

**Enduring Resources**

475 17th Street Suite 1500 Denver Colorado 80202
Telephone 303 573-1222 Fax 303 573 0461

March 17, 2005

Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

Attn.: Ms. Diana Whitney

RE: Southam Canyon #9-25-22-32
SENW Sec 32 T9S-R25E
Uintah County, Utah

Dear Ms. Whitney:

Enclosed are two original applications to drill concerning the referenced proposed well.

Enduring Resources, LLC is requesting the Utah Division of Oil, Gas and Mining to hold this application and all future information as confidential.

Enduring Resources is in the process of obtaining the required State of Utah and School and Institutional Trust Lands Administration bonds. The information is expected to be submitted to each agency on Monday March 21, 2005.

If any questions arise or additional information is required, please contact me at 303-350-5114.

Sincerely,

Phyllis Sobotik
Regulatory Specialist

RECEIVED

MAR 18 2005

DIV. OF OIL, GAS & MINING

/ps

Enclosures:

xc: School and Institutional Trust Lands Administration
675 East 500 South, Suite 500
Salt Lake City, Utah 84102
Attn: Mr. Ed Bonner

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

FORM 3

AMENDED REPORT
(highlight changes)

001

APPLICATION FOR PERMIT TO DRILL			5. MINERAL LEASE NO: ML 47047	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: N/A	
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: N/A	
2. NAME OF OPERATOR: Enduring Resources, LLC			9. WELL NAME and NUMBER: Southam Canyon 9-25-22-32	
3. ADDRESS OF OPERATOR: 475 17th St, Suite 1500 CITY Denver STATE CO ZIP 80202		PHONE NUMBER: (303) 350-5114	10. FIELD AND POOL, OR WILDCAT:	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1900' FNL 2182' FWL Sec 32 T9S R25E S.L.B.&M. AT PROPOSED PRODUCING ZONE: Same as above			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 32 T9S 25E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 4.5 miles Southeast from Bonanza, Utah			12. COUNTY: Uintah	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 1631'	16. NUMBER OF ACRES IN LEASE: 582.34	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 80		
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) N/A	19. PROPOSED DEPTH: 5,900	20. BOND DESCRIPTION: See cover Letter		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5501.5' GR Ungraded	22. APPROXIMATE DATE WORK WILL START: 4/15/2005	23. ESTIMATED DURATION: 20 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"	8-5/8" J-55 24#	2,000	65/35 Poz	462 sx	1.81 12.6 ppg
			Prem	236 sx	1.18 15.6 ppg
7-7/8"	4-1/2" N-80/I-80 11.6#	5,900	Prem Lite II	212 sx	3.38 11.0 ppg
			50/50 Poz Cl G	1140 sx	1.31 14.3 ppg

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MAR 18 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

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Phyllis Sobotik TITLE Regulatory Specialist

SIGNATURE *Phyllis Sobotik* DATE March 17, 2005

(This space for State use only)

API NUMBER ASSIGNED: 43-047-36422

Approved by the
Utah Division of
Oil, Gas and Mining

CONFIDENTIAL

(11/2001)

Date: 04-28-05
By: *[Signature]*

CULTURAL RESOURCE INVENTORY OF
ENDURING RESOURCES'
SOUTHAM CANYON 9-25-22-32,
SOUTHAM CANYON 10-25-21-32,
AGENCY DRAW 12-21-31-36, AND
BIG PACK 12-21-22-2 WELL LOCATIONS,
UINTAH COUNTY, UTAH

Keith R. Montgomery
and
Shari Maria Silverman

**Enduring Resources, LLC
Southam Canyon # 9-25-22-32
SENW Sec. 32 T9S-R25E
Uintah County, Utah
Lease # ML 47047**

DRILLING PROGRAM

1. Estimated Tops of Geological Markers:

<u>Formation</u>	<u>Depth</u>
Green River	501'
Wasatch	2201'
Mesaverde	4151'

2. Estimated Depths of Anticipated Water, Oil, Gas or Other Minerals: (5512' estimated KB)

Substance	Formation	Depth
	KB	Unita
Oil / Gas	Green River	501'
Oil /Gas	Wasatch	2201'
Oil /Gas	Mesaverde	4151'
	TD	5900'

A 12-1/4" hole will be drilled to approximately 2000 feet. The depth will be determined by the depth that the Birds Nest zone is encountered. The hole will be drilled 400 feet beyond the top of the Birds Nest zone and surface casing will be set.

3. Pressure Control Equipment: (3000 psi schematic attached)

A. Type: Eleven (11) inch double gate hydraulic BOP with eleven (11) inch annular preventer with 3,000 psi Casinghead and 3,000 psi Tubinghead equipped per the attached diagrams for 3,000 psi. BOPE as specified in *Onshore Oil & Gas Order Number 2*. A PVT, Stroke Counter and flow sensor will be installed to check for flow and monitor pit volume.

B. Pressure Rating: 3,000 psi BOPE

C. Kelly will be equipped with upper and lower Kelly valves.

D. Testing Procedure: Annular Preventer

At a minimum, the annular preventer will be pressure tested to 50% of the stack rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and

- 4. At thirty (30) day intervals.

In addition to the above, the annular preventer will be functionally operated at least weekly.

Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

- 1. When the BOP is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition to the above, the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

D. Miscellaneous Information:

The blowout preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*.

Totco directional surveys will be dropped every 2000 feet. Maximum allowable angle is 5 degrees.

4. Proposed Casing & Cementing Program:

A. Casing Program: All New

Hole Size	Casing Size	Wt./Ft.	Grade	Joint	Depth Set (md)
12-1/4"	8-5/8"	24#	J-55	ST&C	0 – 2,000' est
7-7/8"	4-1/2"	11.6#	N-80/I-80	LT&C	0 – 5,900'

The surface casing will have guide shoe, 1 jt., insert float collar. Centralize the first 3 joints with bowspring centralizers. Thread lock guide shoe.

Casing string(s) will be pressure tested to 0.22 psi/foot of casing string length or 1500 psi, whichever is greater (not to exceed 70% of the internal yield strength of the casing), after cementing and prior to drilling out from under the casing shoe.

B. Casing Design Parameters:

Depth (md)	Casing	Collapse(psi)/SF	Burst (psi)/SF	Tension(mlbs)/SF
2000	8-5/8", 24#/ft, J55, STC	1370/1.53(a)	4460/4.98(b)	244/5.08(J)(c)
5900	4-1/2", 11.6#/ft, N-80, LTC	6350/2.08 (d)	7780/2.78 (e)	223/3.26(J) (f)

- (a.) based on full evacuation with 8.6 ppg fluid on annulus
- (b.) based on 8.6 ppg gradient with no fluid on annulus
- (c.) based on casing string weight in 8.6 ppg mud
- (d.) based on full evacuation with 10.0 ppg fluid on annulus, pipe evacuated
- (e.) based on 9.2 ppg gradient, gas to surface, with no fluid on annulus, no gas gradient.
- (f.) based on casing string weight in 9.2 ppg mud

PROPOSED CEMENTING PROGRAM

Surface Casing (if well will circulate)-Cemented to surface

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft ³ /sx)
8-5/8"	Lead	1500	65/35 POZ +6% Gel +10 pps gilsonite + .25 pps Flocele + 3% salt BWOW	462	35%	12.6	1.81
8-5/8"	Tail	500	Premium cmt +2% CaCl +.25 pps flocele	236	35%	15.6	1.18

A cement top job is required if cement fallback is greater than 10' below ground level. Top job cement will be premium cement w/2% CaCl. Volume as required.

Surface Casing (if well will not circulate)-Cemented to surface

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft ³ /sx)
8-5/8"	Lead	500	Premium cmt + 2% CaCl +.25 pps flocele	280	60	15.6	1.18
8-5/8"	Top job	As req.	Premium cement + 2% CaCl	Req.		15.6	1.18

Production Casing and Liner-Cemented TD to Surface

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft ³ /sx)
4-1/2"	Lead	1800	Premium Lite II +3% KCL +0.25 pps celloflake +5 pps gilsonite +10% gel +0.5% extender	212	60	11.0	3.38
4-1/2"	Tail	4100	50/50 POZ Class G +10% salt + 2% gel + 1% R-3	1140	60	14.3	1.31

Cement volumes for the 4-1/2" Production Casing will be calculated to provide a top of cement to surface. Cement volumes are approximate and were calculated under the assumption that a gauge hole will be achieved. Actual cement volumes may vary due to variations in the actual hole size and will be determined by running a caliper log on the drilled hole.

All waiting on cement (WOC) times will be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

5. Drilling Fluids (mud) Program:

Interval	Mud Weight	Fluid Loss	Viscosity	Mud Type
0' - 2000'		No cntrl		Air/mist
2000'-3000'	8.4-8.6	No cntrl	28-36	Water
3000'-5900'	8.8-9.8	8 - 10 ml	32-42	Water/Gel

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blowout will be available at the well site during drilling operations.

6. Evaluation Program:

Logs: DIL-SFL/GR Caliper: TD to BSC
CNL / LDT / GR: TD to BSC

Tests: No tests are currently planned.

Stimulation: A stimulation or frac treatment will be designed for completion of this well based on openhole log analysis. The drill site, as approved, will be sufficient size to accommodate all completion activities.

7. Abnormal Conditions:

No abnormal temperatures or pressures are anticipated. No H₂S has been encountered or known to exist from previous wells drilled to similar depths in the general area.

Maximum anticipated bottom hole pressure equals approximately 3200 psi (calculated at 0.4 psi/foot of hole) and maximum anticipated surface pressure equals approximately 1440 psi (anticipated bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot of hole).

8. Anticipated Starting Dates:

A. Anticipated Commencement Date-	April 15, 2005
Drilling Days-	Approximately 20 days
Completion Days -	Approximately 15 days

9. Variiances:

None anticipated

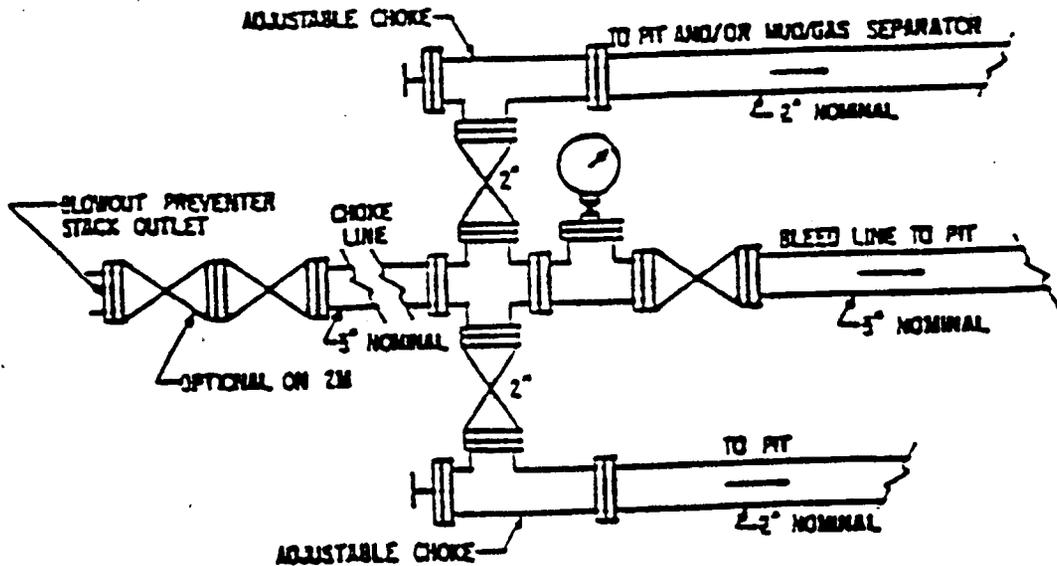
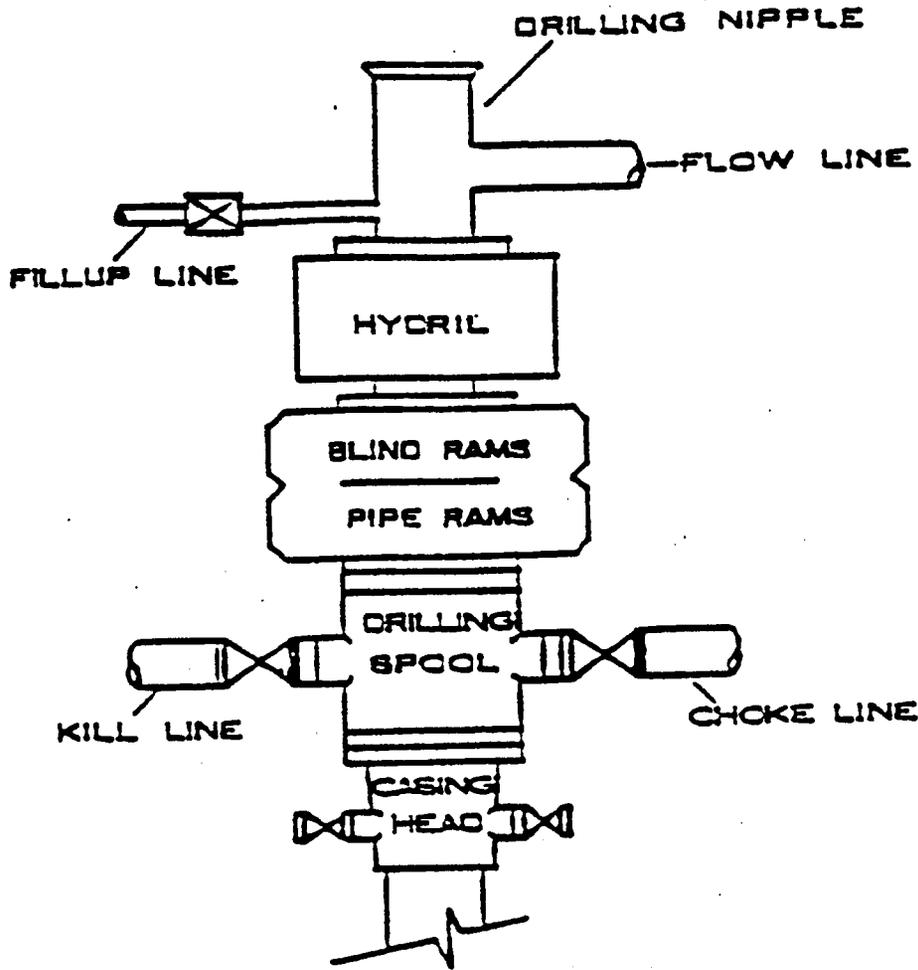
10. Other:

The School and Institutional Trust Lands Administration were provided a copy of the Application for Permit to Drill and a Cultural Resource Inventory Report.

School and Institutional Trust Lands Administration
675 East 500 South, Suite 500
Salt Lake City, Utah 84102
Attn: Mr. Ed Bonner

3,000 PSI

BOP STACK



**Enduring Resources, LLC
Southam Canyon # 9-25-22-32
SENW Sec. 32 T9S-R25E
Uintah County, Utah
Lease # ML 47047**

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Directions to the proposed location are attached.

Refer to Topo Maps A and B for location of access roads within a two (2) mile radius.

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. Planned Access Roads:

Approximately 0 miles of access road is proposed. Please refer to Topo Map B.

The access road will be crowned (2 to 3%), ditched and constructed with a running surface of eighteen (18) feet and a maximum disturbed width of thirty (30) feet. Graveling or capping the roadbed will be performed as necessary to provide a well constructed, safe road. Prior to construction or upgrading, the proposed road shall be cleared of any snow and allowed to dry completely.

Surface disturbance and vehicular traffic will be limited to the proposed location and proposed access route. Any additional area needed will be approved in advance. All construction shall be in conformance with the standards outlined in the BLM and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, 1989.

The road surface and shoulders will be kept in a safe usable condition and will be maintained in accordance with the original construction standards. All drainage ditches will be kept clear and free flowing and will be maintained according to original construction standards. The access road surface will be kept free of trash during operations. All traffic will be confined to the approved disturbed surface. Road drainage crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing or shall the drainages be blocked by the road bed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Should mud holes develop, they shall be filled in and detours around them avoided. When snow is removed from the road during the winter months, the snow shall be pushed outside of the borrow ditches and the turnouts kept clear so that snowmelt will be channeled away for the road.

3. Location of Existing Wells Within a One Mile Radius:

There are currently no wells within a one (1) mile radius.

4. Location of Existing & Proposed Facilities:

The following guidelines will apply if the well is productive:

All production facilities will be located on the disturbed portion of the well pad and at a minimum of twenty-five (25) feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e. production tanks, produced water tanks and/or heater treater.) These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six (6) months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon (2.5Y 6/2).

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry. Approximately one hundred sixty five (165) feet of pipeline is proposed. Please refer to the attached Topo Map D.

5. Location and Type of Water Supply:

Water for drilling purposes will be obtained from Tu and Frum, Inc. Water User Claim #49-2185, Application #T75517, or from Target Trucking Water User Claim #43-2195, or from Dalbo Inc. Water User Claim #43-8496.

Water will be hauled to the location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

6. Source of Construction Materials:

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within one hundred twenty (120) days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break or allow discharge of liquids.

A plastic reinforced liner is to be used. It will be a minimum of sixteen (16) mil thick and felt with sufficient bedding used 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 or scrap that could puncture the liner will be disposed of in the pit.

Any spills of oil, salt water or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical portable toilet will be furnished with the drilling rig.

Garbage, trash and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than ten thousand (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.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to an approved disposal site.

8. Ancillary Facilities:

None are anticipated.

9. Well Site Layout: (See Diagrams #2, #3 & #4)

The attached Location Layout Diagrams describes drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s) and surface material stockpiles(s).

Please see the attached diagram for rig orientation and access roads.

All pits shall be fenced to the following minimum standards:

Thirty-nine (39) inch net wire shall be used with at least one strand of 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.

The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches over the net wire. Total height of the fence shall be at least forty-two (42) inches.

Corner posts shall be cemented and / or braced in such a manner to keep the fence tight at all times.

Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two (2) fence posts shall be no greater than sixteen (16) feet.

All wire shall be stretched by, using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth (4) side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to drilling the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig, the location will be re-surveyed and a Form 9 will be submitted.

10. Plans for Surface Reclamation:**Producing Location:**

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

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 40 CFR 3162.7.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

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 ninety (90) days for the date of well completion, weather permitting.

To prevent surface water(s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three (3) feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling and re-contouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

Dry Hole / Abandoned Location:

Abandoned well sites, roads and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions and re-establishment of vegetation as specified.

All disturbed surfaces will be re-contoured to the approximate natural contours with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. If necessary, re-seeding operations will be performed after completion of other reclamation operations.

11. Surface Ownership:

School and Institutional Trust Lands Administration
675 East 500 South, Suite 500
Salt Lake City, Utah 84102
Attn: Mr. Ed Bonner

12. Other Information:

Lease Wildlife Stipulations: None

All lease operations shall 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 of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance. The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites or other applicable facilities.

