



ENDURING RESOURCES

475 Seventeenth Street Suite 1500 Denver Colorado 80202
Telephone: 303 573 1222 Facsimile: 303 573 0461

June 16, 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: Archy Bench 11-22-22-2
SWNW Sec 2 T11S-R22E
Uintah County, Utah

Dear Ms. Whitney:

Enclosed are two original applications to drill concerning the referenced proposed directional well. According to Enduring Resources' references, this acreage is managed by the Bureau of Land Management. Therefore, this information was also submitted to them.

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

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

Sincerely,

Phyllis Sobotik
Regulatory Specialist

/ps
Enclosures:

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JUN 20 2005
DIV. OF OIL, GAS & MINING



APPLICATION FOR PERMIT TO DRILL			5. MINERAL LEASE NO: ML-47075	6. SURFACE: Federal
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: Archy Bench 11-22-22-2	
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 WLDGAT: <i>Bitter Creek</i>
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2367' FNL 575' FWL Sec 2 T11S R22E S.L.B.&M. 4416706Y-109.428989 AT PROPOSED PRODUCING ZONE: SENW 2280' FNL & 1970' FWL Sec 2 T11S R22E S.L.B.&M.			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 2 11S 22E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 39.6 miles southwesterly from Bonanza, Utah			12. COUNTY: Uintah	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 575' SL 658' BHL	16. NUMBER OF ACRES IN LEASE: 320	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40		
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 1127.34'	19. PROPOSED DEPTH: 7,948	20. BOND DESCRIPTION: RLB0008031		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5089.1' GR Ungraded	22. APPROXIMATE DATE WORK WILL START: 11/1/2005	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#	7,948	Prem Lite II	375 sx	3.38 11.0 ppg
			50/50 Poz CI G	1246 sx	1.31 14.3 ppg

Approved by the
Utah Division of
Oil, Gas and Mining

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

Date: 07-11-05
By: *Bradley G. Hill*

NAME (PLEASE PRINT) Phyllis Sobotik TITLE Regulatory Specialist

SIGNATURE *Phyllis Sobotik* DATE June 16, 2005

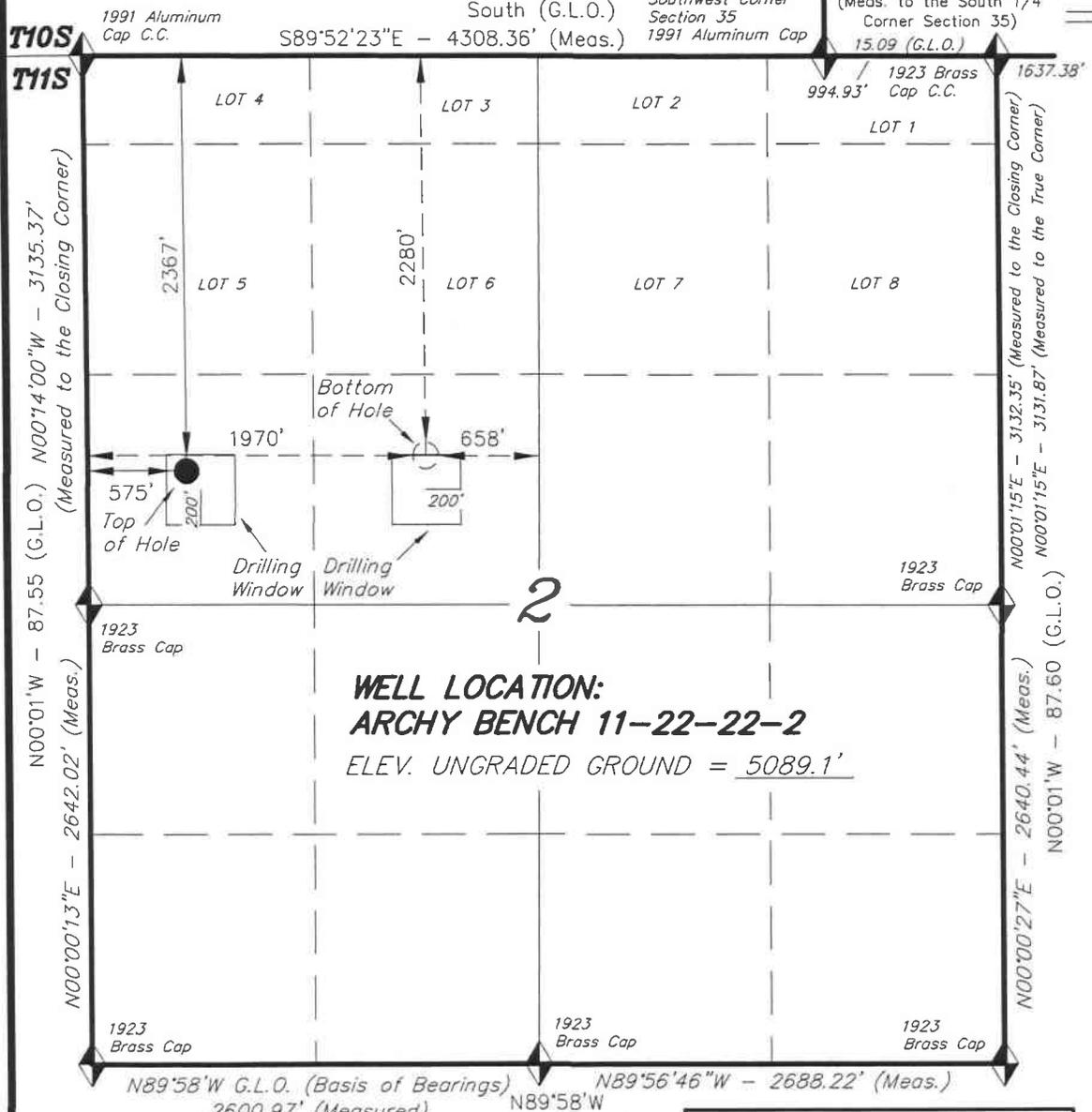
(This space for State use only)

API NUMBER ASSIGNED: 43-047-36786 APPROVAL: BHL 634744 X
4416739Y
39.891910
- 109.424020

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T11S, R22E, S.L.B.&M.

ENDURING RESOURCES



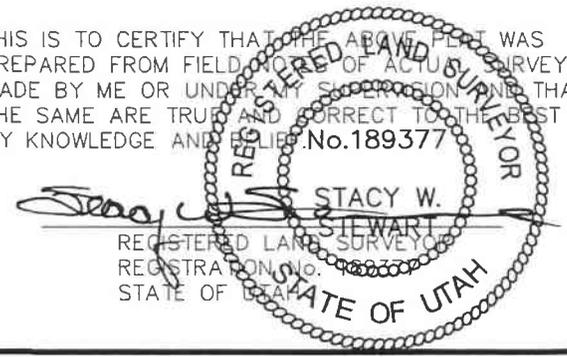
WELL LOCATION:
ARCHY BENCH 11-22-22-2
 ELEV. UNGRADED GROUND = 5089.1'

WELL LOCATION, ARCHY BENCH
 11-22-22-2, TOP HOLE LOCATED AS
 SHOWN IN THE SW 1/4 NW 1/4, BOTTOM
 HOLE LOCATED AS SHOWN IN THE SE
 1/4 NW 1/4 OF SECTION 2, T11S, R22E,
 S.L.B.&M. UTAH COUNTY, UTAH.



- NOTES:**
- The Top of Hole bears S86°34'12"W
1397.33' from the Bottom of hole.

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 (ARCHY BENCH)

ARCHY BENCH 11-22-22-2
 (Surface Location) NAD 83
 LATITUDE = 39° 53' 29.97"
 LONGITUDE = 109° 25' 46.98"

TRI STATE LAND SURVEYING & CONSULTING		
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501		
DATE DRAWN: 6-1-05	SURVEYED BY: C.M.	SHEET 2b
REVISED: 6-9-05	DRAWN BY: F.T.M.	
NOTES:	SCALE: 1" = 1000'	OF 10

T11S, R22E, S.L.B.&M.

ENDURING RESOURCES

T10S
T11S

1991 Aluminum
Cap C.C.

West (G.L.O.)
N89°52'23"W - 4308.36' (Meas.)

Southwest Corner
Section 35
1991 Aluminum Cap

589°58'28"W - 2632.31'
(Meas. to the South 1/4
Corner Section 35)
15.09 (G.L.O.)

1923 Brass
Cap C.C.

1637.38'

N00°01'W - 87.55 (G.L.O.) N00°14'00"W - 3135.37'
(Measured to the Closing Corner)

2347'



1923
Brass Cap

Drilling
Window

2

WELL LOCATION:
ARCHY BENCH 11-22-12-2
ELEV. UNGRADED GROUND = 5091.1'

1923
Brass Cap

N00°01'15"E - 3132.35' (Measured to the Closing Corner)
N00°01'15"E - 3131.87' (Measured to the True Corner)

N00°01'W - 87.60 (G.L.O.)

1923
Brass Cap

N89°58'W G.L.O. (Basis of Bearings)
2600.97' (Measured)

1923
Brass Cap

N89°56'46"W - 2688.22' (Meas.)
N89°58'W
80.22 (G.L.O.)

1923
Brass Cap

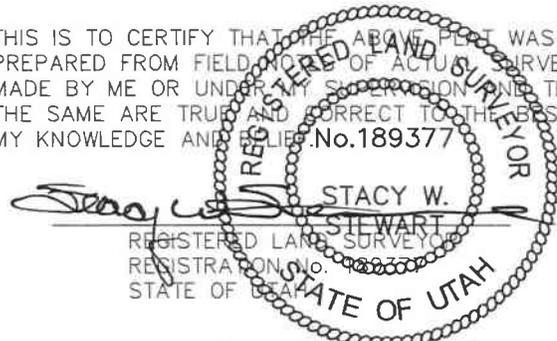
◆ = SECTION CORNERS LOCATED
BASIS OF ELEV; U.S.G.S. 7-1/2 min
QUAD (ARCHY BENCH)

ARCHY BENCH 11-22-12-2
(Surface Location) NAD 83
LATITUDE = 39° 53' 30.17"
LONGITUDE = 109° 25' 46.95"

WELL LOCATION, ARCHY BENCH
11-22-12-2, LOCATED AS SHOWN IN
THE SW 1/4 NW 1/4 OF SECTION 2,
T11S, R22E, S.L.B.&M. UINTAH COUNTY,
UTAH.



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



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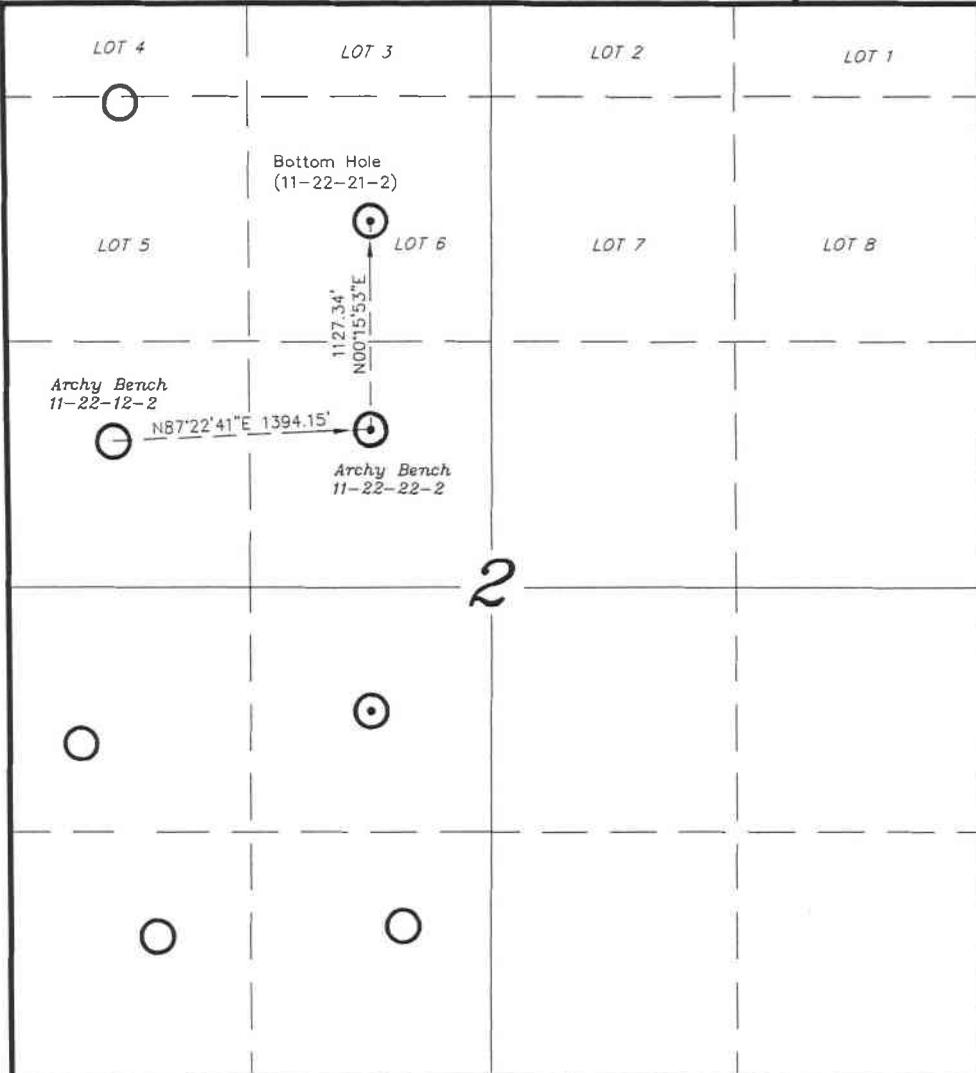
DATE DRAWN: 6-1-05	SURVEYED BY: C.M.	SHEET 2a OF 10
REVISED:	DRAWN BY: F.T.M.	
NOTES:	SCALE: 1" = 1000'	

T11S, R22E, S.L.B.&M.

ENDURING RESOURCES

SECTION DRILLING MAP
 ARCHY BENCH 11-22-12-2
 ARCHY BENCH 11-22-22-2

T10S
 T11S



LEGEND

- = Vertical Well
- ⊙ = Directional Well Bottom Hole

TRI STATE LAND SURVEYING & CONSULTING
 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
 (435) 781-2501

DATE DRAWN: 6-1-05	SURVEYED BY: C.M.	SHEET 1 OF 10
REVISED: 6-9-05	DRAWN BY: F.T.M.	
NOTES:	SCALE: 1" = 1000'	

Enduring Resources, LLC
Archy Bench 11-22-22-2
Surf: SWNW Sec. 2 T11S-R22E
BHL: SENW Sec. 2 T11S-R22E
Uintah County, Utah
Lease # ML-47075

ONSHORE ORDER 1 - DRILLING PLAN

1. Estimated Tops of Geological Markers:

<u>Formation</u>	<u>Depth (MD)</u>	<u>Depth (TVD)</u>
Uinta	Surface	
Green River	232'	232'
Wasatch	3344'	3224'
Mesaverde	5950'	5624'

2. Estimated Depths of Anticipated Water, Oil, Gas or Other Minerals: (5097.7' estimated KB)

Substance	Formation	Depth (MD)	Depth (TVD)
	Uinta	Surface	Surface
Oil / Gas	Green River	232'	232'
Oil /Gas	Wasatch	3344'	3224'
Oil /Gas	Mesaverde	5950'	5624'
	Estimated TD	7948'	7636'

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 (TVD)
20"	16"				40' (40')
12-1/4"	8-5/8"	24#	J-55	ST&C	0 – 2,000' est (2,000')
7-7/8"	4-1/2"	11.6#	N-80/I-80	LT&C	0 – 7948' (7636')

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 (TVD)	Casing	Collapse(psi)/SF	Burst (psi)/SF	Tension(mlbs)/SF
40 (40)	16"			
2000 (2000)	8-5/8", 24#/ft, J55, STC	1370/1.53(a)	4460/4.98(b)	244/5.08(c)
7948 (7636)	4-1/2", 11.6#/ft, N-80, LTC	6350/1.54 (d)	7780/2.06 (e)	223/2.81 (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	3348	Premium Lite II +3% KCL +0.25 pps celloflake +5 pps gilsonite +10% gel +0.5% extender	375	60	11.0	3.38
4-1/2"	Tail	4600	50/50 POZ Class G +10% salt + 2% gel + 1% R-3	1246	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 - MD	Interval - TVD	Mud Weight	Fluid Loss	Viscosity	Mud Type
0' - 2000'	0' - 2000'		No cntrl		Air/mist
2000'-3000'	2000' - 2924'	8.4-8.6	No cntrl	28-36	Water
3000'-7948'	2924' - 7636'	8.8-10.2	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:

Tests: No tests are currently planned.

Coring: No cores are currently planned.

Samples: None

Logging: Dual Induction - SFL /Gamma Ray Caliper: TD to Base Surface Casing
Compensated Neutron/Litho Density Temperature/Gamma Ray: TD to Base Surface Casing
Cement Bond Log / Gamma Ray: PBTD to Top of Cement

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 4133 psi (calculated at 0.52 max psi/foot of hole) and maximum anticipated surface pressure equals approximately 2384 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:

Anticipated Commencement Date- November 1, 2005
Drilling Days- Approximately 10 days
Completion Days - Approximately 10 days
Anticipate location construction within 30 days of permit issue.

9. Variances:

None anticipated

10. Other:

Directional Drilling Plan: Attached is the proposed directional drilling plan for the Archy Bench # 11-22-22-2 well.

Enduring Resources, LLC is the only lease owner for the entire west half of Sec. 2 T11S-R22E. No portion of the proposed intended well bore falls outside the 460 foot radius. Enduring Resources, LLC approves

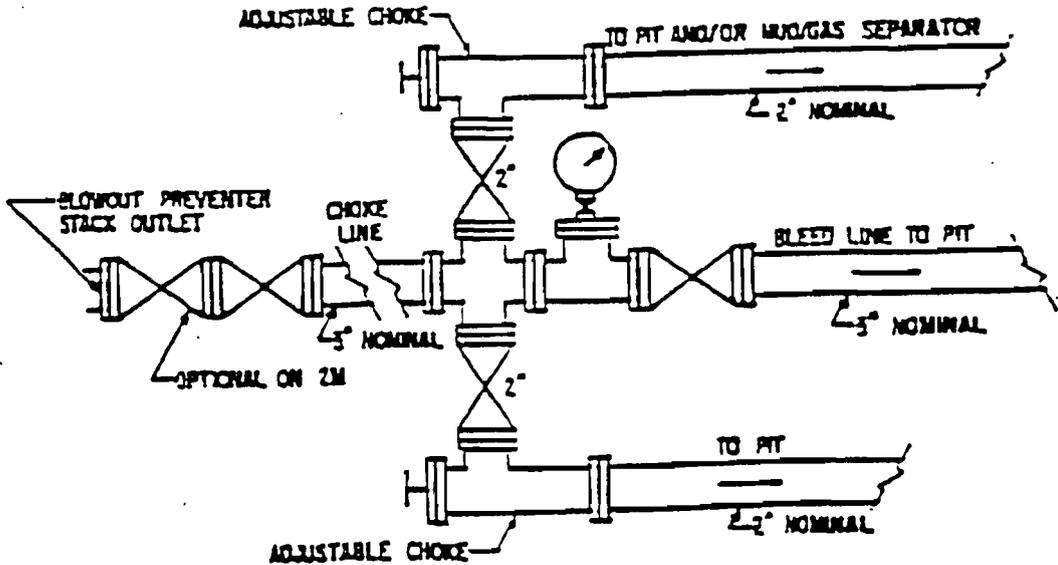
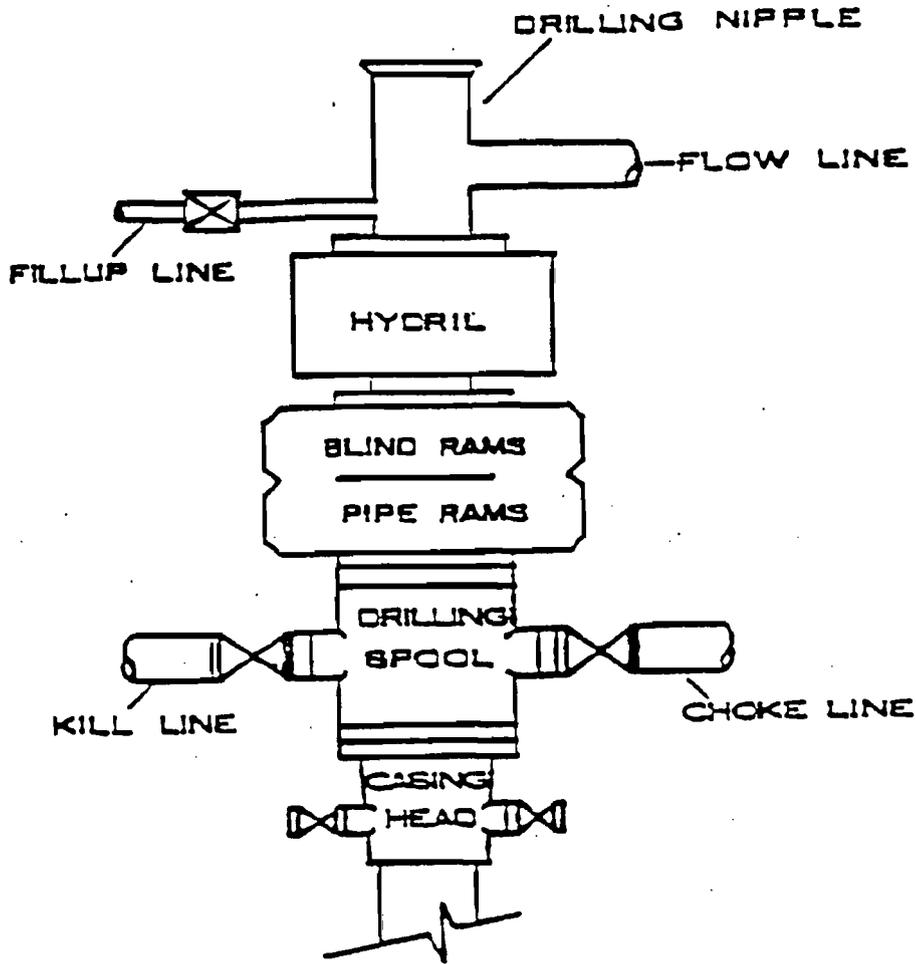
the proposed intentional deviation plan.

Due to topographic constraints, Enduring Resources, LLC was unable to locate an area to build a location to drill a vertical well. Therefore, this well is proposed to be drilled as a directional well to reach the desired location.

A Cultural Resource Inventory and Paleontology reconnaissance shall be conducted for the well location, access route and pipeline. The reports shall be submitted to the Division of Oil, Gas and Mining upon their receipt.

