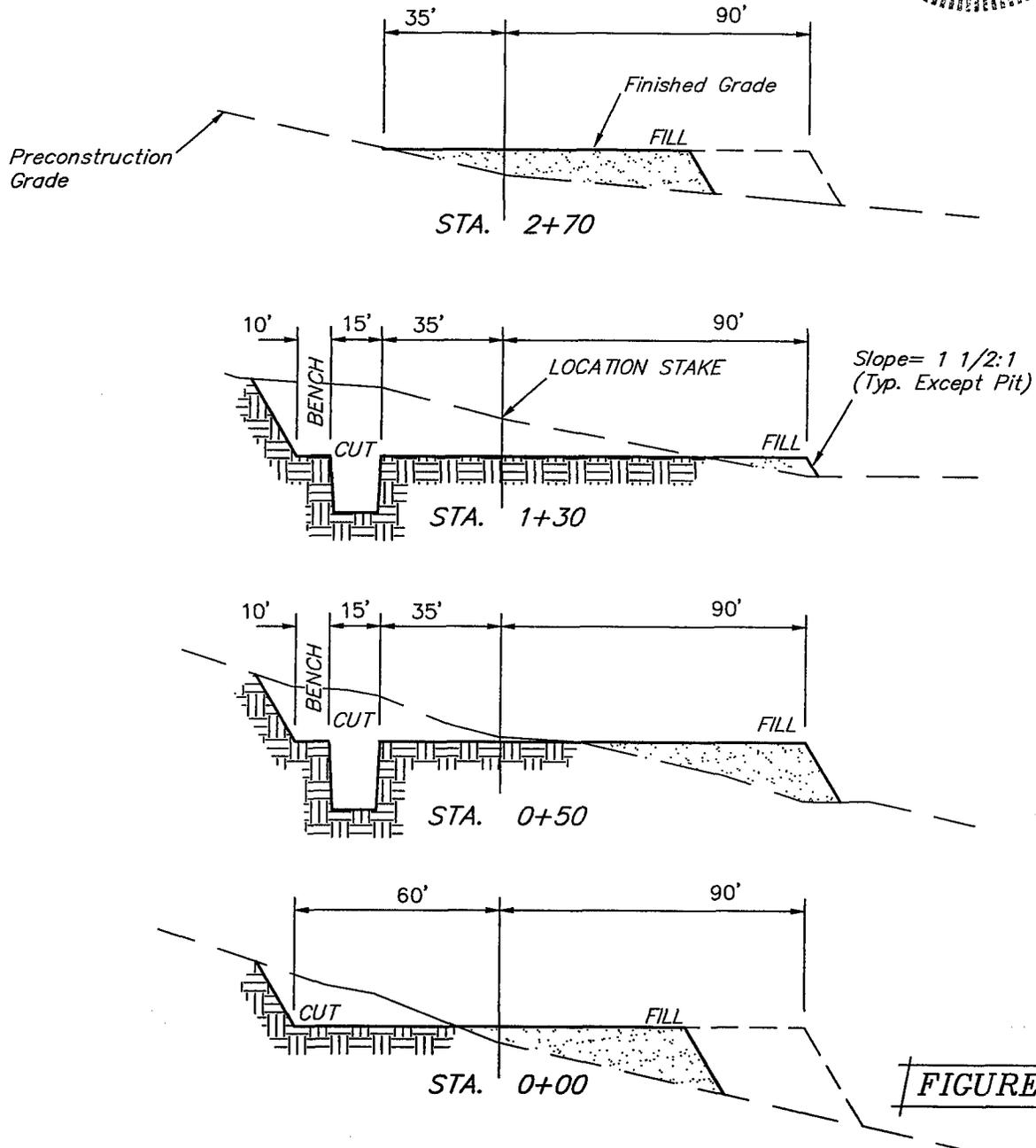
## TYPICAL CROSS SECTIONS FOR

ATCHEE RIDGE #11-20  
SECTION 20, T12S, R25E, S.L.B.&M.  
1956' FSL 2013' FWL



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

DATE: 11-26-01  
Drawn By: C.G.