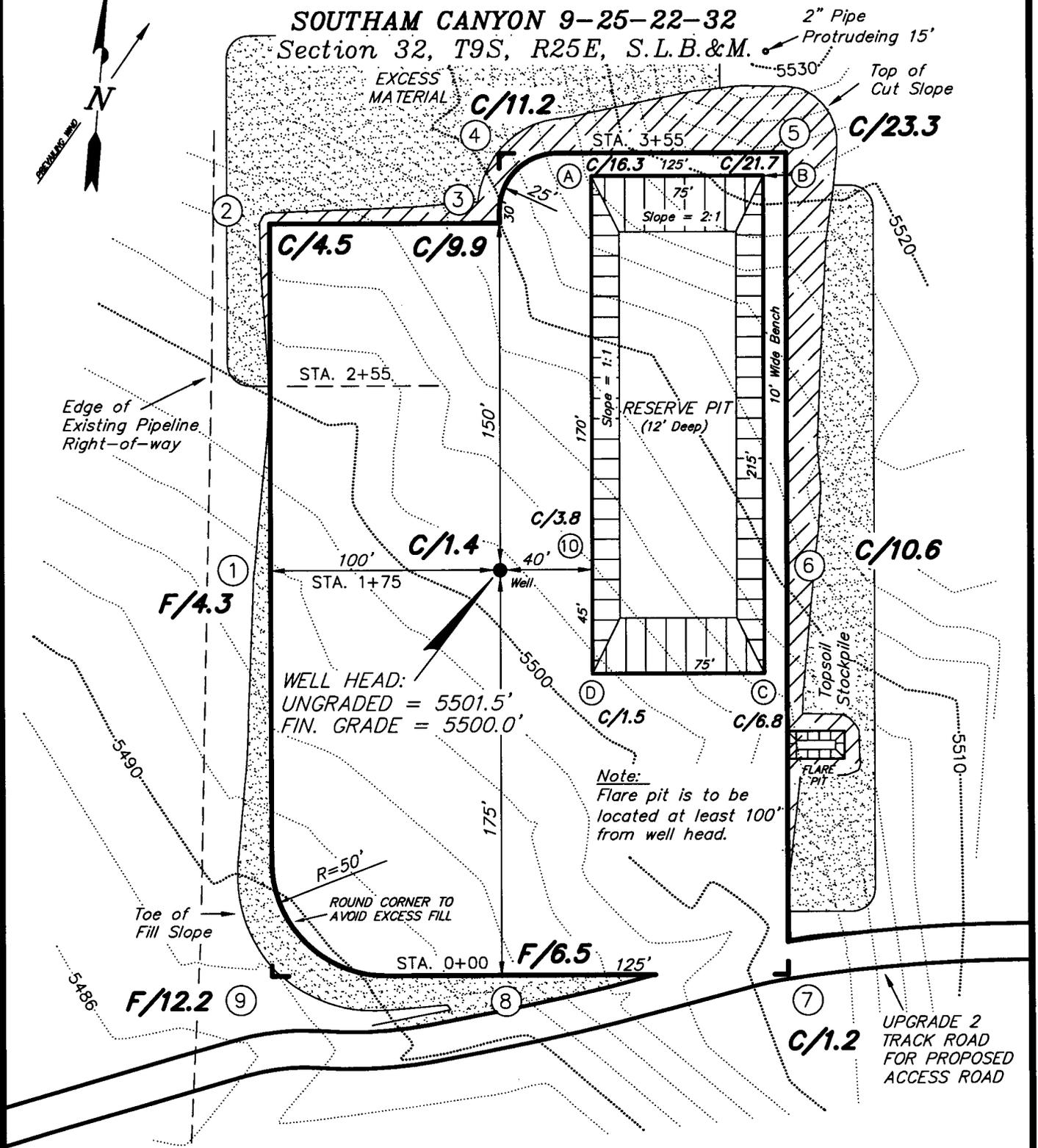
Directions to the Southam Canyon 9-25-22-32 Well Pad

Beginning at the city of Bonanza, Utah. Leave the city of Bonanza heading southeast on a paved road for a distance of approximately 1.7 miles. Turn right and head south for a short distance (0.1 miles) and thence proceed easterly along the same road for a distance of approximately 1.8 miles. Turn right and proceed southwesterly for an approximate distance of 0.9 miles to the proposed Southam Canyon 9-25-22-32 well pad.

ENDURING RESOURCES

SOUTHAM CANYON 9-25-22-32

Section 32, T9S, R25E, S.L.B.&M.



Note:
Flare pit is to be located at least 100' from well head.

REFERENCE POINTS

150' WESTERLY = 5493.4'
200' WESTERLY = 5491.7'

SURVEYED BY: C.M.	DATE DRAWN: 2-28-05
DRAWN BY: F.T.M.	SCALE: 1" = 60'
NOTES:	

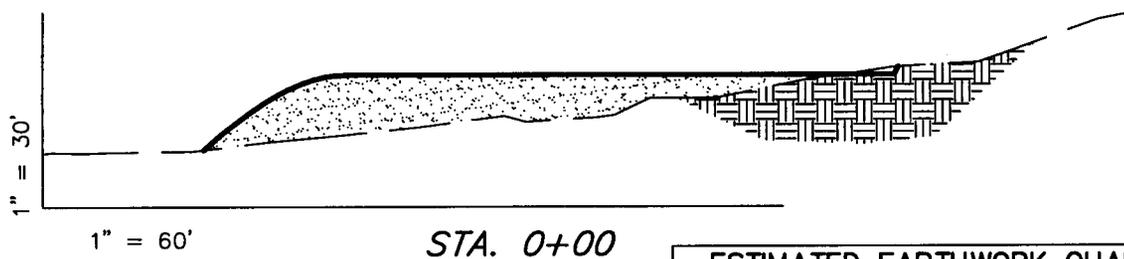
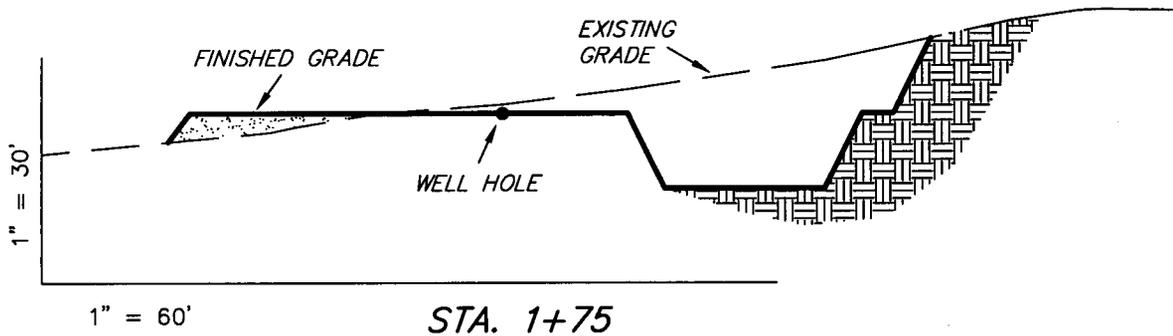
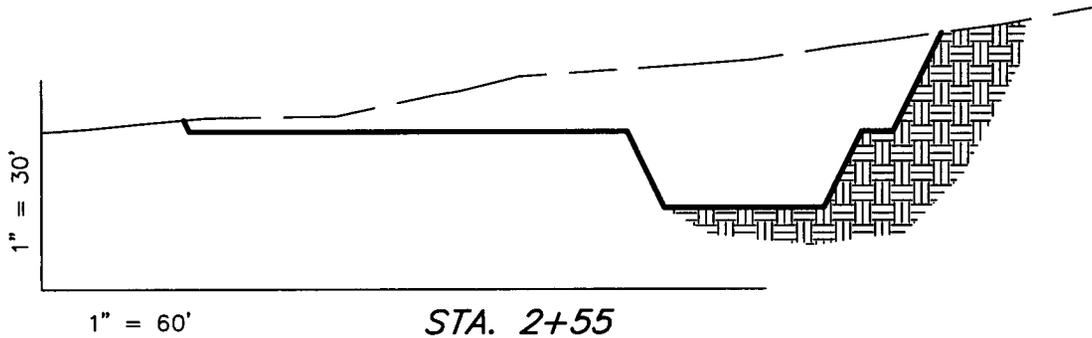
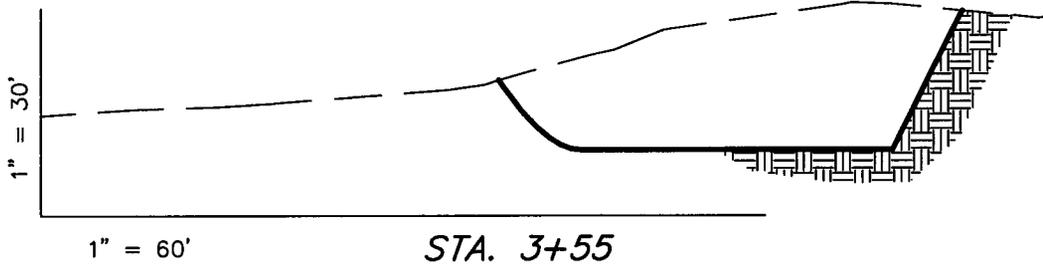
Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
(435) 781-2501

SHEET
2
OF 8

ENDURING RESOURCES

CROSS SECTIONS

SOUTHAM CANYON 9-25-22-32



ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	13,470	5,550	Topsoll is not included in Pad Cut	7,920
PIT	5,390	0		5,390
TOTALS	18,860	5,550	1,640	13,310

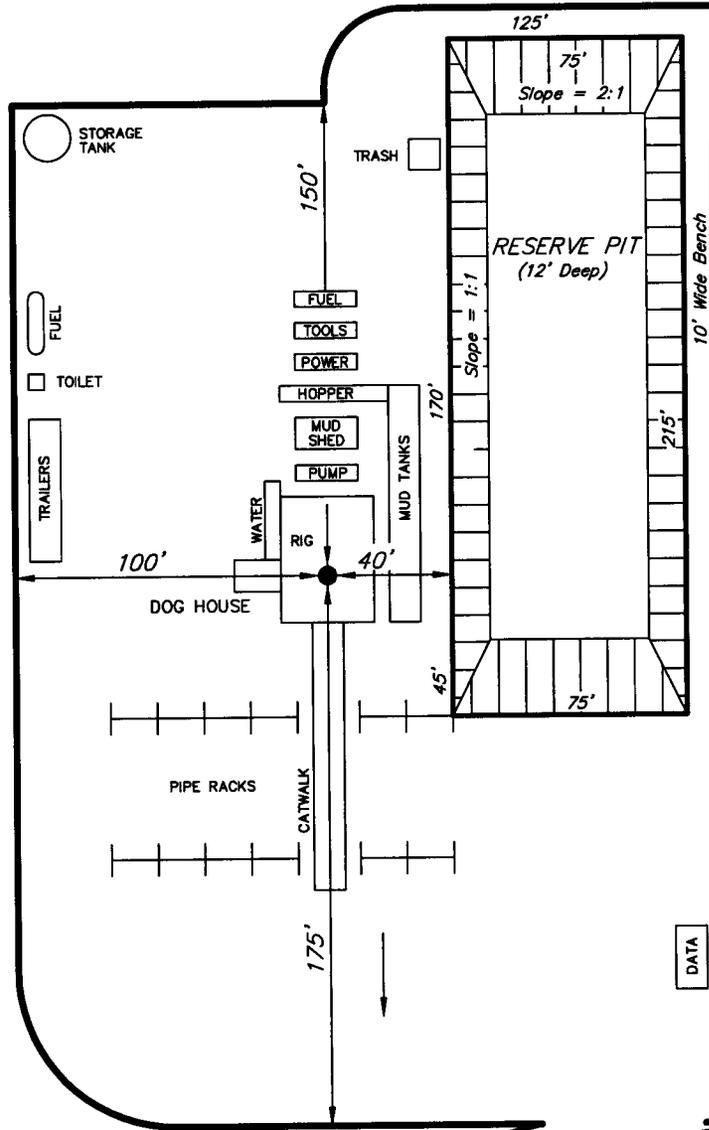
NOTE:
UNLESS OTHERWISE NOTED
CUT SLOPES ARE AT 1:1
FILL SLOPES ARE AT 1.5:1

SURVEYED BY: C.M. DATE DRAWN: 2-28-05
DRAWN BY: F.T.M. SCALE: 1" = 60'
NOTES:

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

SHEET
3
OF 8

ENDURING RESOURCES
TYPICAL RIG LAYOUT
SOUTHAM CANYON 9-25-22-32



Note:
 Flare pit is to be located at least 100' from well head.

UPGRADE 2 TRACK ROAD FOR PROPOSED ACCESS ROAD

SURVEYED BY: C.M.	DATE DRAWN: 2-28-05
DRAWN BY: F.T.M.	SCALE: 1" = 60'
NOTES:	

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

SHEET
4
 OF 8



**Proposed Location
S.C. 9-25-22-32**



ENDURING
-Resources-

**Southam Canyon 9-25-22-32
Sec. 32, T10S, R25E, S.L.B.&M.**

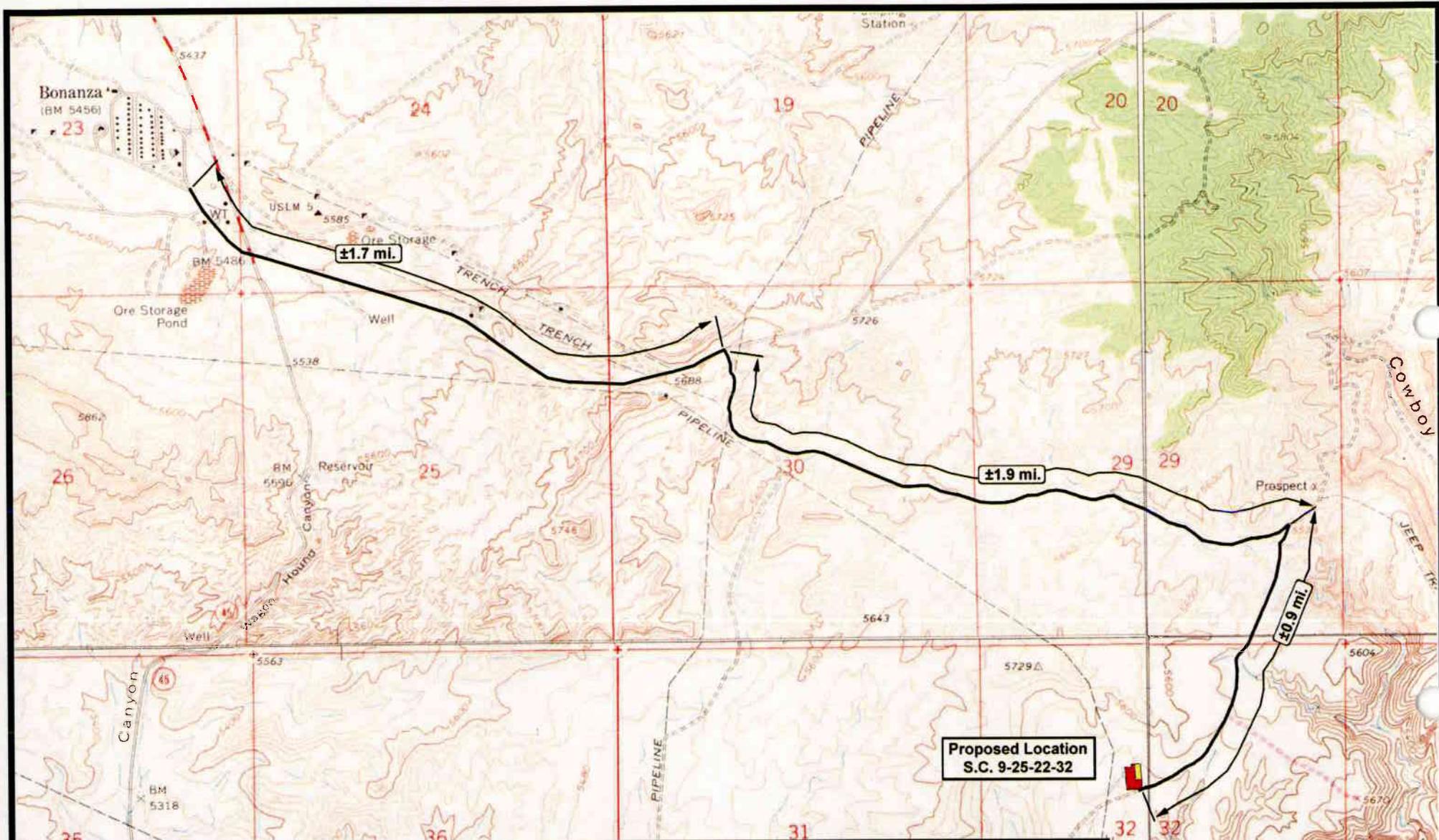


*Tri-State
Land Surveying Inc.*
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 100,000'
DRAWN BY: bgm
DATE: 03-03-2005

Legend
Existing Road
Proposed Access

TOPOGRAPHIC MAP
"A"
SHEET
5
OF 8



Proposed Location
S.C. 9-25-22-32



ENDURING
-Resources-

Southam Canyon 9-25-22-32
Sec. 32, T10S, R25E, S.L.B.&M.



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

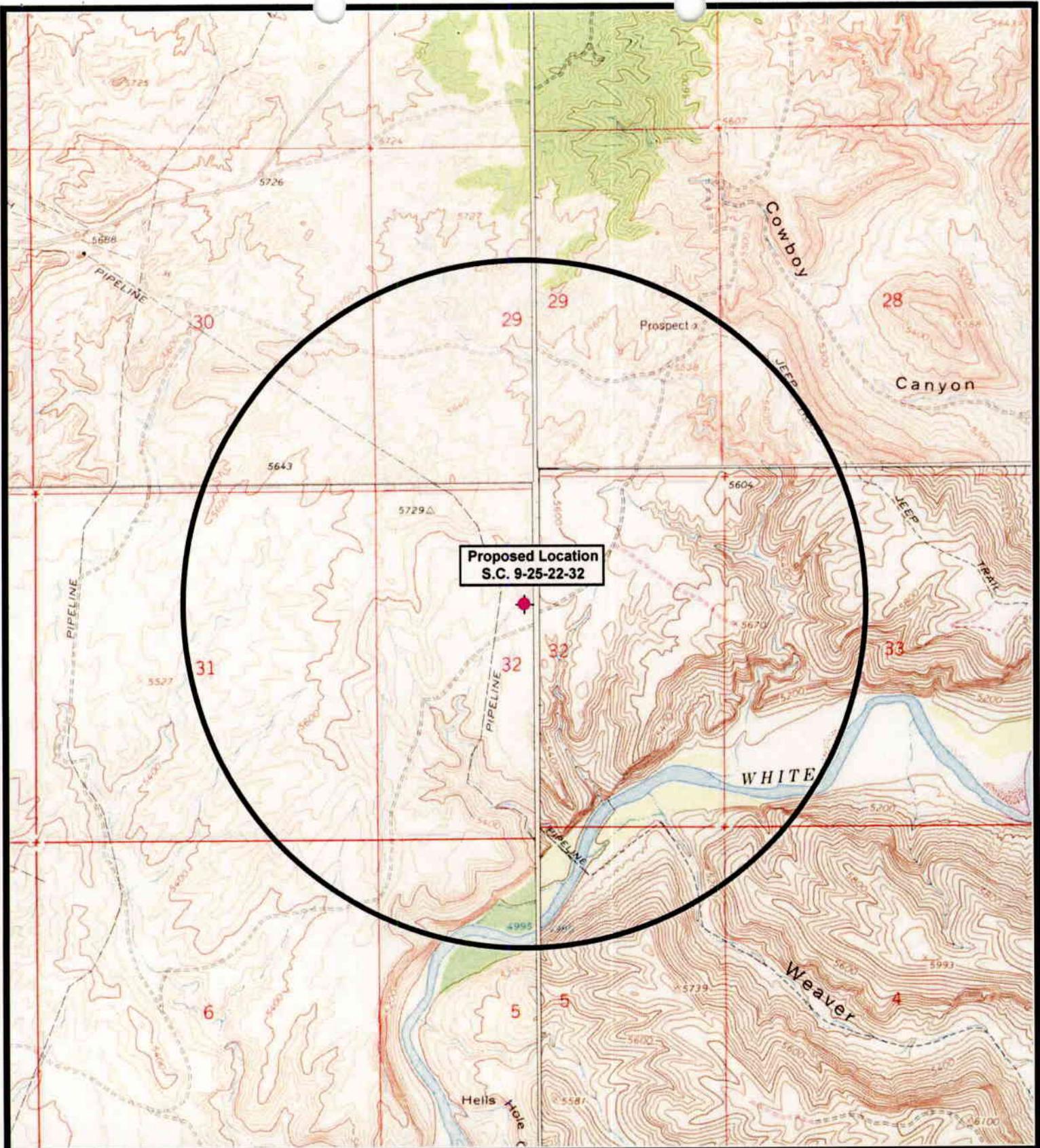
SCALE: 1" = 2,000'
DRAWN BY: bgm
DATE: 03-03-2005

Legend	
	Existing Road
	Proposed Access

TOPOGRAPHIC MAP

"B"

SHEET
6
OF 8



ENDURING
-Resources-



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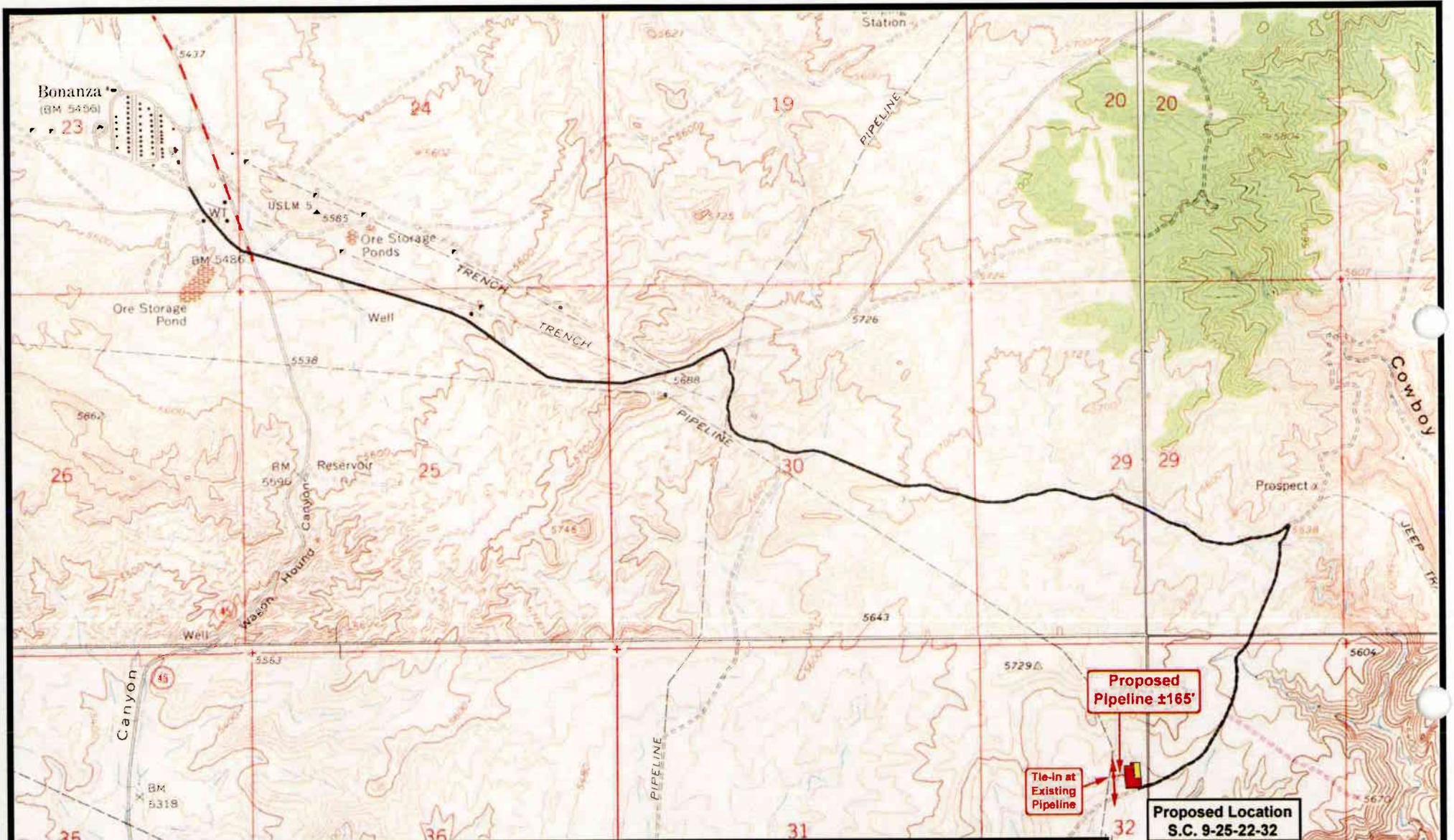
Legend

- Location
- One-Mile Radius

Southam Canyon 9-25-22-32
Sec. 32, T10S, R25E, S.L.B.&M.