3,000 PSI

BOP STACK



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	94.17	0.0	0.0	0.0	0.00	0.00	0.0	
2	2000.0	0.00	94.17	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2575.6	28.78	94.17	2551.7	-10.3	141.2	5.00	94.17	141.6	
4	4542.5	28.78	94.17	4275.6	-79.1	1085.7	0.00	0.00	1088.6	
5	5112.0	6.00	94.17	4815.5	-91.4	1254.3	4.00	180.00	1257.7	
6	7948.0	6.00	94.17	7636.0	-113.0	1550.0	0.00	0.00	1554.1	ADJ BHL (2480' FNL & 2150' FWL)

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL (ADJ)	7636.00	-113.00	1550.00	7135919.97	2222795.39	Point
Drilling Window (400' x 400')	7636.00	87.00	1395.00	7136116.33	2222635.80	Rectangle (400x400)

CASING DETAILS

No.	TVD	MD	Name	Size
1	40.0	40.0	16" CSG	16.000
2	2000.0	2000.0	8 5/8" CSG	8.625
3	7635.0	7947.0	4-1/2" CSG	4.500

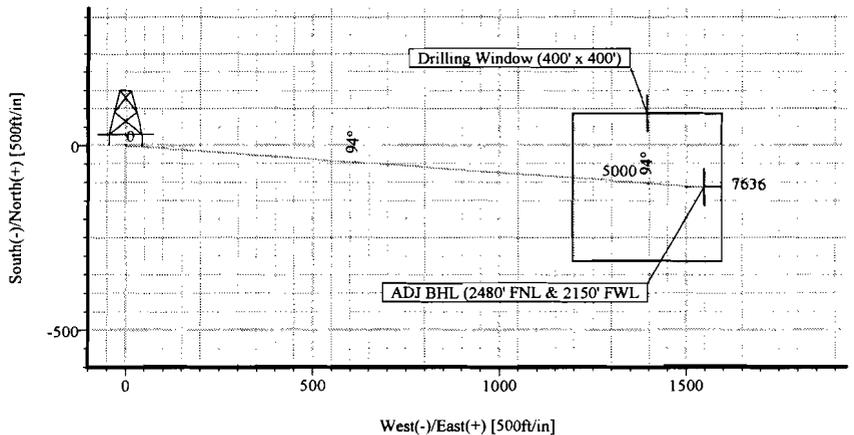
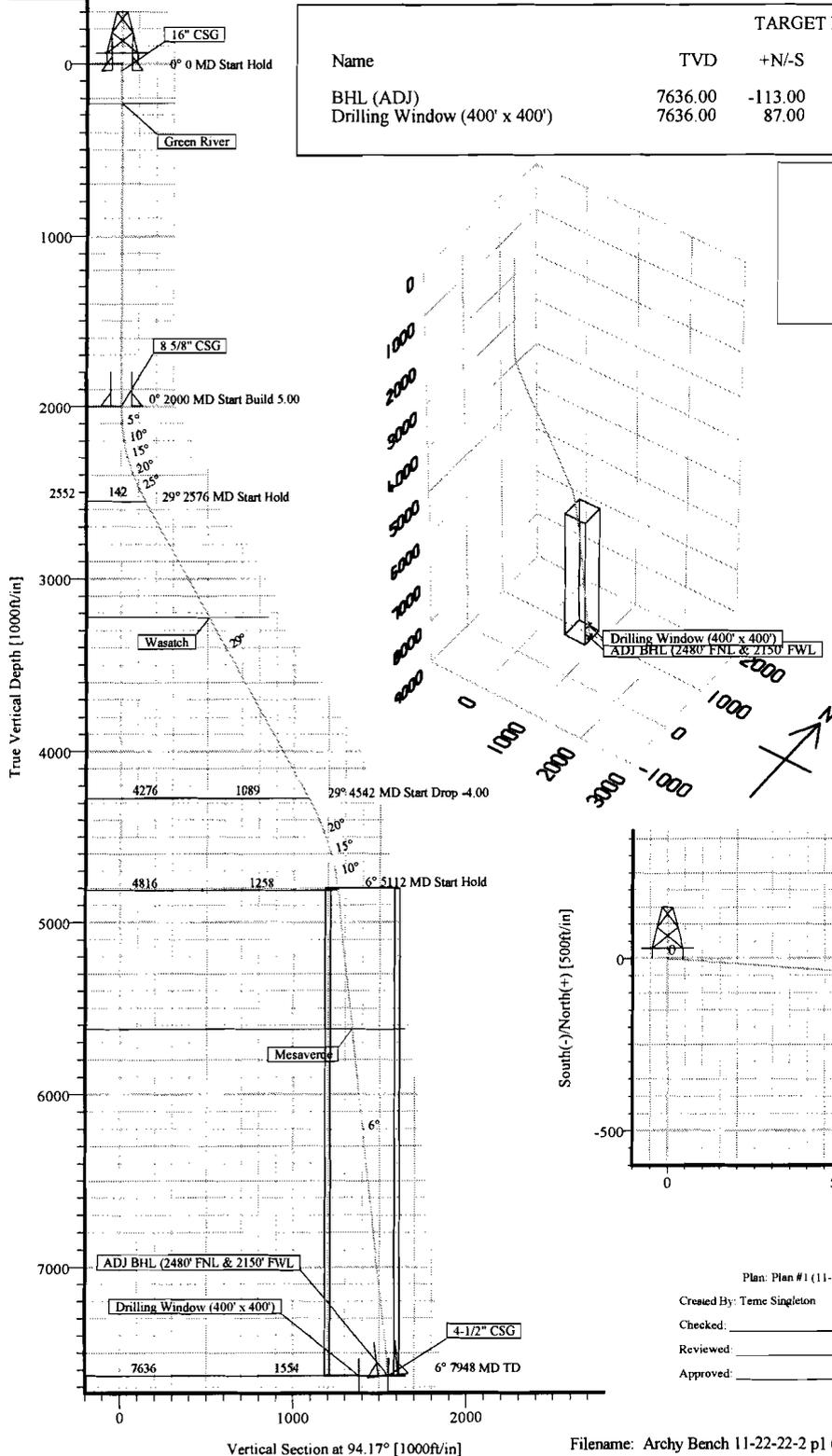
FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	3224.0	3342.7	Wasatch
2	5624.0	5925.0	Mesaverde
3	232.0	232.0	Green River

SITE DETAILS

Archy Bench 11-22-22-2
 Unitah County, Utah
 Sect. 2 T11S R22E

Ground Level: 5207.00
 Positional Uncertainty: 0.00
 Convergence: 1.33



Plan: Plan #1 (11-22-22-2 (S-Well)/1)

Created By: Teme Singleton Date: 6/16/2005
 Checked: _____ Date: _____
 Reviewed: _____ Date: _____
 Approved: _____ Date: _____

Azimuths to True North
 Magnetic North: 11.79°
 Magnetic Field
 Strength: 52930nT
 Dip Angle: 65.95°
 Date: 6/16/2005
 Model: igrf2005

Weatherford Directional Services

Planning Report

Company: Enduring Resources	Date: 6/16/2005	Time: 18:51:54	Page: 1
Field: Uintah Basin (NAD 83)	Co-ordinate(NE) Reference: Site: Archy Bench 11-22-22-2, True North		
Site: Archy Bench 11-22-22-2	Vertical (TVD) Reference: RKB Assumed 5096.0		
Well: 11-22-22-2 (S-Well)	Section (VS) Reference: Well (0.00N,0.00E,94.17Azi)		
Wellpath: 1	Plan: Plan #1		

Field: Uintah Basin (NAD 83) Unitah County, Utah USA	Map Zone: Utah, Central Zone
Map System: US State Plane Coordinate System 1983	Coordinate System: Site Centre
Geo Datum: GRS 1980	Geomagnetic Model: igrf2005
Sys Datum: Mean Sea Level	

Site: Archy Bench 11-22-22-2
Unitah County, Utah
Sect. 2 T11S R22E

Site Position:	Northing:	m	Latitude:	
From: Lease Line	Easting:	m	Longitude:	
Position Uncertainty: 0.0 ft			North Reference:	True
Ground Level: 5207.0 ft			Grid Convergence:	1.33 deg

Well: 11-22-22-2 (S-Well)	Slot Name:
Well Position: +N/-S 0.0 ft	Northing: 2175051.91 m
+E/-W 0.0 ft	Easting : 677034.92 m
Position Uncertainty: 0.0 ft	Latitude: 39 53 29.970 N
	Longitude: 109 25 46.980 W

Wellpath: 1	Drilled From: Surface
Current Datum: RKB Assumed	Tie-on Depth: 0.0 ft
Magnetic Data: 6/16/2005	Above System Datum: Mean Sea Level
Field Strength: 52930 nT	Declination: 11.79 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 65.95 deg
ft	+N/-S
	ft
7636.0	0.0
	0.0
	94.17

Plan: Plan #1	Date Composed: 6/16/2005
Principal: Yes	Version: 1
	Tied-to: From Surface

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.0	0.00	94.17	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2000.0	0.00	94.17	2000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2575.6	28.78	94.17	2551.7	-10.3	141.2	5.00	5.00	0.00	94.17	
4542.5	28.78	94.17	4275.6	-79.1	1085.7	0.00	0.00	0.00	0.00	
5112.0	6.00	94.17	4815.5	-91.4	1254.3	4.00	-4.00	0.00	180.00	
7948.0	6.00	94.17	7636.0	-113.0	1550.0	0.00	0.00	0.00	0.00	ADJ BHL (2480' FNL & 2150

Section 1 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
0.0	0.00	94.17	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
40.0	0.00	94.17	40.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
100.0	0.00	94.17	100.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
200.0	0.00	94.17	200.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
300.0	0.00	94.17	300.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
400.0	0.00	94.17	400.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
500.0	0.00	94.17	500.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
600.0	0.00	94.17	600.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
700.0	0.00	94.17	700.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
800.0	0.00	94.17	800.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
900.0	0.00	94.17	900.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
1000.0	0.00	94.17	1000.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
1100.0	0.00	94.17	1100.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
1200.0	0.00	94.17	1200.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
1300.0	0.00	94.17	1300.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
1400.0	0.00	94.17	1400.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
1500.0	0.00	94.17	1500.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
1600.0	0.00	94.17	1600.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17

Weatherford Directional Services

Planning Report

Company: Enduring Resources Field: Uintah Basin (NAD 83) Site: Archy Bench 11-22-22-2 Well: 11-22-22-2 (S-Well) Wellpath: 1	Date: 6/16/2005 Co-ordinate(NE) Reference: Site: Archy Bench 11-22-22-2, True North Vertical (TVD) Reference: RKB Assumed 5096.0 Section (VS) Reference: Well (0.00N,0.00E,94.17Azi) Plan: Plan #1
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Section 1 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
1700.0	0.00	94.17	1700.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
1800.0	0.00	94.17	1800.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
1900.0	0.00	94.17	1900.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17
2000.0	0.00	94.17	2000.0	0.0	0.0	0.0	0.00	0.00	0.00	94.17

Section 2 : Start Build 5.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
2100.0	5.00	94.17	2099.9	-0.3	4.3	4.4	5.00	5.00	0.00	0.00
2200.0	10.00	94.17	2199.0	-1.3	17.4	17.4	5.00	5.00	0.00	0.00
2300.0	15.00	94.17	2296.6	-2.8	38.9	39.0	5.00	5.00	0.00	0.00
2400.0	20.00	94.17	2391.9	-5.0	68.9	69.1	5.00	5.00	0.00	0.00
2500.0	25.00	94.17	2484.3	-7.8	107.1	107.4	5.00	5.00	0.00	0.00
2575.6	28.78	94.17	2551.7	-10.3	141.2	141.6	5.00	5.00	0.00	0.00

Section 3 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
2600.0	28.78	94.17	2573.1	-11.1	152.9	153.3	0.00	0.00	0.00	0.00
2700.0	28.78	94.17	2660.7	-14.6	200.9	201.4	0.00	0.00	0.00	0.00
2800.0	28.78	94.17	2748.4	-18.1	248.9	249.6	0.00	0.00	0.00	0.00
2900.0	28.78	94.17	2836.0	-21.6	297.0	297.7	0.00	0.00	0.00	0.00
3000.0	28.78	94.17	2923.7	-25.1	345.0	345.9	0.00	0.00	0.00	0.00
3100.0	28.78	94.17	3011.3	-28.7	393.0	394.0	0.00	0.00	0.00	0.00
3200.0	28.78	94.17	3099.0	-32.2	441.0	442.2	0.00	0.00	0.00	0.00
3300.0	28.78	94.17	3186.6	-35.7	489.0	490.3	0.00	0.00	0.00	0.00
3400.0	28.78	94.17	3274.3	-39.2	537.1	538.5	0.00	0.00	0.00	0.00
3500.0	28.78	94.17	3361.9	-42.7	585.1	586.6	0.00	0.00	0.00	0.00
3600.0	28.78	94.17	3449.5	-46.2	633.1	634.8	0.00	0.00	0.00	0.00
3700.0	28.78	94.17	3537.2	-49.7	681.1	682.9	0.00	0.00	0.00	0.00
3800.0	28.78	94.17	3624.8	-53.2	729.1	731.1	0.00	0.00	0.00	0.00
3900.0	28.78	94.17	3712.5	-56.7	777.2	779.2	0.00	0.00	0.00	0.00
4000.0	28.78	94.17	3800.1	-60.2	825.2	827.4	0.00	0.00	0.00	0.00
4100.0	28.78	94.17	3887.8	-63.7	873.2	875.5	0.00	0.00	0.00	0.00
4200.0	28.78	94.17	3975.4	-67.2	921.2	923.7	0.00	0.00	0.00	0.00
4300.0	28.78	94.17	4063.1	-70.7	969.2	971.8	0.00	0.00	0.00	0.00
4400.0	28.78	94.17	4150.7	-74.2	1017.3	1020.0	0.00	0.00	0.00	0.00
4500.0	28.78	94.17	4238.4	-77.7	1065.3	1068.1	0.00	0.00	0.00	0.00
4542.5	28.78	94.17	4275.6	-79.1	1085.7	1088.6	0.00	0.00	0.00	0.00

Section 4 : Start Drop -4.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4600.0	26.48	94.17	4326.5	-81.1	1112.3	1115.2	4.00	-4.00	0.00	180.00
4700.0	22.48	94.17	4417.5	-84.1	1153.6	1156.7	4.00	-4.00	0.00	180.00
4800.0	18.48	94.17	4511.2	-86.6	1188.5	1191.6	4.00	-4.00	0.00	180.00
4900.0	14.48	94.17	4607.1	-88.7	1216.8	1220.0	4.00	-4.00	0.00	180.00
5000.0	10.48	94.17	4704.7	-90.3	1238.3	1241.6	4.00	-4.00	0.00	180.00
5100.0	6.48	94.17	4803.6	-91.4	1253.0	1256.4	4.00	-4.00	0.00	180.00
5112.0	6.00	94.17	4815.5	-91.4	1254.3	1257.7	4.00	-4.00	0.00	-180.00

Section 5 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
5200.0	6.00	94.17	4903.0	-92.1	1263.5	1266.9	0.00	0.00	0.00	0.00
5300.0	6.00	94.17	5002.5	-92.9	1273.9	1277.3	0.00	0.00	0.00	0.00
5400.0	6.00	94.17	5101.9	-93.6	1284.4	1287.8	0.00	0.00	0.00	0.00
5500.0	6.00	94.17	5201.4	-94.4	1294.8	1298.2	0.00	0.00	0.00	0.00
5600.0	6.00	94.17	5300.8	-95.2	1305.2	1308.7	0.00	0.00	0.00	0.00
5700.0	6.00	94.17	5400.3	-95.9	1315.6	1319.1	0.00	0.00	0.00	0.00

Weatherford Directional Services

Planning Report

Company: Enduring Resources Field: Uintah Basin (NAD 83) Site: Archy Bench 11-22-22-2 Well: 11-22-22-2 (S-Well) Wellpath: 1	Date: 6/16/2005 Time: 18:51:54 Page: 3 Co-ordinate(NE) Reference: Site: Archy Bench 11-22-22-2, True North Vertical (TVD) Reference: RKB Assumed 5096.0 Section (VS) Reference: Well (0.00N,0.00E,94.17Azi) Plan: Plan #1
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Section 5 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
5800.0	6.00	94.17	5499.7	-96.7	1326.1	1329.6	0.00	0.00	0.00	0.00
5900.0	6.00	94.17	5599.2	-97.4	1336.5	1340.0	0.00	0.00	0.00	0.00
6000.0	6.00	94.17	5698.6	-98.2	1346.9	1350.5	0.00	0.00	0.00	0.00
6100.0	6.00	94.17	5798.1	-99.0	1357.3	1360.9	0.00	0.00	0.00	0.00
6200.0	6.00	94.17	5897.5	-99.7	1367.8	1371.4	0.00	0.00	0.00	0.00
6300.0	6.00	94.17	5997.0	-100.5	1378.2	1381.8	0.00	0.00	0.00	0.00
6400.0	6.00	94.17	6096.4	-101.2	1388.6	1392.3	0.00	0.00	0.00	0.00
6500.0	6.00	94.17	6195.9	-102.0	1399.0	1402.8	0.00	0.00	0.00	0.00
6600.0	6.00	94.17	6295.3	-102.8	1409.5	1413.2	0.00	0.00	0.00	0.00
6700.0	6.00	94.17	6394.8	-103.5	1419.9	1423.7	0.00	0.00	0.00	0.00
6800.0	6.00	94.17	6494.3	-104.3	1430.3	1434.1	0.00	0.00	0.00	0.00
6900.0	6.00	94.17	6593.7	-105.0	1440.7	1444.6	0.00	0.00	0.00	0.00
7000.0	6.00	94.17	6693.2	-105.8	1451.2	1455.0	0.00	0.00	0.00	0.00
7100.0	6.00	94.17	6792.6	-106.6	1461.6	1465.5	0.00	0.00	0.00	0.00
7200.0	6.00	94.17	6892.1	-107.3	1472.0	1475.9	0.00	0.00	0.00	0.00
7300.0	6.00	94.17	6991.5	-108.1	1482.4	1486.4	0.00	0.00	0.00	0.00
7400.0	6.00	94.17	7091.0	-108.8	1492.9	1496.8	0.00	0.00	0.00	0.00
7500.0	6.00	94.17	7190.4	-109.6	1503.3	1507.3	0.00	0.00	0.00	0.00
7600.0	6.00	94.17	7289.9	-110.4	1513.7	1517.7	0.00	0.00	0.00	0.00
7700.0	6.00	94.17	7389.3	-111.1	1524.1	1528.2	0.00	0.00	0.00	0.00
7800.0	6.00	94.17	7488.8	-111.9	1534.6	1538.6	0.00	0.00	0.00	0.00
7900.0	6.00	94.17	7588.2	-112.6	1545.0	1549.1	0.00	0.00	0.00	0.00
7947.0	6.00	94.17	7635.0	-113.0	1549.9	1554.0	0.00	0.00	0.00	0.00
7948.0	6.00	94.17	7636.0	-113.0	1550.0	1554.1	0.00	0.00	0.00	0.00

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing m	Map Easting m	<--- Latitude --->			<--- Longitude --->				
							Deg	Min	Sec	Deg	Min	Sec		
ADJ BHL (2480' FNL & 2150' FWL)		7636.0	-113.0	1550.0	2175028.41	677508.04	39	53	28.853	N	109	25	27.093	W
-Plan hit target														
Drilling Window (400' x 400')		7636.0	87.0	1395.0	2175088.26	677459.39	39	53	30.829	N	109	25	29.081	W
-Rectangle (400x400)														
-Plan out by 253.03 at		7636.0	-113.0	1550.0	2175028.41	677508.04	39	53	28.853	N	109	25	27.093	W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
40.0	40.0	16.000	20.000	16" CSG
2000.0	2000.0	8.625	12.250	8 5/8" CSG
7947.0	7635.0	4.500	7.875	4-1/2" CSG

Enduring Resources, LLC
Archy Bench 11-22-22-2
SL: SWNW Sec. 2 T11S-R22E
BHL: SENW Sec. 2 T11S-R22E
Uintah County, Utah
Lease # ML-47075

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Directions to the proposed location are as follows:

Beginning at the city of Bonanza, Utah, proceed south on State Hwy 45 for approximately 5.7 miles to where there is a turn off to the right. Turn right, exiting State Hwy 45, and proceed southwest on Southam Canyon Road (Class B County Road 4170) for a distance of approximately 5.1 miles. Continue along County Road 4170 going west then northwesterly for approximately 3.7 miles. Proceed along the same road going southwest then westerly for approximately 3.2 miles to where the road forks. Turn left and continue southerly along Asphalt Wash (Class B County Road 4160) for 3.0 miles to where the road forks near a landing strip. Stay to the right and continue south along Asphalt Wash road for approximately 6.5 miles to where there is a turn-off to the right. Turn right onto Bitter Creek Road (Class B County Road 4120) and continue in a westerly direction for approximately 1.9 miles to where then is a turn off to the left. Turn left and continue in a westerly direction for approximately 5.4 miles to an intersection with Buck Camp Canyon Road (Class B County Road 4220). Turn right and continue on Bitter Creek Road traveling in a northerly direction for approximately 5.1 miles to the proposed well location. This location is situated adjacent to Bitter Creek Road and shall be the well pad for the proposed Archy Bench #11-22-12-2 and the proposed Archy Bench #11-22-22-2 well.

The proposed well site is located approximately 39.6 miles Southwesterly from Bonanza, Utah. Refer to attached Topographic Map "A" and "B"

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:

The 3,600 feet (0.7 miles) of the proposed access road is an existing road (Bitter Creek Road-Class B County Road 4120) requiring no new construction or upgrades. Approximately 50 feet of new constructed access road is proposed to enter the location from the existing access road. This location and access road shall be for both the Archy Bench #11-22-12-2 and the Archy Bench #11-22-22-2 wells. Please refer to Topo Map "B".

The access road will be crowned 2% to 3%, ditched and constructed with a running surface of 18 feet and a maximum disturbed width of 30 feet right-of-way. Maximum grade of road is 5% or less. Graveling or capping the roadbed will be performed as necessary to provide a well constructed, safe road. No fence crossings, culverts, turnouts, cattleguards or major cuts and fills are required. 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 nor 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. Upgrading shall not be allowed during muddy conditions. 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 from the road.

3. **Location of Existing Wells Within a One Mile Radius:** Please refer to Topographic Map "C"

There are no known water wells, temporarily abandoned wells, plugged and abandoned wells, disposal wells, monitoring or observation wells, or injection wells located within a one (1) mile radius of the proposed location.

There is one known producing well – Archy Bench State #1-2 NENE Sec 2 T11S-R22E

There are two known shut in wells - NBU #70-34B NESW Sec 34 T10S-R22E
- Bitter Creek #1-3 SWNE Sec 3 T11S-R22E

There may be drilling activity or permitted wells within in the area.

4. **Location of Existing &/or Proposed Facilities:**

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 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 for six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Inter-Agency Committee.

All facilities will be painted within 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.

An off lease Right-of-Way is being requested from the Bureau of Land Management for approximately 2,760 feet (0.5 miles) of proposed gas gathering line. The width of the right-of-way requested is 15 feet. A permanent right-of-way is requested for a term of 30 years.

If the well is capable of economic production, a surface gas gathering line and related equipment shall be installed. The gas gathering line shall be in use year round. Approximately 2,760 feet (0.5 miles) of 6 inch or less diameter steel, unpainted, welded gas gathering line is proposed to be laid to service both the Archy Bench #11-22-12-2 and the Archy Bench #11-22-22-2 wells. The proposed line shall begin at the well site and continue in a southerly direction being laid alongside the existing access road (Bitter Creek Road-Class B County Road 4120) to the proposed Archy Bench #11-22-14-2 location which shall serve as a common delivery point. The gathering line at the common delivery point shall tie into an existing pipeline located in the southerly portion of Sec 2 T11S-R22E. The proposed gathering line shall be placed above ground adjacent to the access route. The line will be welded together and pulled from the well site location and tie-in point when practical; however, it may be necessary to utilize the access road for welding of the line. The line

will then be boomed off to the side of the road. The gas meter run will be located within 500' of the wellhead. The meter run will be housed. The gas gathering line will be buried or anchored down from the wellhead to the meter. Please refer to the attached Topographic Map "D".

Upon plugging and abandonment of both the Archy Bench #11-22-12-2 and the Archy Bench # 11-22-22-2 wells, the gas gathering line will be removed and the disturbed area will be re-contoured and restored as near as practical to the original condition. If necessary, re-seeding operations will be performed after completion of other reclamation operations. The appropriate surface management agency will be contacted for the required seed mixture and seeding dates.

5. Location and Type of Water Supply:

Water will be obtained from the White River by Tu and Frum, Inc. Water User Claim #49-2185, Application #T75517, or by Target Trucking Water User Claim #43-2195, or by Dalbo Inc. Water User Claim #43-8496.

Water will be hauled to the location over the roads marked on Topographic 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 for location and access road construction.

Any gravel will be obtained from a commercial source; however, gravel sized rock debris associated with location and access road construction may be used as access road surfacing material.

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 of both the Archy Bench #11-22-12-2 and the Archy Bench #11-22-22-2 wells, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling of both wells 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 12 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. The toilet will be replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

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 10,000 pounds will be used, produced, stored, transported or disposed of annually in association with the drilling, completion or testing 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, completion or testing of this well.

Produced oil will be stored in an oil tank and then hauled by truck to a crude purchaser facility. 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:

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. Refer to Sheet 6.

9. Well Site Layout: (Refer to Sheet #3, #4, #5 & #6)

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.

The proposed Archy Bench #11-22-22-2 well is to be a directional well drilled from the proposed Archy Bench #11-22-12-2 well location. Please refer to Sheet 3.