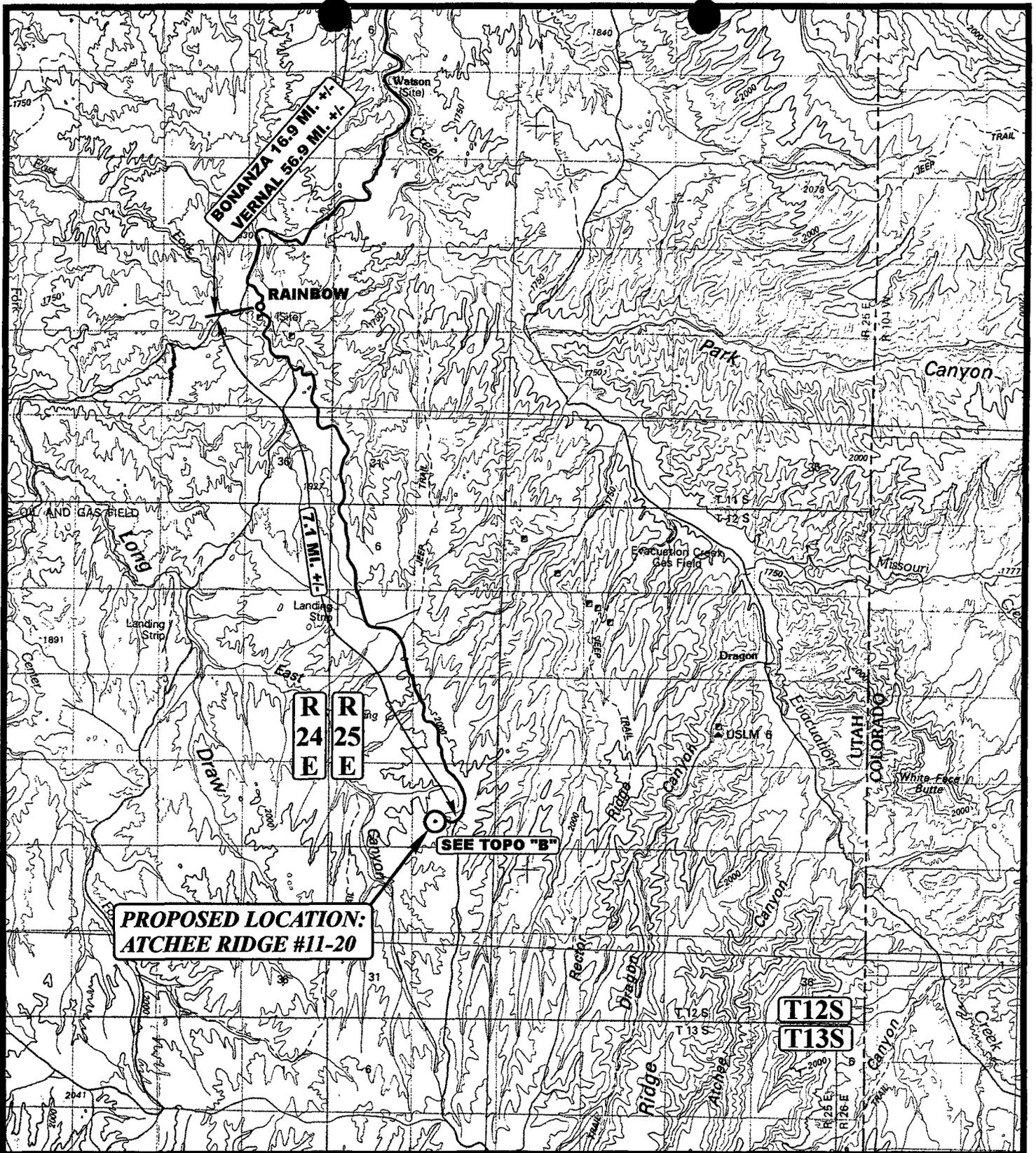
**FIGURE #2**

### APPROXIMATE YARDAGES

CUT		
(6") Topsoil Stripping	= 720	Cu. Yds.
Remaining Location	= 3,230	Cu. Yds.
<b>TOTAL CUT</b>	<b>= 3,950</b>	<b>CU.YDS.</b>
<b>FILL</b>	<b>= 2,810</b>	<b>CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 990	Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 990	Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0	Cu. Yds.

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**PROPOSED LOCATION:  
ATCHEE RIDGE #11-20**

**SEE TOPO "B"**

**R  
24  
E**

**R  
25  
E**

**T12S**

**T13S**

**LEGEND:**

○ PROPOSED LOCATION

**MEDALLION EXPLORATION**

**ATCHEE RIDGE #11-20  
SECTION 20, T12S, R25E, S.L.B.&M.  
1956' FSL 2013' FWL**

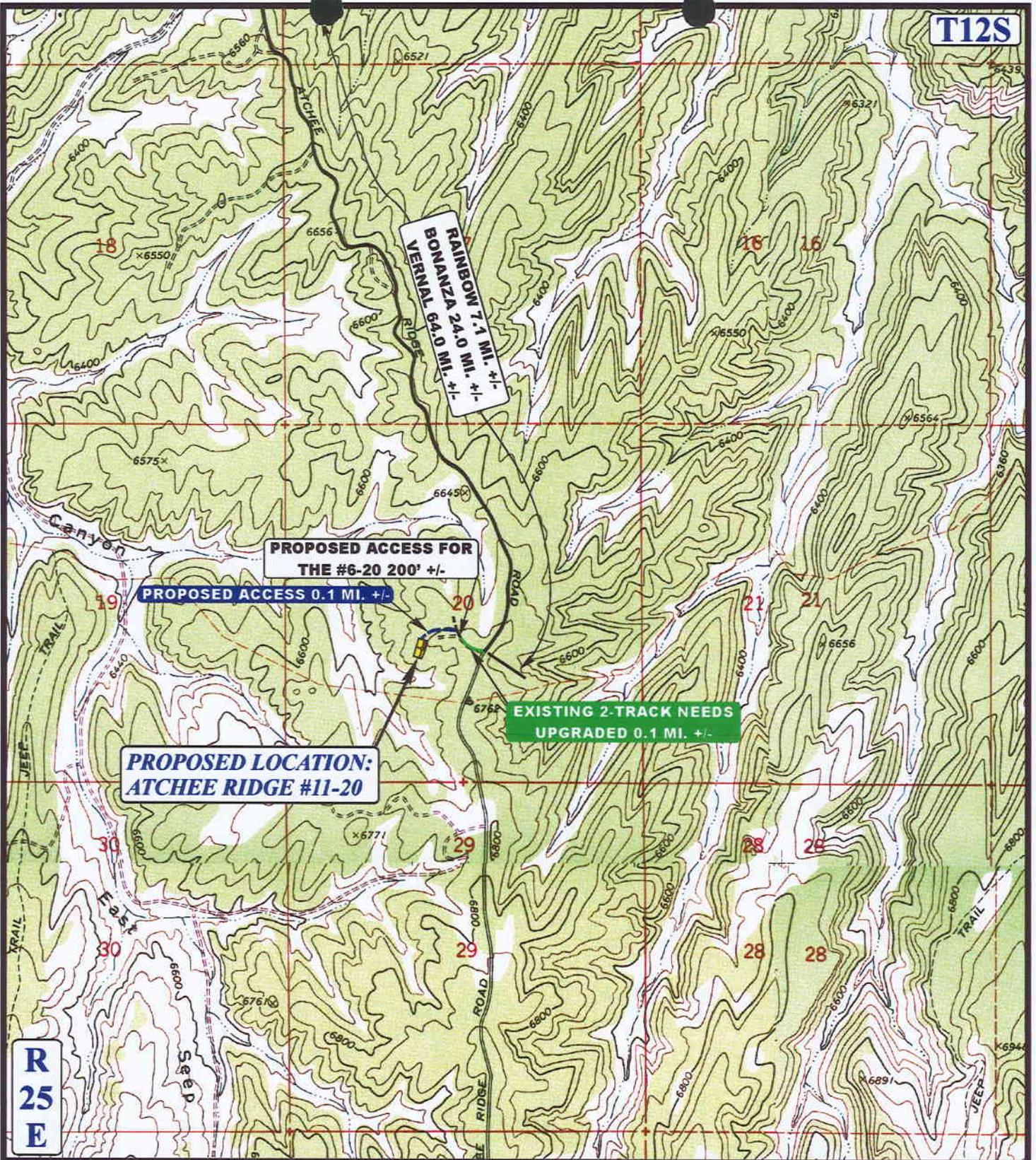
**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC MAP** **11 15 01**  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: K.G. REVISED: 00-00-00 **A**  
TOPO