SCALE: 1" = 2,000'
DRAWN BY: bgm
DATE: 03-17-2005

TOPOGRAPHIC MAP **SHEET**
"C" **7**
OF 8



Proposed Pipeline ±165'

Tie-in at Existing Pipeline

Proposed Location S.C. 9-25-22-32



ENDURING
-Resources-



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Legend

-  Roads
-  Existing Gas Line
-  Proposed Gas Line

Southam Canyon 9-25-22-32
Sec. 32, T10S, R25E, S.L.B.&M.

SCALE: 1" = 2,000'

DRAWN BY: bgm

DATE: 03-03-2005

TOPOGRAPHIC MAP

"D"

SHEET

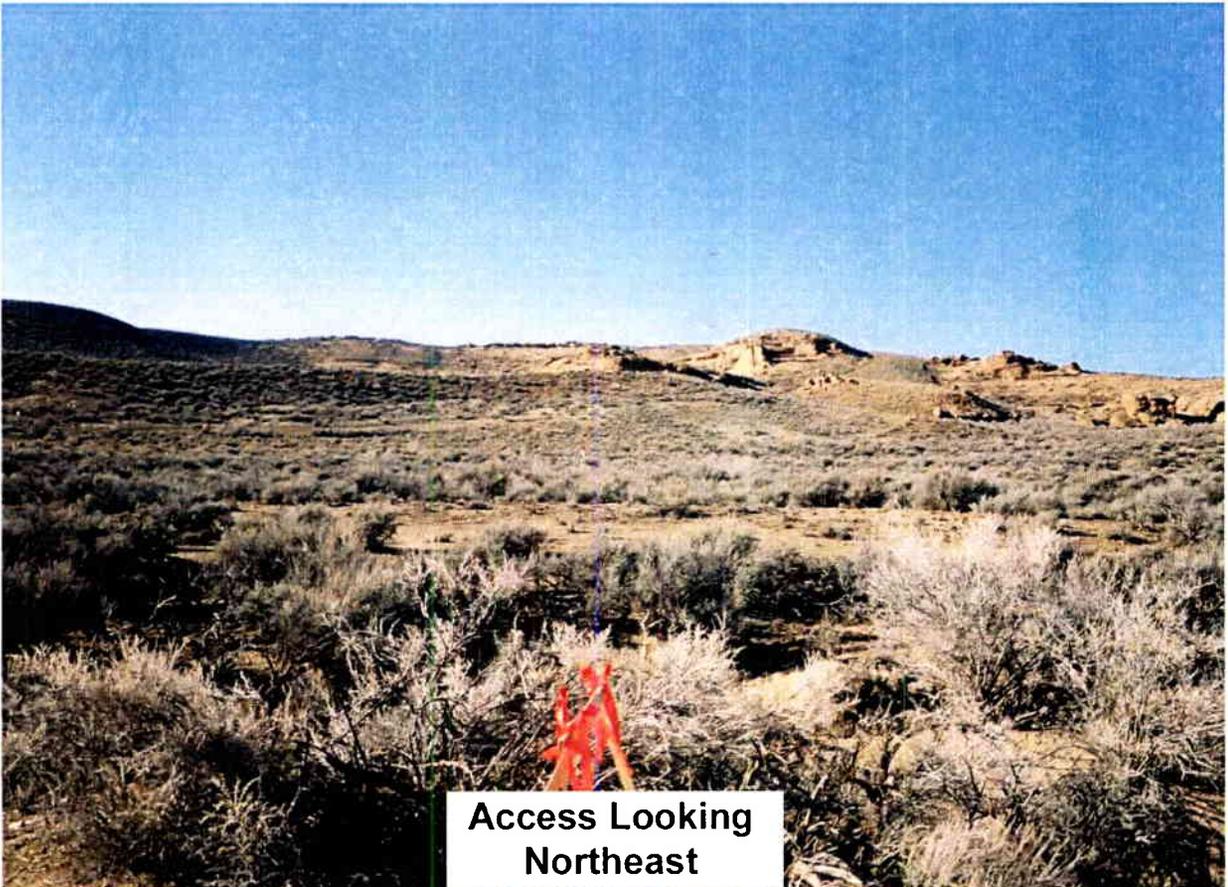
8

OF 8

Southam Canyon 9-25-22-32 Well Pad



Well Pad Sign

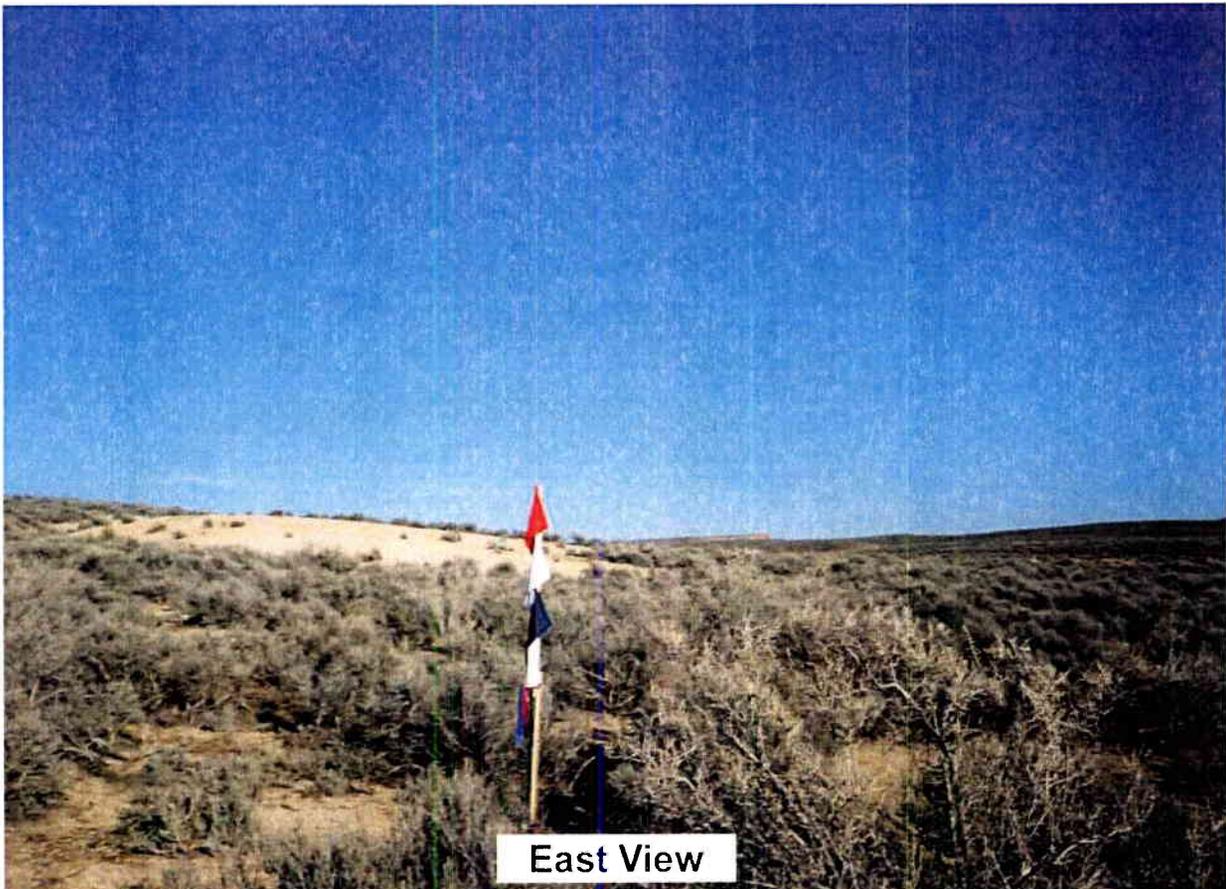


**Access Looking
Northeast**

Southam Canyon 9-25-22-32 Well Pad



North View

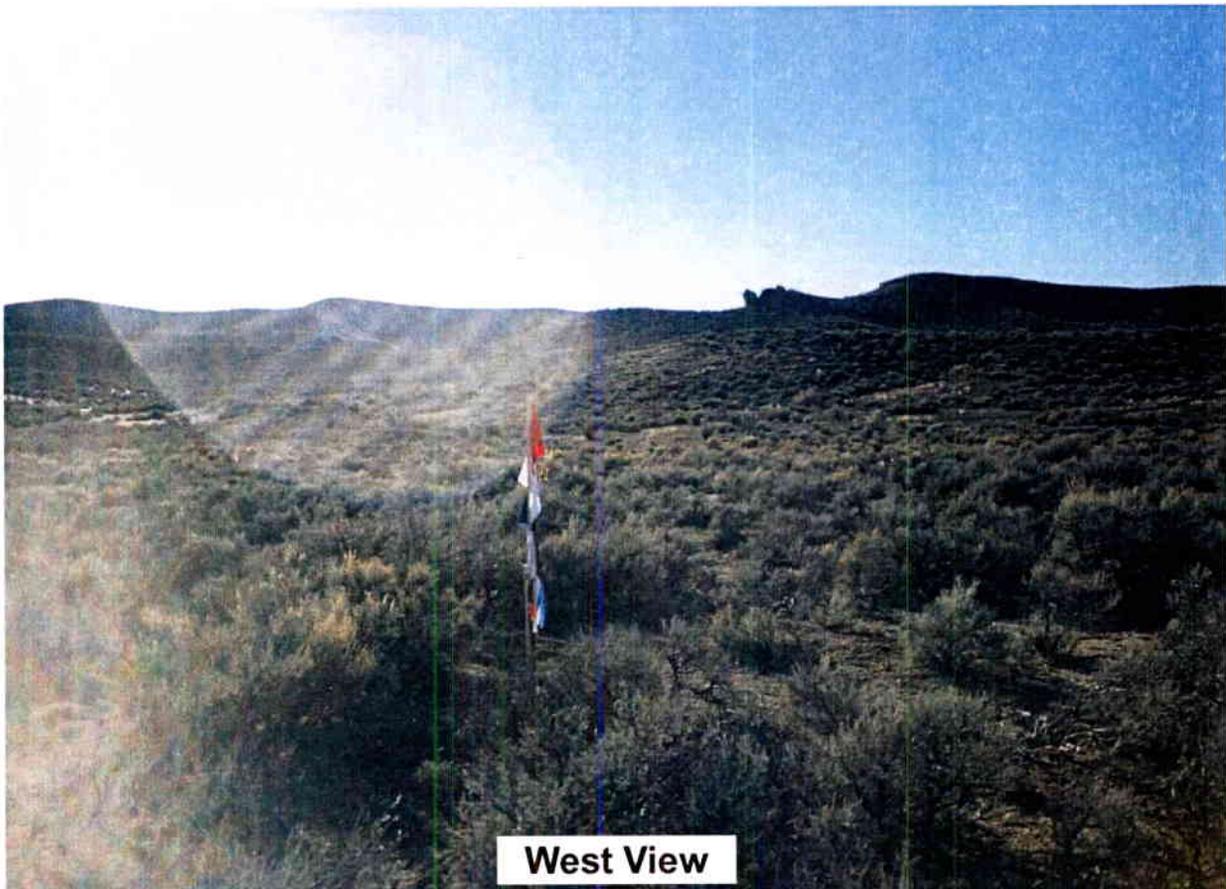


East View

Southam Canyon 9-25-22-32 Well Pad



South View



West View

CULTURAL RESOURCE INVENTORY OF
ENDURING RESOURCES'
SOUTHAM CANYON 9-25-22-32,
SOUTHAM CANYON 10-25-21-32,
AGENCY DRAW 12-21-31-36, AND
BIG PACK 12-21-22-2 WELL LOCATIONS,
IN UINTAH COUNTY, UTAH

Keith R. Montgomery
and
Shari Maria Silverman

Prepared For:

State of Utah
Trust Lands Administration
and
Bureau of Land Management
Vernal Field Office

Prepared Under Contract With:

Enduring Resources, LLC
475 17th Street, Suite 1500
Denver, Colorado 80202

Prepared By:

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

MOAC Report No. 05-77

March 25, 2005

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

State of Utah Antiquities Project (Survey)
Permit No. U-05-MQ-0183s

ABSTRACT

A cultural resource inventory was conducted by Montgomery Archaeological Consultants (MOAC) in March 2005 for Enduring Resources' Southam Canyon 9-25-22-32, Southam Canyon 10-25-21-32, Agency Draw 12-21-31-36, and Big Pack 12-21-22-2 proposed well locations with access and pipeline corridors. The project area occurs in the Big Pack Mountain, Agency Draw, and Southam Canyon areas area, south of Vernal, Utah. The survey was implemented at the request of Ms. Phyllis Sobotik, Enduring Resources, LLC, Denver, Colorado. A total of 79.59 acres was inventoried for cultural resources with 53.04 acres on lands administered by the State of Utah School and Institutional Trust Lands Administration (SITLA) and 26.55 acres on public land administered by the Bureau of Land Management (BLM), Vernal Field Office.

The cultural resource inventory resulted in the documentation of one new archaeological site (42Un4743), a historic corral, and the revisitation of one previously recorded site (42Un2487), the Buck Canyon Road, which was re-recorded by MOAC in 2002, and recommended as not eligible to the NRHP. The corral (42Un4743) is also recommended as not eligible to the NRHP, because it is not known to be associated with significant events or persons, does not have a unique construction type, and would probably not contribute significant data to the region's historic record.

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INTRODUCTION

A cultural resource inventory was conducted by Montgomery Archaeological Consultants (MOAC) in March 2005 for Enduring Resources' Southam Canyon 9-25-22-32, Southam Canyon 10-25-21-32, Agency Draw 12-21-31-36, and Big Pack 12-21-22-2 proposed well locations with access and pipeline corridors. The project area occurs in the Big Pack Mountain, Agency Draw, and Southam Canyon areas area, south of Vernal, Utah. The survey was implemented at the request of Ms. Phyllis Sobotik, Enduring Resources, LLC, Denver, Colorado. A total of 79.59 acres was inventoried for cultural resources with 53.04 acres on lands administered by the State of Utah School and Institutional Trust Lands Administration (SITLA) and 26.55 acres on public land administered by the Bureau of Land Management (BLM), Vernal Field Office.

The objective of the inventory was to locate, document, and evaluate any cultural resources within the project area in order to comply 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 Environmental Policy Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979, the American Indian Religious Freedom Act of 1978, and Utah State Antiquities Act of 1973 (amended 1990).

The fieldwork was performed on March 15 through 21, 2005 by Keith R. Montgomery, (Principal Investigator), assisted by Todd Seacat, Jennifer Taylor, and Mark Beeson, under the auspices of U.S.D.I. (FLPMA) Permit No. 04-UT-60122 and State of Utah Antiquities Permit (Survey) No. U-05-MQ-0183s issued to MOAC.

A file search was performed by Marty Thomas at the State Historic Preservation Office in Salt Lake City on March 11, 2005. This consultation indicated that several cultural resource inventories have been conducted near the project area.

In 1980, Woodward-Clyde Consultants completed a cultural resource inventory of a MAPCO pipeline project, which included a 115 mile section in northern Utah (Woodward-Clyde Consultants 1980, U-80-WG-0299b,f,n,p,s), revealing no sites near the project area.

In 1981, Nickens and Associates completed a cultural resource inventory for the Seep Ridge area using sample survey units (Larralde and Chandler 1981, U-81-NH-0590b). During this investigation, they found no archaeological sites near the current project area.

In 1997, Metcalf Archaeological Consultants, Inc. conducted a cultural resource inventory of approximately 12.5 miles of pipeline route in the Willow Creek vicinity, revealing a historic road (42Un2487), Buck Canyon Road (Graham 1997, U-97-MM-0663b). This intersects with the access road and pipeline to well location Agency Draw 12-21-31-36, but it will not be directly affected.

In 1998, An Independent Archaeologist conducted two cultural resource inventories for Questar Gas Management Company. One included the Buck Canyon Pipeline Lateral, which revealed four sites (Truesdale 1998a, U-98-AY-0044b,s,i). Only one site, the previously recorded Buck Canyon Road (42Un2487), is in the project's vicinity. The other survey was for an alternative route for the aforementioned pipeline, revealing the same sites as the previous inventory (Truesdale 1998b, U-98-AY-0256b,s,i).

In 2002, Montgomery Archaeological Consultants, Inc. completed a cultural resource inventory under contract with Buyes and Associates for the Veritas DGC Land, Inc. Uintah Seismic Project. Of the 75 archaeological sites found or revisited, three lie near well location Agency Draw 12-21-31-36 (Elkins and Montgomery 2002, U-02-MQ-0243b,p,s). One is Buck Canyon Road (42Un2487). The other two include a historic trash scatter (42Un3092), and a historic rock cairn (42Un3093). Neither of these sites are located in the project's immediate vicinity.

DESCRIPTION OF PROJECT AREA

The four proposed Enduring Resources' well locations, with access and pipeline corridors are situated south of Vernal, Utah, southeast and southwest of Bonanza, Utah, southeast of the Chapita Wells Gas Field, north of the Buck Canyon Gas Field, east of Willow Creek, and west of the White River. The legal description is Township 9 South, Range 25 E, Section 32, Township 10 South, Range 25 East, Section 32, and Township 12 South, Range 21 East, Sections 2, 3, 4, 10, 11 and 36 (Figures 1 through 4 and Table 1).

Table 1. Enduring Resources' Four Well Locations.

Well Location Designation	Legal Location	Access/Pipeline	Cultural Resources
Southam Canyon 9-25-22-32	T 9S, R 25E, S. 32 SE/NW	Pipeline and Access within 10-acre	None
Southam Canyon 10-25-21-32	T 10S, R 25E, S. 32 NE/NW	Pipeline and Access within 10-acre	None
Agency Draw 12-21-31-36	T 12S, R 21E, S. 36 NW/NE	Pipeline/ Access: 1272 ft	None
Big Pack 12-21-22-2	T 12S, R 21E, S. 2 SE/NW	Pipeline: 15,479 ft	42Un2487 42Un4743

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. The geology is comprised of Tertiary age deposits which include Paleocene age deposits, and Eocene age fluvial and lacustrine sedimentary rocks. The Uinta Formation, which is predominate in the project area, occurs as eroded outcrops formed by fluvial deposited, stream laid interbedded sandstone and mudstone, and is known for its prolific paleontological localities.

Specifically, the project area is situated on rocky ridges along the west side of the White River, which is characterized by flat topped buttes and narrow steep-sided ridges. The area is heavily dissected and carved by ephemeral drainages. Surface geology consists of hard pan residual soil armored with shale and sandstone pebbles. The elevation ranges between 5500 ft and 6200 ft a.s.l. The project occurs within the Upper Sonoran Desert Shrub Association which includes sagebrush, shadscale, greasewood, mat saltbush, snakeweed, rabbitbrush, prickly pear cactus, Indian ricegrass and other grasses. Modern disturbances include roads and oil/gas development.