All pits shall be fenced to the following minimum standards:

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 2 inches above the ground. The barbed wire shall be 3 inches over the net wire. Total height of the fence shall be at least 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 fence posts shall be no greater than 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 sides during drilling operations and on the fourth 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 of both the Archy Bench #11-22-12-2 and the Archy Bench #11-22-22-2 wells, the location and surrounding area will be cleared of all unused tubing, equipment, 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 for both the Archy Bench #11-22-12-2 and the Archy Bench #11-22-22-2 wells.

The reserve pit and that portion of the location not needed for production facilities/operations for both the Archy Bench #11-22-12-2 and the Archy Bench #11-22-22-2 wells will be re-contoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of the last 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 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).

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites or other applicable facilities.

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 of both the Archy Bench #11-22-12-2 and the Archy Bench #11-22-22-2 wells. If necessary, re-seeding operations will be performed after completion of other reclamation operations.

Seed Mixture:

The appropriate surface management agency will be contacted for the required seed mixture and seeding dates.

11. Surface Ownership: Location, Access Road & Pipeline

Bureau of Land Management
Division of Mineral Resources
170 South 500 East
Vernal, Utah 84078
Office – 435-781-4400; Fax – 435-781-4410

12. Other Information:

Wildlife Stipulations: Wildlife stipulations and possible activity restrictions will be detailed in the "Conditions of Approval" received with an approved Permit to Drill. Operator will comply with these wildlife stipulations.

Archeology: A Cultural Resource Inventory shall be conducted for the well location, access route and pipeline. The report shall be submitted to the Division of Oil, Gas and Mining and the Bureau of Land Management upon its receipt.

Paleontology: A Paleontology reconnaissance shall be conducted for the well location, access route and pipeline. The report shall be submitted to the Division of Oil, Gas and Mining and the Bureau of Land Management upon its receipt.

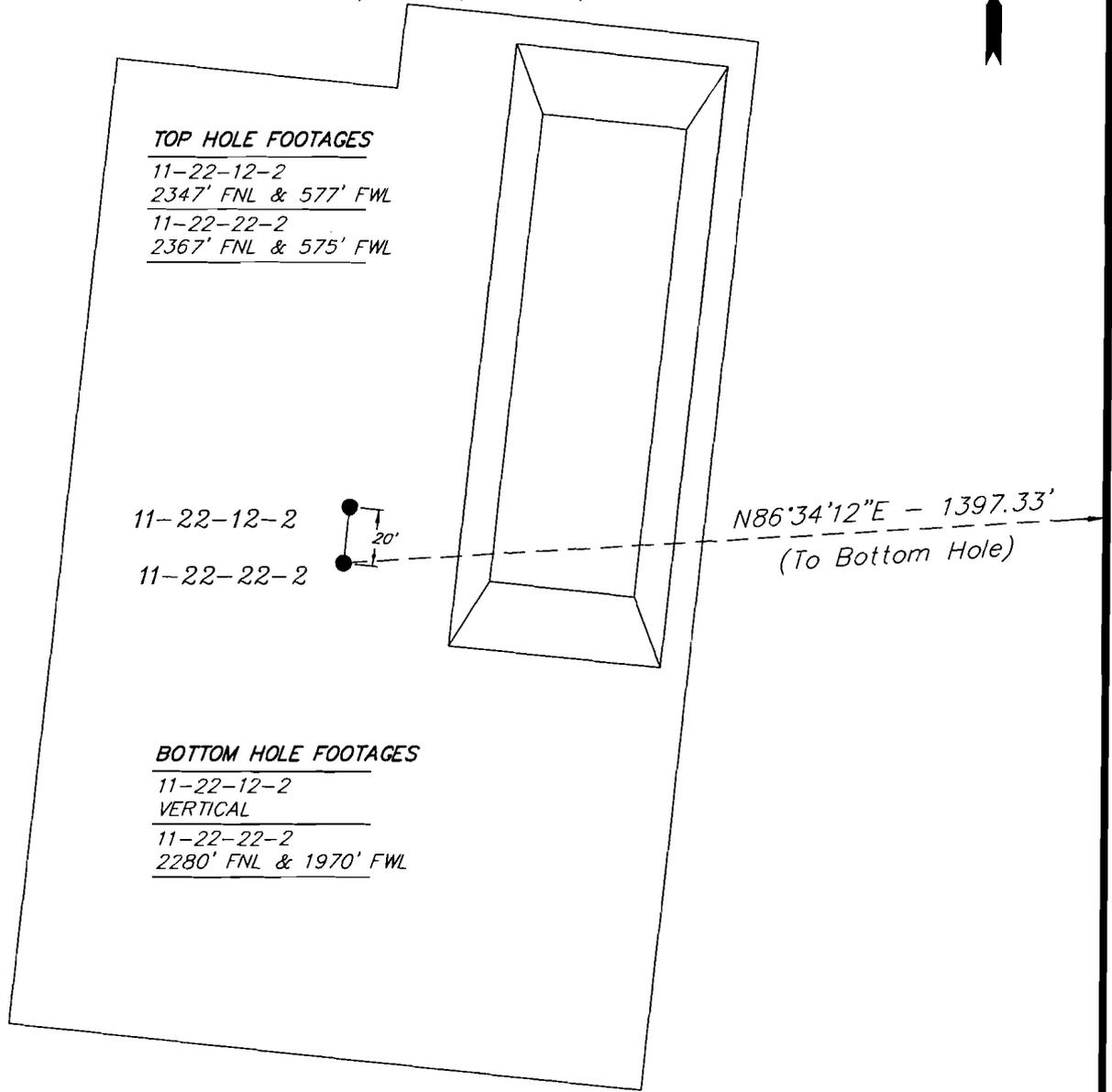
Directional Drilling Plan: Attached is the proposed directional drilling plan for the Archy Bench #11-22-22-2 well.

If, during operations, any archaeological or historical sites, or any objects of antiquity (subject to the Antiquities Act of June 8, 1906) are discovered, all operations which would affect such sites will be suspended and the discovery reported promptly to the surface management agency.

All lease operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations and any applicable Notice to Lessees. The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

ENDURING RESOURCES

WELL PAD INTERFERENCE PLAT
 ARCHY BENCH 11-22-12-2
 ARCHY BENCH 11-22-22-2
 SECTION 2, T11S, R22E, S.L.B.&M.



TOP HOLE FOOTAGES
 11-22-12-2
 2347' FNL & 577' FWL
 11-22-22-2
 2367' FNL & 575' FWL

BOTTOM HOLE FOOTAGES
 11-22-12-2
 VERTICAL
 11-22-22-2
 2280' FNL & 1970' FWL

Note:
 Bearings are derived
 using true North.

<i>RELATIVE COORDINATES</i>		
<i>From top hole to bottom hole</i>		
WELL	NORTH	EAST
12-2	N/A	N/A
22-2	84'	1395'

<i>LATITUDE & LONGITUDE</i>		
<i>Surface position of Wells (NAD 83)</i>		
WELL	LATITUDE	LONGITUDE
12-2	39° 53' 30.17"	109° 25' 46.95"
22-2	39° 53' 29.97"	109° 25' 46.98"

SURVEYED BY: C.D.	DATE DRAWN: 6-1-05	
DRAWN BY: F.T.M.	SCALE: 1" = 60'	
REVISED: 6-9-05		

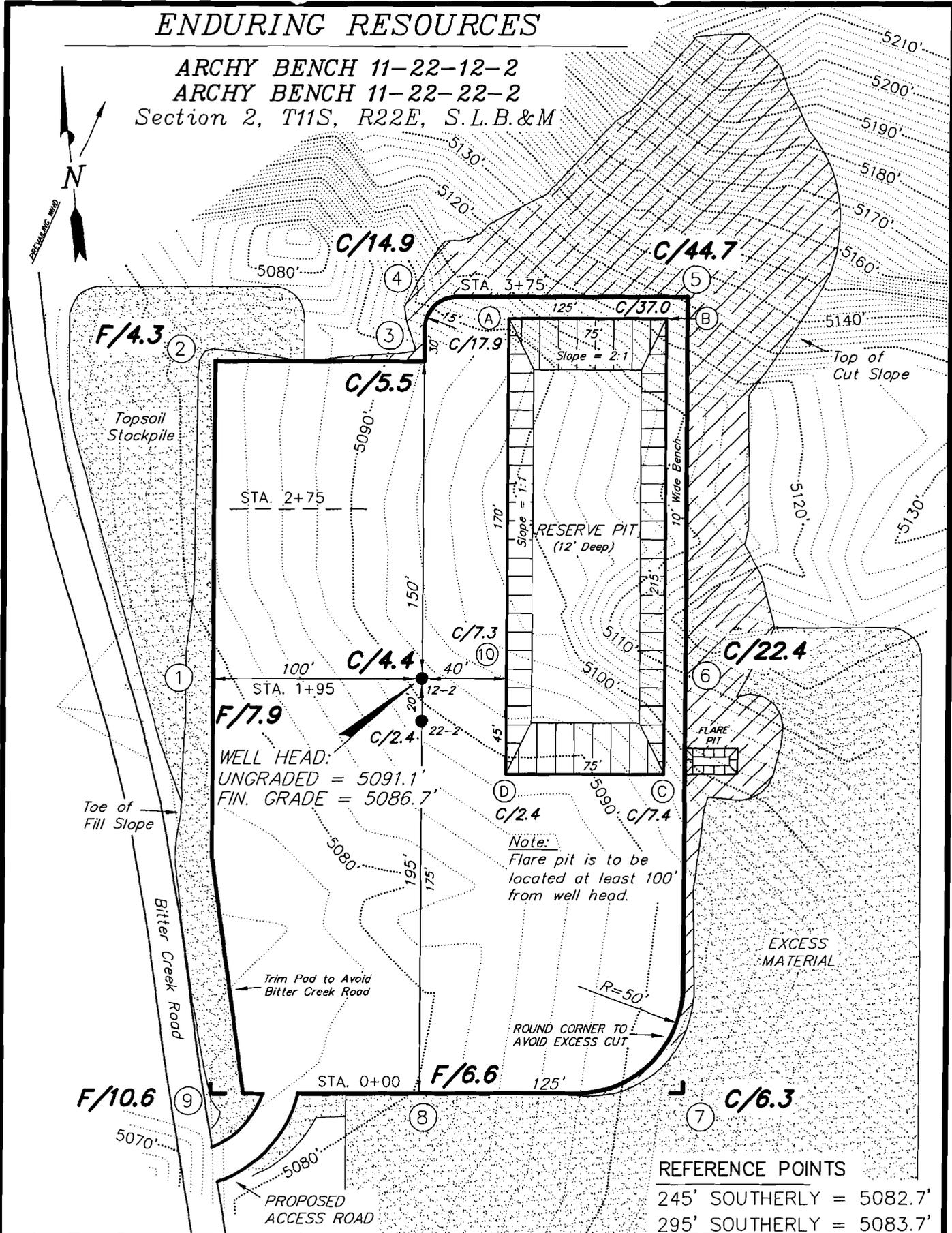
Tri State
 Land Surveying, Inc.
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

(435) 781-2501

SHEET
3
 OF 10

ENDURING RESOURCES

ARCHY BENCH 11-22-12-2
 ARCHY BENCH 11-22-22-2
 Section 2, T11S, R22E, S.L.B.&M



WELL HEAD:
 UNGRADED = 5091.1'
 FIN. GRADE = 5086.7'

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

REFERENCE POINTS
 245' SOUTHERLY = 5082.7'
 295' SOUTHERLY = 5083.7'

SURVEYED BY: C.M.	DATE DRAWN: 6-1-05
DRAWN BY: F.T.M.	SCALE: 1" = 60'
NOTES:	

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

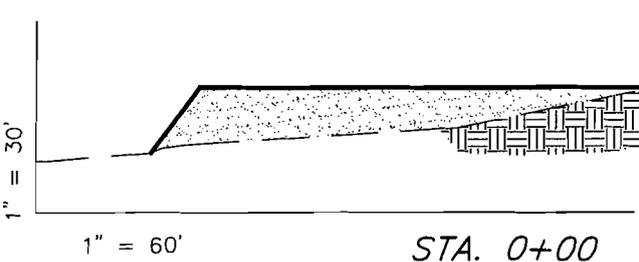
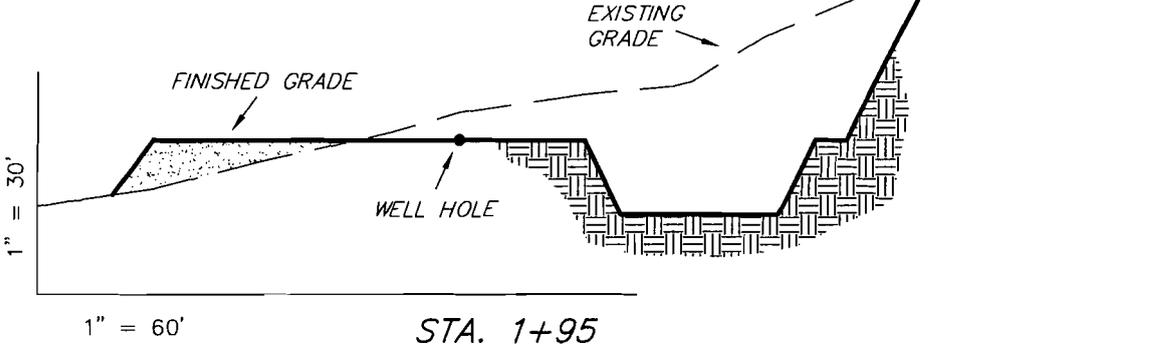
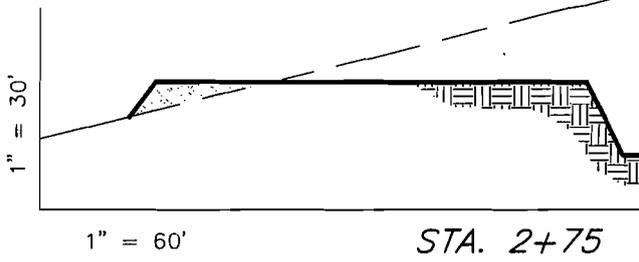
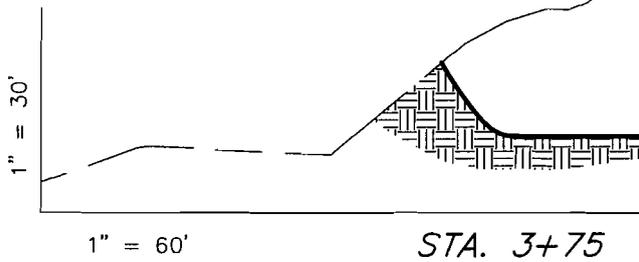
SHEET
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 OF 10

ENDURING RESOURCES

CROSS SECTIONS

ARCHY BENCH 11-22-12-2

ARCHY BENCH 11-22-22-2



ESTIMATED EARTHWORK QUANTITIES
(No Shrink or swell adjustments have been used)
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	29,590	8,140	Topsoil is not included in Pad Cut	21,450
PIT	5,390	0		5,390
TOTALS	34,980	8,140	2,060	26,840

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

SURVEYED BY: C.M.	DATE DRAWN: 6-1-05
DRAWN BY: F.T.M.	SCALE: 1" = 60'
NOTES:	

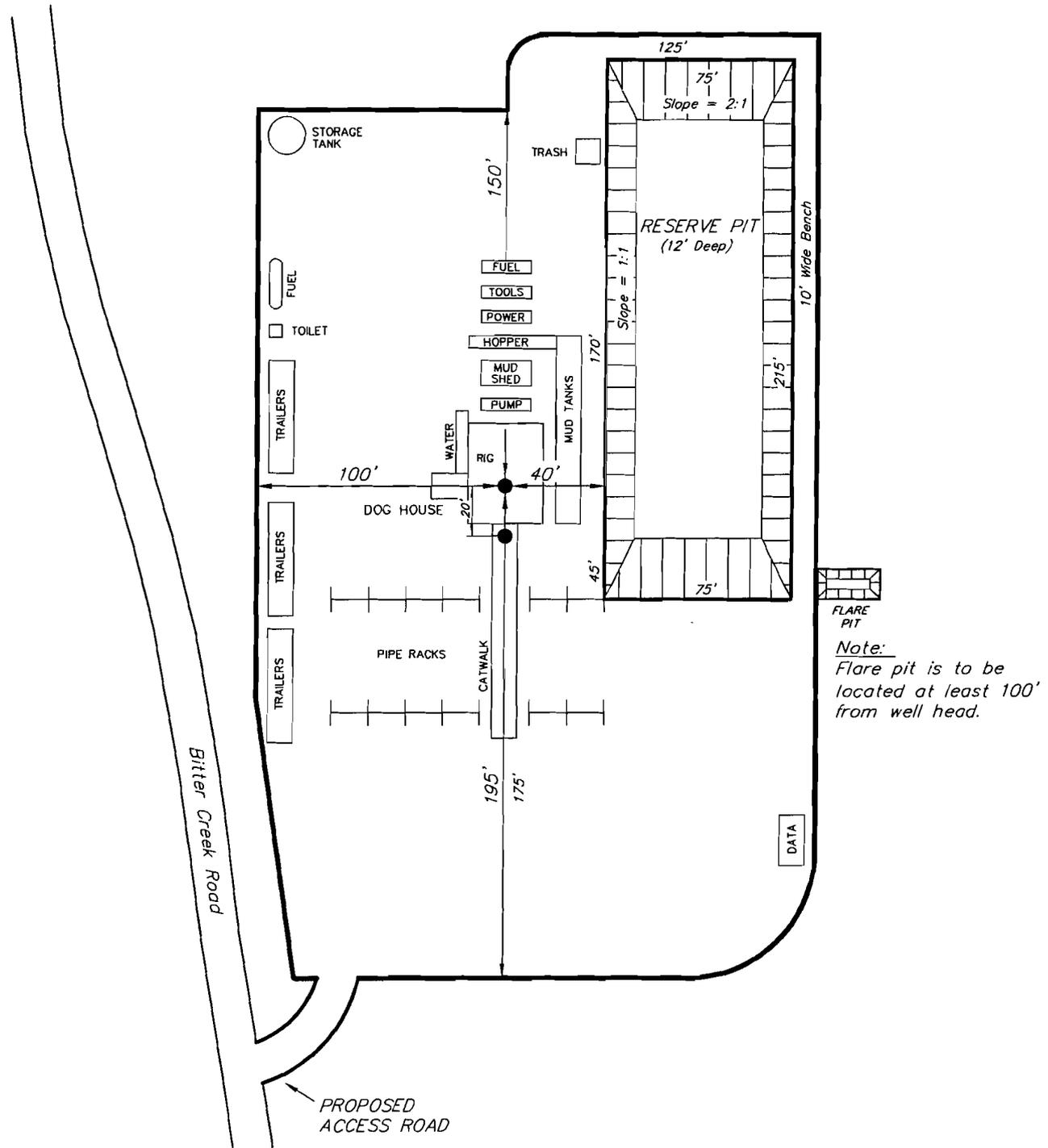
Tri State (435) 781-2501
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

SHEET
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OF 10

ENDURING RESOURCES

TYPICAL RIG LAYOUT

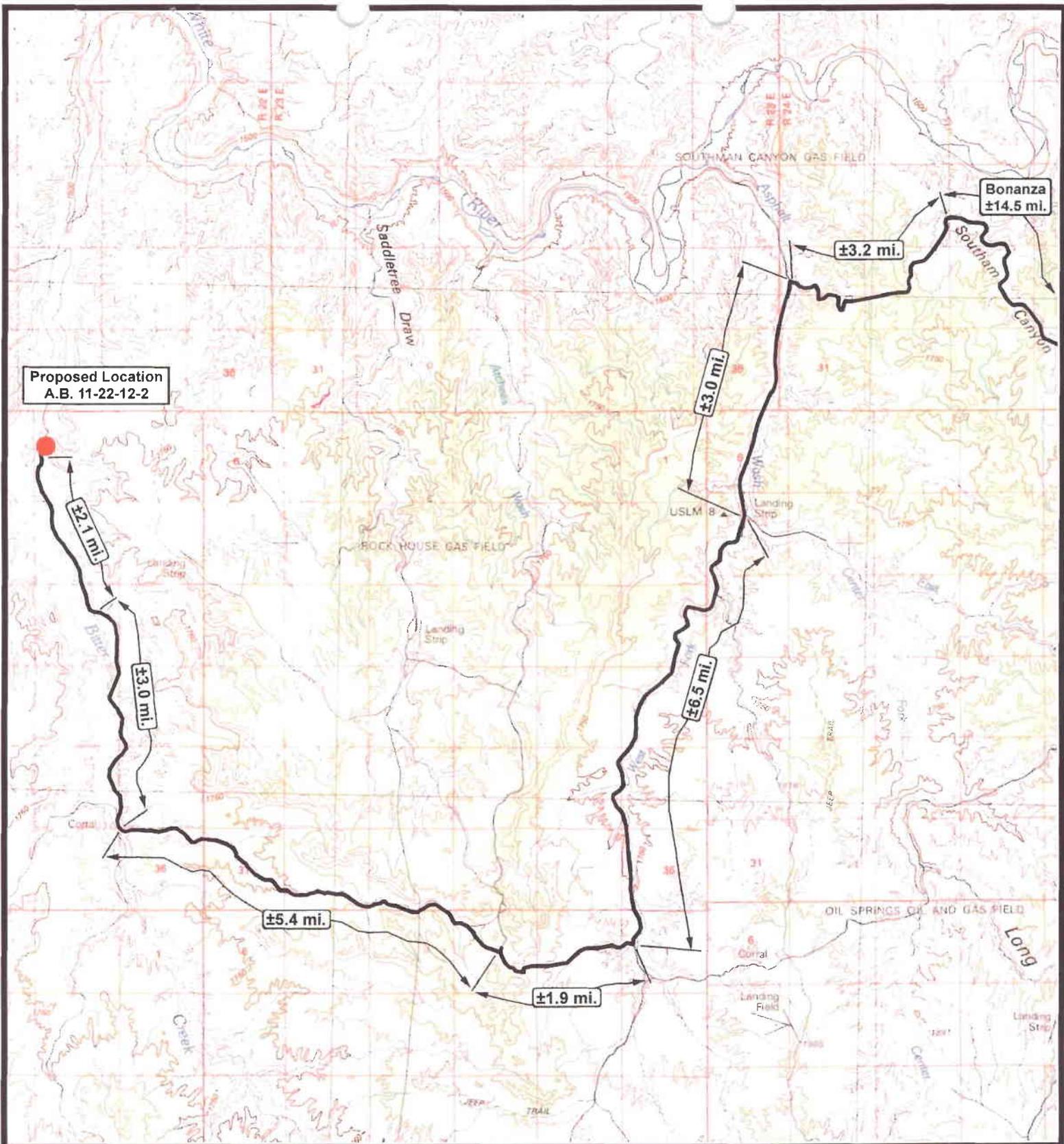
ARCHY BENCH 11-22-12-2
 ARCHY BENCH 11-22-22-2



SURVEYED BY: C.M.	DATE DRAWN: 6-1-05
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
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 OF 10



Proposed Location
A.B. 11-22-12-2

Bonanza
±14.5 mi.

±3.2 mi.

±3.0 mi.

USLM 8

±6.5 mi.

±5.4 mi.

±1.9 mi.