T12S



R  
25  
E

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD

**MEDALLION EXPLORATION**

**ATCHEE RIDGE #11-20**  
**SECTION 20, T12S, R25E, S.L.B.&M.**  
**1956' FSL 2013' FWL**

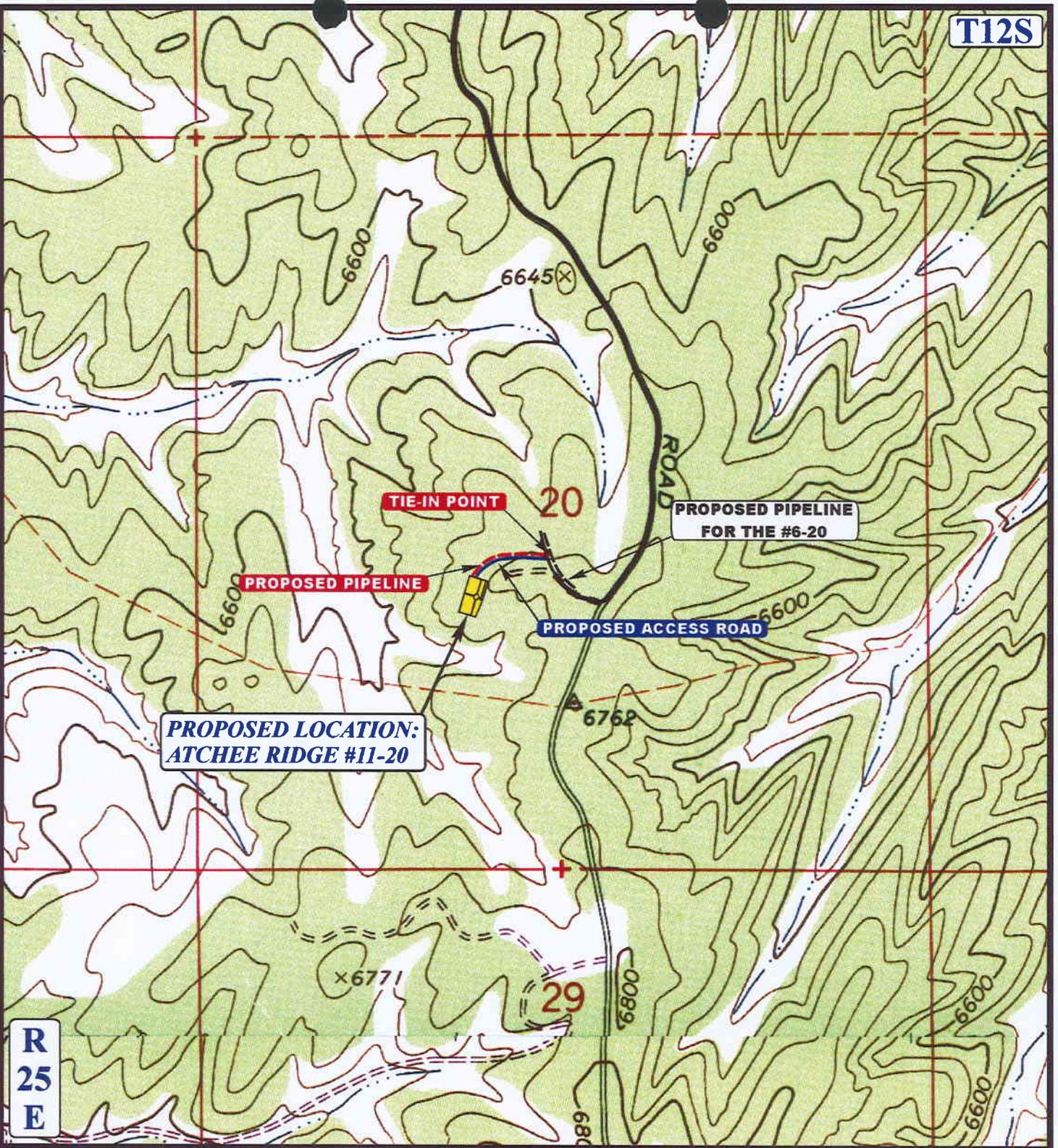


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 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** **11 15 01**  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: K.G. REVISED: 00-00-00