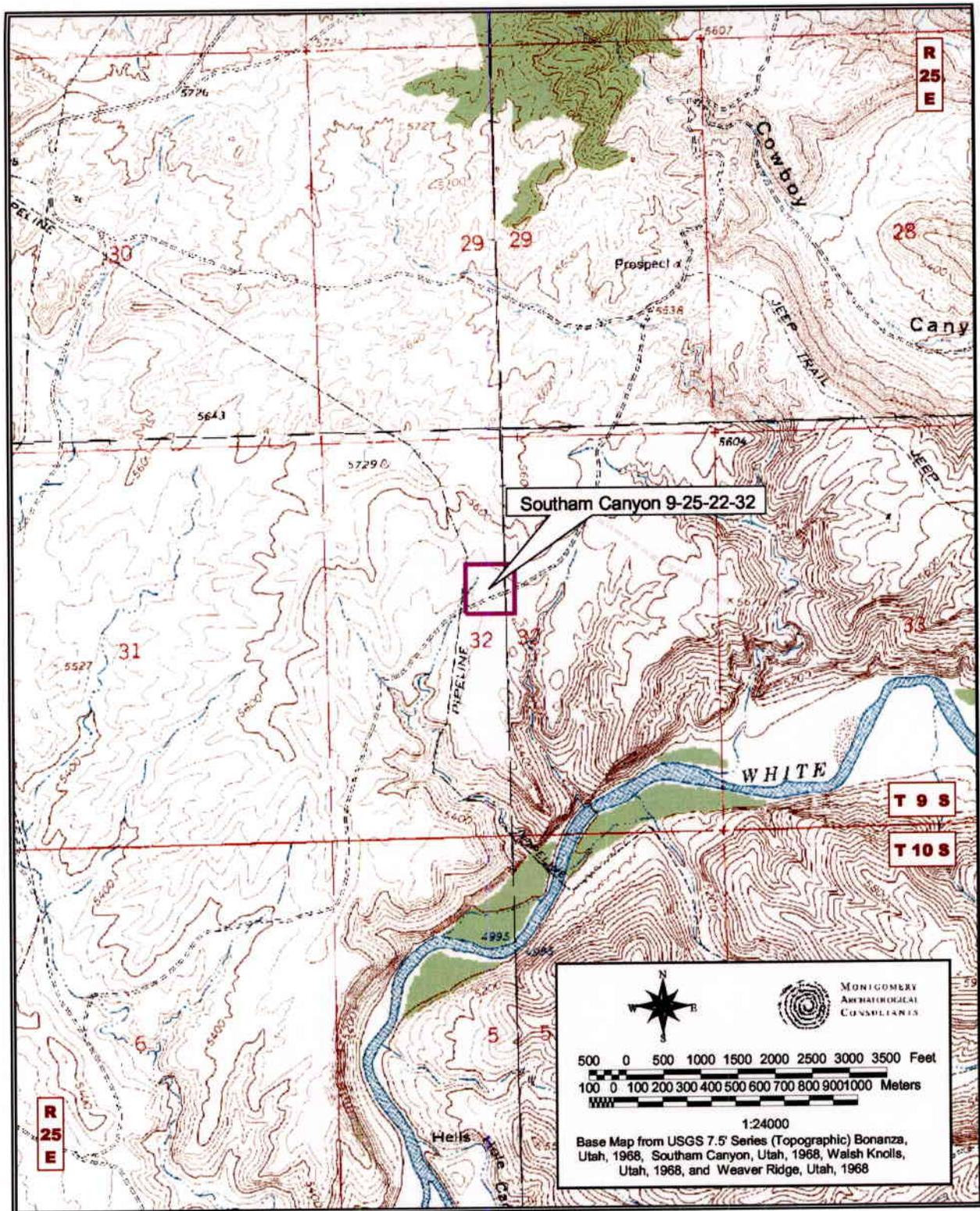


Figure 1. Inventory Area of Enduring Resources' Southam Canyon 9-25-22-32 Well Location, Uintah County, Utah.

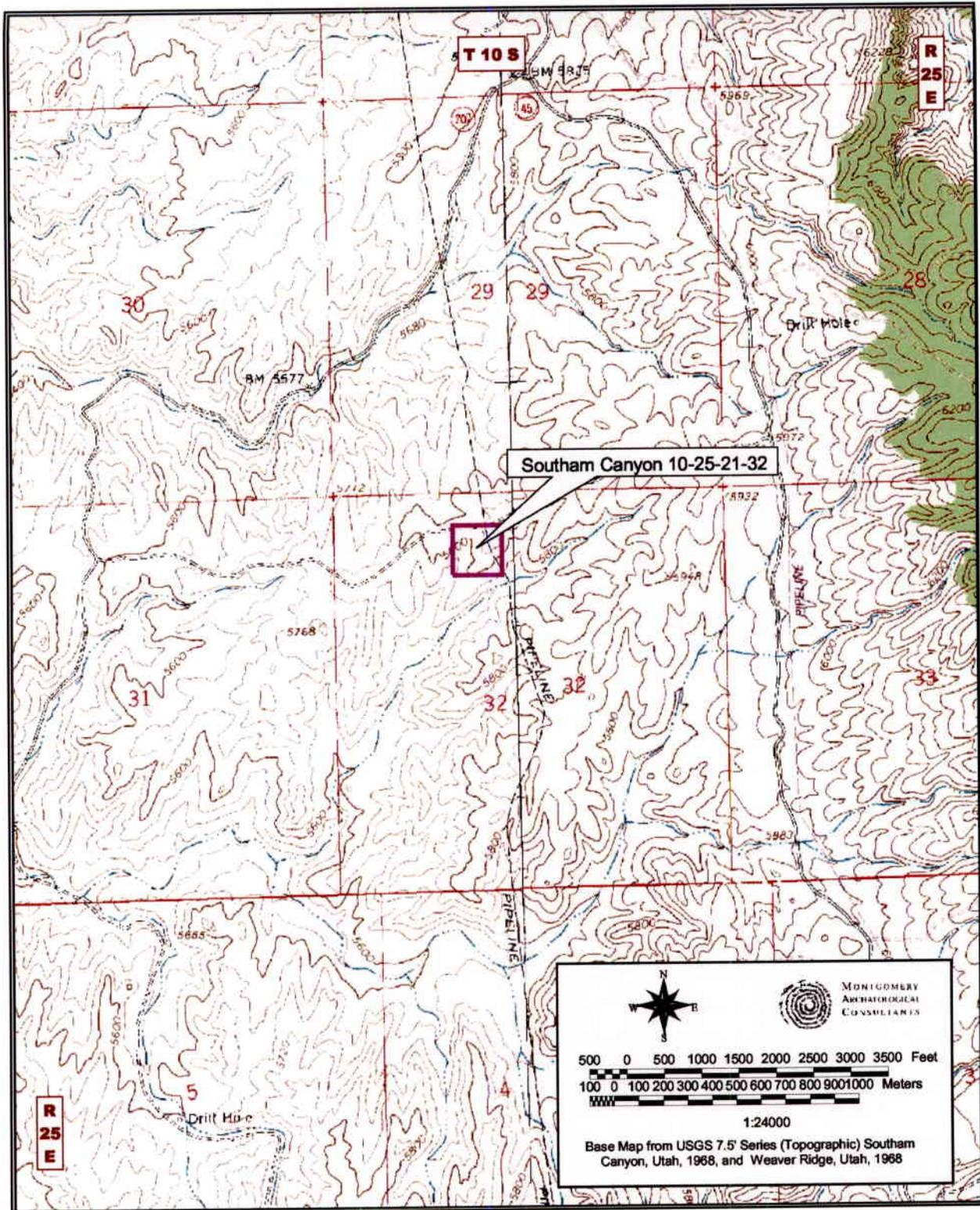


Figure 2. Inventory Area of Enduring Resources' Southam Canyon 10-25-21-32 Well Location, Uintah County, Utah.

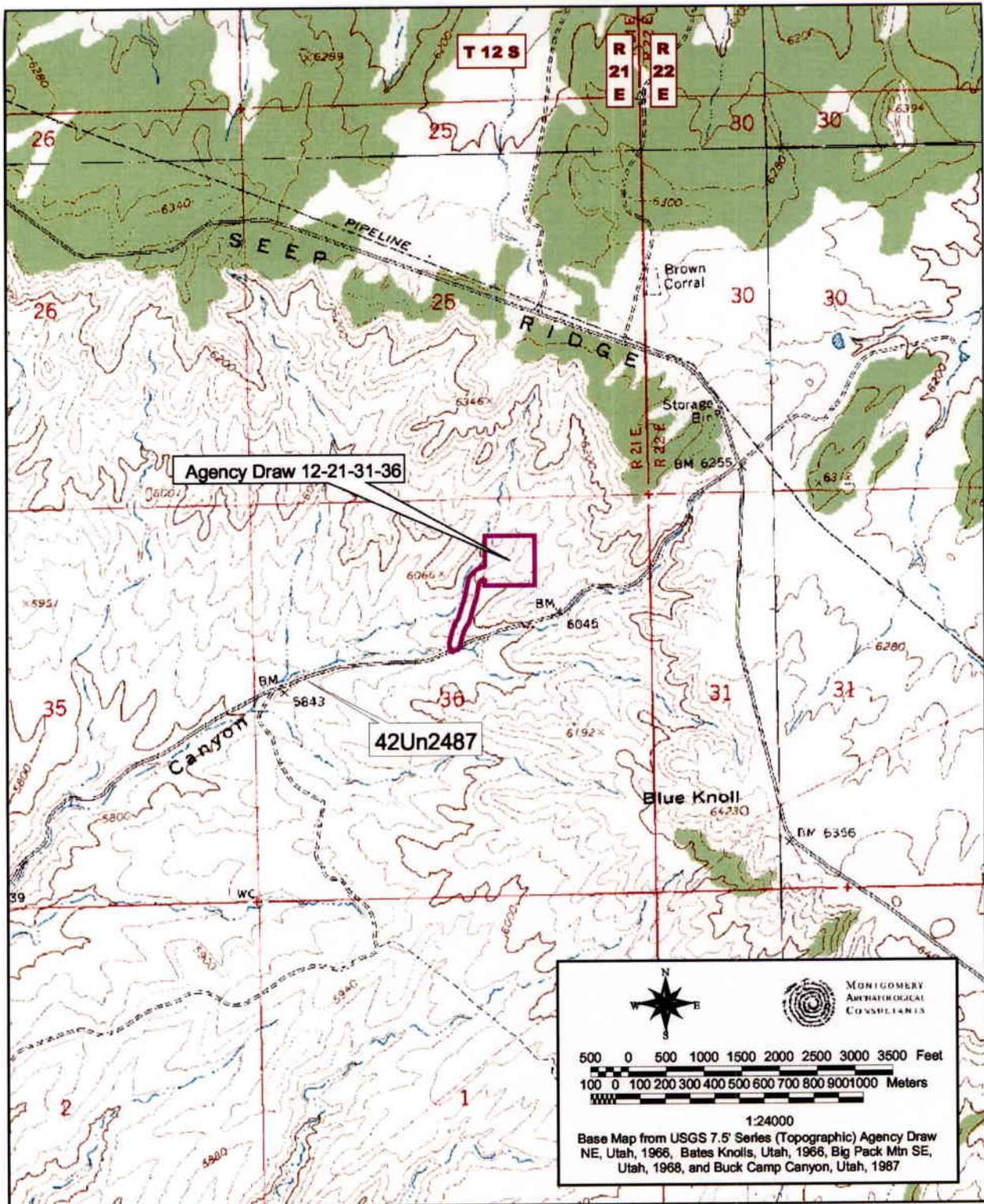


Figure 3. Inventory Area of Enduring Resources' Agency Draw 12-21-31-36 Well Location with Pipeline and Access, Uintah County, Utah.

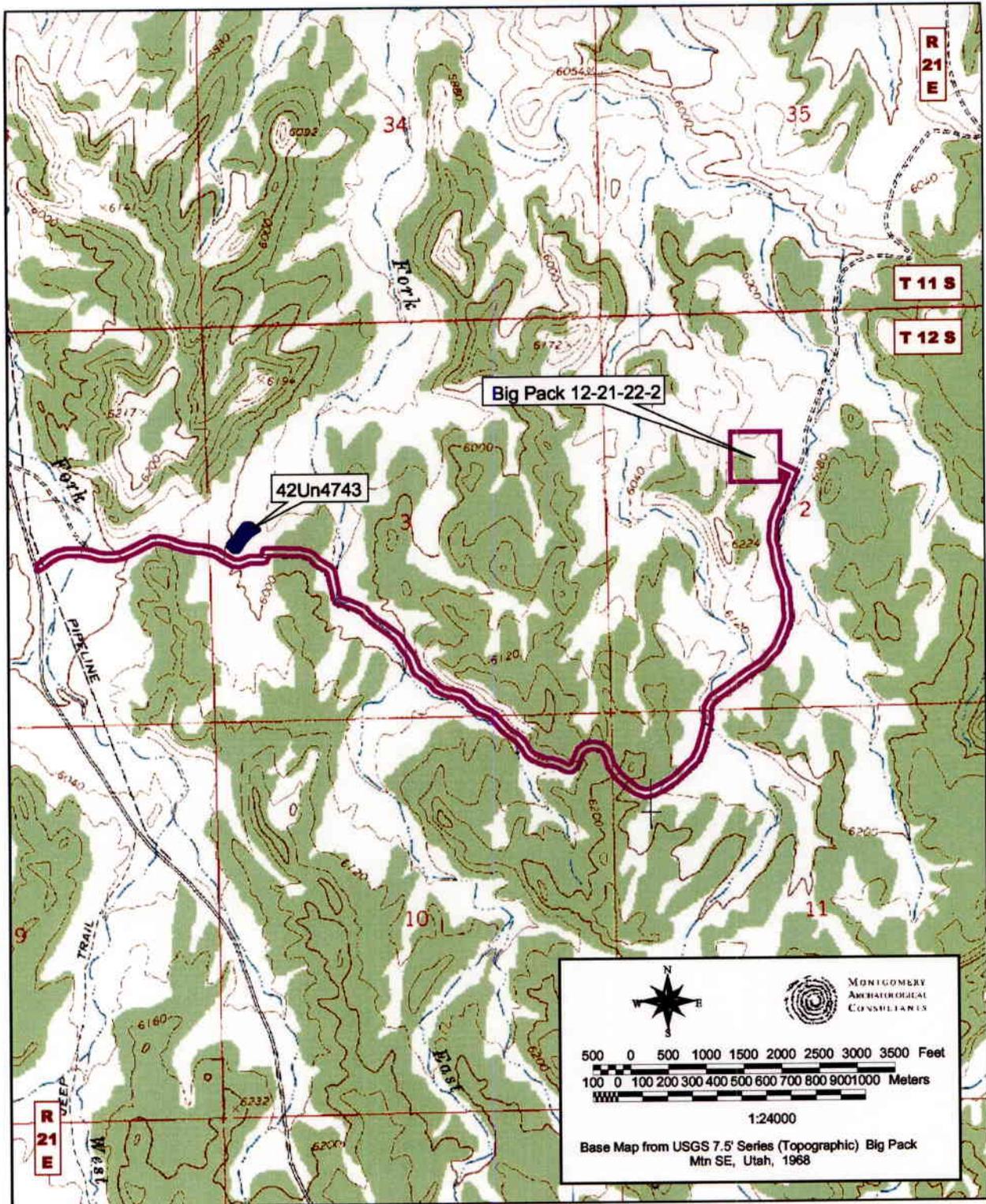


Figure 4. Inventory Area of Enduring Resources' Big Pack 12-21-22-2 Well Location with Pipeline and Cultural Resources, Uintah County, Utah.

Cultural-Historical Overview

The cultural-chronological sequence represented in the study area includes the Paleoindian, Archaic, Fremont, Protohistoric, and Euro-American stages. The earliest inhabitants of the region are representative of the Paleoindian stage (ca. 12,000-8,000 B.P.). This stage is characterized by the adaptation to terminal Pleistocene environments and characterized by the exploitation of big game fauna. The presence of Paleoindian hunters in the Uinta Basin region is implied by the discovery of Clovis and Folsom fluted points (ca. 12,000 B.P. - 10,000 B.P.), as well as the more recent Plano Complex lanceolate projectile points (ca. 10,000 B.P. - 7,000 B.P.). However, no such artifacts have been recovered in stratigraphic or chronometrically controlled contexts in northeastern Utah.

The Archaic stage (ca. 8,000 B.P. - 1,500 B.P.) is characterized by peoples depending on a foraging subsistence strategy, seasonally exploiting a wide spectrum of plant and animal species in different ecozones. The shift to an Archaic lifeway was marked by the appearance of new projectile point types perhaps reflecting the development of the atlatl in response to a need to pursue smaller and faster game (Holmer 1986). In northeastern Utah, evidence of widespread Early Archaic exploitation is relatively sparse compared to the subsequent Middle and Late Archaic periods. Early Archaic (ca. 6000 to 3000 B.C.) sites in the basin include sand dune sites and rockshelters clustered mainly in the lower White River drainage as well as along the Green River in the Browns Park and Flaming Gorge area (Spangler 1995:373). Projectile points recovered from northeastern Utah include Pinto Series, Humboldt, Elko Series, Northern Side-notched, Hawken Side-notched, Sudden Side-notched and Rocker Base Side-notched points. The Middle Archaic period (ca. 3000 to 500 B.C.) is characterized by improved climatic conditions and increased human populations on the northern Colorado Plateau. Several stratified Middle Archaic sites have been excavated and dozens of sites have been documented in the study area. Middle Archaic sites in the area reflect cultural influences from the Plains, although a Great Basin and/or northern Colorado Plateau influence is represented in the continuation of the Elko Series projectile points. The Late Archaic period (ca. 500 B.C. to A.D. 550) in the area is distinguished by the continuation of Elko Series atlatl points with the addition of semi-subterranean residential structures at base camps. By about A.D. 100, maize horticulture and Rose Springs arrow points had been added to the Archaic lifeway. Rock art styles commonly attributed to Colorado Plateau Archaic peoples include the Barrier Canyon Style which has been ascribed a temporal span of ca. 1000 B.C. to A.D. 500 by Cole (1990:67).

The Formative stage (A.D. 500-1300) is defined by Spangler (1993, 1995) by the Tavaputs Plateau adaptation which includes Formative peoples of the Book Cliffs, East Tavaputs and West Tavaputs Plateau (primarily Nine Mile, Range Creek, Hill Creek and Willow Creek) which have been traditionally assigned to the San Rafael or Uinta variant by Marwitt (1970). According to Spangler (1995:499) although groups in both areas (e.g., Uinta Basin and Tavaputs Plateau) were semi-sedentary, manufactured pottery, and practiced maize horticulture, such traits such as architectural styles, storage strategies, settlement patterns, chronology, and rock art styles were significantly different. Differences between these two Fremont cultural adaptations are likely due to environmental differences between the two regions. The Tavaputs Plateau is dominated by deeply incised canyons while the Uinta Basin topography is characterized as relatively flat lowlands, sloping surfaces, and wide shallow valleys (Stokes 1986). In the Tavaputs Plateau area, habitation sites are usually confined along stream terraces and on outcrops in deeply striated canyons such as Hill Creek and Willow Creek (Spangler 1995:502). Compared to the Uinta Basin, the Fremont presence was apparently sparse prior to about A.D. 1000 as shown by a cluster of dates between A.D. 1000 and 1300 (Spangler 1999:63). Residential structures on the plateau are characterized

by abundant dry-laid masonry construction and settlement patterns featuring clusters of pithouses along stream terraces and surface masonry structures on rock outcrops, pinnacles and cliff ledges (Spangler 1995, 1999). On both sides of the Green River, the use of dry-laid masonry "towers" and walled "forts", (dating after A.D. 700), suggests a defensive behavioral mode involving both the protection of people and the protection of stored resources (Spangler 1999:61) In terms of material culture, in the Tavaputs Plateau area the ceramic assemblage is dominated by Emery Gray types made of basalts found to the south in the vicinity of the San Rafael Swell. Spangler (1999:59) remarks that in comparison to the Uinta Basin, where ceramics appear to have played a significant role in the Fremont lifeway, pottery sherds are extremely rare at Tavaputs Plateau sites.

Fremont style rock art includes well-made petroglyphs, rock paintings (monochrome and polychrome), and combination petroglyph-rock paintings that feature heroic and supernatural appearing anthropomorphs, often near life size. The rock art of Willow Creek falls within the geographic area for the Northern San Rafael Fremont Style, which according to Schaafsma (1971) shares stylistic similarities with the Barrier Canyon Style on the northern Colorado Plateau. Elements of the Northern San Rafael Style include scalps, masks, and heads; concentric circles, spirals, lines, and other geometric designs; quadrupeds such as bighorn sheep, pronghorn, deer or elk, bison, and canines; scorpion and centipede-like images and other possible insects; lizards; snakes; shieldlike images; owls, wading birds; footprints, paw prints, and ungulate tracks (Cole 1990; Schaafsma 1971).