ENDURING RESOURCES

Archy Bench 11-22-12-2

Sec. 2, T11S, R22E, 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: 06-01-2005

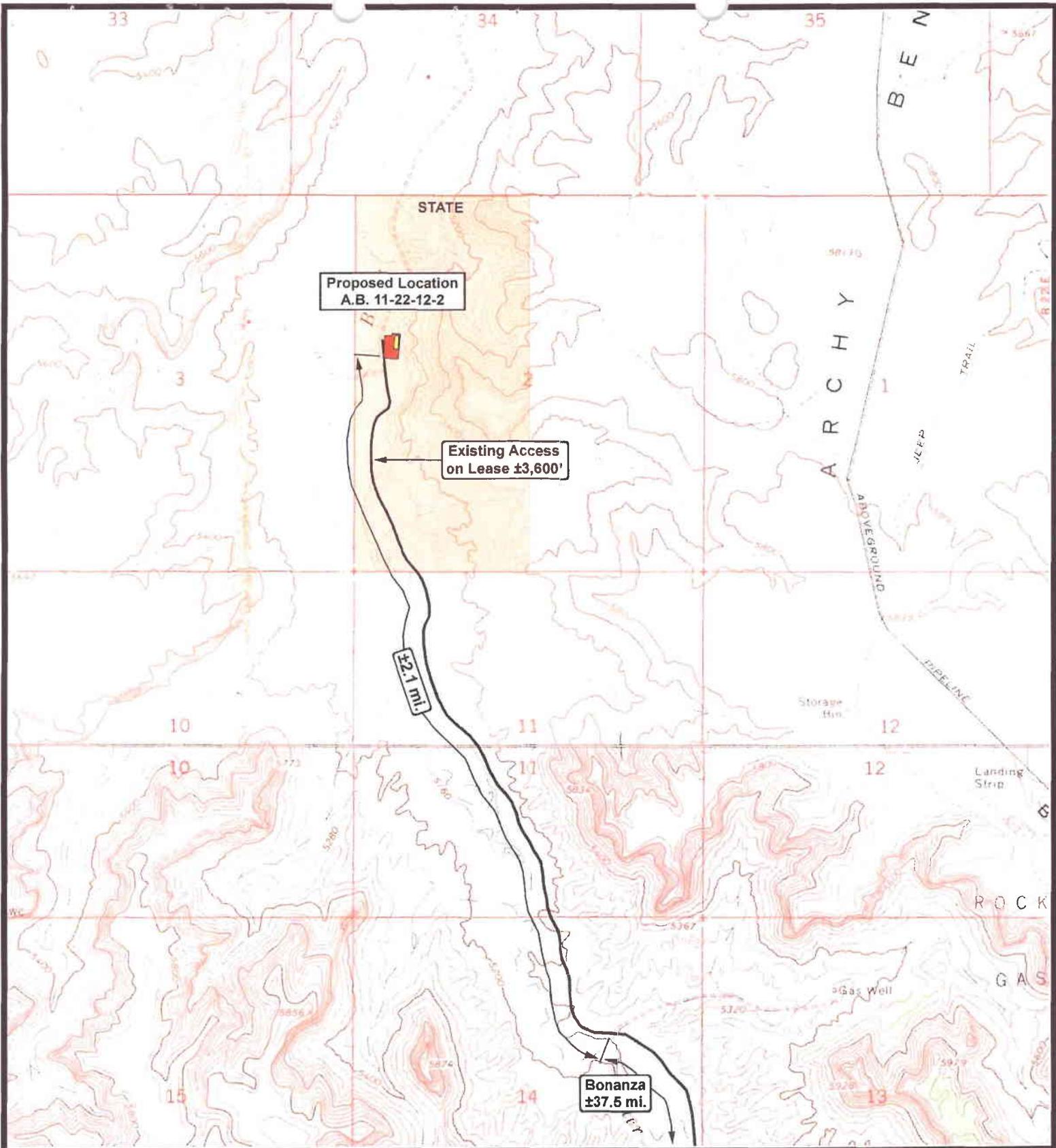
Legend

- Existing Road
- Proposed Access

TOPOGRAPHIC MAP SHEET

"A"

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OF 10



ENDURING RESOURCES

Archy Bench 11-22-12-2
Sec. 2, T11S, R22E, S.L.B.&M.



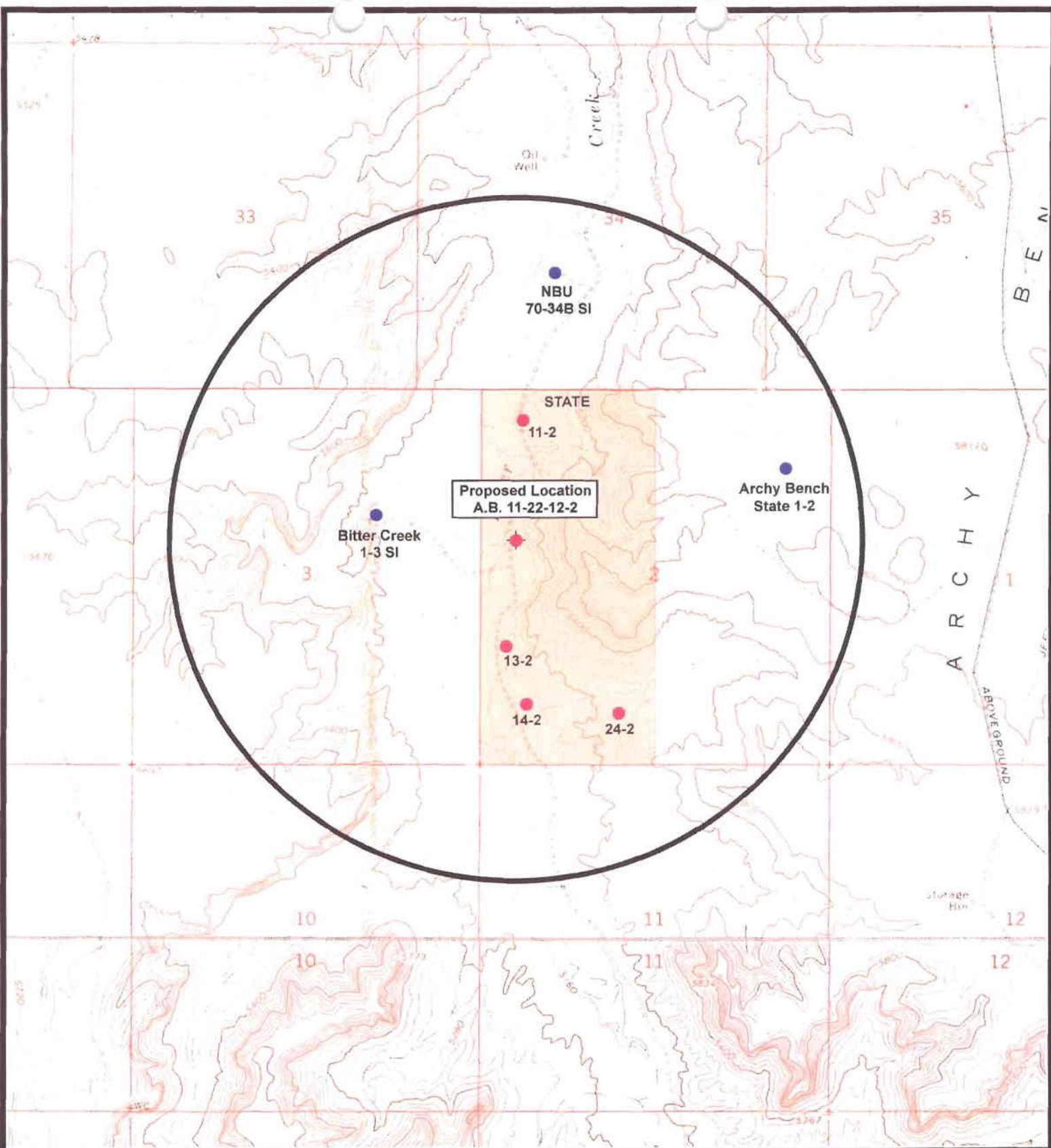
Tri-State
Land Surveying Inc.
 (435) 781-2501
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'
 DRAWN BY: bgm
 DATE: 06-01-2005

Legend

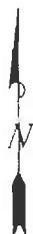
Existing Road

TOPOGRAPHIC MAP SHEET
"B" 8
 OF 10



ENDURING RESOURCES

Archy Bench 11-22-12-2
Sec. 2, T11S, R22E, 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: 06-01-2005

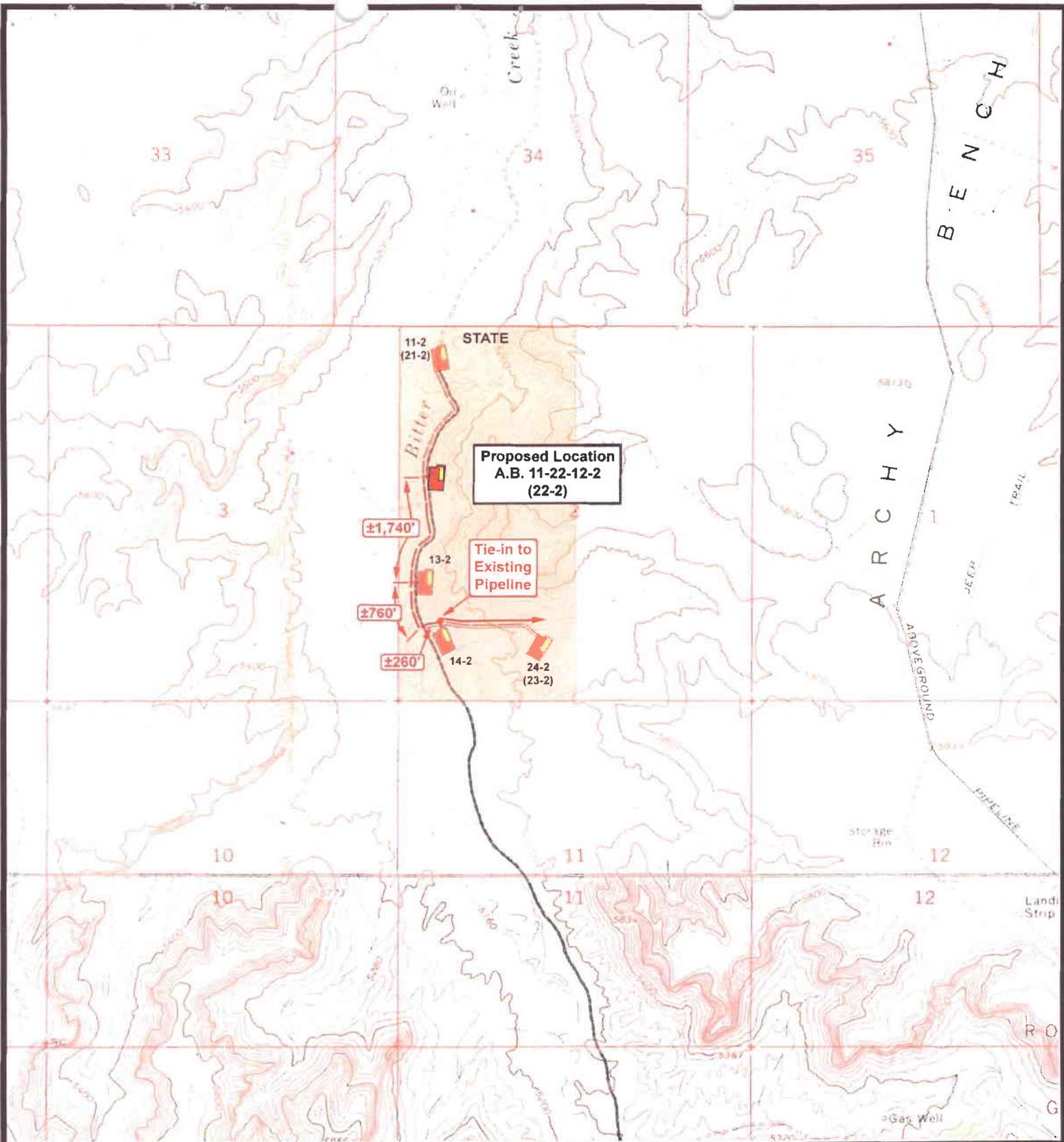
Legend

- Proposed Location
- Existing Location
- One-Mile Radius

TOPOGRAPHIC MAP

"C"

SHEET
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 OF 10



ENDURING RESOURCES

**Archy Bench 11-22-12-2
Sec. 2, T11S, R22E, 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: 06-01-2005

Legend

- Roads
- Existing Gas Line
- Proposed Gas Line

TOPOGRAPHIC MAP

"D"

SHEET

10
OF 10

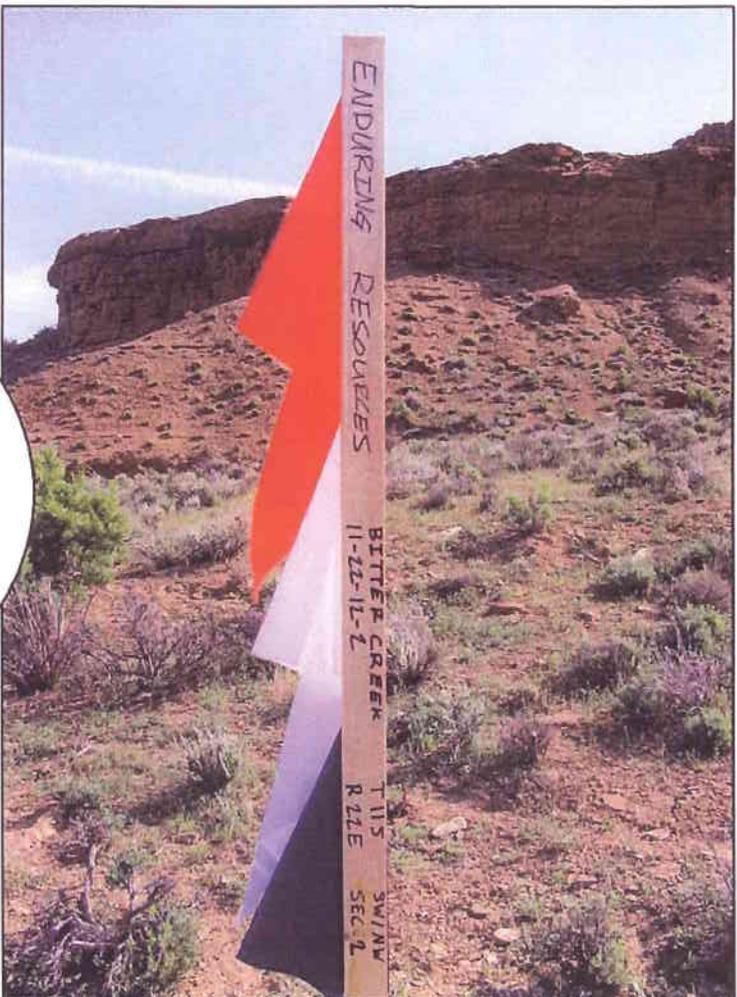
**Enduring Resources, LLC
Archy Bench 11-22-22-2
SWNW Sec. 2 T11S-R22E
Uintah County, Utah
Lease # ML-47075**

Directions to Proposed Location

Directions to the proposed location are as follows:

Beginning at the city of Bonanza, Utah, proceed south on State Hwy 45 for approximately 5.7 miles to where there is a turn off to the right. Turn right, exiting State Hwy 45, and proceed southwest on Southam Canyon Road (Class B County Road 4170) for a distance of approximately 5.1 miles. Continue along County Road 4170 going west then northwesterly for approximately 3.7 miles. Proceed along the same road going southwest then westerly for approximately 3.2 miles to where the road forks. Turn left and continue southerly along Asphalt Wash (Class B County Road 4160) for 3.0 miles to where the road forks near a landing strip. Stay to the right and continue south along Asphalt Wash road for approximately 6.5 miles to where there is a turn-off to the right. Turn right onto Bitter Creek Road (Class B County Road 4120) and continue in a westerly direction for approximately 1.9 miles to where there is a turn off to the left. Turn left and continue in a westerly direction for approximately 5.4 miles to an intersection with Buck Camp Canyon Road (Class B County Road 4220). Turn right and continue on Bitter Creek Road traveling in a northerly direction for approximately 5.1 miles to the proposed well location. This location is situated adjacent to Bitter Creek Road and shall be the well pad for the proposed Archy Bench #11-22-12-2 and the proposed Archy Bench #11-22-22-2 well.

The proposed well site is located approximately 39.6 miles Southwesterly from Bonanza, Utah.



CENTER STAKE



ENDURING RESOURCES
A.B. 11-22-12-2

Date Photographed: 05/20/2005

Date Drawn: 05/23/2005

Drawn By: bgm

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180 North Vernal Ave. Vernal, Utah 84078
(435) 781-2501



NORTH


ENDURING RESOURCES
A.B. 11-22-12-2

Date Photographed: 06/20/2005

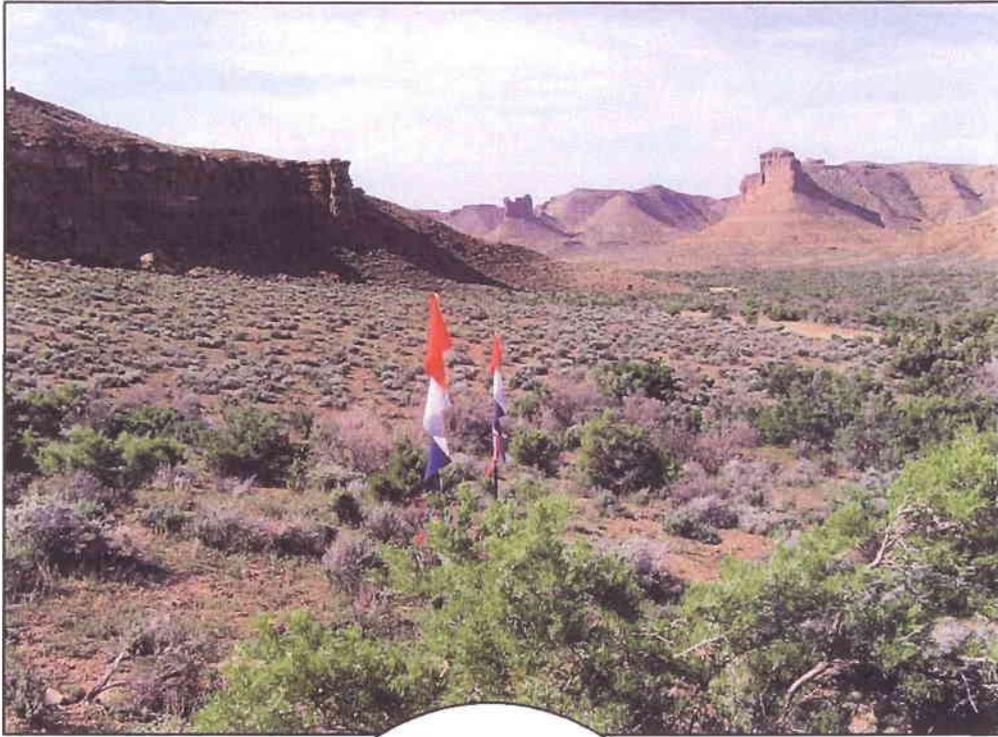
Date Drawn: 06/23/2005

Drawn By: bgm


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Land Surveying Inc.
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180 North Vernal Ave. Vernal, Utah 84078

EAST





SOUTH


ENDURING RESOURCES
~
A.B. 11-22-12-2

Date Photographed: 05/20/2005

Date Drawn: 05/23/2005

Drawn By: bgm


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

WEST



**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 06/20/2005

API NO. ASSIGNED: 43-047-36786

WELL NAME: ARCHY BENCH 11-22-22-2

OPERATOR: ENDURING RESOURCES, LLC (N2750)

CONTACT: PHYLLIS SOBOTIK

PHONE NUMBER: 303-350-5114

PROPOSED LOCATION:

SWNW 02 110S 220E

SURFACE: 2367 FNL 0575 FWL

SENU BOTTOM: 2280 FNL 1970 FWL

UINTAH

BITTER CREEK (547)

LEASE TYPE: 3 - State

LEASE NUMBER: ML-47075

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: MVRD

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	<i>DKD</i>	<i>7/7/05</i>
Geology		
Surface		

LATITUDE: 39.89168

LONGITUDE: -109.4290

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]
(No. RLB0008031)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 43-2195)
- RDCC Review (Y/N)
(Date: _____)
- 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: 210-04 (8/320')
Eff Date: 4-12-2004
Siting: 460' fr Ext dir & bary. 920' fr other wells
- R649-3-11. Directional Drill

COMMENTS: _____

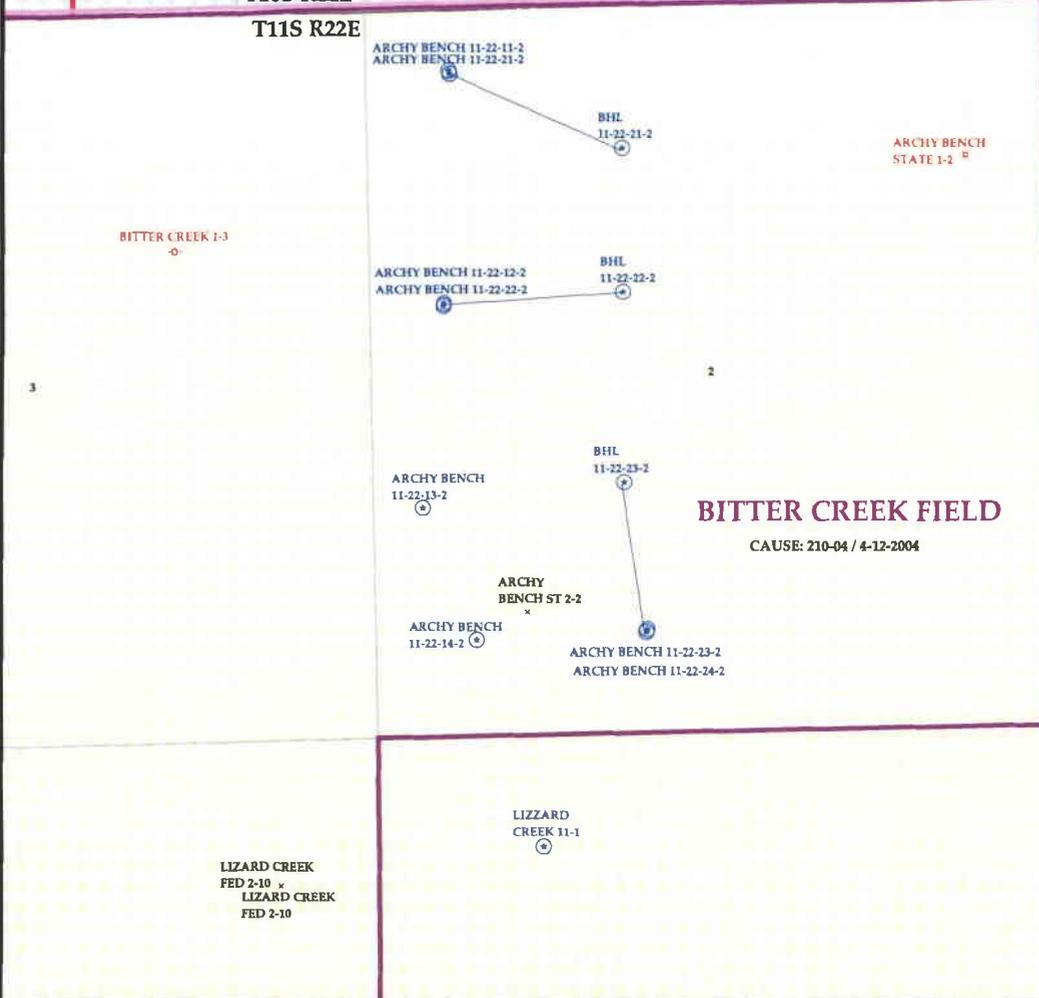
STIPULATIONS: 1- Federal approved

2- Surface Csg Cont step

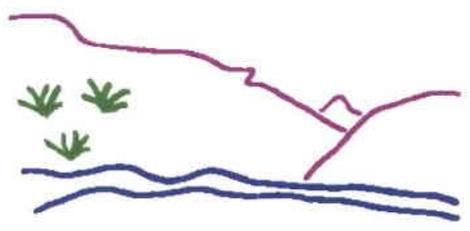
3- STATEMENT OF BASIS

**NATURAL BUTTES FIELD
NATURAL BUTTES UNIT**
CAUSE: 197-10

T10S R22E
T11S R22E



OPERATOR: ENDURING RES LLC (N2750)
SEC: 2 T. 11S R. 22E
FIELD: BITTER CREEK (547)
COUNTY: UINTAH
CAUSE: 210-04 / 4-12-2004



Utah Oil Gas and Mining

Wells	Units.shp	Fields.shp
⊕ GAS INJECTION	□ EXPLORATORY	□ ABANDONED
○ GAS STORAGE	□ GAS STORAGE	□ ACTIVE
× LOCATION ABANDONED	□ NF PP OIL	□ COMBINED
⊕ NEW LOCATION	□ NF SECONDARY	□ INACTIVE
⊕ PLUGGED & ABANDONED	□ PENDING	□ PROPOSED
⊕ PRODUCING GAS	□ PI OIL	□ STORAGE
● PRODUCING OIL	□ PP GAS	□ TERMINATED
⊕ SHUT-IN GAS	□ PP GEOTHERML	
⊕ SHUT-IN OIL	□ PP OIL	
× TEMP. ABANDONED	□ SECONDARY	
○ TEST WELL	□ TERMINATED	
△ WATER INJECTION		
⊕ WATER SUPPLY		
⊕ WATER DISPOSAL		