T12S



R  
25  
E

**APPROXIMATE TOTAL PIPELINE DISTANCE = 500' +/-**

**LEGEND:**

- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED ACCESS



**MEDALLION EXPLORATION**

**ATCHEE RIDGE #11-20**  
**SECTION 20, T12S, R25E, S.L.B.&M.**  
**1956' FSL 2013' FWL**



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

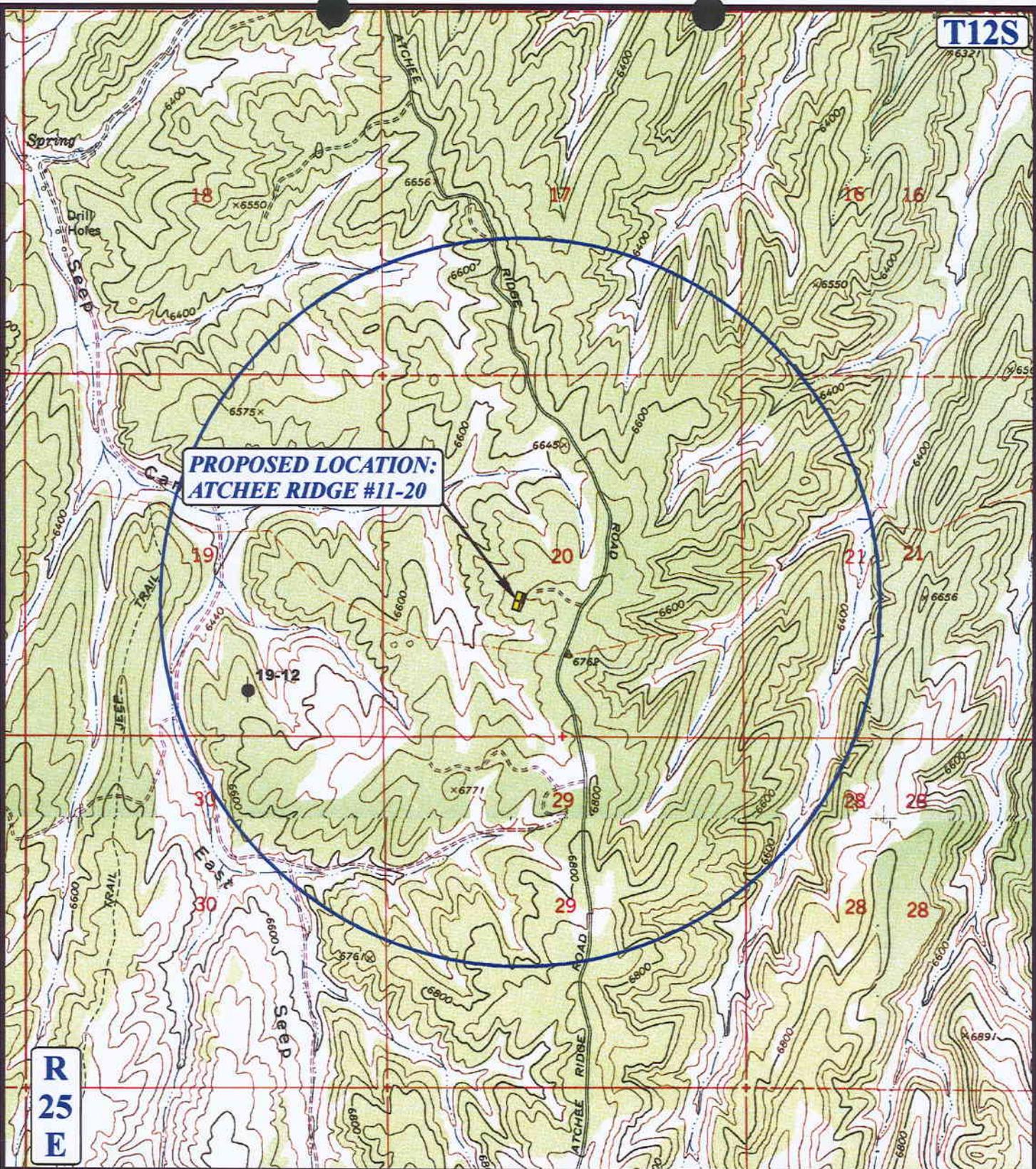
<b>TOPOGRAPHIC</b>	<b>11</b>	<b>15</b>	<b>01</b>
<b>MAP</b>	MONTH	DAY	YEAR
SCALE: 1" = 1000'	DRAWN BY: K.G.		REVISED: 00-00-00



T12S

R  
25  
E

**PROPOSED LOCATION:  
ATCHEE RIDGE #11-20**



**LEGEND:**

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



**MEDALLION EXPLORATION**

**ATCHEE RIDGE #11-20**  
**SECTION 20, T12S, R25E, S.L.B.&M.**  
**1956' FSL 2013' FWL**



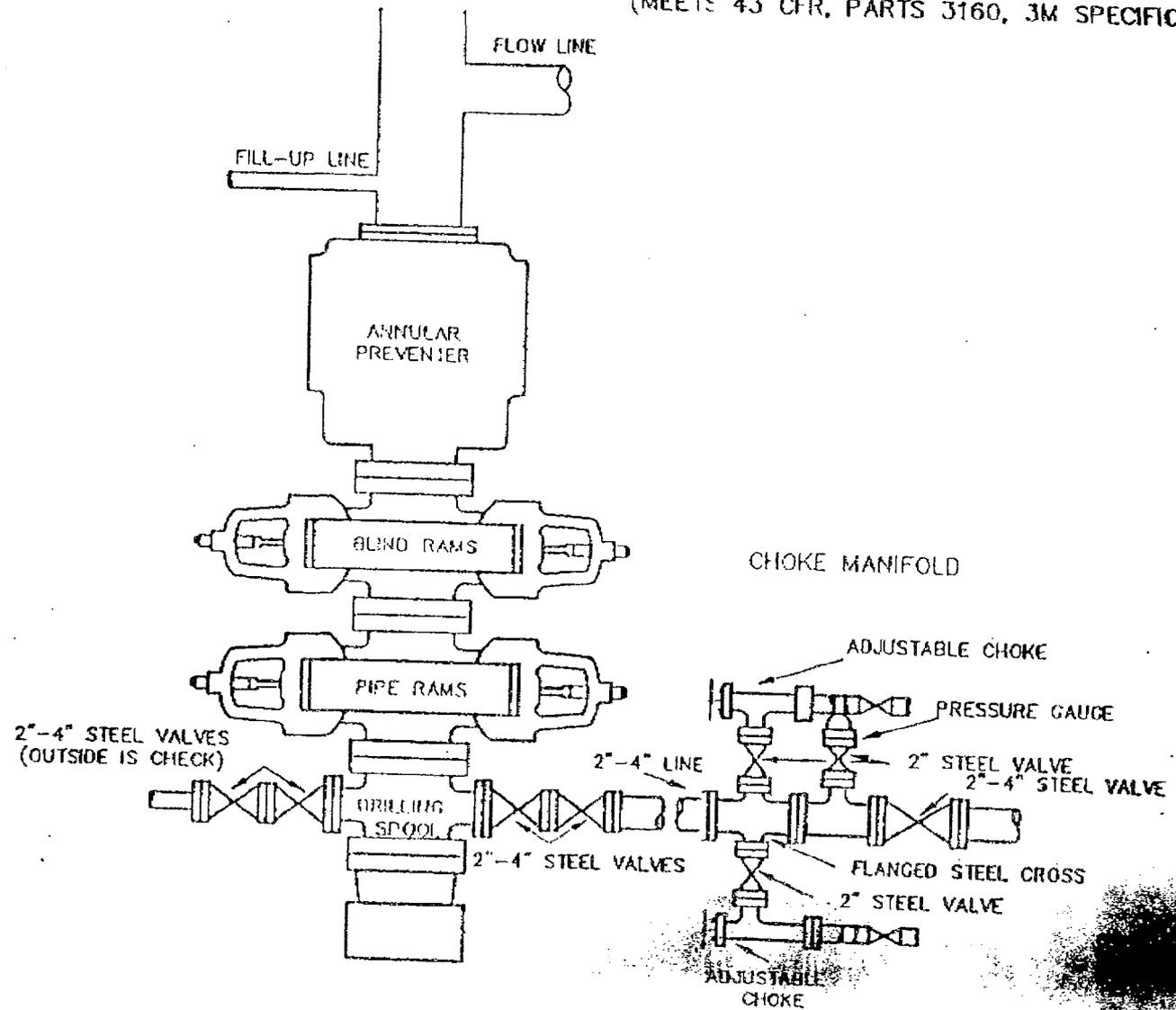
**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** **3** **2002**  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: C.G. REVISED: 00-00-00



Typical BOP Equipment. Actual Configuration May Vary Slightly But Will Conform With Onshore Order No. 2

THREE PREVENTER HOOKUP  
CLASS III  
(MEETS 43 CFR, PARTS 3160, 3M SPECIFICATIONS)



1011724915

**RECEIVED**  
**MAY 06 2004**  
**WATER RIGHTS**  
**VERNAL**

**TEMPORARY APPLICATION  
 TO APPROPRIATE WATER**

Rec. by B<sup>Y</sup>MW  
 Fee Paid \$ 750.00 *Utah 03/07/04*  
 Receipt # 01-219076

**STATE OF UTAH**

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Title 73, Chapter 3, Utah Code Annotated 1953, as amended.