Archaeological evidence suggests that Numic peoples appeared in east-central Utah at approximately A.D. 1100 or shortly before the disappearance of Formative-stage peoples (Reed 1994). Numic or Numic-speakers may have coexisted with sedentary Fremont populations. The demise of the Fremont may have been nothing more than a shift in subsistence strategies from primarily horticulture to exclusively hunting/gathering (Simms 1979) rather than an actual arrival of new people. The archaeological remains of Numic-speaking Utes consist primarily of lithic scatters with low quantities of brown ware ceramics, rock art, and occasional wickiups. The brown ware ceramics appear to be the most reliable indicator of cultural affiliation, as Desert Side-notched and Cottonwood Triangular points were manufactured by other cultural groups beside the Ute (Horn, Reed, and Chandler 1994:130). The Protohistoric Utes are the decedents of these (Numic-speaking) hunter and gatherers whom exploited various fauna and flora resources. The cultural history of the Eastern Ute, comprising the bands living east of the Green River, has been divided into four phases (Reed 1988). The earliest and most tenuous phase is the Chipeta Phase, dated between ca. 1250 and 1400. Diagnostic artifacts include Desert Side-notched, Cottonwood Triangular, and small corner-notched arrow points and possibly Shoshonean knives. The Canalla phase (ca. A.D. 1400-1650) designates the period between the appearance of well-dated Uncompahgre brown ware ceramics and the adoption of an equestrian lifeway. Diagnostic artifacts include Uncompahgre Brown Ware ceramics, Desert Side-notched and Cottonwood Triangular points, and Shoshonean knives. The pedestrian hunter and gatherers probably lived in wickiups. Near the end of the phase, some groups may have obtained trade items from Spanish settlements in New Mexico (Horn, Reed, and Chandler 1994:131). The Antero phase (ca. A.D. 1650-1881) represents a shift to a fully equestrian lifestyle and integration of Euroamerican trade goods into Ute material culture. The horse permitted hunting of bison on the Plains and led to an increase in the importance of raiding for economic gain (ibid:131). Euroamerican trade goods became important, and tepees as well as wickiups were inhabited. A number of Protohistoric (Numic) sites have been documented to the east in the Seep Ridge Study Tract identified mainly by Desert Side-notched points (Larralde and Chandler 1981). Most of these sites are short-term camps or limited activity areas situated on ridges and within sand dunes (ibid: 137-138).

The early Utes in Uintah County were Uinta-ats, a small band of a few hundred members (Burton 1996:20). In pre-horse days, Ute family groups lived largely independently of others with key gathering, hunting, and fishing sites being communal and granted to all, within both the local and extralocal Ute communities. Pronounced changes in Ute lifestyle began when southern and eastern Ute bands acquired the horse from Europeans, who began invading the Ute lands about 1550 (Duncan 2000:178). By 1776, Utes in Colorado had a highly developed tradition of horse use (Horn, Chandler and Reed 1994:141). Only those Utes in Utah who lived in areas with sufficient feed (i.e., the Uinta Basin, Wasatch Piedmont, and along the lower Sevier River) used the horse for transportation, whereas other Utes used horses for food (Ibid 141). According to Smith's (1974) informants both deer and buffalo were important game for the White River Ute band. Before the buffalo became extinct in the Uinta Basin in the 1830s, the Ute would make trips northeast of Fort Bridger in the vicinity of what is now Rock Springs and Green River, Wyoming using the horse to surround and drive the buffalo over a precipice (Callaway, Janetski, and Stewart 1986). Small mammals, rodents, fish, birds and insects were also procured, although this subsistence strategy was more evident among the Uintah Utes than among the Yampa or Uncompahgre Utes (Spangler 1995:742). All Ute groups made tripod or conical houses with a three or four-pole foundation and a circular ground plan some 10-15 feet in diameter with covering brush or bark and cooking or heating fires in shallow pits both inside and outside of the huts (Smith 1974). The utilization of these structures apparently continued even after the introduction of the tipi (Spangler 1995:745). Most Ute bands employed the sweat lodge usually made of willows struck in the ground in a circular pattern and tied at the top to create a dome-shaped structure (Smith 1974:43). Sweat lodges were 8 to 10 feet in diameter and 4 to 5 feet in height. The top was covered with a buffalo robe, tipi cover or willow brush with rabbit-skin blanket over the top. Stones were heated outside the structure and brought into a central hearth three or four stones at a time with water applied to the stones, creating steam (Spangler 1995:747). Three types of storage facilities were used by Ute groups in the area. One involved the construction of pits in cliff overhangs or shelters with rawhide or woven sagebrush bark bags containing food items stashed within them (Ibid 1995:746). The storage pit was then covered with soil and a fire was constructed over the top to destroy evidence that the pit had been excavated (Smith 1974:67). A second strategy involved the construction of platforms made of sticks of coniferous trees with foliage thick enough to protect the cache from inclement weather (Spangler 1995:746). When the sacks had been placed on the platform they were usually covered with cedar bark, so that the rain would drain off (Smith 1974:67). A third strategy involved storage platforms about 5 feet high placed outside the brush shelters and tipis (Spangler 1995:746). These platforms, erected on poles, were either slightly sloping or flat and hollowed out with the platforms made of bound together sagebrush.

On May 5, 1864, Congress passed a law confirming the 1861 executive order setting up the Uintah Reservation (Burton 1996:24). This treaty provided that the Ute people give up their land in central Utah and move within one year to the Uintah Reservation without compensation for loss of land and independence. The Uinta-ats (later called Tavaputs), PahVant, Tumpawanach, and some Cumumba and Sheberetch of Utah were gathered together at the Uintah agency during the late 1860s and early 1870s to form the Uintah Band (Burton 1996:18-19). In the 1880 treaty council the White River Utes, who had participated in the Meeker Massacre, were forced to sell all their land in Colorado and were moved under armed escort to live on the Uintah Reservation (Callaway, Janetski, and Stewart 1986:339). The Uncompahgre Utes are named after the agency established for them in 1875 in the Uncompahgre River Valley in Colorado. Around 1880, 361 Uncompahgre Utes were forced to sell their lands, and relocated to the Ouray Reservation adjacent to the southern boundary of the Uintah Reservation. A separate Indian Agency was established in 1881 with headquarters at Ouray, erected across the river from where the first military post, Fort

Thornburgh was located. On January 5, 1882, President Chester A. Arthur issued an executive order creating the Uncompahgre Indian Reservation. The boundaries extended south of the Uintah Reservation a distance 45 miles. Most of the land within the reservation was arid and desolate, containing little water or arable land that would make the region attractive to white homesteaders.

The General Allotment Act (Dawes Severalty Act of 1887), provided for the allotment of tribal lands to individual tribe members in which to raise crops on 40, 80 or 160 acre parcels. All lands not allotted under severalty was to be declared public domain and opened to ranchers, homesteaders, and mineral speculators. Encouraging Native Americans to purchase (at \$1.25 an acre) individual allotments within the reservations eventually created a checkerboard of private and reservation land. The leaders of the Uncompahgre, White River, and Uintah Utes opposed allotment and in 1895 a commission was appointed to survey and allot the Uncompahgre lands (Duncan 2000:203). There was not enough arable land to provide suitable allotments of all Uncompahgre, so it was decided to take the needed additional lands from the Uintah and White River Utes. In 1897 Congress passed an act requiring allotments to be made on the Uncompahgre Reservation (Ibid 203). The allotment commission began issuing parcels to Uncompahgre Utes in 1895, although the process was delayed by the Utes' refusal to pay the \$1.25 per acre allotment fee and their reluctance to accept land in areas without water or sufficient forage for livestock (Spangler 1995:734). The only lands suitable for cultivation were along the Green and White Rivers, and along Evacuation, Bitter, Willow and Hill Creeks.

The earliest recorded visit by Europeans to Utah was the Dominguez-Escalante expedition, of 1776. From the early 1820s to 1845, the Uinta Basin became an important part of the expanding western fur trade. Homesteading began in 1878 with Thomas Smart, one of the first white settlers to settle east of Ouray. In 1879, about forty cowboys and several large herds of cattle wintered on the White River. The winter of 1879-1880 saw the establishment of a settlement near the White River by several pioneers and their families including Ephraim Ellsworth, the Remingtons, and the Campbells. The person most responsible for organizing a permanent homesteading movement in Ouray Valley was William H. Smart, the brother of Thomas Smart, who became president of the Wasatch LDS Stake in 1901 (Burton 1998). When the Ute reservation was opened to white homesteaders in 1905, Smart organized several exploration trips into the area that later attracted many LDS families.

Initially, livestock was the main industry of white homesteaders in Uintah County. Two factors - free grass and the availability of water - influenced men to move their cattle into the county. Most of the land in the area was part of the public domain and no territory or state could tax it. Cattle were eventually brought up east as far as the Green River and then to the surrounding mountains. Large cattle herds had been coming to Brown's Park from Texas and other eastern areas since the early 1850s. The K Ranch was a large cattle operation owned by P.R. Keiser which brought many cowboys to the area. The ranch was located on the Utah-Colorado line with property in both states. Charley Hill, who came to Ashley Valley as a trapper for the Hudson Bay Company, started a cattle company on Hill Creek and Willow Creek in the Book Cliffs (Burton 1996:109). They later moved out when the government set this section aside for the Ouray Indian Agency. Other prominent men in the cattle industry included A.C. Hatch, Dan Mosby, and James McKee. Cattle rustling became an increasingly large problem as cattle herds grew, and conflict resulted between the small and large cattle companies. In 1912, the Uintah Cattle and Horse Growers Association was organized to protect the livestock industry from thieves and to issue an authorized brand book (Ibid: 110).

In 1937, the Bureau of Indian Affairs purchased all of the ranches along Hill Creek in the Book Cliffs for the Ute Tribes. Several ranchers such as Abe and Golden Hatch owned small homestead ranches on Willow Creek and the surrounding areas that operated for a few more years.

Golden finally sold out to his son, Shorty Hatch, and Clive Sprouse (Burton 1998:514). One newly documented site for this project, 42Un3129, is named on USGS maps as "Hatch's Camp" and is probably related to this family of ranchers.

The sheep industry later became part of Uintah County's economic backbone, and contributed to the decline of the cattle industry. Sheep were first introduced to the valley during the winter of 1879 when Robert Bodily brought in sixty head (Burton 1996:111). Sheep were able to survive the hard winters much better than cattle. By the mid-1890s, more than 50,000 head of sheep were in the region; and the production of wool became very important. In 1897, C.S. Carter began building shearing corrals. In 1899, 500,000 pounds of wool were shipped from the county and sold for twelve and one-half cents per pound (Ibid:111). In 1906, the Uintah Railway Company built shearing pens on the Green River to encourage the shipping of wool by train; and in 1912, pens were built at Bonanza and Dragon. Beginning in the 1940's Mexican sheep-shearing crews and Greek sheepmen from the Price and Helper areas came into the area. The Taylor Grazing Act was passed in 1934, allotting specific areas or "districts" to stockmen for livestock grazing that required permits. This act was a forerunner of the Bureau of Land Management, which was established in 1946 and eventually assumed responsibility for the administration of grazing laws on public land (Burton 1996:115).

Uintah County is also known for its natural resources. Coal, copper, iron, asphalt, shale, and especially gilsonite, were important to the mining industry. When gilsonite was discovered in the Uinta Basin in the 1880s, Congress was persuaded to apportion 7,040 acres from the Ute reservation so the mineral could be mined. This area became known as "The Strip" and later developed into the townsite of Moffat (later renamed Gusher). Gilsonite is a light-weight lustrous black hydrocarbon mineral that can easily be crushed into a black-brown powder. It can be found in commercial quantities only in the Uinta Basin. The earliest use of the mineral was in buggy paints and beer-vat linings. Today it is used in over a hundred products ranging from printing inks to explosives and automobile body sealer and radiator paint (Burton 1998:343). Mining camps also sprang up near the Colorado line in Bonanza, Dragon, and Watson starting in about 1903. Many immigrants, including Greeks and Chinese, worked in the mines. Bonanza became one of the largest and most modern functioning mining camps in the area beginning in 1921 and reaching its peak in 1937. It was chosen as the Barber gilsonite company headquarters, because it was near the largest deposits of gilsonite in the area. Miners from Dragon, Rainbow, and other neighboring communities were relocated to Bonanza.

Specific to the project area, Watson Thompson homesteaded lands in Sections 1, 6, and 7 of Township 12 South, Range 21 East on September 13, 1930 under the May 20, 1862 Homestead Entry Act (12 Stat. 392) (General Land Office Accession No. 1040635). This area surrounds the Big Pack 12-21-22-2 well location and associated pipeline. The historic corral (42Un4743) is in this region.

SURVEY METHODOLOGY

An intensive pedestrian survey was performed for this project which is considered 100% coverage. At each of the proposed well locations, a ten acre 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 and pipeline corridors were 100 ft wide, surveyed by walking parallel transects along the staked centerline, spaced no more than 10 m (30 ft) apart. A wider corridor (150 ft) was inspected when access/pipeline routes shared a corridor. Ground visibility was considered to be good. A total of 79.59 acres was inventoried for cultural resources with 53.04 acres on lands administered by the State of Utah School and Institutional Trust Lands Administration (SITLA) and 26.55 acres on public land administered by the Bureau of Land Management (BLM), Vernal Field Office.

Cultural resources were recorded as either an archaeological site or isolated find of artifact. Archaeological sites were defined as spatially definable areas with features and/or ten or more artifacts. Sites were documented by the archaeologists walking transects across the site, spaced no more than 3 meters apart, and marking the locations of cultural materials with pinflags. This procedure allowed clear definition of site boundaries and artifact concentrations. Archaeological sites were plotted on a 7.5' USGS quadrangle, and photographed with site data entered on an Inter-mountain Antiquities Computer System (IMACS, 1990 version) inventory form (Appendix A).

INVENTORY RESULTS

The inventory of the four proposed Enduring Resources' well locations, with access and pipeline corridors, resulted in the documentation of one new archaeological site (42Un4743), a historic corral, and the revisitation of one previously recorded site (42Un2487), the Buck Canyon Road.

Table 2. Archaeological Sites, Legal Descriptions, and NRHP Eligibility

Smithsonian Site Number	Temporary Site Number	Legal Description	Site Type	Eligibility
42Un2487 (Previously Recorded)	N/A	T 13S, R 21E; T 12S, R 21E	Historic Buck Canyon Road	Not Eligible
42Un4743	05-77-01	T 12S, R 21E	Historic Corral	Not Eligible

Archaeological Sites

Smithsonian Site No.: 42Un2487
Temporary Site No.: N/A
Proposed Well Location No.: Big Pack 12-21-22-2
Legal Description: Sections 2 and 3, T 13S, R 21E; Sections 35 and 36, T 12S, R 21E; and Sections 30 and 31, T 12S, 21E
NRHP Evaluation: Not Eligible

Description: This is a previously recorded segment of the historic Buck Canyon Road. It was originally documented in 1997 by Metcalf Archaeological Consultants during an inventory of the Double Triangle Pipeline (Graham 1997), and re-recorded by MOAC in 2002 (Elkins and Montgomery 2002). It consists of a 3.3 mile-long road segment which runs northeast-southwest between the Willow Creek Road and the Seep Ridge Road through Buck Canyon. No associated features, buildings, or artifacts were observed. It was recommended as not eligible to the NRHP because the current level of road maintenance has obliterated the original narrow track that must have existed, and no historic buildings or features were observed that could elevate the site's importance by association. No form for this site is included in this report.

Smithsonian Site No.: 42Un4743
Temporary Site No.: 05-77-01
Proposed Well Location No.: Big Pack 12-21-22-2
Legal Description: SW/SW/NW of Section 3, T 12 S, R 21 E
NRHP Evaluation: Not Eligible

Description: This is a historic corral with two hearths and a medium-density artifact scatter. The artifacts consist of tin containers, a tin sheet, tire fragments, and 20 fragments of a clear beverage bottle. The tin containers include a hole-in-top milk can (1935-1945), three sanitary food cans, one sanitary beverage can, a coffee can, and a lard pail. The juniper post and pine pole corral contains two separate components with eight gates.. It measures 105 m (344 ft) NE-SW by 42 m (138 ft) NW-SE. Its upright posts stand in pairs, averaging 1.4 m (4 ft, 6 in) tall above ground surface and 0.15 m (6 in) in diameter. Each pair is spaced 4.3 m (14 ft) apart. Five to six horizontal pine logs connect each pair of upright juniper posts. Their diameters range between 0.15 m (6 in) and 0.2 m (8 in). Their lengths are generally 4.9 m (16 ft), with ends overlapping those from adjacent segments. Log ends are both saw-cut and axe-hewn. The corral contains two components, a southern one (Corral A) and a northern one (Corral B). The southern component (Corral A) is square-shaped and divided into two pens with a head gate (Gate 7), another gate (Gate 1) in the west pen and a third one (Gate 2) to the east pen. The west pen measures 42 m (138 ft) NW-SE by 20 m (66 ft) NE-SW. The east pen measures 42 m (138 ft) NW-SE by 21 m (69 ft) NE-SW. Its northern component (Corral B) is triangular shaped with two pens and one chute. The northernmost pen is trapezoidal shaped and measures 30 m (98 ft) NE-SW by 23 m (75 ft) on its southwest side and 48 m (157 ft) on its northeast side. It has a gate (Gate 5) in its northern corner. Two others (Gates 4 and 6) enter the other section and the chute, respectively. The southern pen is triangular shaped, measuring 28 m (91 ft) NE-SW by 33 m (108 ft) NW-SE. The chute measures 29 m (95 ft) NE-SW by 2 m (7 ft) NW-SE. The chute has an additional gate (Gate 8) on its southern side.

Both features are on the northeast portion of the site. Feature A, a hearth, measures 1.5 m (5 ft) by 0.6 m (2 ft). It consists of two oxidized sandstone rocks, each measuring 0.6 m (2 ft) long by 0.5 m (1ft 6 in) high. Smoke stains the sides of the rocks, which face the other stone. The stones are spaced 0.3 m (1 ft) apart. Greasewood and sagebrush grow within the space. No soil staining or charcoal appear within or near the feature. It is located on the east side of the dirt road, 35 m, 70° from the corral's northeast corner. Feature B, another hearth, measures approximately 1 m (3 ft, 3 in) in diameter and has a slightly oval shape. It consists of sandstone cobbles. Charcoal flecks appear in the soil within the ring. It is located 52 m, 36° from the site datum.

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 cultural resource inventory resulted in the documentation of one new archaeological site (42Un4743), a historic corral, and the location of a previously recorded site (42Un2487), the Buck Canyon Road. The road was re-recorded by MOAC in 2002, and recommended as not eligible to the NRHP. The corral (42Un4743) is also recommended as not eligible to the NRHP, because it is not known to be associated with significant events or persons, does not have a unique construction type, and would probably not contribute significant data to the region's historic record.

MANAGEMENT RECOMMENDATIONS

The cultural resource inventory of the four proposed Enduring Resources' well locations, with access and pipeline corridors, resulted in the documentation of one new archaeological site (42Un4743), a historic corral, and the location of one previously recorded site (42Un2487), the Buck Canyon Road. Both of these sites are recommended as not eligible to the NRHP. Based on the findings, a determination of "no historic properties affected" is recommended for the undertaking pursuant to Section 106, CFR 800.