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

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

OPERATOR: Enduring Resources, LLC
WELL NAME & NUMBER: Archy Bench 11-22-22-2
API NUMBER: 43-047-36786
LOCATION: 1/4,1/4 SENW Sec: 2 TWP: 11S RNG: 22 E 2367 FNL 575 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 3,100 feet. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius center of Section 2. The surface formation at this location is the Green River Formation. 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:** 07-11-05

Surface:

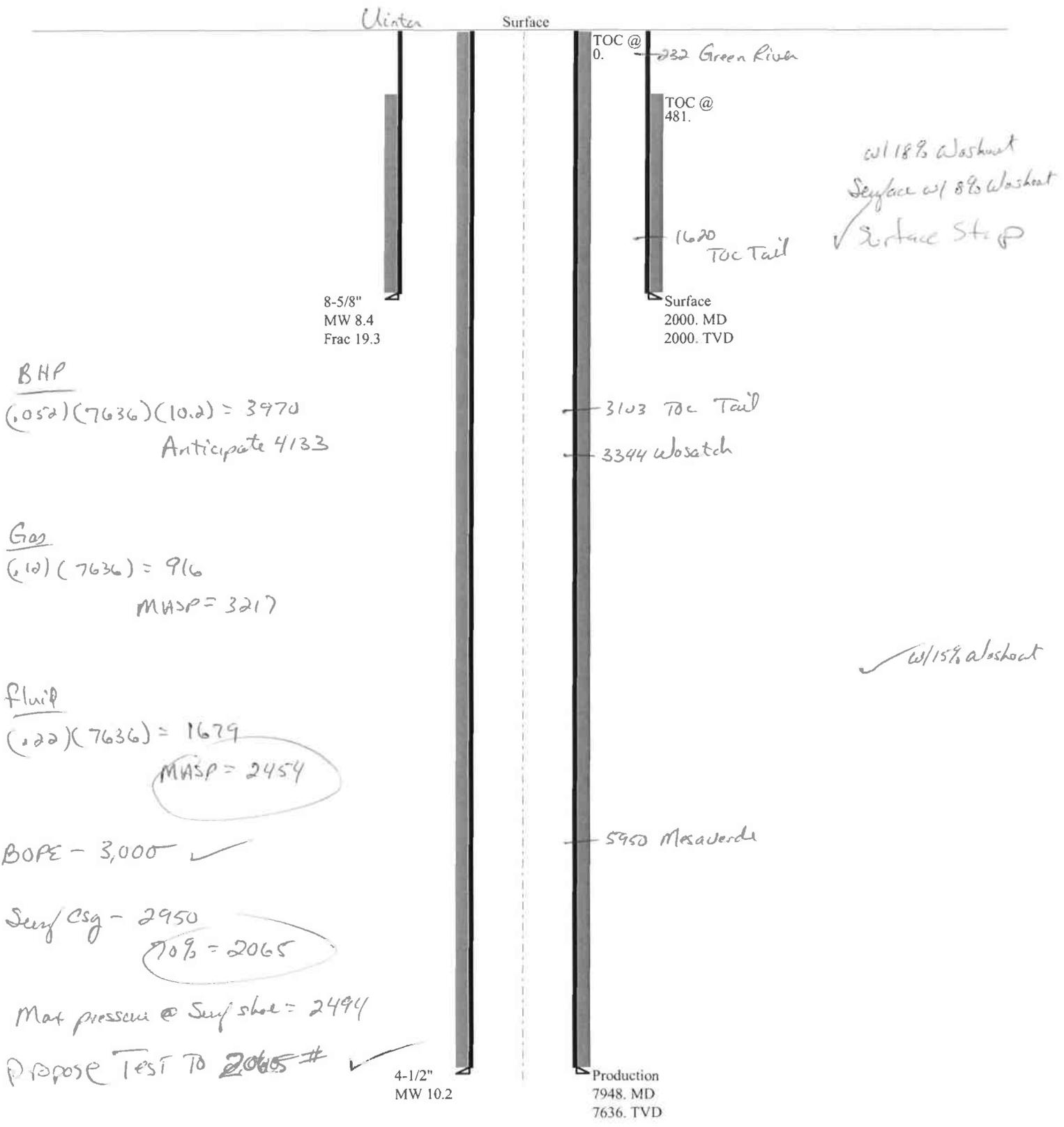
The Federal Government is the owner of the surface rights at this location. The BLM is the administrative agency for permitting of surface use. The operator is responsible for obtaining any needed permits or rights of way before causing any surface disturbance.

Reviewer: Brad Hill **Date:** 07-11-05

Conditions of Approval/Application for Permit to Drill:

None

-05 Enduring Archy Bench 22-22-2
Casing Schematic



BHP
 $(.052)(7636)(10.2) = 3970$
 Anticipate 4133

Gas
 $(.10)(7636) = 916$
 MASP = 3217

Fluid
 $(.22)(7636) = 1679$
 MASP = 2454

BOPE - 3,000 ✓

Surf Csg - 2950
 70% = 2065

Max pressure @ Surf shoe = 2494

Propose Test To 2065 # ✓

✓ Adequate (w/ 7/7/05)

Well name:	06-05 Enduring Archy Bench 11-22-22-2	
Operator:	Enduring Resources, LLC	Project ID:
String type:	Surface	43-047-36786
Location:	Uintah County	

Design parameters:

Collapse

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

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 75 °F
 Bottom hole temperature: 103 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 350 ft

Cement top: 481 ft

Burst

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

No backup mud specified.

Tension:

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

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

Non-directional string.

Re subsequent strings:

Next setting depth: 7,636 ft
 Next mud weight: 10.200 ppg
 Next setting BHP: 4,046 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: June 28, 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:	06-05 Enduring Archy Bench 11-22-22-2		
Operator:	Enduring Resources, LLC		
String type:	Production	Project ID:	43-047-36786
Location:	Uintah County		

Design parameters:

Collapse

Mud weight: 10.200 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: 182 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,500 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 3,130 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 4,046 psi

No backup mud specified.

Tension:

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

Tension is based on buoyed weight.
 Neutral point: 6,777 ft

Directional well information:

Kick-off point 0 ft
 Departure at shoe: 1554 ft
 Maximum dogleg: 5 °/100ft
 Inclination at shoe: 6 °

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	7948	4.5	11.60	N-80	LT&C	7636	7948	3.875	184.2
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	4046	6350	1.569	4046	7780	1.92	75	223	2.97 J

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

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

Date: June 28, 2005
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 7636 ft, a mud weight of 10.2 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.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

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



ENDURING RESOURCES

475 Seventeenth Street Suite 1500 Denver Colorado 80202
Telephone: 303 573 1222 Facsimile: 303 573 0461

June 21, 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: Archy Bench 11-22-22-2
SL: SWNW 2367' FNL 575' FWL
BHL: SENW 2280' FNL 1970' FWL
Sec 2 T11S-R22E
Uintah County, Utah

Dear Ms. Whitney:

Enduring Resources, LLC (Enduring) has submitted an Application for Permit to Drill dated June 16, 2005 concerning the referenced well. Enduring is submitting this letter in accordance with UT Administrative Code R649-3-11 Directional Drilling.

* Enduring located at 475 17th Street, Suite 1500 Denver, CO 80202 is the operator of the referenced proposed well.

* Due to topographic constraints, Enduring was unable to locate an area to build a location to drill a vertical well. Therefore, this well is proposed to be drilled as a directional well to reach the desired bottomhole. Additionally, surface disturbance will be minimized by eliminating the construction of another location, access road and pipeline.

* Enduring hereby certifies that it is the sole working interest owner within a 460 foot radius of the entire proposed directional wellbore. Enduring is the only lease owner for the entire west half of Sec. 2 T11S-R22E.

The signature below signifies Enduring Resources, LLC written consent to UT Administrative Code R649-3-11.

Signature:

Name: Phyllis Sobotik
Title: Regulatory Specialist
Date: June 21, 2005

RECEIVED
JUN 23 2005
DIV. OF OIL, GAS & MINING



State of Utah

Department of
Natural Resources

MICHAEL R. STYLER
Executive Director

Division of
Oil, Gas & Mining

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

July 11, 2005

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

Re: Archy Bench 11-22-22-2 Well, 2367' FNL, 575' FWL, SW NW, Sec. 2,
T. 11 South, R. 22 East, Bottom Location 2280' FNL, 1970' FWL, SE NW,
Sec. 2, T. 11 South, R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-36786.

Sincerely,

Gil Hunt
Acting Associate Director

jc
Enclosures

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

Operator: Enduring Resources, LLC
Well Name & Number Archy Bench 11-22-22-2
API Number: 43-047-36786
Lease: ML-47075

Location: SW NW **Sec. 2** **T. 11 South** **R. 22 East**
Bottom Location: SE NW **Sec. 2** **T. 11 South** **R. 22 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. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

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43-047-36786
July 11, 2005

7. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
8. Surface casing shall be cemented to the surface.



Enduring Resources

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

43-047-36786

CONFIDENTIAL

August 9, 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: Cultural Resource Inventory Report # MOAC 05-196
Paleontological Reconnaissance Report # MOAC 05-197
Well Locations, Access Road and Pipelines Sec 2 T11S-R22E
Uintah County, Utah

Dear Ms. Whitney:

Enclosed are the referenced reports for the following proposed wells.

Archy Bench #11-22-11-2	Archy Bench #11-22-14-2	Archy Bench #11-22-23-2
Archy Bench #11-22-12-2	Archy Bench #11-22-21-2	Archy Bench #11-22-24-2
Archy Bench #11-22-13-2	Archy Bench #11-22-22-2	

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

Sincerely,

Phyllis Sobotik
Regulatory Specialist

/ps
Enclosures:

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AUG 12 2005

DIV. OF OIL, GAS & MINING

CULTURAL RESOURCE INVENTORY FOR
ENDURING RESOURCES' FIVE PROPOSED
WELL LOCATIONS ON BITTER CREEK,
(ARCHY BENCH 11-22-11-2, 11-22-12-2,
11-22-13-2, 11-22-14-2, AND 11-22-24-2)
IN T 11S, R22E, SEC. 2
UINTAH COUNTY, UTAH

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AUG 12 2005

DIV. OF OIL, GAS & MINING

CULTURAL RESOURCE INVENTORY FOR
ENDURING RESOURCES' FIVE PROPOSED
WELL LOCATIONS ON BITTER CREEK,
(ARCHY BENCH 11-22-11-2, 11-22-12-2,
11-22-13-2, 11-22-14-2, AND 11-22-24-2)
IN T 11S, R22E, SEC. 2
UINTAH COUNTY, UTAH

By:

Todd B. Seacat
and
Kate Freudenberg

Prepared For:

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. 05-196

27 June 2005

United States Department of Interior (FLPMA)
Permit No. 05-UT-60122

State of Utah Antiquities Project (Survey)
Permit No. U-05-MQ-0614b

ABSTRACT

In June 2005, a cultural resource inventory was conducted by Montgomery Archaeological Consultants Inc. (MOAC) for Enduring Resources' proposed five Archy Bench wells and pipeline corridors: Archy Bench 11-22-11-2, 11-22-12-2, 11-22-13-2, 11-22-14-2, and 11-22-24-2. The project area occurs along Bitter Creek road west of Archy Bench. The legal description for the project area is Township 11 South, Range 22 East, Section 2. A total of 59.7 acres were surveyed, all of which occurred on BLM land.

The cultural resource inventory resulted in locating one prehistoric site with a historic component (42Un4826) which is eligible for the National Register of Historic Places. Three other historic sites (42Un4827, 42Un4828, and 42Un4829) were located and are not eligible for the National Register of Historic Places.

In summary, the inspection of Enduring Resources' proposed five Archy Bench wells and pipeline corridors resulted in the documentation of four archaeological sites (42Un4826, 42Un4827, 42Un4828, and 42Un4829). Site 42Un4826 is considered eligible to the NRHP and should be avoided by the undertaking. To facilitate avoidance during the construction activities, it is recommended that a temporary fence be erected at the sites' boundary. In addition, the construction of Archy Bench 11-22-11-2 well location should be monitored by a qualified archaeologist. Based on these avoidance procedures, a recommendation of "no historic properties affected" pursuant to Section 106, CFR 800 is proposed for this project.

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INTRODUCTION

A cultural resource inventory was conducted by Montgomery Archaeological Consultants Inc. (MOAC) in June 2005 for Enduring Resources' five proposed well locations. The well locations are designated: Archy Bench 11-22-11-2, 11-22-12-2, 11-22-13-2, 11-22-14-2 and 11-22-24-2. The project area occurs in the Archy Bench area on Bitter Creek, south of Vernal, Utah. The survey was implemented at the request of Ms. Phyllis Sobotik, Enduring Resources, LLC, Denver, Colorado. A total of 59.7 acres was inventoried for cultural resources 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 between June 11 and 13, 2005 by Todd B. Seacat (Project Archaeologist) and directed by Keith R. Montgomery (Principal Investigator) under the auspices of U.S.D.I. (FLPMA) Permit No. 05-UT-60122 and State of Utah Antiquities Permit (Survey) No. U-05-MQ-0614b issued to MOAC.

A file search was conducted by Marty Thomas of the Utah Division of State Historic Antiquities Section on June 15, 2005. The file search revealed that several previous inventories have been completed in the vicinity of the present project area. In 1980, Gordon and Kranzush Consultants inventoried a Natural Gas Pipeline Company corridor revealing no archaeological sites (Gordon 1980). Again in 1980 this company surveyed a proposed pipeline in the area and located no cultural resources (Gordon 1980). In 1984, Western Wyoming College conducted an inventory for the Natural Gas Pipeline Company; no cultural resources were found (Creasman, 1984). In 2002, Montgomery Archaeological Consultants (MOAC) completed a cultural resource inventory under contract with Buys and Associates for the Veritas DGC Land, Inc. Uintah Seismic Project. Of the 75 archaeological sites found or revisited, none lie near the current project area (Elkins and Montgomery 2002, U-02-MQ-0243b,p,s). This project identified 19 projects previously completed near the project area; however, no previously recorded sites were identified. In 2004, MOAC completed a cultural resource inventory of the proposed Seep Ridge West Expansion pipeline corridor for Miller, Dyer & Co. (Drake 2004) which resulted in the identification of three previously recorded sites (42Un2383, 42Un2570 and 42Un2761) and four new archaeological sites (42Un4387 through 42Un4390). None of the sites are near the current project area. In summary, while several projects have been completed near the project area, there are no previously recorded sites within the area.

DESCRIPTION OF PROJECT AREA

Enduring Resources' proposed five Archy Bench wells with associated access/pipeline corridors is situated on Bitter Creek, Uintah County, Utah. The legal description is Township 11 South, Range 22 E, Section 2 (Figure 1).

Table 1: Enduring Resources' Proposed Five Archy Bench Wells and Pipeline Corridors on Bitter Creek.

Well Location	Legal Locations	Pipeline	Cultural Resources
Archy Bench 11-22-11-2	NW, NW Sec. 2 T11S, R22E	Pipeline: 1,400 ft.	42Un4826 42Un4827 42Un4828
Archy Bench 11-22-12-2	SW, NW Sec. 2 T11S, R22E	Pipeline: 1,050 ft.	None
Archy Bench 11-22-13-2	NW, SW Sec. 2 T11S, R22E	Pipeline: 420 ft.	42Un4829
Archy Bench 11-22-14-2	SW, SW Sec. 2 T11S, R22E	Pipeline: 940 ft.	None
Archy Bench 11-22-24-2	SE, SW Sec. 2 T11S, R22E	None	None

Environment

The study area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The Uinta Basin ecosystem is within the Green River drainage, considered to be the northernmost extension of the Colorado Plateau. 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 in the ephemeral drainage area between Cottonwood Wash and Willow Creek. Surface geology consists of hard pan residual soil armored with shale and sandstone pebbles. The elevation ranges between 5700 ft and 5900 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.

Cultural Overview

The cultural-chronological sequence represented in the 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.), characterized by the adaptation to terminal Pleistocene environments and 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 points (ca. 10,000 B.P. - 7,000 B.P.). Near the project area, a variety of Plano Complex Paleoindian projectile points have been documented, including Goshen, Alberta, and Midland styles

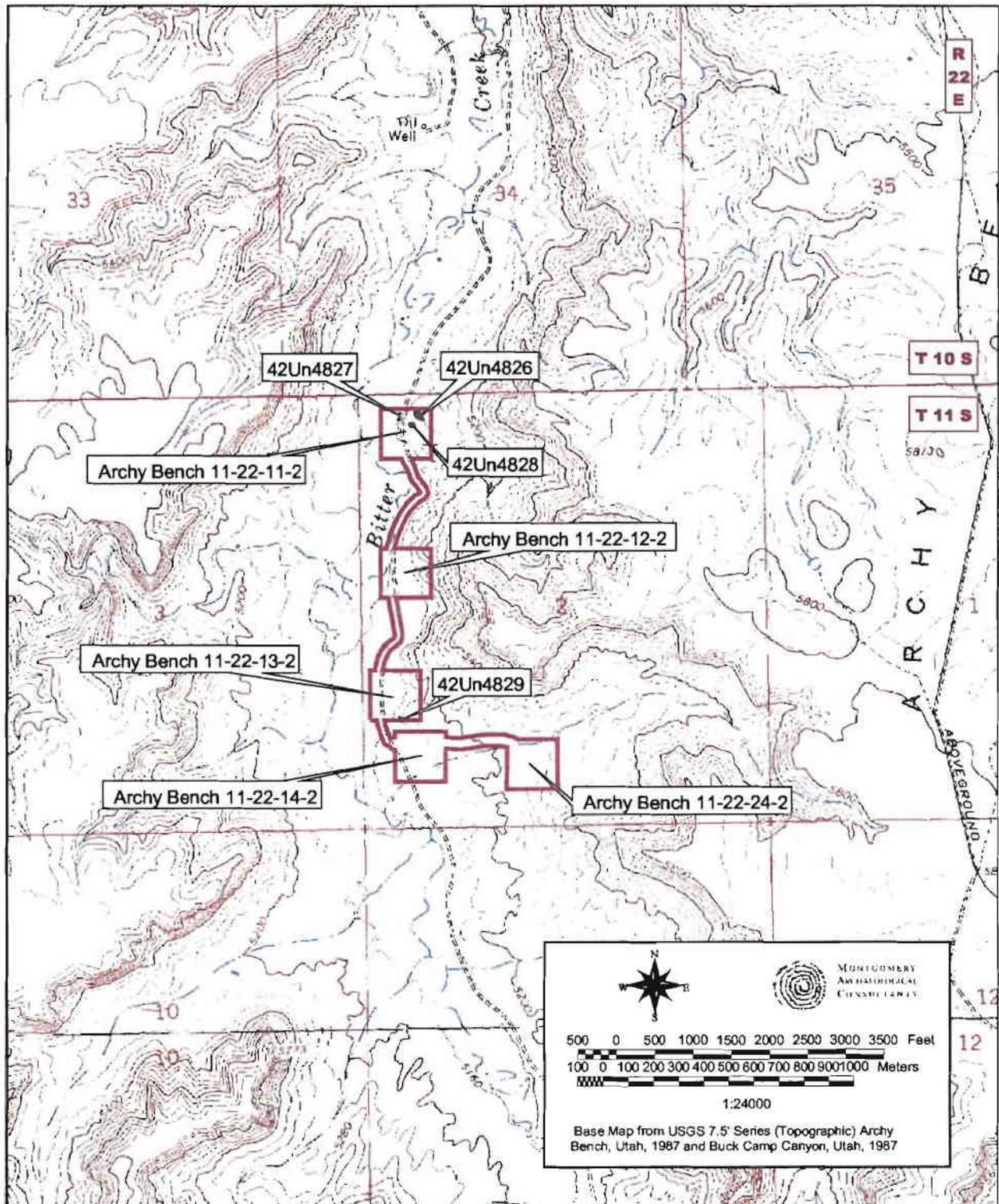


Figure 1. Inventory Area of Enduring Resources' Proposed Five Archy Bench Well Locations and Pipeline Corridor on Bitter Creek in Uintah County, Utah.

(Hauck 1998). No sites with evidence of Folsom lithic technology have previously been documented near the project area. Spangler (1995:332) reports that there are no sealed cultural deposits in association with extinct fauna or with chronologically distinct Paleoindian artifacts in Utah. Specifically in the Uinta Basin, few Paleoindian sites have been adequately documented, and most evidence of Paleoindian exploitation of the area is restricted to isolated projectile points recovered in nonstratigraphic contexts. Copeland and Fike (1998:21) argue that many areas in Utah are conducive to the herding behavior of megafauna, and that there is a high probability that many of the sites in Utah of unknown age are Paleoindian.

The Archaic stage (ca. 8,000 B.P.-1,500 B.P.) is characterized by the dependence on a foraging subsistence, with peoples 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, and the development of the atlatl, perhaps in response to a need to pursue smaller and faster game (Holmer 1986). In the Uinta Basin, evidence of Early Archaic presence is relatively sparse compared to the subsequent Middle and Late Archaic periods. Early Archaic (ca. 6000-3000 B.C.) sites in the Basin include sand dune sites and rockshelters primarily clustered in the lower White River drainage (Spangler 1995:373). Early Archaic projectile points recovered from Uinta Basin contexts include Pinto Series, Humboldt, Elko Series, Northern Side-notched, Hawken Side-notched, Sudden Side-notched and Rocker Base Side-notched points. Excavated sites in the area with Early Archaic components include Deluge Shelter in Dinosaur National Monument, and open campsites along the Green River and on the Diamond Mountain Plateau (Spangler 1995:374). The Middle Archaic (ca. 3000-500 B.C.) is characterized by improved climatic conditions and an increase in human population on the northern Colorado Plateau. Several stratified Middle Archaic sites have been excavated and dozens of sites have been documented in the Uinta Basin. 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. Subsistence data from Middle Archaic components indicate gathering and processing of plants as well as faunal exploitation (e.g., mule deer, antelope, bighorn sheep, cottontail rabbit, muskrat, prairie dog, beaver and birds). The Late Archaic period (ca. 500 B.C.-A.D. 550) in the Uinta Basin is distinguished by the continuation of Elko Series projectile 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. In the Uinta Basin, the earliest evidence of Late Archaic architecture occurs at the Cockleburr Wash Site (42Un1476) where a temporary structure, probably a brush shelter, yielded a date of 316 B.C. (Tucker 1986). The structure was probably associated with seasonal procurement of wild floral resources gathered along Cliff Creek.

The Formative stage (A.D. 500-1300) is recognized in the area as the Uinta Fremont as first defined by Marwitt (1970). This stage is characterized by a reliance upon domesticated corn and squash, increasing sedentism, and in its later periods, substantial habitation structures, pottery, and bow and arrow weapon technology. Based on the evidence from Caldwell Village, Boundary Village, Deluge Shelter, Mantles Cave and others, the temporal range of the Uinta Fremont appears to be from A.D. 650 to 950. This variant is characterized by shallow, saucer-shaped pithouse structures with randomly placed postholes and off-center firepits, some of which were adobe-rimmed. Traits considered unique or predominate to the Uinta Basin include calcite-tempered pottery, two-handled wide-mouth vessels, Utah type metates, the use of gilsonite for pottery repair, settlement on tops of buttes and large-shouldered bifaces (Shields 1970).

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). 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 Ute appear to have been hunters and gatherers who exploited various fauna and flora resources. According to macrobotanical and faunal data from dated components, deer, elk, pronghorn, bison, and small game were acquired (Reed 1994:191). Plant materials thought to have been exploited for food include goosefoot, grass seeds, pinyon nuts, juniper berries, squawbush berries and leaves, hackberry seeds and possibly saltbush seeds, knotweed, chokecherry, and chickweed (Reed 1994:191).

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). Shortly thereafter, 361 Uncompahgre Utes were forced to sell their lands, and were relocated to the Ouray Reservation adjacent to the southern boundary of the Uintah Reservation below Ouray lying east of the Green River. A separate Indian Agency was established in 1881 with headquarters at Ouray which was located across the river from where the first military post, Fort Thornburgh was located. The Department of War established Fort Thornburgh along the Green River in 1881 to maintain peace between the settlers of Ashley Valley.

The infantry who participated in the relocation of the Colorado Indians ensured that the Uncompahgre and White River Utes remained on the two reservations (Burton 1996:28). In the late 1880s, gilsonite was discovered in the Uintah Basin, and Congress was persuaded to apportion 7,040 acres from the reservation so the mineral could be mined.