WATER RIGHT NUMBER: 49 - 2178  
 (DLS)

TEMPORARY APPLICATION NUMBER: T75376

\*\*\*\*\*

**1. OWNERSHIP INFORMATION:**

LAND OWNED? No

A. NAME: Dalbo Inc.  
 ADDRESS: P. O. Box 1168  
 Vernal UT 84078

B. PRIORITY DATE: May 6, 2004

FILING DATE: May 6, 2004

**2. SOURCE INFORMATION:**

A. QUANTITY OF WATER: 10.0 acre-feet

B. SOURCE: Evacuation Wash and White River

COUNTY: Uintah

**C. POINTS OF DIVERSION -- SURFACE:**

- (1) N 400 feet W 1,850 feet from E $\frac{1}{4}$  corner, Section 02, T 10S, R 24E, SLBM  
 DIVERT WORKS: Pump into tank trucks  
 SOURCE: White River
- (2) N 1,700 feet W 10 feet from SE corner, Section 02, T 12S, R 25E, SLBM  
 DIVERT WORKS: Pump into tank trucks  
 SOURCE: Evacuation Wash

D. COMMON DESCRIPTION: 3 miles south of Bonariza

**3. WATER USE INFORMATION:**

OIL EXPLORATION: from May 15 to May 1 Drilling and completion of oil/gas wells  
 in South Bonanza area.  
 Period of Use - May 14, 2004 to May 14, 2005.

**4. PLACE OF USE: (which includes all or part of the following legal subdivisions:)**

BASE TOWN RANG SEC	NORTH-WEST $\frac{1}{4}$				NORTH-EAST $\frac{1}{4}$				SOUTH-WEST $\frac{1}{4}$				SOUTH-EAST $\frac{1}{4}$			
	NW	NE	SW	SE	NW	NE	SW	SE	NW	NE	SW	SE	NW	NE	SW	SE
6S 2S 104W 12				***					***				***			X
6S 3S 104W 01				***				X	***				***			
6S 3S 104W 11				***		X			***				***			
SL 9S 23E	Entire TOWNSHIP															

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

003

APD RECEIVED: 03/07/2005

API NO. ASSIGNED: 43-047-36362

WELL NAME: ATCHEE RIDGE 11-20

OPERATOR: MEDALLION EXPLORATION ( N5050 )

CONTACT: RASCHELLE RICHENS

PHONE NUMBER: 801-566-7400

PROPOSED LOCATION:

NESW 20 120S 250E

SURFACE: 1956 FSL 2013 FWL

BOTTOM: 1956 FSL 2013 FWL

UINTAH

UNDESIGNATED ( 2 )

LEASE TYPE: 3 - State

LEASE NUMBER: ML46104

SURFACE OWNER: 3 - State

PROPOSED FORMATION: MVRD

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DRD	4/15/05
Geology		
Surface		

LATITUDE: 39.75871

LONGITUDE: -109.1437

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]  
(No. RLB0005890 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 49-2178 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

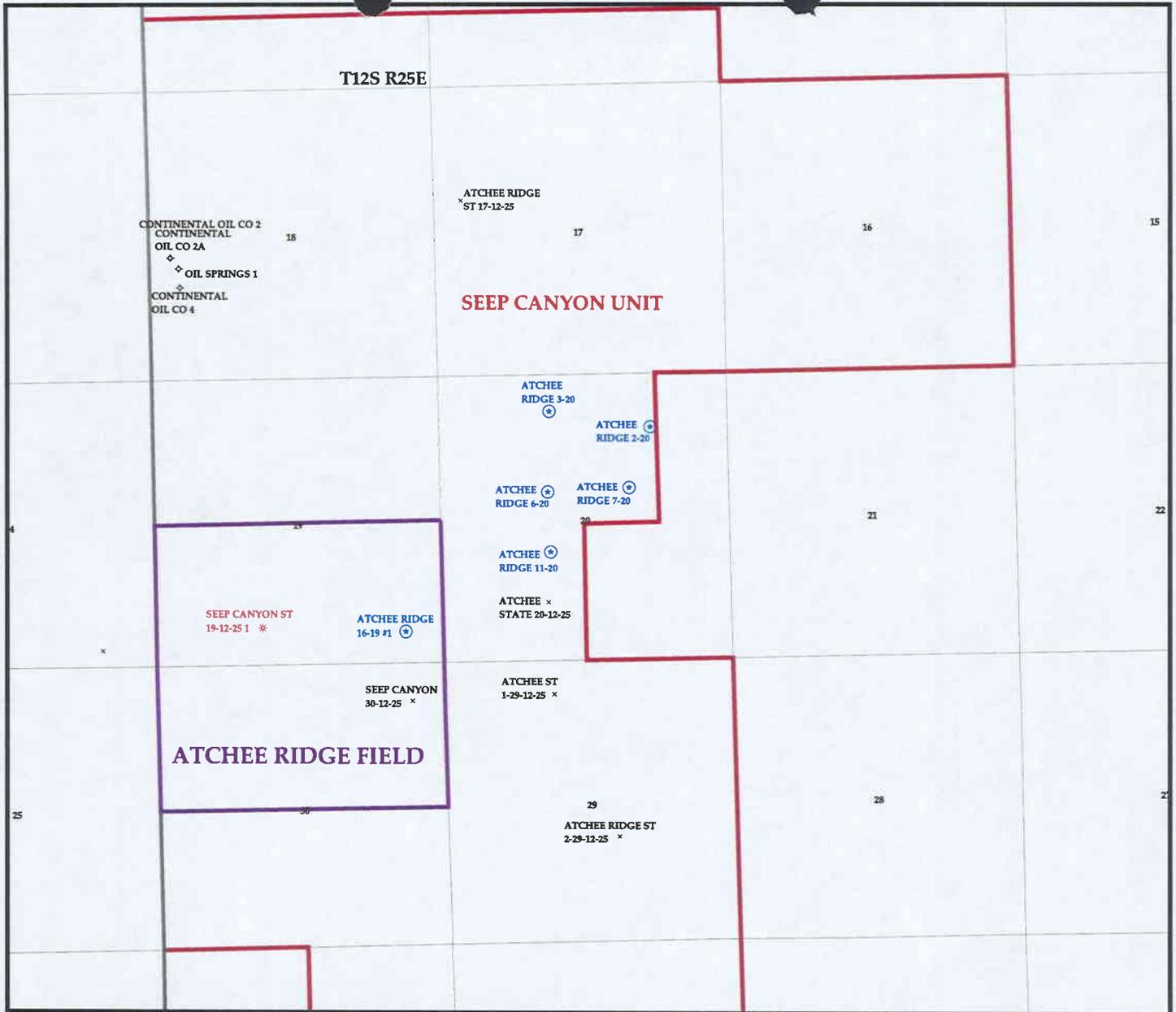
- R649-2-3.
- Unit Seep Canyon
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- R649-3-11. Directional Drill