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APPENDIX A

SITES
INTERMOUNTAIN ANTIQUITIES COMPUTER SYSTEM (IMACS) SITE FORM
(42Un4743)

On File At:

Utah Division of State History
Salt Lake City, Utah

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

FORM 3

AMENDED REPORT
(highlight changes)

APPLICATION FOR PERMIT TO DRILL				5. MINERAL LEASE NO: ML 47047	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: N/A	
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: N/A	
2. NAME OF OPERATOR: Enduring Resources, LLC				9. WELL NAME and NUMBER: Southam Canyon 9-25-22-32	
3. ADDRESS OF OPERATOR: 475 17th St, Suite 1500 CITY Denver STATE CO ZIP 80202			PHONE NUMBER: (303) 350-5114	10. FIELD AND POOL, OR WILDCAT:	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1900' FNL 2182' FWL Sec 32 T9S R25E S.L.B.&M. 39.994365 AT PROPOSED PRODUCING ZONE: Same as above 659998X -109.125859 4428604Y				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SE NW 32 T9S 25E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 4.5 miles Southeast from Bonanza, Utah				12. COUNTY: Uintah	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 1631'	16. NUMBER OF ACRES IN LEASE: 582.34		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 80		
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) N/A	19. PROPOSED DEPTH: 5,900		20. BOND DESCRIPTION: See cover Letter		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5501.5' GR Ungraded	22. APPROXIMATE DATE WORK WILL START: 4/15/2005		23. ESTIMATED DURATION: 20 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"	8-5/8"	J-55	24#	2,000	65/35 Poz	462 sx	1.81 12.6 ppg
					Prem	236 sx	1.18 15.6 ppg
7-7/8"	4-1/2"	N-80/I-80	11.6#	5,900	Prem Lite II	212 sx	3.38 11.0 ppg
					50/50 Poz CI G	1140 sx	1.31 14.3 ppg

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

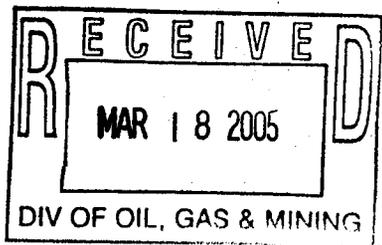
NAME (PLEASE PRINT) Phyllis Sobotik TITLE Regulatory Specialist

SIGNATURE *Phyllis Sobotik* DATE March 17, 2005

(This space for State use only)

API NUMBER ASSIGNED: 43-047-36422

APPROVAL:

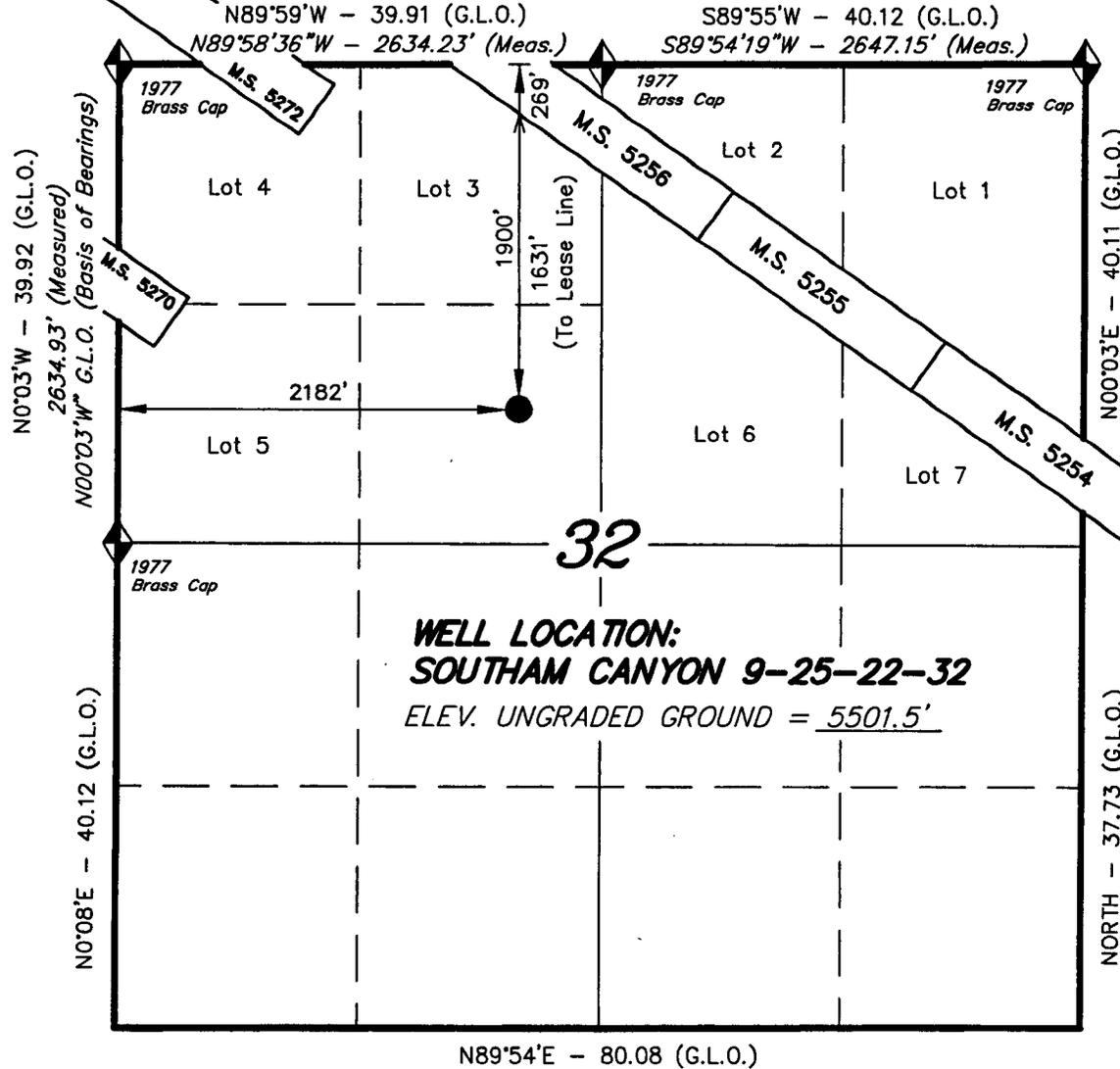


(11/2001)

CONFIDENTIAL (See Instructions on Reverse Side)

T9S, R25E, S.L.B.&M.

ENDURING RESOURCES



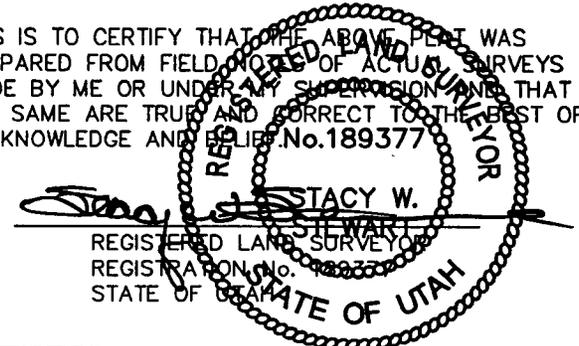
WELL LOCATION, SOUTHAM CANYON 9-25-22-32, LOCATED AS SHOWN IN THE SE 1/4 NW 1/4 OF SECTION 32, T9S, R25E, S.L.B.&M. UINTAH COUNTY, UTAH.



NOTES:

1. Bearings are based on Global Positioning Satellite observations.

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



◆ = SECTION CORNERS LOCATED

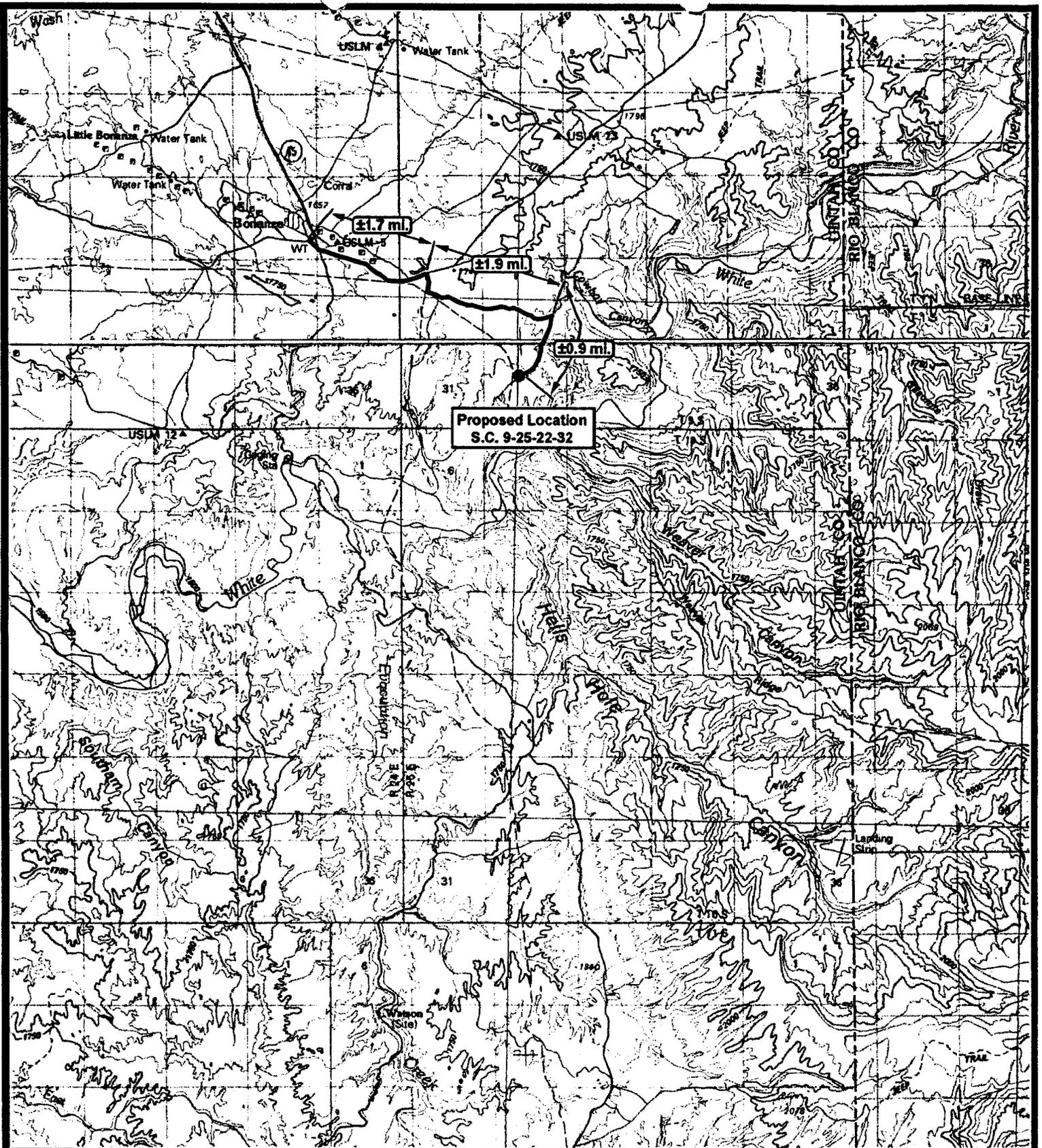
BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (SOUTHAM CANYON)

SOUTHAM CANYON 9-25-22-32
(Surface Location) NAD 83
 LATITUDE = 39° 59' 39.81"
 LONGITUDE = 109° 07' 35.67"

TRI STATE LAND SURVEYING & CONSULTING

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

DATE DRAWN: 3-10-05	SURVEYED BY: C.M.	SHEET 1 OF 8
REVISED:	DRAWN BY: F.T.M.	
NOTES:	SCALE: 1" = 1000'	



ENDURING
-Resources-



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

Legend
 Existing Road
 Proposed Access

Southam Canyon 9-25-22-32
Sec. 32, T10S, R25E, S.L.B.&M.

SCALE: 1" = 100,000'
DRAWN BY: bgm
DATE: 03-03-2005

TOPOGRAPHIC MAP
A
 SHEET **5** OF 8

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/18/2005

API NO. ASSIGNED: 43-047-36422

WELL NAME: SOUTHAM CYN 9-25-22-32
OPERATOR: ENDURING RESOURCES, LLC (N2750)
CONTACT: PHYLLIS SOBOTIK

PHONE NUMBER: 303-350-5114

PROPOSED LOCATION:

SENW 32 090S 250E
SURFACE: 1900 FNL 2182 FWL
BOTTOM: 1900 FNL 2182 FWL
UINTAH
WILDCAT (1)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DVD	4/21/05
Geology		
Surface		

LEASE TYPE: 3 - State
LEASE NUMBER: ML 47047
SURFACE OWNER: 3 - State
PROPOSED FORMATION: MVRD
COALBED METHANE WELL? NO

LATITUDE: 39.99437
LONGITUDE: -109.1259

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]
(No. RUB0008031)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 43-2195)
- RDCC Review (Y/N)
(Date: 04/05/2005)
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

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

COMMENTS:

Needs Quiz (04-12-05)

STIPULATIONS:

- 1- Spacing Strip
- 2- STATEMENT OF BASIS
- 3- Surface Cont Strip
- 4- ATTACH RDCC COMMENTS



OPERATOR- ENDURING RES LLC (N2750)

SEC. 32 T.9S R.25E

FIELD: WILDCAT (102)

COUNTY: UINTAH

SPACING: R649-3-3 / EXCEPTION LOCATION

Wells

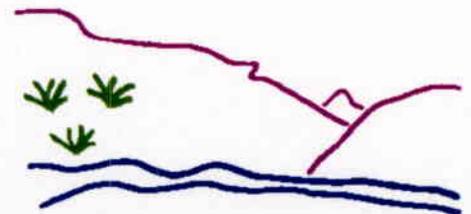
- ♣ GAS INJECTION
- ◻ GAS STORAGE
- × LOCATION ABANDONED
- ⊕ NEW LOCATION
- ⊕ PLUGGED & ABANDONED
- ✱ PRODUCING GAS
- PRODUCING OIL
- ◻ SHUT-IN GAS
- ◻ SHUT-IN OIL
- × TEMP. ABANDONED
- △ TEST WELL
- △ WATER INJECTION
- ◆ WATER SUPPLY
- ♣ WATER DISPOSAL

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

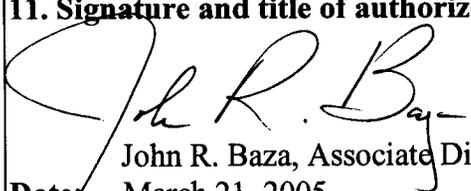


Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY
DATE: 21-MARCH-2005

STATE ACTIONS
Resource Development Coordinating Committee
Governor's Office of Planning and Budget
5110 State Office Building
SLC, UT 84114
Phone No. 537-9230

1. State Agency Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, UT 84114-5801	2. Approximate date project will start: Upon Approval or April 4, 2005
3. Title of proposed action: Application for Permit to Drill	
4. Description of Project: Enduring Resources, LLC proposes to drill the Southam Canyon 9-25-22-32 well (wildcat) on State lease ML-47047, Uintah County, Utah. This action is being presented to the RDCC for consideration of resource issues affecting state interests. The Division of Oil, Gas and Mining is the primary administrative agency in this action and must issue approval before operations commence.	
5. Location and detailed map of land affected (site location map required, electronic GIS map preferred) (include UTM coordinates where possible) (indicate county) 1900' FNL 2182' FWL, SE/4 NW/4, Section 32, Township 9 South, Range 25 East, Uintah County, Utah	
6. Possible significant impacts likely to occur: Surface impacts include up to five acres of surface disturbance during the drilling and completion phase (estimated for five weeks duration). If oil and gas in commercial quantities is discovered, the location will be reclaimed back to a net disturbance of between one and two acres – not including road, pipeline, or utility infrastructure. If no oil or gas is discovered, the location will be completely reclaimed.	
7. Identify local government affected a. Has the government been contacted? No. b. When? c. What was the response? d. If no response, how is the local government(s) likely to be impacted?	
8. For acquisitions of land or interests in land by DWR or State Parks please identify state representative and state senator for the project area. Name and phone number of state representative, state senator near project site, if applicable: a. Has the representative and senator been contacted? N/A	
9. Areawide clearinghouse(s) receiving state action: (to be sent out by agency in block 1) Uintah Basin Association of Governments	
10. For further information, contact: Diana Whitney Phone: (801) 538-5312	11. Signature and title of authorized officer  John R. Baza, Associate Director Date: March 21, 2005



Enduring Resources

475 17th Street Suite 1500 Denver Colorado 80202
Telephone 303 573-1222 Fax 303 573 0461

March 23, 2005

Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

RECEIVED
MAR 24 2005
DIV. OF OIL, GAS & MINING

Attn.: Ms. Diana Whitney

RE: Southam Canyon #9-25-22-32
SENW Sec 32 T9S-R25E
Uintah County, Utah

Dear Ms. Whitney:

Enduring Resources, LLC has no objection to the proposed Southam Canyon #9-25-22-32 well being drilled 1900' FNL and 2182' FWL of Section 32 T-9S R-25E. A natural water shed drainage prohibits the drillsite location being placed within the center of the quarter section. The current staked drillsite location was moved to the east to avoid this topographic feature.

Enduring Resources, LLC is the only owner within a 460 foot radius of the proposed well location.

The signature below is Enduring Resources' written waiver of objection to UT Administrative Code R649-3-3.

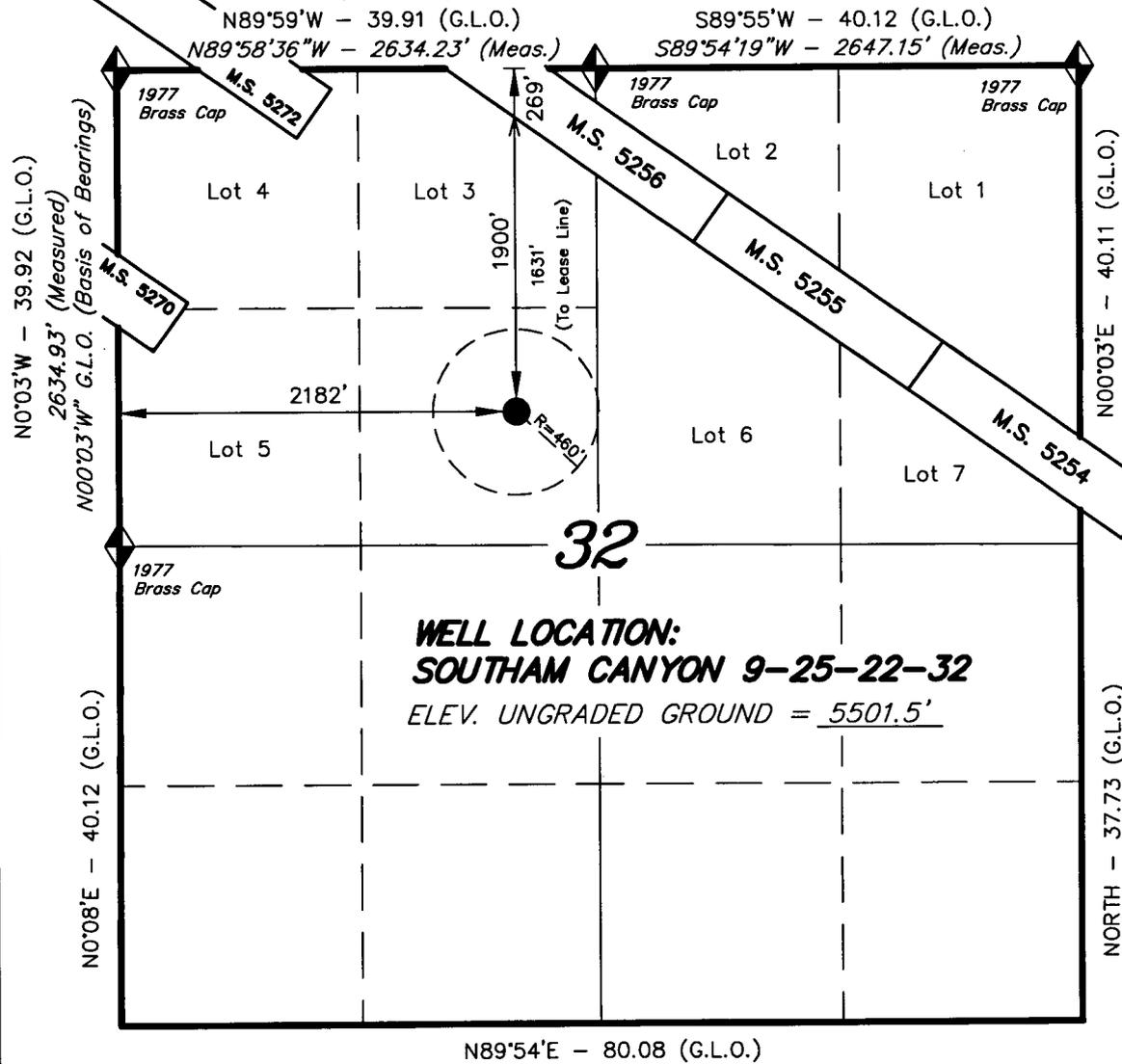
Signature:

Name: Frank Hutto
Title: V. P. Operations
Date: March 23, 2005

Enduring Resources, LLC
475 17th Street, Suite 1500
Denver, CO 80202

T9S, R25E, S.L.B.&M.

ENDURING RESOURCES



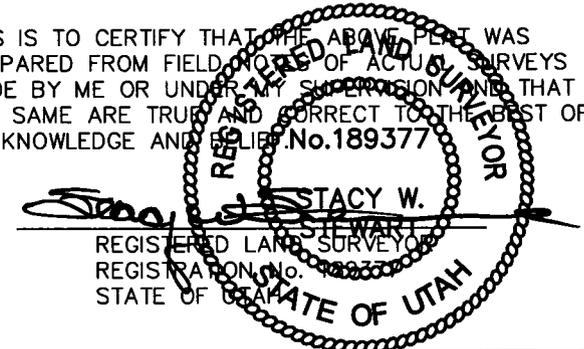
WELL LOCATION, SOUTHAM CANYON 9-25-22-32, LOCATED AS SHOWN IN THE SE 1/4 NW 1/4 OF SECTION 32, T9S, R25E, S.L.B.&M. UINTAH COUNTY, UTAH.