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).

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 reached 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.

SURVEY METHODOLOGY

An intensive pedestrian survey was performed for this project which is considered 100% coverage. At the proposed well location, 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 pipeline corridor was 100 ft wide, surveyed by walking parallel transects along the staked centerline, spaced no more than 10 m (30 ft) apart. Ground visibility was considered to be good. A total of 59.7 acres was inventoried for cultural resources on public land administered by the Bureau of Land Management (BLM), Vernal Field Office.

INVENTORY RESULTS

The inventory of Enduring Resources' five proposed well locations with associated access/ and pipeline corridors resulted in the documentation of four new archaeological sites (42Un4826, 42Un4827, 42Un4828, and 42Un4829).

Smithsonian Site No.: 42Un4826
Temporary Site No.: 05-196-01
Legal Description: NE/NW/NW of Sec. 2, T11S, R22E
NRHP Eligibility: Eligible, Criterion D

Description: This is a prehistoric and historic component site associated with a small rockshelter and seep spring. The site is situated at the base of an east-west trending sandstone cliff on the east side of Bitter Creek Canyon. The prehistoric component is comprised of lithic artifacts and a small petroglyph panel. The historic component consists of a light trash scatter, historic graffiti, and a dry-laid masonry sheep enclosure.

Prehistoric cultural material consists of a late stage biface fragment, seven flakes, one piece of angular debris, and one quartzite mano fragment. Tool stone is dominated by chert/chalcedony with one piece of igneous rock. Debitage consists of tertiary and secondary flakes which suggests that latter stages of tool manufacture were occurring on site. One burned rock feature (Fea. B) as well as scattered fire-cracked rock indicate the presence of thermal features. This coupled with a mano fragment may indicate domestic activities such as food preparation were also occurring on site. At the northwestern edge of the site is a small petroglyph panel (Fea. A). It consists of a X motif, a anthropomorphic stick figure, a vertical line, and a horizontal line with a dot. The rock art appears to be Numic (probably Ute) based on the type of elements (Cole 1990). Finally, the rockshelter (Fea. E) which is fairly large but wet due to the seep spring may not have been inhabited although some potential midden deposits could occur around the opening.

The historic component consists of a light scatter of historic trash associated with historic inscriptions, and a dry-laid masonry enclosure. The inscriptions (Fea. D) occur on a large sandstone boulder at the southeastern end of the site and consist of the following names, initials, and dates: C. Hoel June. 17th 1912, J.P.T b/ ' 17 ", MM, T, A, KA and TOM LOPEZ 2.17 1963. Historic artifacts include amethyst bottle glass, aqua bottle glass, clear bottle glass, four external friction Prince Albert tobacco tins, 11 open top cans, five hole-in-top milk cans, a lard pail, a meat can, galvanized sheet metal, yellow glazed earthenware sherds, porcelain sherds, and one shoe sole. Diagnostic materials consist of amethyst glass (pre-1920), aqua glass (pre-1930), a type 9 evaporated milk can (ca. 1915-1930), an AHK bottle trademark (post-1944) and an ABGM Co. bottle trademark (1886-1928). The masonry wall or enclosure (Fea. C) consists of stacked tabular sandstone about three to four tier high and incorporating in-place sandstone boulders to make an area about 3 x 3 m square. This "structure" is interpreted as a lambing pen.

Smithsonian Site No.: 42Un4827
Temporary Site No.: 05-196-02
Legal Description: NW/NW/NW of Sec. 2, T11S, R22E
NRHP Eligibility: Not Eligible

Description: This is a small historic trash scatter located on a bench east of Bitter Creek. Cultural materials include eight hole-in-top cans, 10 open top cans, and a galvanized metal wash basin. No features were observed. Diagnostic materials are sparse and consist of seven type 9 hole-in-top evaporated milk cans which are thought to date between 1915-1930. Therefore, it is likely this site dates to the first third of the 20th century, probably related to livestock tending or simply trash discarded along the Bitter Creek Canyon road.

Smithsonian Site No.: 42Un4828
Temporary Site No.: 05-196-03
Legal Description: NE/NW/NW of Sec. 2, T11S, R22E
NRHP Eligibility: Not Eligible

Description: This is a trash scatter situated on the canyon floor east of Bitter Creek. Cultural materials are dominated by various tin cans although a small quantity of clear glass possibly from a drinking glass was also observed. Approximately 50 tin cans are scattered across the site with perhaps 25 to 35 in a 5 x 3 m concentration near the center. These include two hole-in-cap cans (pre-1940), seven open top cans and can tops marked "Sanitary" (1904-1908), five marked with a "C" (pre-1934?), one Towle's Log Cabin syrup can (1909-1955), and a short coffee can. In addition, 10 type 9 hole-in-top milk cans (1915-1930) and one type 16 milk can (1931-1948) also occur on site. The site appears to represent two discard episodes the earliest between 1904 and 1908 and several later ones dating from 1915 to 1948. Based on the type of artifacts, the locality most likely functioned as short-term range related camps.

Smithsonian Site No.: 42Un4829
Temporary Site No.: 05-196-04
Legal Description: NE/SW/SW of Sec. 2, T11S, R22E
NRHP Eligibility: Not Eligible

Description: This is a small sparse trash scatter situated on the crest and slope of a ridge along the east side of Bitter Creek. Cultural materials consist of 13 tin cans and one broken beer bottle. Tin cans include five open top food cans, four hole-in-top evaporated milk cans, one external friction, hinged lid pocket tobacco tin, a paint can, one open top juice can, and a lard can lid. Diagnostic artifacts consists of the beer bottle marked with a WF & S trademark (Wm. Franzen & Son 1900-1921) and type 9 (1915-1930) and type 19 (1930-1975) milk cans. The site probably functioned as a short-term camp related to livestock tending. Dated materials indicate the site was probably occupied in the early-middle 20th century between 1915 and 1935.

NATIONAL 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 four new archaeological sites. Only the prehistoric and historic component site (42Un4826) is recommended as eligible to the NRHP under Criteria D. The prehistoric component could address such research topics as chronology, subsistence strategies, site chronology, stone tool technology, and site function. The historic component exhibits a feature and a variety of cultural materials. There is also potential for subsurface cultural remains. Historic trash scatters 42Un4827, 42Un4828, and 42Un4829 are recommended as not eligible because they are unlikely to contribute to the history of the area. These sites lack artifact density, diversity, features, and fail to possess subsurface cultural material.

CONCLUSIONS AND RECOMMENDATIONS

The cultural resource inventory of Enduring Resources' five proposed well locations with associated pipeline/access corridors resulted in the documentation of four new archaeological sites (42Un4826, 42Un4827, 42Un4828, and 42Un4829). Site 42Un4826 is considered eligible to the NRHP and should be avoided by the undertaking. To facilitate avoidance during the construction activities, it is recommended that a temporary fence be erected at the sites' boundary. In addition, the construction of Archy Bench 11-22-11-2 well location should be monitored by a qualified archaeologist. Based on these avoidance procedures, a recommendation of "no historic properties affected" is proposed for the undertaking pursuant to Section 106, CFR 800.

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APPENDIX A:
INTERMOUNTAIN ANTIQUITY COMPUTER SYSTEM (IMACS)
SITE INVENTORY FORMS

On File At:

Bureau of Land Management
Vernal Field Office
and
Division of State History
Salt Lake City, UT

Paleontological Reconnaissance Report

Enduring Resources Proposed Well Pads, Access Roads and Pipeline Corridors for Archy Bench #11-22-11-2, #11-22-12-2, #11-22-13-2, #11-22-14-2, #11-22-24-2 (Sec. 2, T 11 S, R 22 E); Red Wash #9-24-23-30, #9-24-34-30 (Sec. 30 T 9 S, R 24 E); Red Wash ³⁴ ~~#9-24-24-23~~ *Bonanza* (Sec. 23, T 9 S, R 24 E); Southam Canyon #9-24-41-34 (Sec. 34, T 9 S, R 24 E); Southam Canyon #9-24-23-36, #9-24-24-36 (Sec. 36, T 9 S, R 24 E); Southam Canyon #10-25-11-6 (Sec. 6, T 10 S, R 25 E)

Archy Bench, Bonanza, Red Wash SE,
and Southam Canyon Topographic
Quadrangles Uintah County, Utah

July 19, 2005

Prepared by Andrew W. Stanton
Paleontologist for
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INTRODUCTION

At the request of Phyllis Sobotik, of Enduring Resources, LLC, and authorized by John Mayers of the BLM Vernal Field Office and James Kirkland of the Office of the State Paleontologist a paleontological reconnaissance survey of Enduring's proposed Well Pads, Access Roads and Pipeline Corridors for Archy Bench #11-22-11-2, #11-22-12-2, #11-22-13-2, #11-22-14-2, #11-22-24-2 (Sec. 2, T 11 S, R 22 E); Red Wash #9-24-23-30, #9-24-34-30 (Sec. 30, T 9 S, R 24 E); Red Wash #9-24-24-23 (Sec. 23, T 9 S, R 24 E); Southam Canyon #9-24-41-34 (Sec. 34, T 9 S, R 24 E); Southam Canyon #9-24-23-36, #9-24-24-36 (Sec. 36, T 9 S, R 24 E); Southam Canyon #10-25-11-6 (Sec. 6, T 10 S, R 25 E) was conducted by Stephen Sandau June 8-11, 2005. The survey was conducted under the Utah BLM Paleontological Resources Use Permit #UT-S-05-33 and the Utah Paleontological Investigations Permit #04-345. This survey to collect any paleontological materials discovered during the construction processes in danger of damage or destruction was done to meet requirements of the National Environmental Policy Act of 1969, and other State and Federal laws and regulations that protect paleontological resources.

FEDERAL AND STATE REQUIREMENTS

As mandated by the US Department of the Interior Bureau of Land Management, paleontologically sensitive geologic formations in BLM lands that are considered for exchange or may be impacted due to ground disturbance require paleontological evaluation. This requirement complies with:

- 1) The National Environmental Policy Act of 1969 (NEPA) (42 U.S.C. 4321 et. Seq., P.L. 91-190);
- 2) The Federal Land Policy and Management Act (FLPMA) of 1976 (90 Stat. 2743, 43 U.S.C. § 1701-1785, et. Seq., P.L. 94-579).
- 3) The National Historic preservation Act. 16 U.S.C. § 470-1, P.L. 102-575 in conjunction with 42 U.S.C. § 5320; and
- 4) The Utah Geological Survey. S. C. A.: 63-73-1. (1-21) and U.C.A.: 53B-17-603

Under policy dictated by the BLM Manual and Handbook H-8270-1 (July, 1998) formations are ranked according to their paleontological potential:

- *Condition 1* is applied to those areas known to contain fossil localities, and special consideration of the known resources is in need of evaluation.
- *Condition 2* is applied to areas that have exposures of geologic rock units known to have produced fossils elsewhere.
- *Condition 3* is applied to areas unlikely to produce fossils based on surficial geology.

Although these guidelines apply mostly to vertebrate fossils on lands under the direction of the BLM, they are equally designed to help protect rare plant and invertebrate fossils and will be used here with reference to State managed lands. It should be noted that many fossils, though common and unimpressive in and of themselves, can be important paleo-environmental, depositional, and chronostratigraphic indicators.

LOCATION

This project covers wells on land managed by the State of Utah Trust Lands Administration (SITLA) and on BLM land. The well pads and proposed pipeline corridor for Enduring's Archy Bench #11-22-11-2, #11-22-12-2, #11-22-13-2, #11-22-14-2, #11-22-24-2 (Sec. 2, T 11 S, R 22 E) are four to five miles south by southwest of the White River, and some fifteen miles south west of Bonanza, UT. Red Wash #9-24-23-30, #9-24-34-30 (Sec. 30, T 9 S, R 24 E) lies approximately 3 miles north of the White River and four to five miles west of Bonanza, UT; Red Wash #9-24-24-23 (Sec. 23, T 9 S, R 24 E) is on the southwestern outskirts of Bonanza, UT; Southam Canyon #9-24-41-34 (Sec. 34, T 9 S, R 24 E) is about one and one half miles south by southwest of Bonanza; Southam Canyon #9-24-23-36, #9-24-24-36 (Sec. 36, T 9 S, R 24 E) and Southam Canyon #10-25-11-6 (Sec. 6, T 10 S, R 25 E) are approximately three miles south of Bonanza, UT and one to one and a half miles north of the White River. The project areas can be found on the Archy Bench, Bonanza, Red Wash SE, and Southam Canyon Topographic Quadrangles, Uintah County, Utah

PREVIOUS WORK

The basins of western North America have long produced some of the richest fossil collections in the world. Early Cenozoic sediments are especially well represented throughout the western interior. Paleontologists started field work in Utah's Uinta Basin as early as 1870 (Betts, 1871; Marsh, 1871, 1875a, 1875b). The Uinta Basin is located in the northeastern corner of Utah and covers approximately 31,000 sq. km (12,000 sq. miles) and ranges in elevation from 1,465 to 2,130 m (4,800 to 7,000 ft) (Marsell, 1964; Hamblin et al., 1987). Middle to late Eocene time marked a period of dramatic change in the climate, flora, (Stucky, 1992), and fauna (Black and Dawson, 1966) of North America.

GEOLOGICAL AND PALEONTOLOGICAL OVERVIEW

Early in the geologic history of Utah, some 1,000 to 600 Ma, an east-west trending basin developed creating accommodation for 25,000 feet of siliclastics. Uplift of that filled-basin during the early Cenozoic formed the Uinta Mountains (Rasmussen et al., 1999). With the rise of the Uinta Mountains the asymmetrical synclinal Uinta Basin is thought to have formed through the effects of down warping in connection with the uplift. Throughout the Paleozoic and Mesozoic, deposition fluctuated between marine and non-marine environments laying down a thick succession of sediments in the area now occupied by the Uinta Basin. Portions of these beds crop out on the margins of the basin due to tectonic events occurring during the late Mesozoic.

Early Tertiary Uinta Basin sediments were deposited in alternating lacustrine and fluvial environments. Large shallow lakes periodically covered most of the basin and surrounding areas during early to mid Eocene time (Abbott, 1957). These lacustrine sediments show up in the western part of the basin, dipping 2-3 degrees to the northeast and are lost in the subsurface on the east side. The increase of cross-bedded coarse-grained sandstone and conglomerates

preserved in paleo-channels indicates a transition to a fluvial environment toward the end of the epoch.

Four Eocene formations are recognized in the Uinta Basin: the Wasatch, Green River, Uinta, and Duchesne River, respectively (Wood, 1941). The Uinta Formation is subdivided into two lithostratigraphic units namely: the Wagonhound Member (Wood, 1934), formerly known as Uinta A and B (Osborn, 1895, 1929), and the Myton Member previously regarded as the Uinta C.

Within the Uinta Basin in northeast Utah, the Uinta Formation in the western part of the basin is composed primarily of lacustrine sediments inter-fingering with over-bank deposits of silt and mudstone and westward flowing channel sands, fluvial clays, and muds in the east (Bryant et al, 1990; Ryder et al, 1976). Stratigraphic work done by early geologists and paleontologists within the Uinta Formation focused on the definition of rock units and attempted to define a distinction between early and late Uintan faunas (Riggs, 1912; Peterson and Kay, 1931) biostratigraphy (Flynn, 1986; Prothero, 1996). Well known for its fossiliferous nature and distinctive mammalian fauna of mid-Eocene Age, the Uinta Formation is the type formation for the Uintan Land Mammal Age (Wood et al, 1941).

The Duchesne River Formation of the Uinta Basin in northeastern Utah is composed of a succession of fluvial and flood plain deposits composed of mud, silt, and sandstone. The source area for these late Eocene deposits is from the Uinta Mountains indicated by paleocurrent data (Anderson and Picard, 1972). In Peterson's (1931c) paper, the name "Duchesne Formation" was applied to the formation, and it was later changed to the "Duchesne River Formation" by Kay (1934). The formation is divided up into four members: the Brennan Basin, Dry Gulch Creek, Lapoint, and Starr Flat (Anderson and Picard, 1972). Debates concerning the Duchesne River Formation, as to whether its age was late Eocene or early Oligocene, have surfaced throughout the literature of the last century (Wood et al., 1941; Scott 1945). Recent paleo-magnetostratigraphic work (Prothero, 1996) shows that the Duchesne River Formation is late Eocene in time.

FIELD METHODS

In order to determine if the proposed pipeline corridors, access roads and well pads from this project contained any paleontological resources, a brief reconnaissance survey was performed. An on-site observation of the proposed areas undergoing surficial disturbance is necessary, because judgments made from topographic maps alone are often unreliable. Areas of low relief have potential to be erosional surfaces with the possibility of bearing fossil materials rather than surfaces covered by unconsolidated sediment or soils.

When found within the proposed construction areas, outcrops and erosional surfaces were checked to determine if fossils were present and to assess needs. Careful effort is made during surveys to identify and evaluate significant fossil materials or fossil horizons when they are found. Microvertebrates, although rare, are occasionally found in anthills or upon erosional surfaces, and are of particular importance.

PROJECT AREA

The project site is situated in the Wagonhound Member (Uinta A & B) of the Uinta Formation.

Archy Bench #11-22-11-2

The proposed well pad lies adjacent to an existing access road in the NW/NW quarter-quarter section of Sec. 2, T 11 S, R 22 E (Figure 1). A proposed pipeline follows the path of this road and ties into an existing pipeline in the SW/SW quarter-quarter section of Sec. 2, T 11 S, R 22 E. The proposed pad and pipeline rest on sage brush covered soil and colluvium. The surrounding slopes and ridges to the east consist of interbedded green, purple and tan colored silt and sandstone. Ledges of tan sandstone and silt lie to the west of the proposed well pad. No fossils were found at this site.

Archy Bench #11-22-12-2

The proposed well pad lies adjacent to an existing access road in the SW/NW quarter-quarter section of Sec. 2, T 11 S, R 22 E (Figure 1). The proposed well pad rests on soil and colluvium covered ground. Cliffs of tan sandstone lie to the east of the pad area. No fossils were found in the proposed construction site.

Archy Bench #11-22-13-2

The proposed well pad lies adjacent to an existing access road in the NW/SW quarter-quarter section of Sec. 2, T 11 S, R 22 E (Figure 1). The ground is covered with sandy soil and colluvium, and is vegetated with brush. No fossils were found at this locality.

Archy Bench #11-22-14-2

The proposed well pad lies adjacent to an existing access road in the SW/SW quarter-quarter section of Sec. 2, T 11 S, R 22 E (Figure 1). The area consists of soil covered ground and is vegetated with brush. No fossils were found in the proposed construction site.

Archy Bench #11-22-24-2

The proposed well pad is in the SE/SW quarter-quarter section of Sec. 2, T 11 S, R 22 E (Figure 1). The proposed access and pipeline tie in at the SW/SW quarter-quarter section of Sec. 2, T 11 S, R 22 E. The area consists of soil covered ground, and an outcrop of tan sandstone and siltstone lies off the eastern edge of the pad. No fossils were found within the proposed construction site.

Red Wash #9-24-23-30

The proposed access road and pipeline begin in the NW/SE quarter-quarter section and end in the NE/SW quarter-quarter section of Sec. 30, T 11 S, R 22 E (Figure 2). The area consists of soil covered ground vegetated with grass and low brush. No fossils were found in the proposed construction area.

Red Wash #9-24-34-30

The proposed short access road, pipeline and well pad lie in the SW/SE quarter-quarter section of Sec. 30, T 9 S, R 24 E (Figure 2). The ground is soil covered and vegetated with brush and grass. No fossils were found at this site.

Bomanza 34
Red Wash #9-24-24-23

The proposed well pad and short access are located in the SW/SE quarter-quarter section of Sec. 23, T 9 S, R 24 E, and the proposed long pipeline begins in the NW/NE quarter-quarter section of Sec. 27, T 9 S, R 24 E, following the path of an existing road, and then follows the path of the proposed access road (Figure 3). The area consists of rolling hills of soil covered ground vegetated with sage and grass. No fossils were found at this site.

Southam Canyon #9-24-41-34

The proposed well pad lies in the NE/NE quarter-quarter section of Sec. 34, T 9 S, R 24 E. The proposed access road begins in the NW/NE quarter-quarter section of Sec. 34, T 9 S, R 24 E, and the proposed long pipeline begins in the NW/NE quarter-quarter section of Sec. 27, T 9 S, R 24 E, follows the path of an existing road, the follows the path of the proposed access road (Figure 3). The ground is covered with soil and is vegetated with sage. Along the proposed access road are some exposures of tan sandstone with brown concretions, along with green silt and mudstone. No fossils were found in the proposed construction area.

Southam Canyon #9-24-23-36

The proposed well pad, short access road and pipeline lie in the NE/NW quarter-quarter section of Sec. 36, T 9 S, R 24 E. The proposed access road and pipeline tie into the proposed access and pipeline for Southam Canon #9-24-24-36 (Figure 4). The area consists of soil covered ground with colluvium and some exposures of tan sandstone. No fossils were found in the proposed construction site.

Southam Canyon #9-24-24-36

The long proposed access road and pipeline begin in the SE/NE quarter-quarter section of Sec. 36, T 9 S, R 24 E, head southwest and enter the proposed well pad from the northwest in the SE/SW quarter-quarter section of Sec. 36, T 9 S, R 24 E (Figure 4). The area around the proposed access road has outcrops of tan sandstone containing petrified wood. No other fossils were found in the proposed construction area.

Southam Canyon #10-25-11-6

The proposed well pad and access road lie in the NW/NW quarter-quarter section of Sec. 6, T 10 S, R 25 E. The 2,900 ft. access enters the well pad from the south (Figure 4). To the northeast of the proposed well pad are outcrops of tan sandstone, and along the western flank of the southern extremity of access road are tan silt and shale in which was found fossils plant material and fish scales.

SURVEY RESULTS

WELL	GEOLOGY	PALEONTOLOGY
Archy Bench #11-22-11-2 (Sec. 2, T 11 S, R 22 E)	The pad and pipeline rest on sage brush covered soil and colluvium. The surrounding slopes and ridges to the east consist of interbedded green, purple and tan colored silt and sandstone. Ledges of tan sandstone and silt lie to the west of the proposed well pad.	No fossils were found. Condition 3.
Archy Bench #11-22-12-2 (Sec. 2, T 11 S, R 22 E)	The proposed well pad rests on soil and colluvium covered ground. Cliffs of tan sandstone lie to the east of the pad area.	No fossils were found. Condition 3.
Archy Bench #11-22-13-2 (Sec. 2, T 11 S, R 22 E)	The ground is covered with sandy soil and colluvium.	No fossils were found. Condition 3.
Archy Bench #11-22-14-2 (Sec. 2, T 11 S, R 22 E)	The area consists of soil covered ground.	No fossils were found. Condition 3.
Archy Bench #11-22-24-2 (Sec. 2, T 11 S, R 22 E)	The area consists of soil covered ground, and an outcrop of tan sandstone and siltstone lies off the eastern edge of the pad.	No fossils were found. Condition 3.
Red Wash #9- 24-23-30 (Sec. 30, T 9 S, R 24 E)	The area consists of soil covered ground.	No fossils were found. Condition 3.
Red Wash #9- 24-34-30 (Sec. 30, T 9 S, R 24 E)	The ground is soil covered.	No fossils were found. Condition 3.
Red Wash #9-24-24-23 (Sec. 23, T 9 S, R 24 E)	The area consists of rolling hills of soil covered ground.	No fossils were found. Condition 3.
Southam Canyon #9-24- 41-34 (Sec. 34, T 9 S, R 24 E)	The ground is covered with soil. Along the proposed access road are some exposures of tan sandstone with brown concretions, along with green silt and mudstone.	No fossils were found. Condition 3.

Southam Canyon #9-24-23-36 (Sec. 36, T 9 S, R 24 E)	The area consists of soil covered ground with colluvium and some exposures of tan sandstone.	No fossils were found. Condition 3.
Southam Canyon #9-24-24-36 (Sec. 36, T 9 S, R 24 E)	The area around the proposed access road has outcrops of tan sandstone containing petrified wood.	Plant fossils were found. Condition 2.
Southam Canyon #10-25-11-6 (Sec. 6, T 10 S, R 25 E)	To the northeast of the proposed well pad are outcrops of tan sandstone, and along the western flank of the southern extremity of access road are tan silt and shale in which was found fossils plant material and fish scales.	Plant impressions and fish scales were found. Condition 2.