COMMENTS:

Needs Precise (04-05-05)

STIPULATIONS:

1- Spacing Strip  
2- STATEMENT OF BASIS



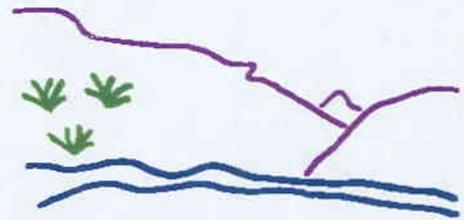
OPERATOR- MEDALLION EXPL (N5050)

SEC. 20 T.12S R.25E

FIELD: UNDESIGNATED (002)

COUNTY: UINTAH

SPACING: R649-3-2 / GENERAL SITING



Utah Oil Gas and Mining

**Wells**

- ⚡ 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

**Units.shp**

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

**Fields.shp**

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED



PREPARED BY: DIANA WHITNEY  
DATE: 15-APRIL-2005

**From:** Ed Bonner  
**To:** Whitney, Diana  
**Date:** 3/15/2005 4:24:28 PM  
**Subject:** Well Clearance

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

Medallion Exploration  
Atchee Ridge 2-20  
Atchee Ridge 3-20  
Atchee Ridge 6-20  
Atchee Ridge 7-20  
Atchee Ridge 11-20

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

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

**ON-SITE PREDRILL EVALUATION**  
**Division of Oil, Gas and Mining**

**OPERATOR:** MEDALLION EXPLORATION

**WELL NAME & NUMBER:** ATCHEE RIDGE 11-20

**API NUMBER:** 43-047-36362

**LEASE:** ML-46104      **FIELD/UNIT:** UNDESIGNATED

**LOCATION:** 1/4,1/4 NE/SW Sec: 20 TWP: 12S RNG: 25E 2013' FWL 1956' FSL

**LEGAL WELL SITING:** 460 F SEC. LINE; 460 F 1/4,1/4 LINE; 920 F ANOTHER WELL.

**GPS COORD (UTM):** 659034E 4402429N      **SURFACE OWNER:** STATE OF UTAH

**PARTICIPANTS**

DAVID W. HACKFORD (DOGM), FLOYD BARTLETT (DWR), DAVID RICHENS, RASCHELLE RICHENS (MEDALLION).

**REGIONAL/LOCAL SETTING & TOPOGRAPHY**

SITE IS IN AN AREA OF NORTH-SOUTH TRENDING INTERFLUVAL RIDGES DISSECTED BY EXTENSIVE DRAWS AND CANYONS. THE NEAREST WATER SOURCE IS EVACUATION CREEK, FOUR MILES TO THE EAST, AND INTERMITTENT SPRINGS IN EAST SEEP CANYON, ONE MILE TO THE WEST. DRAINAGE IS TO THE NORTHWEST. BONANZA, UTAH IS 24 MILES TO THE NORTHWEST.

**SURFACE USE PLAN**

**CURRENT SURFACE USE:** WILDLIFE AND LIVESTOCK GRAZING, HUNTING, WOODCUTTING.

**PROPOSED SURFACE DISTURBANCE:** LOCATION WILL BE 270' BY 125'. ACCESS ROAD WILL BE 0.1 MILES.

**LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS:** SEE ATTACHED MAP FROM GIS DATABASE.

**LOCATION OF PRODUCTION FACILITIES AND PIPELINES:** ALL PRODUCTION FACILITIES WILL BE ON LOCATION AND ADDED AFTER DRILLING WELL. PIPELINE WILL FOLLOW ACCESS ROAD.

**SOURCE OF CONSTRUCTION MATERIAL:** ALL CONSTRUCTION MATERIAL WILL BE BORROWED FROM SITE DURING CONSTRUCTION OF LOCATION.

**ANCILLARY FACILITIES:** NONE WILL BE REQUIRED.

**WILL DRILLING AT THIS LOCATION GENERATE PUBLIC INTEREST OR CONCERNS? EXPLAIN:** UNLIKELY.

**WASTE MANAGEMENT PLAN:**

DRILLED CUTTINGS WILL BE SETTLED INTO RESERVE PIT. LIQUIDS FROM PIT WILL

BE ALLOWED TO EVAPORATE. FORMATION WATER WILL BE CONFINED TO STORAGE TANKS. SEWAGE FACILITIES, STORAGE AND DISPOSAL WILL BE HANDLED BY COMMERCIAL CONTRACTOR. TRASH WILL BE CONTAINED IN TRASH BASKETS AND HAULED TO AN APPROVED LAND FILL.

**ENVIRONMENTAL PARAMETERS**

AFFECTED FLOODPLAINS AND/OR WETLANDS: NONE

FLORA/FAUNA: SAGE, GREASEWOOD, MOUNTAIN MAHOGANY, JUNIPER, PINION PINE, NATIVE GRASSES, EPHEDRA: DEER, SONGBIRDS, RAPTORS, COYOTE, RABBITS, ELK, BEAR, COUGAR, RODENTS.

SOIL TYPE AND CHARACTERISTICS: LIGHT BROWN SANDY CLAY SILT.

EROSION/SEDIMENTATION/STABILITY: VERY LITTLE NATURAL EROSION. SEDIMENTATION AND STABILITY ARE NOT A PROBLEM AND LOCATION CONSTRUCTION SHOULDN'T CAUSE AN INCREASE IN STABILITY OR EROSION PROBLEMS.