NOTES:

1. Bearings are based on Global Positioning Satellite observations.

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



= SECTION CORNERS LOCATED
 BASIS OF ELEV; U.S.G.S. 7-1/2 min
 QUAD (SOUTHAM CANYON)

SOUTHAM CANYON 9-25-22-32
 (Surface Location) NAD 83
 LATITUDE = 39° 59' 39.81"
 LONGITUDE = 109° 07' 35.67"

TRI STATE LAND SURVEYING & CONSULTING		SHEET 1 OF 8
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078		
(435) 781-2501		
DATE DRAWN: 3-10-05	SURVEYED BY: C.M.	
REVISED:	DRAWN BY: F.T.M.	
NOTES:	SCALE: 1" = 1000'	

From: Robert Clark
To: Whitney, Diana
Date: 3/28/2005 10:26:16 AM
Subject: Comments on RDCC #5043, #5044, and #5045

The following comments are submitted in response to three short turn around items that appeared on this weeks RDCC memo.

The item numbers are:

**RDCC #5043 Agency Draw 12-21-31-36 wildcat well on State Lease ML-47086,
RDCC #5044 Southam Canyon 9-25-22-32 wildcat well on State Lease ML-47047,
and RDCC #5045 Southam Canyon 10-25-21-32 wildcat well on State Lease ML-47065.**

The comments are applicable to all three RDCC items.

Comments begin: The proposed well drilling project may require a permit, known as an Approval Order, from the Utah Division of Air Quality if any compressor stations are constructed at the site. A permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, SLC, UT, 84116 for review according to the Utah Air Conservation Rule R307-400, Permits, Notice of Intent and Approval Order.

The proposed well drilling project is subject to Utah Air Conservation Rule R307-205-3, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Division of Air Quality, but steps need to be taken to minimize fugitive dust, such as, watering and/or chemical stabilization, providing vegetative or synthetic cover and windbreaks. A copy of the rules are found at www.rules.utah.gov/publicat/code/r307/r307.htm . **Comments end.** Robert Clark
Division of Air Quality 536-4435

CC: Dave Mcneill; Wright, Carolyn



Enduring Resources

475 17TH Street Suite 1500 Denver Colorado 80202
Telephone 303 573-1222 Fax 303 573 0461

March 28, 2005

Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

Attn.: Ms. Diana Whitney

RE: Southam Canyon #9-25-22-32
SENE Sec 32 T9S-R25E
Uintah County, Utah

Agency Draw #12-21-31-36
NWNE Sec 36 T12S-R21E
Uintah County, Utah

Southam Canyon #10-25-21-32
NENE Sec 32 T10S-R25E
Uintah County, Utah

Big Pack #12-21-22-2
SENE Sec 2 T12S-R21E
Uintah County, Utah

Dear Ms. Whitney:

Enclosed is an original Cultural Resource Inventory concerning each of the referenced wells. An original report was submitted to the State and Institutional Trust Lands Administration, to the Utah State Historical Preservation Office and to the Vernal BLM.

If any questions arise or additional information is required, please contact me at 303-350-5114.

Sincerely,

Phyllis Sobotik
Regulatory Specialist

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APR 01 2005

DIV. OF OIL, GAS & MINING

/ps
Enclosure:

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

005

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: ML-47047
2. NAME OF OPERATOR: Enduring Resources, LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME: N/A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1900' FNL 2182' FWL S.L.B.&M. COUNTY: Uintah		8. WELL NAME and NUMBER: Southam Canyon 9-25-22-32
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 32 9S 25E STATE: UTAH		9. API NUMBER: 4304736422
		10. FIELD AND POOL, OR WILDCAT: Wildcat

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 checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Attached are Topographic Maps "A" & "B" clarifying the two-track portion of the access route to the proposed well location. Approximately 12,650' (2.40 miles) of the two-track road will be bladed to remove existing ruts to allow access to the location. Please replace the Topographic Maps "A" & "B", submitted with the APD on March 17, 2005, with the attached data. The proposed location, access route and pipeline route did not change.

Surface Use Plan Revision - Ancillary Facilities: During drilling operations, approximately 20 days, the site will be a manned camp. Three or four additional trailers will be on location to serve as the crew's housing and eating facility. These will be located on the perimeter of the pad site within the topsoil stockpiles. No additional surface disturbance will occur from what was proposed in the initial APD. The previously submitted waste management procedures remain in effect.

Utah State Bond # RLB0008031
Operator # N2750

Accepted by the
Utah Division of
Oil, Gas and Mining
Date: 04-18-05
By: [Signature]

COPIES SENT TO OPERATOR
Date: 4-18-05
By: CHD

NAME (PLEASE PRINT) <u>Phyllis Sobotik</u>	TITLE <u>Regulatory Specialist</u>
SIGNATURE <u>[Signature]</u>	DATE <u>April 6 2005</u>

(This space for State use only)

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APR 11 2005

DIV. OF OIL, GAS & MINING



ENDURING
-Resources-



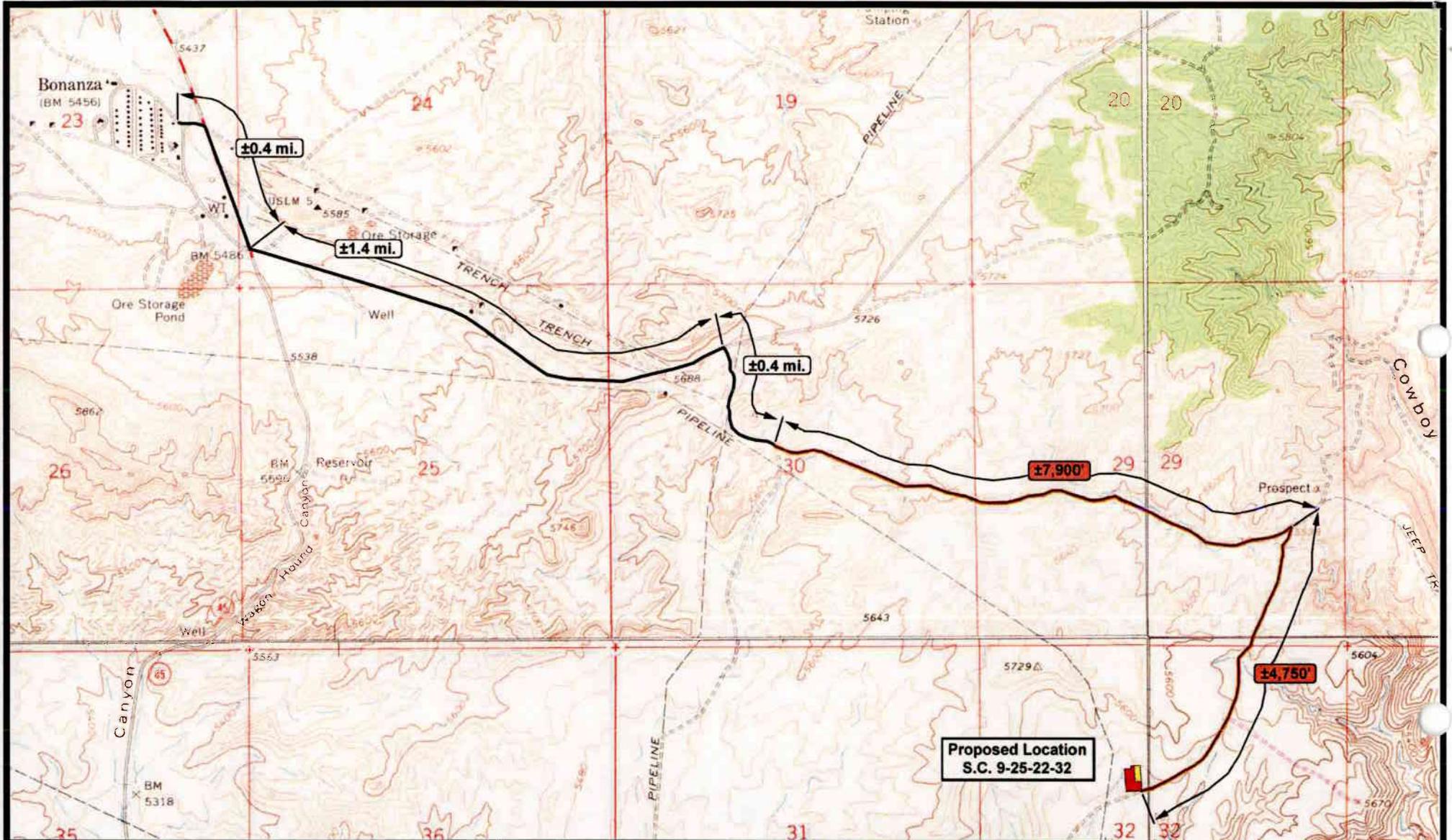
Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 100,000'
DRAWN BY: bgm
DATE: 03-28-2005

Legend
Existing Road
Proposed Access

TOPOGRAPHIC MAP SHEET
"A" 5 OF 8

Southam Canyon 9-25-22-32
Sec. 32, T9S, R25E, S.L.B.&M.



ENDURING
-Resources-



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

Legend
 Existing Road
 Two-Track to Upgrade

Southam Canyon 9-25-22-32
Sec. 32, T9S, R25E, S.L.B.&M.

SCALE: 1" = 2,000'
DRAWN BY: bgm
DATE: 03-28-2005

TOPOGRAPHIC MAP
"B"
SHEET **6**
OF 8

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

OPERATOR: Enduring Resources, LLC

WELL NAME & NUMBER: Southam Canyon 9-25-22-32

API NUMBER: 43-047-36422

LEASE: State FIELD/UNIT: Wildcat

LOCATION: 1/4,1/4 SENW Sec: 32 TWP: 9S RNG: 25E 1900 FNL 2182 FWL

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

GPS COORD (UTM): X =659998 E; Y =4428604 N SURFACE OWNER: State

PARTICIPANTS

Bart Kettle (DOGM), Mike (Dirt Contractor), Doug Hammond (Enduring), and
Floyd Bartlett (DWR).

REGIONAL/LOCAL SETTING & TOPOGRAPHY

Proposed location is ~4.5 miles southeast of Bonanza, Uintah County,
Utah. The immediate area surrounding the proposed well is a series of
rolling ridges and dry washes, vegetation is dominated by Wyoming sage
and desert salt scrub communities. The proposed location sits in an 8-
10" precipitation zone, ground cover is sparse and soils tend to be
erosive in nature. Slopes are generally mild with moderate to shallow
soils and small sandstone outcrops. Access to this well will be along
existing roads. Drainage is to the south entering the White River ~1/2
miles away. There are no observed perennial water sources in close
proximity to the well and dry washes appear to only flow during extreme
rain events.

SURFACE USE PLAN

CURRENT SURFACE USE: Seasonal livestock grazing, wildlife habitat, and
historic mining.

PROPOSED SURFACE DISTURBANCE: 330' x 225', no new access road required.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: None

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: Production facilities
such as separators, dehydrators, flow meters and tanks will be located
on-site. Those production facilities, which contain fluids, will have a
dike constructed completely around them. The Sales Gas line will be
installed to an existing transport line adjacent to the location if the
well is capable of economic production.

SOURCE OF CONSTRUCTION MATERIAL: On-site, any gravel needed will be
obtained from a commercial source.

ANCILLARY FACILITIES: None required

WILL DRILLING AT THIS LOCATION GENERATE PUBLIC INTEREST OR CONCERNS?
(EXPLAIN): The closest residence is located 4.5 miles away in Bonanza.
A fair amount of traffic travels within 1 mile of the location on

their way to float the White River, however concern over drilling this well isn't expected to be significant.

WASTE MANAGEMENT PLAN:

Garbage and other trash will be contained in a self-contained trash container. Refuse will be transported to an approved sanitary landfill. Sewage will be handled in self-contained portable toilets and contents hauled off location to an authorized facility in accordance with State and local regulations.

Reserve pit will be fenced and lined according to procedures submitted in the Application to Drill. Fence will be built on three sides while drilling, with the fourth side being fenced upon the removal of the drilling rig. Pit will be lined, drill cuttings will be constrained in the reserve pit. Produced liquid hydrocarbons will be constrained in test tanks during completion and testing.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: Well pad is located on the edge of a small alluvial fan and cuts off several small dry washes. Construction at this location will create a short-term increase of sedimentation into the watershed, but is not expected to have significant long-term impacts. Alteration of drainage for the construction of this location is not expected to affect the function or stability of the watershed up or down stream of the location.

FLORA/FAUNA: Mule Deer, Elk, rabbits, rodents, songbirds, raptors, lizards and snakes.

Grasses: Cheatgrass, bottlebrush squirreltail, and Sandburg's bluegrass. Forbs: Flixweed. Shrubs: Wyoming sage, broom snakeweed, spiny hopsage, black greasewood, spiny phlox and whitestem rubber rabbitbrush. Trees: Utah Juniper and two-needle pinyon

SOIL TYPE AND CHARACTERISTICS: Gray sandy clay, alluvial deposits and gray shale fragments.

SURFACE FORMATION & CHARACTERISTICS: Uinta and Green River Formations. Formation consists of rolling ridges and small draws with small sandstone bluffs dropping into steep canyons as they enter the White River. Light gray shale fragments cover some of the surface area, the remaining area consisting of sandstone fragments and alluvial deposits.

EROSION/SEDIMENTATION/STABILITY: Fine soils prone to wind erosion. Soils are moderately erosive in nature, with topsoil is thin to moderately deep over a majority of the area. All soils are subject to significant erosion during rain events sufficient to create flows.

PALEONTOLOGICAL POTENTIAL: None noted

RESERVE PIT

CHARACTERISTICS: 75'x170'x8'

LINER REQUIREMENTS (Site Ranking Form attached): Liner is required due to close proximity to a major drainage flowing into the White River less than one mile away.

SURFACE RESTORATION/RECLAMATION PLAN

As per surface use agreement, provided well produces economical quantities future directional wells will be drilled from the same location.

SURFACE AGREEMENT: Per SITLA mineral lease.

CULTURAL RESOURCES/ARCHAEOLOGY:

OTHER OBSERVATIONS/COMMENTS

Site is classified as high value deer and antelope range. No restrictions are recommended. Location eliminates the head of several small drainages and will require rerouting of one small drainage to construct. Ownership of existing roads is undetermined. Due to high pressure of sales pipeline a compressor station will be required on location in order to sell gas.

ATTACHMENTS

Photos of this location were taken and placed on file.

Bart Kettle
DOGM REPRESENTATIVE

April 14, 2005 12:25 P.M.
DATE/TIME

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

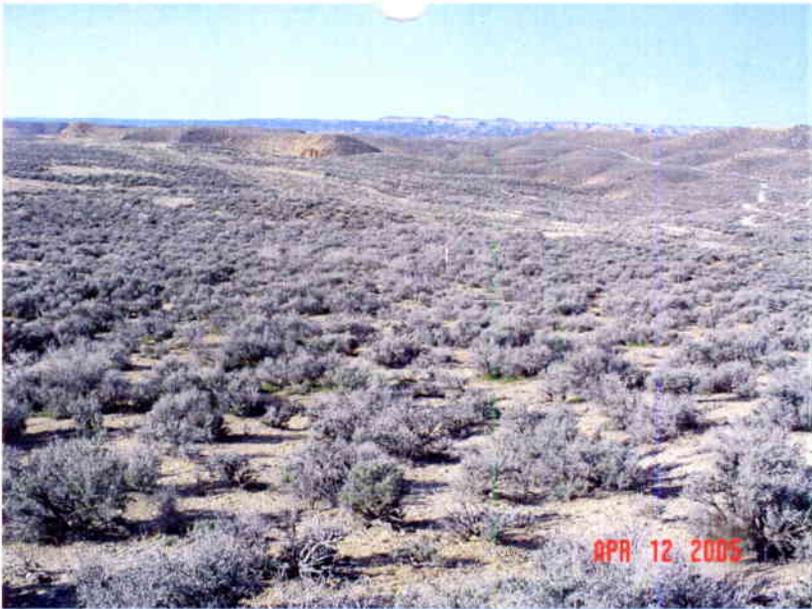
<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>0</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>15</u>
Distance to Nearest 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>10</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>0</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 30 (Level I Sensitivity)

Sensitivity Level I = 20 or more; total containment is required, consider criteria for excluding pit use.

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: Enduring Resources, LLC
WELL NAME & NUMBER: Southam Canyon 9-25-22-32
API NUMBER: 43-047-36422
LOCATION: 1/4,1/4 NWNE Sec:32 TWP: 9S RNG: 25E 1900 FNL 2182 FWL

Geology/Ground Water:

Enduring Resources proposes to set 2,000 feet of surface casing cemented to the surface. The base of the moderately saline water is estimated at 5,500 feet. 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 location is the Uinta/Green River Formation transition. The Uinta Formation is made up of discontinuous sands interbedded with shales and are not expected to produce prolific aquifers. . The Green River Formation is made up of interbedded limestones, shales and sandstones. Fresh water aquifers can be found in the Green River Formation and should be protected. The proposed surface casing should adequately protect any potentially useable aquifers.

Reviewer: Brad Hill **Date:** 04-14-05

Surface:

On-site conducted April 12, 2005. In attendance: Bart Kettle (DOGM), Mike (Dirt Contractor), Doug Hammond (Enduring), and Floyd Bartlett (DWR), invited but choosing not to attend Ed Bonner (SITLA).

No significant wildlife concerns exist, DWR does not recommend restrictions. Pit liner in the reserve pit will be require due to the close proximity of a major wash entering the White River 1/2 mile away. Per surface use proposal in Application for Permit to Drill reserve pit will be lined and fenced on three sides while well is being drilled, with the fourth side being fenced immediately upon completion of drilling. The uphill side of the location may require the construction of a berm to prevent rainwater from entering the location.

Reviewer: Bart Kettle **Date:** April 14, 2005

Conditions of Approval/Application for Permit to Drill:

1. A synthetic liner with a minimum thickness of 12 mils shall be properly installed and maintained in the reserve pit.

Well name:	04-05 Enduring Southam Canyon 9-25-22-32	
Operator:	Enduring Resources, LLC	Project ID:
String type:	Surface	43-047-36422
Location:	Uintah County	

Design parameters:

Collapse

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

Burst

Max anticipated surface pressure: 1,760 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP: 2,000 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor: 1.125

Burst:

Design factor: 1.00

Tension:

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

Tension is based on buoyed weight.
 Neutral point: 1,748 ft

Environment:

H2S considered? No
 Surface temperature: 75 °F
 Bottom hole temperature: 103 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 90 ft

Cement top: 481 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 5,900 ft
 Next mud weight: 9.800 ppg
 Next setting BHP: 3,004 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 2,000 ft
 Injection pressure: 2,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2000	8.625	24.00	J-55	ST&C	2000	2000	7.972	96.3
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	873	1370	1.570	2000	2950	1.48	42	244	5.82 J

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

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

Date: April 18, 2005
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2000 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.

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

Well name:	04-05 Enduring Southam Canyon 9-25-22-32		
Operator:	Enduring Resources, LLC		
String type:	Production	Project ID:	43-047-36422
Location:	Uintah County		

Design parameters:

Collapse

Mud weight: 9.800 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: 158 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,500 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 2,296 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 3,003 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)

Non-directional string.

Tension is based on buoyed weight.

Neutral point: 5,035 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 (ft³)
1	5900	4.5	11.60	N-80	LT&C	5900	5900	3.875	136.8
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	3003	6350	2.114	3003	7780	2.59	58	223	3.82 J

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

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

Date: April 18, 2005
 Salt Lake City, Utah

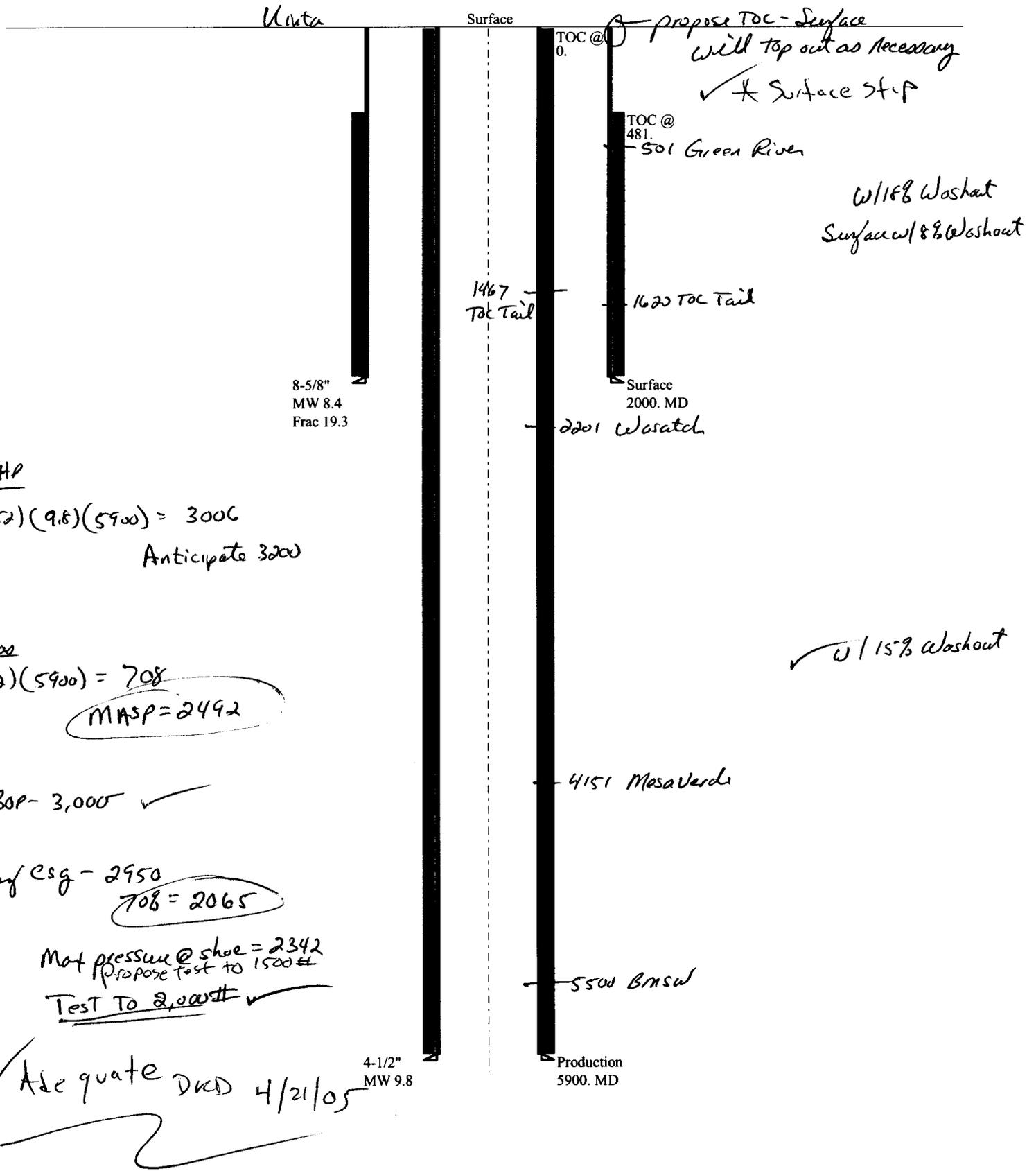
Remarks:

Collapse is based on a vertical depth of 5900 ft, a mud weight of 9.8 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.