RECOMMENDATIONS

The reconnaissance survey executed for Enduring's proposed Well Pads, Access Roads and Pipeline Corridors for Archy Bench #11-22-11-2, #11-22-12-2, #11-22-13-2, #11-22-14-2, #11-22-24-2 (Sec. 2, T 11 S, R 22 E); Red Wash #9-24-23-30, #9-24-34-30 (Sec. 30, T 9 S, R 24 E); Red Wash #9-24-24-23 (Sec. 23, T 9 S, R 24 E); Southam Canyon #9-24-41-34 (Sec. 34, T 9 S, R 24 E); Southam Canyon #9-24-23-36, #9-24-24-36 (Sec. 36, T 9 S, R 24 E); Southam Canyon #10-25-11-6 (Sec. 6, T 10 S, R 25 E) was brief.

The localities for Southam Canyon #9-24-24-36 (Sec. 36, T 9 S, R 24 E) and #10-25-11-6 (Sec. 6, T 10 S, R 25 E) both yielded plant fossils, the latter also contained fish scales. No monitoring of these sites is recommended unless more substantial fossil material is found.

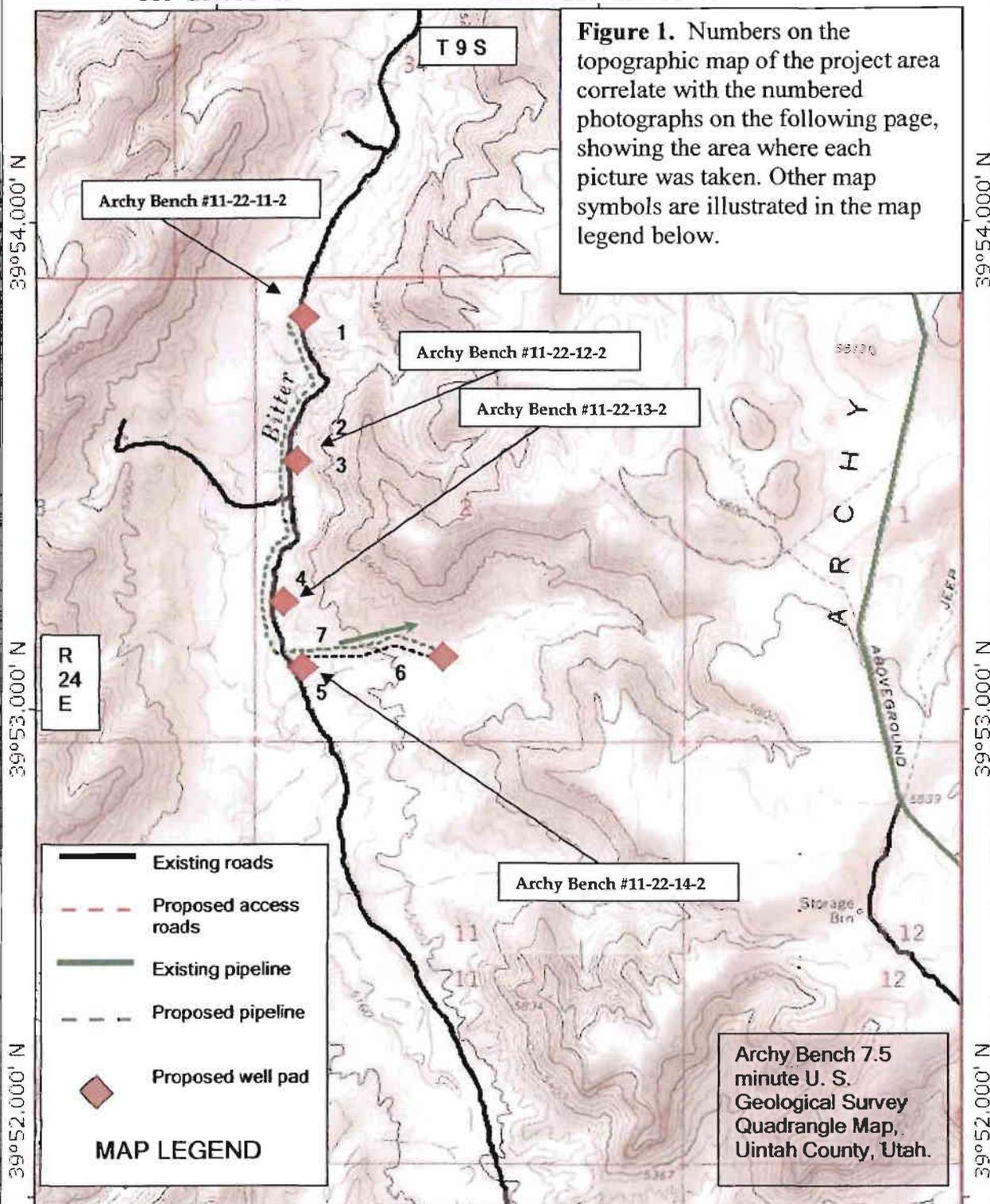
The staked areas at the remainder of the sites, namely Archy Bench #11-22-11-2, #11-22-12-2, #11-22-13-2, #11-22-14-2, #11-22-24-2 (Sec. 2, T 11 S, R 22 E); Red Wash #9-24-23-30, #9-24-34-30 (Sec. 30, T 9 S, R 24 E); Red Wash #9-24-24-23 (Sec. 23, T 9 S, R 24 E); Southam Canyon #9-24-41-34 (Sec. 34, T 9 S, R 24 E); Southam Canyon #9-24-23-36 (Sec. 36, T 9 S, R 24 E) showed no signs of fossil materials inside of the proposed construction sites. Therefore, no credible reason to limit construction within the staked areas was found.

However, if vertebrate fossil(s) are found during construction of any of the other locations covered in this report, recommendations are that a paleontologist is immediately notified in order to collect fossil materials in danger of being destroyed. Any vertebrate fossils found should be carefully moved outside of the construction areas to be checked by a permitted paleontologist.

TOPO! map printed on 07/19/05 from "05-197.tpo"

109°26.000' W

WGS84 109°25.000' W



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

Figure 1 continued...



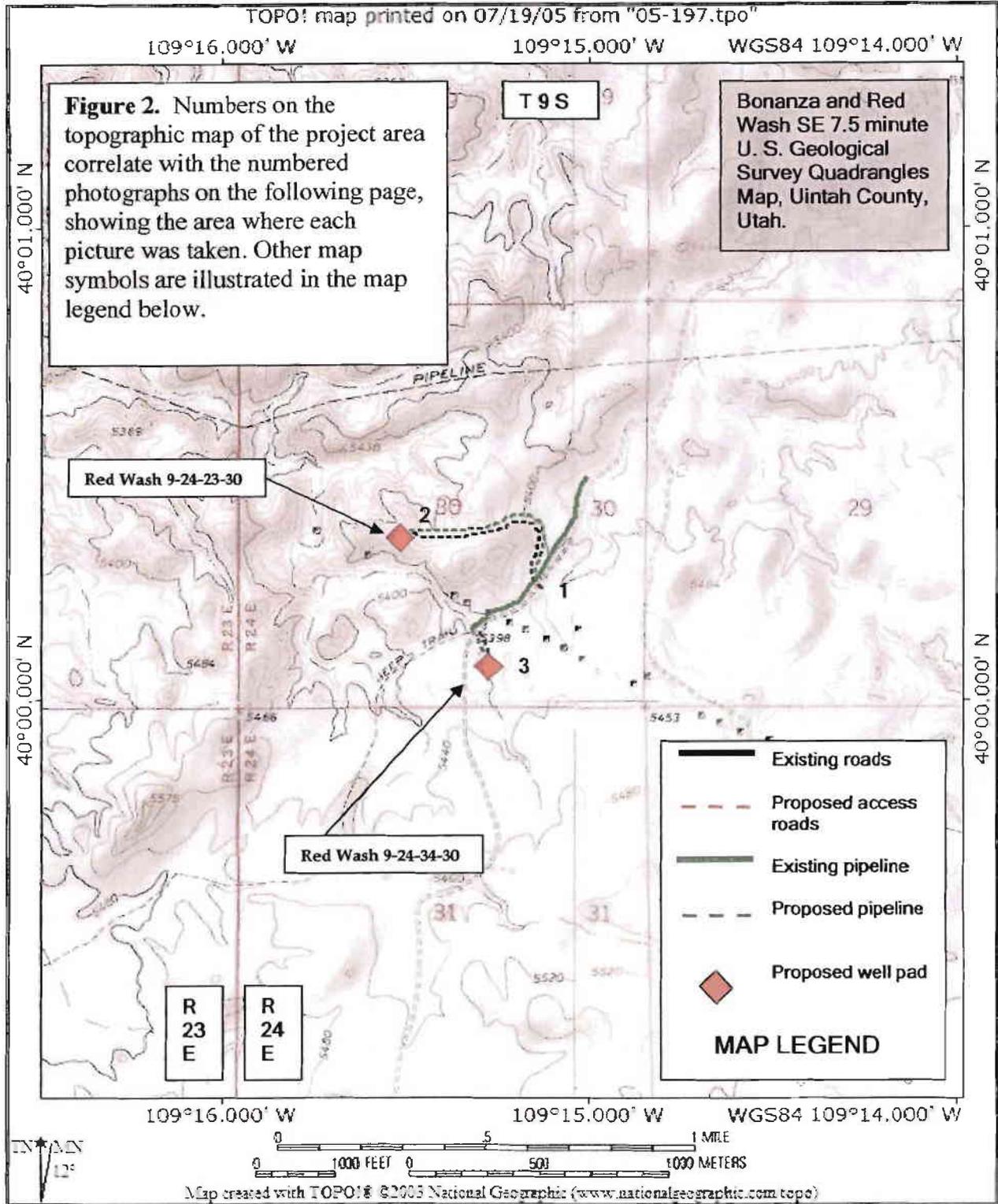


Figure 2 continued...



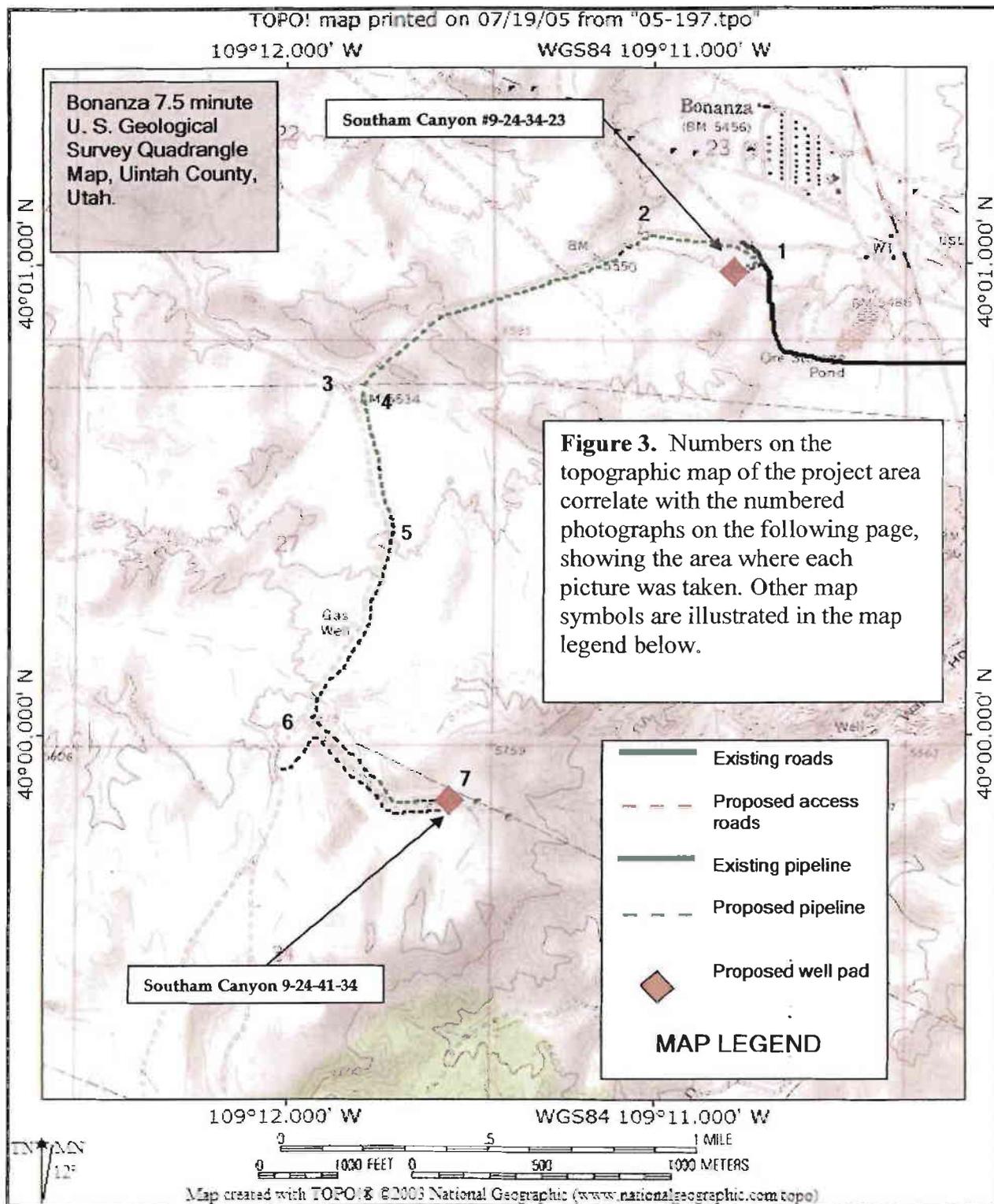


Figure 3 continued...



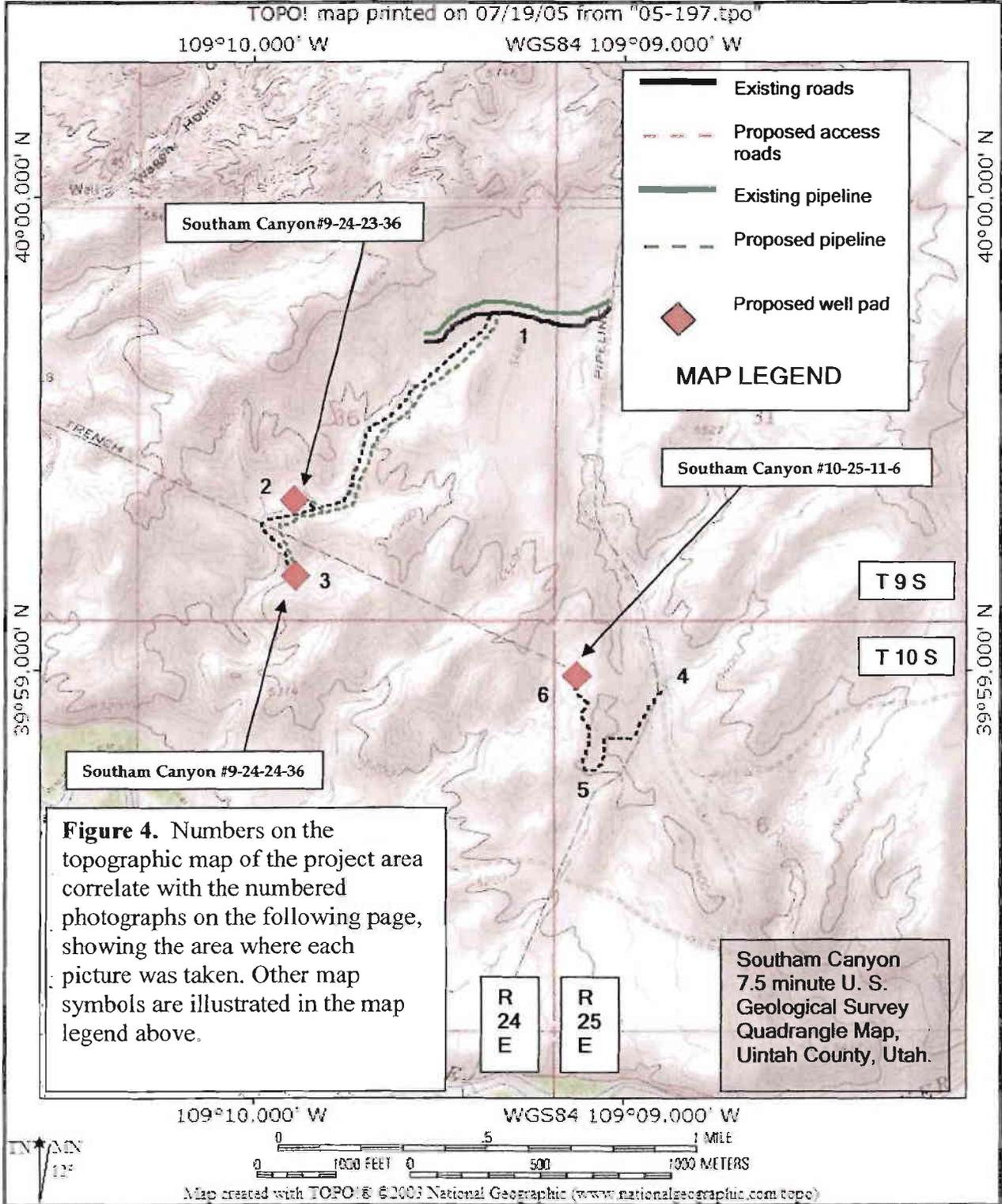
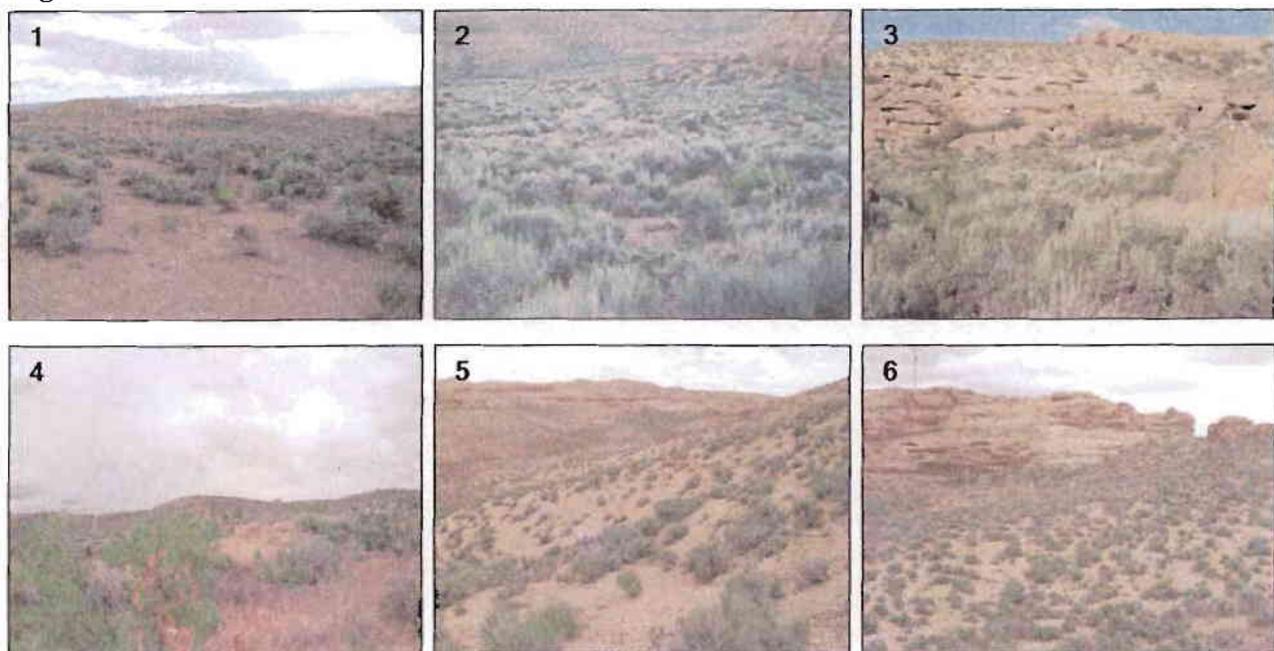


Figure 4 *continued...*



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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-47075
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: 2367' FNL - 575' FWL		8. WELL NAME and NUMBER: Archy Bench 11-22-22-2
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 2 11S 22E S		9. API NUMBER: 4304736786
COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT: Bitter Creek
STATE: UTAH		

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>5/23/2006</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Request for APD Extension</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

Enduring Resources, LLC respectfully request an extension to the expiration date of this Application for Permit to Drill

FROM: 7-11-2006
TO: 7-11-2007

**Approved by the
Utah Division of
Oil, Gas and Mining**
Date: 05-30-06
By: [Signature]

2-19-06
LHD

NAME (PLEASE PRINT) <u>Alvin R. (Al) Arlian</u>	TITLE <u>Landman - Regulatory Specialist</u>
SIGNATURE <u>[Signature]</u>	DATE <u>5/24/2006</u>

(This space for State use only)

**RECEIVED
MAY 26 2006**

(See Instructions on Reverse Side)

DIV. OF OIL, GAS & MINING

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

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

API: 4304736786
Well Name: Archy Bench 11-22-22-2
Location: 2367' FNL - 575' FWL, SENW, Sec 2, T11S-R22E
Company Permit Issued to: Enduring Resources, LLC
Date Original Permit Issued: 7/11/2005

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

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

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

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

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

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

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

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

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



Signature

5/24/2006

Date

Title: Landman - Regulatory Specialist

Representing: Enduring Resources, LLC

RECEIVED
MAY 26 2006
DIV. OF OIL, GAS & MINING

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

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-47075

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:
Archy Bench 11-22-22-2

2. NAME OF OPERATOR:
Enduring Resources, LLC

9. API NUMBER:
4304736786

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

PHONE NUMBER:
(303) 350-5719

10. FIELD AND POOL, OR WILDCAT:
Undesignated

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2367' FNL - 575' FWL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 2 11S 22E S

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>9/27/2007</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Well Status Report</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.

This well has been drilled to total depth and production casing cemented and set.

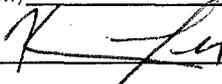
A Completion Report is being filed showing cement and production casing data.

Tank battery, pipeline hook-up, and production equipment are currently being constructed and/or set in anticipation of completion of the well when a gas market becomes available.

The final well completion will be completed as soon as a gas market becomes available.