PALEONTOLOGICAL POTENTIAL: NONE OBSERVED

**RESERVE PIT**

CHARACTERISTICS: 140' X 15' AND EIGHT FEET DEEP.

LINER REQUIREMENTS (Site Ranking Form attached): A LINER WILL NOT BE REQUIRED FOR RESERVE PIT.

**SURFACE RESTORATION/RECLAMATION PLAN**

AS PER SITLA.

SURFACE AGREEMENT: AS PER SITLA.

CULTURAL RESOURCES/ARCHAEOLOGY: SITE WAS INSPECTED BY MONTGOMERY ARCHEOLOGICAL CONSULTANTS. A REPORT OF THIS INVESTIGATION WILL BE PLACED ON FILE.

**OTHER OBSERVATIONS/COMMENTS**

THIS PREDRILL INVESTIGATION WAS CONDUCTED ON A COOL DAY WITH PATCHES OF SNOW COVER.

**ATTACHMENTS**

PHOTOS OF THIS SITE WERE TAKEN AND PLACED ON FILE.

DAVID W. HACKFORD  
DOGM REPRESENTATIVE

4/05/05, 12:15 PM  
DATE/TIME

**Evaluation Ranking Criteria and Ranking Score  
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>0</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>0</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	<u>5</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>5</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>

**Final Score**      10      (Level III Sensitivity)

Sensitivity Level I = 20 or more; total containment is required.  
Sensitivity Level II = 15-19; lining is discretionary.  
Sensitivity Level III = below 15; no specific lining is required.





**DIVISION OF OIL, GAS AND MINING  
APPLICATION FOR PERMIT TO DRILL  
STATEMENT OF BASIS**

**OPERATOR:** MEDALLION EXPLORATION  
**WELL NAME & NUMBER:** ATCHEE RIDGE 11-20  
**API NUMBER:** 43-047-36362  
**LOCATION:** 1/4,1/4 NE/SW Sec: 20 TWP: 12S RNG: 25E 2013' FWL 1956' FSL

**Geology/Ground Water:**

Medallion proposes to set 500' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 4,400'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the proposed location. The surface formation at this site is the Green River Formation and alluvium derived from the Green River Formation. The Green River Formation is made up of interbedded limestones, shales and sandstones and may include fresh water zones above the moderately saline water,. The proposed casing and cementing program should adequately protect any underground sources of useable water near the surface.

**Reviewer:** Brad Hill **Date:** 04-12-05

**Surface:**

The predrill investigation of the surface was performed on 04/05/05. Floyd Bartlett with DWR and Ed Bonner with SITLA were invited to this investigation on 03/14/05. Mr. Bartlett was present. He requested that no drilling or location construction take place between December 1 and March 15 because of wintering deer and elk. This site is on State surface with State minerals, and appears to be the best spot for a location in the immediate area. Mr. Bartlett presented Ms. Richens a DWR prescribed seed mix to be used when reserve pit is reclaimed.

**Reviewer:** David W. Hackford **Date:** 04/06/2005

**Conditions of Approval/Application for Permit to Drill:**

None.

Well name:

**04-05 Medallion Atchee Ridge 11-20**

Operator: **Medallion Exploration**

String type: **Surface**

Project ID:

43-047-36362

Location: **Uintah**

**Design parameters:**

**Collapse**

Mud weight: 8.400 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 82 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 170 ft

Cement top: 1 ft

**Burst**

Max anticipated surface pressure: 1,349 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 1,409 psi

No backup mud specified.

**Tension:**

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

Tension is based on buoyed weight.  
Neutral point: 438 ft

Non-directional string.

**Re subsequent strings:**

Next setting depth: 4,000 ft  
Next mud weight: 8.800 ppg  
Next setting BHP: 1,829 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 1,800 ft  
Injection pressure 1,800 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft <sup>3</sup> )
1	500	9.625	36.00	K-55	ST&C	500	500	8.765	35.6
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	218	2020	9.260	1409	3520	2.50	16	423	26.84 J

Prepared by: Clinton Dworshak  
Utah Div. of Oil & Mining

Phone: 801-538-5280  
FAX: 801-359-3940

Date: April 13, 2005  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 500 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

**04-05 Medallion Atchee Ridge 11-20**

Operator: **Medallion Exploration**

String type: **Production**

Project ID:

43-047-36362

Location: **Uintah**

**Design parameters:**

**Collapse**

Mud weight: 8.800 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 131 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

**Burst**

Max anticipated surface pressure: 1,348 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 1,828 psi

No backup mud specified.

**Burst:**

Design factor 1.00

Cement top: 656 ft

**Tension:**

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

Non-directional string.

Tension is based on buoyed weight.  
Neutral point: 3,466 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft <sup>3</sup> )
1	4000	5.5	17.00	J-55	LT&C	4000	4000	4.767	137.8
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1828	4910	2.685	1828	5320	2.91	59	247	4.19 J

Prepared by: Clinton Dworshak  
Utah Div. of Oil & Mining

Phone: 801-538-5280  
FAX: 801-359-3940

Date: April 13,2005  
Salt Lake City, Utah

Remarks:

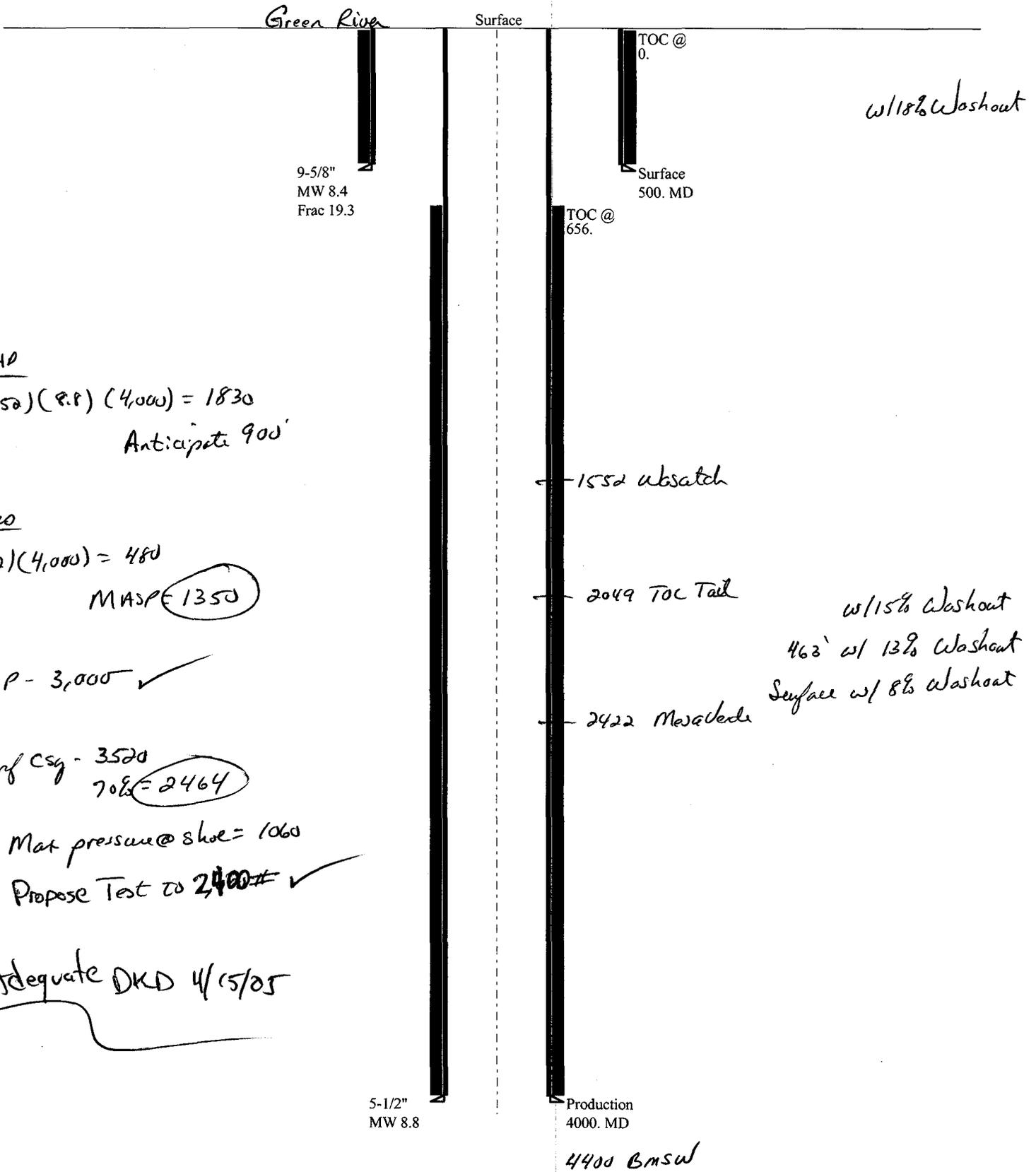
Collapse is based on a vertical depth of 4000 ft, a mud weight of 8.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

# 4-05 Medallion Atchee Ridge 1-20

## Casing Schematic



**From:** LaVonne Garrison  
**To:** Diana Whitney  
**Date:** 4/27/2005 10:34:18 AM  
**Subject:** Re: Seep Canyon Unit

Sorry, I've been on vacation. Yes, it is okay to approve these locations. They have not yet drilled to discovery and are not yet subject to submitting a POD.



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

MARY ANN WRIGHT  
*Acting Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

April 28, 2005

Medallion Exploration  
6985 Union Park Center, #375  
Midvale, UT 84047

Re: Atchee Ridge 11-20 Well, 1956' FSL, 2013' FWL, NE SW, Sec. 20,  
T. 12 South, R. 25 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 43-047-36362.

Sincerely,

*for* John R. Baza  
Associate Director

pab  
Enclosures

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

**Operator:** Medallion Exploration  
**Well Name & Number** Atchee Ridge 11-20  
**API Number:** 43-047-36362  
**Lease:** ML46104

**Location:** NE SW                      **Sec.** 20                      **T.** 12 South                      **R.** 25 East

**Conditions of Approval**

1. **General**  
Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.
  
2. **Notification Requirements**  
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:
  - 24 hours prior to cementing or testing casing
  - 24 hours prior to testing blowout prevention equipment
  - 24 hours prior to spudding the well
  - within 24 hours of any emergency changes made to the approved drilling program
  - prior to commencing operations to plug and abandon the well

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

  - Dan Jarvis at (801) 538-5338
  - Carol Daniels at (801) 538-5284 (spud)
  
3. **Reporting Requirements**  
All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.
  
4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
  
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

Page 2

API #43-047-36362

April 28, 2005

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.

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML46104</b>
2. NAME OF OPERATOR: <b>Medallion Exploration</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: <b>6985 Union Prk Ctr Ste. 375 Midvale UT 84047</b>		7. UNIT or CA AGREEMENT NAME: <b>Seep Canyon Unit</b>
PHONE NUMBER: <b>(801) 566-7400</b>		8. WELL NAME and NUMBER: <b>Atchee Ridge 11-20</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1956' FSL &amp; 2013' FWL</b>		9. API NUMBER: <b>4304736362</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NESW 20 12S 25E</b>		10. FIELD AND POOL, OR WILDCAT:

COUNTY: **Uintah**

STATE: **UTAH**

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

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

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
Medallion Exploration is requesting an extension for the above drilling permit due to rig availability.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 05-30-06  
By: [Signature]

7-27-06  
CNO

NAME (PLEASE PRINT) <b>RaSchelle Richens</b>	TITLE <b>Regulatory Affairs</b>
SIGNATURE <u>[Signature]</u>	DATE <b>5/25/2006</b>

(This space for State use only)

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DIV. OF OIL, GAS & MINING



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

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

**API:** 4304736362  
**Well Name:**  
**Location:**  
**Company Permit Issued to:**  
**Date Original Permit Issued:**

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

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

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

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

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

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

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

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

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

  
\_\_\_\_\_  
Signature

5/25/2006  
Date

**Title:** Regulatory Affairs

**Representing:** Medallion Exploration

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MAY 26 2006



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

July 13, 2007

RaSchelle Richens  
Medallion Exploration  
6975 Union Park Center, Ste 310  
Midvale, UT 84047

Re: APD Rescinded –Atchee Ridge 11-20 Sec. 20 T. 12S R. 25E  
Uintah County, Utah API No. 43-047-36362

Dear Ms. Richens:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on April 28, 2005. On May 30, 2006, the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective July 13, 2007.

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

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

Sincerely,

Diana Mason  
Environmental Scientist

cc: Well File  
SITLA, Ed Bonner