Casing Schematic



BHP
 $(0.052)(9.8)(5900) = 3006$
 Anticipate 3200

Gao
 $(.12)(5900) = 708$
 MASP = 2492

BOP - 3,000 ✓

Surf csg - 2950
 $708 = 2065$

Max pressure @ shoe = 2342
 Propose test to 1500#

TEST TO 2,000# ✓

✓ Adequate DWD 4/21/05

From: Ed Bonner
To: Whitney, Diana
Date: 4/28/2005 11:41:38 AM
Subject: Well Clearance

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

Westport Oil & Gas Company

NBU 922-36C
NBU 922-36G
NBU 922-36H
NBU 922-36N
NBU 922-36O
NBU 921-33O

Enduring Resources, LLC

Agency Draw 12-21-31-36
Big Pack 12-21-22-2
Southam Canyon 10-25-21-32
Southam Canyon 9-25-22-32

EOG Resources, Inc

NBU 548-12E
Chapita Wells Unit 953-32
Chapita Wells Unit 957-32

The Houston Exploration Company

Southman Canyon 11-36-9-23
Southman Canyon 13-36-9-23

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

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



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

Enduring Resources, LLC
475 17th St., Suite 1500
Denver, CO 80202

Re: Southham Canyon 9-25-22-32 Well, 1900' FNL, 2182' FWL, SE NW,
Sec. 32, T. 9 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.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-36422.

Sincerely,

for John R. Baza
Associate Director

pab
Enclosures

cc: Uintah County Assessor
SITLA

Operator: Enduring Resources, LLC
Well Name & Number Southham Canyon 9-25-22-32
API Number: 43-047-36422
Lease: ML 47047

Location: SE NW **Sec.** 32 **T.** 9 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)

6. Operator shall comply with applicable recommendations resulting from Resource Development Coordinating Committee review. Statements attached.

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

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

FORM 6

ENTITY ACTION FORM

Operator: Enduring Resources, LLC
Address: 475 17th Street, Suite 1500
city Denver
state CO zip 80202

Operator Account Number: N 2750
Phone Number: (303) 350-5114

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304736422	Southam Canyon #9-25-22-32		SE	32	9S	25E	Uintah
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	14850	7/24/2005		7/28/05		
Comments: <u>MURD</u>							CONFIDENTIAL

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304736421	Southam Canyon #10-25-21-32		NE	32	10S	25E	Uintah
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	14851	7/24/2005		7/28/05		
Comments: <u>MURD</u>							CONFIDENTIAL

Well 3

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

ACTION CODES:

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

Phyllis Sobotik

Name (Please Print)

Phyllis Sobotik

Signature

Regulatory Specialist

Title

1-25-05
Date

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JUL 26 2005

DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47047
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
		7. UNIT or CA AGREEMENT NAME: N/A
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: Southam Canyon 9-25-22-32	
2. NAME OF OPERATOR: Enduring Resources, LLC	9. API NUMBER: 4304736422	
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202	PHONE NUMBER: (303) 350-5114	10. FIELD AND POOL, OR WILDCAT: Wildcat
4. LOCATION OF WELL		
FOOTAGES AT SURFACE: 1900' FNL 2182' FWL S.L.B.&M.		COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 32 9S 25E		STATE: UTAH

CONFIDENTIAL

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 7/24/2005	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: Spud;Set conductor
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	Csg

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Southam Canyon #9-25-22-32 surf hole spud @ 0900 hrs (MDT) 7/24/05.

MIRU Pete Martin Rathole Drig Inc. Dri 40' of 17" hole. Run 40' 14" line pipe for conductor. Cmt in place w/ 3 yds Readymix concrete. Cmt to surf. WORT

Utah State Bond # RLB0008031
Operator No. N2750

NAME (PLEASE PRINT) Phyllis Sobotik	TITLE Regulatory Specialist
SIGNATURE	DATE July 25 2005

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-47047

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
N/A

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.

7. UNIT or CA AGREEMENT NAME:
N/A

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
Southam Canyon 9-25-22-32

2. NAME OF OPERATOR:
Enduring Resources, LLC

9. API NUMBER:
4304736422

3. ADDRESS OF OPERATOR:
475 17th Street, Suite 1500 CITY **Denver** STATE **CO** ZIP **80202**

PHONE NUMBER:
(303) 350-5114

10. FIELD AND POOL, OR WILDCAT:
Wildcat

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **1900' FNL 2182' FWL** **S.L.B.&M.** COUNTY: **Uintah**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SENW 32 9S 25E** STATE: **UTAH**

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: 8/8/2005	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
Install a 9" 3000 psi BOP to be tested to 2000 psi instead of the APD approved 11" 3000 psi BOP.

Utah State Bond # RLB0008031
Operator No. N2750

COPY SENT TO OPERATOR
Date: 8-8-05
Initials: CHO

NAME (PLEASE PRINT) **Phyllis Sobotik**

TITLE **Regulatory Specialist**

SIGNATURE *Phyllis Sobotik*

DATE **8/2/2005**

(This space for State use only)

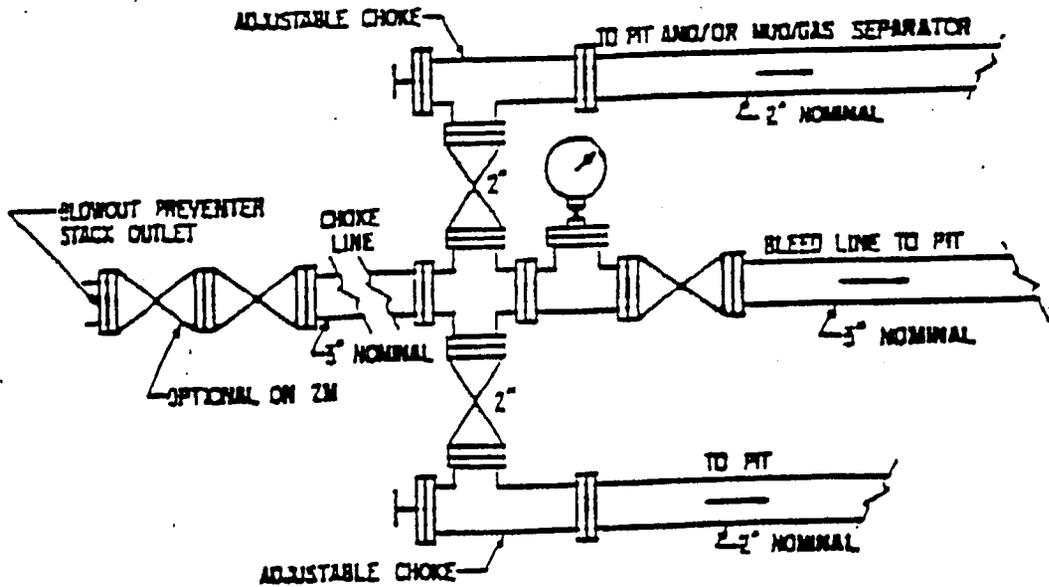
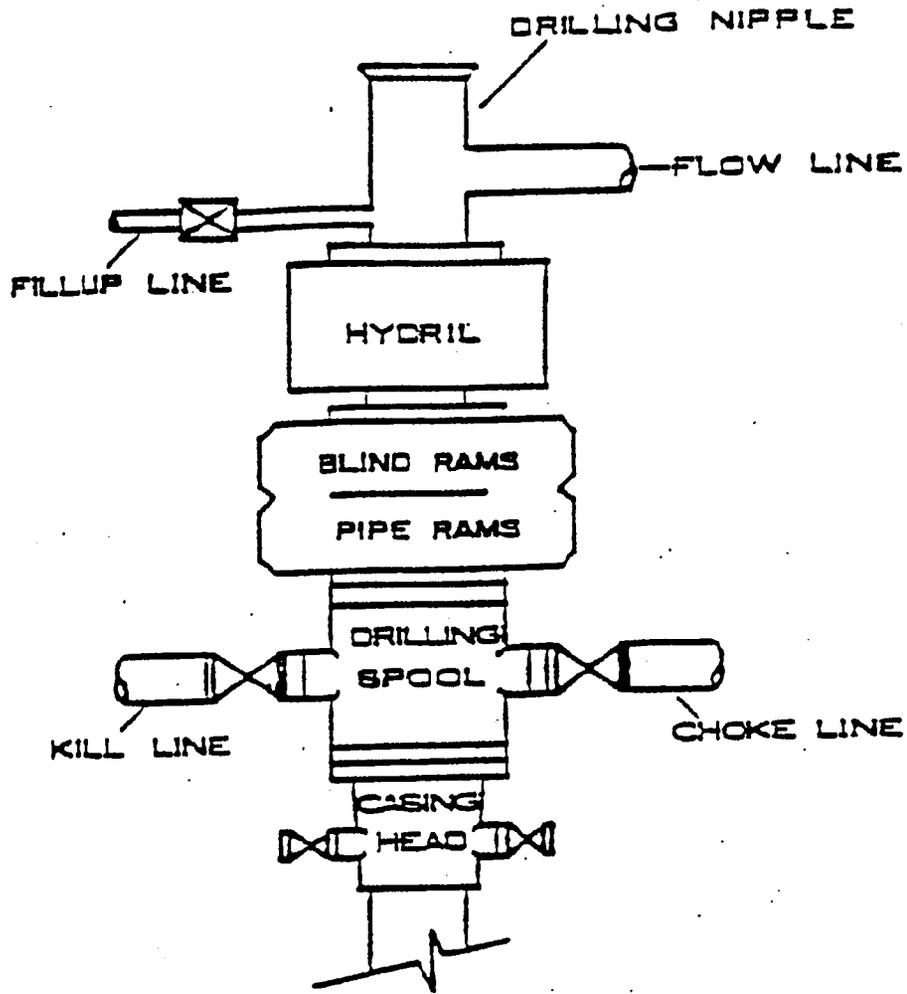
**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS AND MINING**
DATE: 8/8/05
BY: [Signature]
(See Instructions on Reverse Side)

**RECEIVED
AUG 04 2005**

DIV. OF OIL, GAS & MINING

3,000 PSI

BOP STACK



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: ML-47047
2. NAME OF OPERATOR: Enduring Resources, LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME: N/A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1900' FNL 2182' FWL S.L.B.&M. COUNTY: Uintah		8. WELL NAME and NUMBER: Southam Canyon 9-25-22-32
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 32 9S 25E STATE: UTAH		9. API NUMBER: 4304736422
		10. FIELD AND POOL, OR WILDCAT: Wildcat
		PHONE NUMBER: (303) 350-5114

CONFIDENTIAL

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> 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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 8/2/2005	<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>Set Surface Csg</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.

MIRU Bill Jr.'s Rathole Drlg. Drl 20" hole to 1000'. Trip for tricone bit. Drlg 1000'-2090'. LDDP. RIH w/ 47 jts (2060') 8-5/8" 24# J-55 ST&C csg w/ cmt guide shoe, insert float & 8 centralizers. Set csg @ 2060' GL. RU Big 4 Cementers. Pump 100 BW, 40 bbls gelled wtr. Lead cmt: 150 sx (99 bbls) Prem cmt containing 16% gel, 1/4 pps flocele, 23 gps wtr. Yield: 3.7 ft3/sk. Wt: 11 ppg. Tail cmt: 100 sx (38 bbls) Prem cmt containing 2% CaCl2, 1/4 pps flocele, 5 gps wtr. Yield: 1.15 ft3/sk. Wt: 15.8 ppg. Some cmt to surf. Ran 200' of 1" pipe dn annulus and pumped 100 sx (27 bbls) Prem cmt containing 4% CaCl2 & 1/4 pps flocele. Yield: 1.15 ft3/sk. Wt: 15.8 ppg. Cmt remained @ surf. RD Big 4 Cementers & Bill Jr.'s Rat hole Drlg. WORT

Utah State Bond # RLB0008031
Operator No. N2750

NAME (PLEASE PRINT) <u>Phyllis Sobotik</u>	TITLE <u>Regulatory Specialist</u>
SIGNATURE <u><i>Phyllis Sobotik</i></u>	DATE <u>Aug 5 2005</u>

(This space for State use only)

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AUG 10 2005

ENDURING RESOURCES, LLC

425 Seventeenth Street, Suite 1500

Denver, Colorado 80202

Telephone: 303-573-1222

Facsimile: 303-573-0461

November 11, 2005

State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt lake City, Utah 84114-5801

**RE: Southam Canyon 9-25-22-32
P & A**

Ladies and Gentlemen:

Attached are two original Form 9 and Form 8 for the above-referenced proposed well. Also attached is one set of logs.

Enduring Resources, LLC respectfully requests that this information, and future information, be held confidential.

Should you have any questions concerning this matter, please do not hesitate to call (303-350-5114)

Very truly yours

ENDURING RESOURCES, LLC



Alvin R. (Al) Arlian
Landman – Regulatory Specialist

ara/

Attachments as stated:

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NOV 17 2005
DIV. OF OIL, GAS & MINING

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

CONFIDENTIAL

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47087
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>DRY HOLE</u>		7. UNIT or CA AGREEMENT NAME: N/A
2. NAME OF OPERATOR: Enduring Resources, LLC		8. WELL NAME and NUMBER: Southam Canyon 9-25-22-32
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202		9. API NUMBER: 4304736422
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2,182' FWL - 1,900' FNL S.L.B.& M.		10. FIELD AND POOL, OR WILDCAT: Wildcat
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 2 12S 22E S SE NW SEC 32 T09S R45E		COUNTY: Uintah STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 11/5/2005	<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 checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

11-4-2005
T.I.H. RIG UP LAYDOWN CREW. LAY DOWN D.P. 4948' TO 3517'. RIG UP BIG 4 PUMP FIRST PLUG 3517' TO 3317'. PULL 5 STANDS LAY DOWN 38 JTS TO 2020'. PUMP PLUG 2020' TO 1900'. PULL 5 STANDS WAIT ON CEMENT WILL TAG AT 0830.

11-5-2005
WAIT ON CEMENT. TAG CEMENT. STATE OK'D, CEMENT TOP 1863', LAY DOWN DP BREAK KELLY. CEMENT TOP PLUG 0-100. WASH CEMENT OUT OF STACK CLEAN MUD TANKS RELEASE RIG.

FIRST PLUG 3500'-3228', 80 SKS 2% C.C. 15.8# 16.3 BBL CEMENT
2ND PLUG 2020'-1852', 50 SKS 2% C.C. 15.8 10.2 BBLS CEMENT
3RD PLUG 100' TO SURFACE, 50 SKS TYPE G 15.8 10.2 BBLS CEMENT

Utah State Bond #RLB0008031
Operator No. N2750

NAME (PLEASE PRINT) <u>Alvin R. (Al) Arlian</u>	TITLE <u>Landman - Regulatory Specialist</u>
SIGNATURE	DATE <u>11/10/2005</u>

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

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-47087

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT or CA AGREEMENT NAME
N/A

8. WELL NAME and NUMBER:
Southam Canyon 9-25-22-32

9. API NUMBER:
4304736422

10. FIELD AND POOL, OR WILDCAT
Undesignated

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
~~NENW 2 42S 22E S~~
SE NW 5 32 T 09S R 25E

12. COUNTY: **Uintah** 13. STATE: **UTAH**

14. DATE SPUDDED: **10/25/2005** 15. DATE T.D. REACHED: **11/3/2005** 16. DATE COMPLETED: **11/5/2005** ABANDONED READY TO PRODUCE 17. ELEVATIONS (DF, RKB, RT, GL): **5,525' RKB**

18. TOTAL DEPTH: MD **5,447** 19. PLUG BACK T.D.: MD **5,447** 20. IF MULTIPLE COMPLETIONS, HOW MANY? * **0** 21. DEPTH BRIDGE MD **MD** PLUG SET: **TVD**

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
Induction w/ Gamma Ray
Compensated Neutron Log MOD LOG

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

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17"	14" L.P.	conductor	0	40		3 yards		0	0
20"	8-5/8 J-55	24#'s	0	2,060		prem 350		0	0

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

26. PRODUCING INTERVALS **27. PERFORATION RECORD**

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Wasatch								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
n/a	n/a

29. ENCLOSED ATTACHMENTS: 30. WELL STATUS:

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

RECEIVED **P & A**

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

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

INTERVAL B (As shown in Item #26)

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

INTERVAL C (As shown in Item #26)

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

INTERVAL D (As shown in Item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

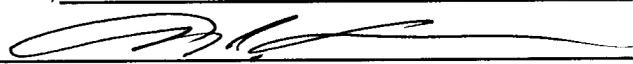
34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Wasatch	2,206		No cores or DTS's.		
Mesaverde	2,977				
Sego	5,088				
Buck Tongue SH	5,303				

35. ADDITIONAL REMARKS (include plugging procedure)

* DRILLED OUT FROM SURFACE PIPE.

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

NAME (PLEASE PRINT) Alvin R. (Al) Arlian TITLE Landman - Regulatory Specialist
 SIGNATURE  DATE 11/10/2005

This report must be submitted within 30 days of

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

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

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

Send to: Utah Division of Oil, Gas and Mining
 1594 West North Temple, Suite 1210
 Box 145801
 Salt Lake City, Utah 84114-5801

Phone: 801-538-5340
 Fax: 801-359-3940

ENDURING RESOURCES, LLC

425 Seventeenth Street, Suite 1500

Denver, Colorado 80202

Telephone: 303-573-1222

Facsimile: 303-573-0461

CONFIDENTIAL

December 21, 2005

State of Utah
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Southan Canyon 9-25-22-32
SENW 32-9S-25E 43-049-36422
WELL LOGS
Uintah County, Utah

Ladies and Gentlemen:

Attached is one original of each of the logs for the above-referenced well.

Enduring Resources, LLC, respectfully requests that you hold this information confidential as long as you are permitted.

Should you have any questions concerning this matter, please do not hesitate to call 303-350-5114 (aarlian@enduringresources.com).

Very truly yours

ENDURING RESOURCES, LLC



Alvin R. (Al) Arlian
Land – Regulatory Specialist

ara/
Enclosures as stated:

RECEIVED

DEC 27 2005

DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47087
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>DRY HOLE</u>		7. UNIT or CA AGREEMENT NAME: N/A
2. NAME OF OPERATOR: Enduring Resources, LLC		8. WELL NAME and NUMBER: Southam Canyon 9-25-22-32
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202		9. API NUMBER: 4304736422
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1,900' FNL - 2,182' FWL S.L.B.& M.		10. FIELD AND POOL, OR WILDCAT: Wildcat
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 32 9S 25E S		COUNTY: Uintah
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> 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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 6/16/2006	<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 checked="" type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Closed pits and rehabbed well pad.

Utah State Bond #RLB0008031
Operator No. N2750

NAME (PLEASE PRINT) <u>Alvin R. (Al) Arlian</u>	TITLE <u>Landman - Regulatory Specialist</u>
SIGNATURE	DATE <u>6/26/2006</u>

(This space for State use only)

RECEIVED
JUN 28 2006
DIV. OF OIL, GAS & MINING