NAME (PLEASE PRINT) Kevin Lee

TITLE Engineering Tech

SIGNATURE 

DATE 9/27/2007

(This space for State use only)

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OCT 15 2007



Enduring Resources, LLC

475 17th St. - Suite 1500
 Denver, CO 80202
 (303) 573-1222

Drilling Chronological
Regulatory

Well Name: ARCHY BENCH 11-22-22-02									
Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT				
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern				
Project AFE:	DV00016	AFEs Associated:	/ / /						
Daily Summary									
Activity Date :	3/15/2007	Days From Spud :	0	Current Depth :	40 Ft	24 Hr. Footage Made :	40 Ft		
Rig Company :				Rig Name:					
Formation :				Weather:					
Operations									
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run			
6:00	5.00	24	SDFN	0	0	NIH			
11:00	3.00	02	MI PETE MARTIN AND DRILL 40 FT OF 20" CONDUCTOR HOLE. RUN 40 FT OF 14" CONDUCTOR AND CEMENT WITH 3 YARDS OF READYMIX	0	40	NIH			
14:00	16.00	24	SDFN	40	40	NIH			
Total:	24.00								
Daily Summary									
Activity Date :	3/20/2007	Days From Spud :	0	Current Depth :	500 Ft	24 Hr. Footage Made :	460 Ft		
Rig Company :				Rig Name:					
Formation :				Weather:					
Operations									
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run			
6:00	11.00	02	MI BILL JRS and drill 500 ft of 12 1/4" surface hole	40	500	NIH			
Total:	11.00								
Daily Summary									
Activity Date :	4/8/2007	Days From Spud :	0	Current Depth :	500 Ft	24 Hr. Footage Made :	0 Ft		
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79				
Formation :				Weather:					
Operations									
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run			
6:00	2.00	01	GET RIG READY TO SKID	500	500	NIH			
8:00	6.00	01	R.W. JONES SKID RIG 20' TO NEW LOC.	500	500	NIH			
14:00	4.00	01	RIG UP	500	500	NIH			
18:00	4.00	01	RIG UP	500	500	NIH			
22:00	4.50	01	INSTALL RISER AND ROTATING HEAD	500	500	NIH			
2:30	3.50	01	RIG UP	500	500	NIH			
Total:	24.00								

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OCT 15 2007

10/12/2007

Div. of OIL, GAS & MINING

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/9/2007	Days From Spud :	0	Current Depth :	605 Ft	24 Hr. Footage Made :	105 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :	Weather:						

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	6.50	01	RIG UP	500	500	NIH
12:30	0.50	21	HELD SAFETY MEETING AND SPUD MEETING W/ CREWS	500	500	NIH
13:00	5.00	06	P/U 12.25 BIT AND DIR/ B.H.A. AND TIH	500	500	NIH
18:00	1.50	06	RIH W/ HEAVYWEIGHT, TAG SHOE @ 515'	500	500	NIH
19:30	1.00	07	SERVICE RIG	500	500	NIH
20:30	0.50	21	SPUD MEETING AND SAFETY MEETING W/ NIGHT CREW	500	500	1
21:00	0.50	21	INSTALL ROTATING RUBBER	500	500	1
21:30	3.50	02	DRILL CEMENT AND FLOAT	500	560	1
1:00	2.50	02	DRILL F/ 560' T/ 591'	560	591	1
3:30	2.50	20	DIRECTIONAL WORK AND SURVEY M.D. @ 510' = INC= 1.15 W/ AZM= 210.18 AND SLIDE F/ 591' TO 605'	591	605	1

Total:	24.00
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Daily Summary

Activity Date :	4/10/2007	Days From Spud :	2	Current Depth :	1160 Ft	24 Hr. Footage Made :	555 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :	Weather:						

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	7.00	02	DRILL AND SLIDE F/ 605' T/ 746'	605	746	1
13:00	0.50	07	SERVICE RIG	746	746	1
13:30	3.50	02	DRILL AND SLIDE F/ 746' T/ 898'	746	898	1
17:00	1.00	10	TOTAL SURVEYS	898	898	1
18:00	12.00	02	DRILL AND SLIDE F/ 898' T/ 1160'	898	1160	1

Total:	24.00
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Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
700	10:30	0.00	0.00	0	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	8.30	0.00	0.10	0.50	900	400	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0	65												

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OCT 15 2007

DIV. OF OIL, GAS & MINING
10/12/2007

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/11/2007	Days From Spud :	3	Current Depth :	1736 Ft	24 Hr. Footage Made :	576 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :				Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	7.50	02	DRILL AND SLIDE F/ 1160' T/ 1331'	1160	1331	1
13:30	0.50	07	SERVICE RIG	1331	1331	1
14:00	4.00	02	DRILL AND SLIDE F/ 1331 T/ 1424	1331	1424	1
18:00	12.00	02	DRILL AND SLIDE F/ 1424 T/ 1736	1424	1736	1
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
1300	11:00	0.00	0.00	0	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	8.40	0.00	0.05	0.45	800	360	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0	75												

Daily Summary

Activity Date :	4/12/2007	Days From Spud :	4	Current Depth :	2035 Ft	24 Hr. Footage Made :	299 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Green River			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	3.50	20	Drill and Slide F/1738' to 1798' (60')	1736	1798	1
9:30	0.50	07	Lubricate	1798	1798	1
10:00	10.50	20	Drill and Slide F/1798 to 2035' (237')	1798	2035	1
20:30	1.50	05	Circ (2) high vis sweeps to clean hole	2035	2035	1
22:00	1.00	06	Short Trip to 500' - No tight spots - noted 2" flow - In 15 mins we gained 9 bbls with no slowdown	2035	2035	1
23:00	1.50	06	Finish ST to bottom with no tight spot or fill	2035	2035	1
0:30	4.50	05	Checked for flow - Still same rate flow - Start mudding up to increase mwt from 8.4 to 8.6 to stop flow	2035	2035	1
5:00	0.25	06	Start TOOH 6 stands to run casing - still flowing same - received call from Charly Parker - Need to go back to bottom to drill to a point where we are sure we are below the water flow in good solid formation - Will monitor flow and drill rate to establish casing set point with good integrity.	2035	2035	1
5:15	0.75	06	Run back to bottom - Prepare to drill	2035	2035	1
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
1850	10:00	8.40	8.40	29	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	10.10	0.00	0.10	0.30	600	240	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0	75												

RECEIVED

OCT 15 2007

DIV. OF OIL, GAS & MINING

10/12/2007

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/13/2007	Days From Spud :	5	Current Depth :	2220 Ft	24 Hr. Footage Made :	185 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :	Green River		Weather:				

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	0.50	06	FINISHED TRIPPING IN HOLE - TAGGED BOTTOM WITH NO FILL.	2035	2035	1
6:30	8.00	20	DRILL ACTUAL F/2035 T/2220 - PUMPED SWEEP	2035	2220	1
14:30	2.00	06	TOOH TO TOOLS	2220	2220	1
16:30	1.00	01	RIG UP LAYDOWN TRUCK AND HELD SAFETY MEETING	2220	2220	1
17:30	3.00	21	LAYDOWN DIRECTIONAL TOOLS WITH WESTATES	2220	2220	1
20:30	7.00	12	RAN 50 JOINTS OF 9 5/8", J-55, 36# , STC AS FOLLOWS: WELDED] FLOAT SHOE TO 1ST JOINT (SEE NOTES) Ran 49 joints into the hole and hit bridge @ 2150' - Washed down to TD and tagged bottom @ 2220' with joint #51, - Layed down joint #51, made up 9 5/8" head and nipple to joint #50 - made up landing joint and set in 14" support ring with WHI - PU one foot to circ	2220	2220	1
3:30	2.50	05	Circ bottoms up - Wait on water (see notes)	2220	2220	NIH
Total:		24.00				

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2035	10:00	8.40	8.40	29	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	10.10	0.00	0.10	0.30	600	240	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0:0	75												

RECEIVED

OCT 15 2007

DIV. OF OIL, GAS & MINING

10/12/2007

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/14/2007	Days From Spud :	6	Current Depth :	2220 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :	Green River		Weather:				

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.50	12	Rig up Halliburton	2220	2220	NIH
7:30	0.50	21	Safety meeting with Halliburton and rig crew	2220	2220	NIH
8:00	3.00	12	Cement with Halliburton as follows: Pumped ahead 20 bbls fresh H2O with green dye - Pumped 565 sks (144 bbls) 14.5#, 1.15 yld, 6.89 gal/sk water TYPE III Lead Cement - Pumped 210 sks (45 bbls) 15.6#, 1.20 yld, 5.2 gal/sk water Class V Lead Cement - Dropped plug and displaced with 167.5 bbls water - Bumped plug with 2725 psi and floats held - No cement to surface. Volume of returns decreased after 65 bbls into displacement along with significant spike in pumping pressure - Calc reveal that cement level is at about 1300' - probably at weak water zone	2220	2220	NIH
11:00	0.50	12	Attempted to set 9 5/8" csg head in 14" support ring - Casing would not go down	2220	2220	NIH
11:30	0.50	12	Rig-down Halliburton - Noted that water was still flowing about 4 bbls/hr	2220	2220	NIH
12:00	6.00	21	Nipple down conductor - wait on welder to cut off head	2220	2220	NIH
18:00	0.50	22	Welder attempted to to cut off 9 5/8" casing - fire flash as soon as he started cutting 14" conductor	2220	2220	NIH
18:30	8.50	05	Condition mud to 12.5#, 50 vis to kill water/gas flow - Also ran 200' of 1inch in backside of 9 5/8"	2220	2220	NIH
3:00	1.00	23	Pumped 70 bbls of kill mud around to surface - return mud was cut to 11.2 wt - still have water/gas flow	2220	2220	NIH
4:00	2.00	05	Mix 150 bbl 14 wt, 50 vis kill mud	2220	2220	NIH
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2220		12.50	11.20				/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0		0.00					0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0			No report from MI Swaco - Did not come by rig										

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OCT 15 2007

DIV. OF OIL, GAS & MINING

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/15/2007	Days From Spud :	7	Current Depth :	2220 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :	Green River		Weather:				

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.00	05	Condition mud to 14# MW, 50 Vis to try 2nd attempt to kill well	2220	2220	NIH
10:00	2.00	21	Inserted trash pump suction hose 5 foot into annulus to reduce water flow level (below cutting level) Nalco welders cut 14" conductor, installed 2" nipple on one side and a 1" nipple on the opposite side - Then cut off 9 5/8" casing head - Donut shaped ring was installed to seal the annulus - Weld on new 9 5/8" head at correct elevation. Note: All this work was performed under controlled fire conditions - the gas was kept lit with a weed burner throughout the entire procedure with (2) fire monitors with fire extinguishers close by. The well was sealed and a 2" ball valve was installed to allow the annulus to drain out to the reserve pit - still flowing about 4 bbls/min	2220	2220	NIH
12:00	4.50	21	Wait on cementers to top out - Replace swivil packing - start rigging up choke lines	2220	2220	NIH
16:30	3.00	14	Nipple up BOPs - Wait on Superior Well Services	2220	2220	NIH
19:30	2.00	12	Superior Well Services on site @ 19:30 - Rig up cementers and conduct safety meeting	2220	2220	NIH
21:30	5.75	12	Performed 9 5/8" top out job as follows: Pumed ahead a 14.6# high LCM 20 bbl mud pill - Pumped 200 sks (64.1 bbls) 13.6 #, 1.8 yld, 8.3 gal/sk Class A Lead Cement with 10% Cal Seal, 2% cacd2, .25#/sk Superflake, 10#/sk Gilsonite, 3#/sk GR-1 - Pumped 31 sks (25 bbls) 12.5#, 1.98 yld, 10.5 gal/sk Class H Tail Cement with 8% gel, 10% Cal Seal, .25#/sk Superflake, 10#/sk Gilsonite, 3#/sk GR-1	2220	2220	NIH
3:15	2.75	13	Shut in with 60 psi holding steady - Start testing misc BOP items that did not interfere with cement operation	2220	2220	NIH

Total: 24.00

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2220	7:00	13.15	13.15	40	22	11	3/7/10	15.2	0.0	3	0.00	0.0%	0.0%	0.0%	0.1%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	11.10	0.80	0.90	1.90	600	80	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0			Note: This is mud on surface in tanks - building pills and drill out mud										

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OCT 15 2007

DIV. OF OIL, GAS & MINING

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/16/2007	Days From Spud :	8	Current Depth :	2220 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	ENSIGN USA	Rig Name:	ENSIGN 79				
Formation :	Green River	Weather:					

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.75	12	Backside of 9 5/8" casing shut in with 60 psi holding steady	2220	2220	NIH
7:45	0.75	12	Opened 2 inch valve on 14" conductor - about 1/2 gallon cement came out - no pressure or vacuum - Superior pumped pressure back up to 100 psi for 10 mins - Held - Tied back into the sealed annulus with cement hose and opened one inch port on opposite side to vent - Pumped 1/4 bbl of cement to surface - Good top out job !!	2220	2220	NIH
8:30	1.00	12	Rig down Superior Well Services	2220	2220	NIH
9:30	1.00	21	Change out rotating head	2220	2220	NIH
10:30	4.50	15	Test BOPs as follows with B&C Quick Testers: Lower Kelly Valve, Upper Kelly Valve, Safety Valve, Inside BOP, Pipe & Blind Rams, Kill & Choke lines, Manifold, Super Choke, to 250 psi low and 3000 high for 5/10 min respectively, Tested Hydril to 250 psi low and 1500 psi high for 5/10 mins, Tested Surface Casing to 1500 psi for 30 mins, Tested Kelly back to pumps to 1200 psi for 10 mins - All held OK	2220	2220	NIH
15:00	6.00	06	Strap and PU new BHA with directional tools to 850'	2220	2220	2
21:00	1.50	06	TOOH to install wear bushing	2220	2220	2
22:30	1.50	06	Trip back into hole with BHA to 860 feet	2220	2220	2
0:00	3.00	09	Hang blocks and cut 120' drill line	2220	2220	2
3:00	1.00	21	PU 15 Load-Tabs from basket and stack on floor to install in drill string - recorded serial numbers	2220	2220	2
4:00	2.00	06	TIH with DP and installing (1) Load-Tab every 3rd joint - Tagged cement @ 2040' - Kelly Up	2220	2220	2
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2220	1:00	10.30	10.30	38	20	11	3/7/10	18.0	0.0	3	0.00	12.0%	88.0%	0.0%	0.1%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	10.50	0.50	0.30	1.10	600	80	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0			This is mud blended in the pits before tripping in hole with 7 7/8" bit Rig Check @ 6 AM: MWT-10.3, Vis-38										

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OCT 15 2007

DIV. OF OIL, GAS & MINING

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/17/2007	Days From Spud :	9	Current Depth :	2856 Ft	24 Hr. Footage Made :	639 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :	Green River		Weather:				

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	3.50	21	Drilling cement from 2040 to 2163 (123') - Drill out plug/Float collar @ 2163' - Drill out cement in shoejoint (44') - Drill out float shoe @ 2210' - Drill 10 ft of cement to TD 2220' -	2220	2220	2
9:30	0.75	02	Drilling new formation F/2220' T/2233' (13 ft @ 17.3 ft/hr) Rot: WOB-11.7, RPM 72t+57m=129, SPM-51, GPM-403, PP- 517	2220	2233	2
10:15	0.50	22	FIT @ 2233' - Applied 100 psi at surface to test @ 11.0 EMW - Held for 10 mins with no pressure loss	2233	2233	2
10:45	2.50	20	Drilling Ahead F/2233' T/2310' (77' @ 31 ft/hr) Rot: WOB-16.3, RPM 58t+50m=108, SPM-54, GPM-358, PP-612	2230	2310	2
13:15	0.25	20	Drilling Ahead F/2310' T/2313' (3' @ 12 ft/hr) Rot: WOB-15, RPM-51m+65t=116, SPM-55, GPM-364, PP-553	2310	2313	2
13:30	1.00	20	Drilling Ahead F/2313' T/2328' (15' @ 15 ft/hr) Sliding: WOB-23.1, RPM-50m, SPM-54, GPM-358, PP-625	2313	2328	2
14:30	0.25	20	Drilling Ahead F/2328' T/2341' (13' @ 52 ft/hr) Rot: WOB-15, RPM 73t+50m=123, SPM-54, GPM-358, PP-625	2328	2341	2
14:45	0.50	20	Drilling Ahead F/2341' T/2348' (7' @ 14 ft/hr) Rot: WOB-15K, RPM 65t+54m=119, SPM-54, GPM-357, PP-546	2341	2348	2
15:15	0.50	20	Drilling Ahead F/2348' T/2356' (8' @ 16 ft/hr) Sliding: WOB-21.9, RPM 47m, SPM-51, GPM-337, PP-570	2348	2356	2
15:45	0.75	20	Drilling Ahead F/2356' T/2376' (20' @ 27 ft/hr) Rot: WOB-14.4, RPM 59t+46m=105, SPM-50, GPM-331, PP-497	2356	2376	2
16:30	0.75	20	Drilling Ahead F/2376' T/2393' (17' @ 23 ft/hr) Sliding: WOB-20, RPM-50m, SPM-54, GPM-357, PP-583	2376	2393	2
17:15	0.25	20	Drilling Ahead F/2393' T/2407' (14' @ 56 ft/hr) Rot: WOB-15.2, RPM 76t+50m=126, SPM-54, GPM-357, PP-579	2393	2407	2
17:30	0.50	20	Drilling Ahead F/2407' T/2438' (31' @ 62 ft/hr) Rot: WOB-14.3, RPM 67t+50m=117, SPM-54, GPM-357, PP-514	2407	2438	2
18:00	1.00	20	Drilling Ahead F/2438' T/2454' (16' @ 16 ft/hr) Sliding: WOB-10.2, RPM 52m, SPM-56, GPM-371, PP-580	2438	2454	2
19:00	1.00	20	Drilling Ahead F/2454' T/2504' (50' @ 50 ft/hr) Rot: WOB-16.5, RPM 57t+52m=109, SPM-56, GPM-370, PP-738	2454	2504	2
20:00	0.75	20	Drilling Ahead F/2504' T/2535' (31' @ 41.3 ft/hr) Rot: WOB-13.9, RPM 40t+50m=90, SPM-54, GPM-357, PP-621	2504	2535	2
20:45	0.50	20	Drilling Ahead F/2535' T/2553' (18' @ 36 ft/hr) Sliding: WOB-12.4, RPM 48m, SPM-52, GPM-344, PP-600	2535	2553	2
21:15	2.50	20	Drilling Ahead F/2553' T/2699' (146' @ 58.4 ft/hr) Rot: WOB-14, RPM 63t+54m=117, SPM-58, GPM-384, PP-759	2553	2699	2
23:45	1.00	20	Drilling Ahead F/2699' T/2716' (17' @ 37.8 ft/hr) Sliding: WOB-17.5, RPM-52m, SPM-56, GPM-370, PP-639	2699	2717	2
0:45	0.25	20	Drilling Ahead F/2716' T/2730' (14' @ 56 ft/hr) Rot: WOB-12.9, RPM-47t+52m=99, SPM-56, GPM-371, PP-725	2717	2730	2
1:00	1.25	20	Drilling Ahead F/2730' T/2758' (28' @ 22 ft/hr) Sliding: WOB-18.1, RPM-53m, SPM-57, GPM-377, PP-562	2730	2758	2
2:15	1.00	20	Drilling Ahead F/2758' T/2796' (38' @ 38 ft/hr) Rot: WOB-13.1, RPM-58t+50m=108, SPM-57, GPM-358, PP-695	2758	2796	2
3:15	1.00	20	Drilling Ahead F/2796' T/2815' (19' @ 19 ft/hr) Slide: WOB-20, RPM-52m, SPM-56, GPM-371, PP-695	2796	2815	2
4:15	0.50	20	Drilling Ahead F/2815' T/2828' (13' @ 26 ft/hr) Rot: WOB-13.8, RPM 62t+52m=114, SPM-56, GPM-370, PP-725	2815	2828	2
4:45	1.25	20	Drilling Ahead F/2828' T/2856' (28' @ 22.4 ft/hr) Rot: WOB-16.3, RPM-57t+53m=110, SPM-57, GPM-377, PP-669	2828	2856	2
Total:		24.00				

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2330	2:00	9.60	9.60	38	21	10	3/7/9	18.0	0.0	3	0.00			0.0%	0.1%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	12.20	0.80	0.60	1.80	600	80	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										

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Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SEnw-2-11S-22E	District:	Northern
direction. Rig Check @ 6:00: MWT-9.6, Vis-45					

Daily Summary

Activity Date :	4/18/2007	Days From Spud :	10	Current Depth :	3217 Ft	24 Hr. Footage Made :	361 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :	Green River		Weather:				

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.25	20	Drilling Ahead F/2856' T/2877' (21' @ 16.8 ft/hr) Sliding: WOB-23.8, RPM-51m, SPM-55, GPM-364, PP-595	2856	2877	2
7:15	0.25	20	Drilling Ahead F/2877' T/2889' (12' @ 48 ft/hr) Rot: WOB-16.5, RPM 62t+51m=113, SPM-55, GPM-364, PP-609	2877	2889	2
7:30	0.75	10	Survey @ 2830' - AZI 102.94, DEV 23.01	2889	2889	2
8:15	0.75	22	Light plant down - pull off bottom to circ	2889	2889	2
9:00	0.50	20	Drilling Ahead F/2889' T/2922' (33' @ 66 ft/hr) Rot: WOB-16.8, RPM 64t+52m=116, SPM-56, GPM-371, PP-669	2889	2922	2
9:30	1.50	20	Drilling Ahead F/2922' T/2944' (22' @ 14.7 ft/hr) Sliding: WOB-30, RPM 52, SPM-56, GPM-371, PP-594	2922	2944	2
11:00	1.50	20	Drilling Ahead F/2944' T/2988' (44' @ 29.3 ft/hr) Rot: WOB:16.6, RPM 61t+52m=113, SPM-56, GPM-371, PP-840	2944	2988	2
12:30	2.25	20	Drilling Ahead F/2988' T/3018' (30' @ 13.3 ft/hr) Sliding: WOB-24.1, RPM-50m, SPM-54, GPM-358, PP-687	2988	3018	2
14:45	0.50	20	Drilling Ahead F/3018' T/3054' (36' @ 72 ft/hr) Rot: WOB: 16.5, RPM 61t+51m=112, SPM-55, GPM-364, PP-780	3018	3054	2
15:15	8.00	21	Well flowing at 3054' - Shut well in with annular (See 24 hr remarks for details)	3054	3054	2
23:15	1.00	20	Drilling Ahead F/3054' T/3064' (10' @ 10 ft/hr) Sliding: WOB:26.2, RPM-51m, SPM-115, GPM-361, PP-916	3054	3064	2
0:15	0.50	20	Drilling Ahead F/3064' T/3085' (21' @ 42 ft/hr) Rot: WOB-17.4, RPM 43t+51m=94, SPM-115, GPM-361, PP-989	3064	3085	2
0:45	1.25	20	Drilling Ahead F/3085' T/3116' (31' @ 24.8 ft/hr) Rot: WOB-17.1, RPM 42t+51m=93, SPM-114, GPM-358, PP-979	3085	3116	2
2:00	0.50	21	Get SPRs on on both pumps	3116	3116	2
2:30	1.00	20	Drilling Ahead F/3116 T/3145' (29' @ 29 ft/hr) Sliding: WOB-16.4, RPM-50m, SPM-114, GPM-358, PP-894	3116	3145	2
3:30	1.25	20	Drilling Ahead F/3145' T/3183' (38' @ 30.4 ft/hr) Rot: WOB-17.3, RPM 59t+50m=109, SPM-114, GPM-358, PP-1170	3145	3183	2
4:45	0.75	20	Drilling Ahead F/3183' T/3198' (15' @ 20 ft/hr) Sliding: WOB-20.2, RPM-50m, SPM-114, GPM-358, PP-980	3183	3198	2
5:30	0.50	20	Drilling Ahead F/3198' T/3217' (19' @ 38 ft/hr) Rot: WOB-17, RPM 52t+53m=105, SPM-57, GPM-377, PP-1023	3198	3217	2
Total: 24.00						

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2956	9:00	9.60	9.60	40	17	11	3/7/10	10.2	0.0	2	0.00	7.0%	93.0%	0.0%	0.2%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.50	0.60	0.50	2.00	600	20	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	11.0	65		Raised MWT and Vis after this mud check for well control. At 1:30 am 4/18/07: MWT in and out - 10.3, Vis in and out - 43 At 6:00 am 4/18/07: MWT in and out - 10.4, Vis in-48,out-43										

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10/12/2007

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/19/2007	Days From Spud :	11	Current Depth :	3704 Ft	24 Hr. Footage Made :	508 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Wasatch			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run	
6:00	1.00	20	Drilling Ahead F/3217' T/3247' (30' @ 30 ft/hr) Rot: WOB-18.4, RPM-65t+50m=115, SPM-114, GPM-358, PP-1172	3217	3247	2	
7:00	1.00	08	Rotating head leaking - Install new rotating head rubber and drive bushings - check for flow - none	3247	3247	2	
8:00	0.75	20	Drilling Ahead F/3247' T/3278' (31' @ 41.3 ft/hr) Rot: WOB-19.5, RPM 64t+50m=114, SPM-114, GPM-358, PP-1116	3247	3278	2	
8:45	1.50	20	Drilling Ahead F/3278' T/3299' (21' @ 14 ft/hr) Sliding: WOB-20.8, RPM-50m, SPM-114, GPM-358, PP-947	3278	3299	2	
10:15	0.25	20	Drilling Ahead F/3299' T/3313' (14' @ 56 ft/hr) Rot: WOB-17.5, RPM 62t+50m=112, SPM-114, GPM-358, PP-1074	3278	3313	2	
10:30	1.75	20	Drilling Ahead F/3312' T/3377' (64' @ 36.6 ft/hr) Rot: 19.6, RPM-51m, SPM-116, GPM-364, PP-1092	3313	3377	2	
12:15	1.75	20	Drilling Ahead F/3377' T/3401' (24' @ 13.7 ft/hr) Sliding: WOB-23.7, RPM-51m, SPM-116, GPM-364, PP-964	3377	3401	2	
14:00	0.25	20	Drilling Ahead F/3401' T/3412' (11' @ 44 ft/hr) Rot: WOB-22.1, RPM 59t+51m=110, SPM-115, GPM-361, PP-1164	3401	3412	2	
14:15	0.75	20	Drilling Ahead F/3412' T/3444' (32' @ 42.7 ft/hr) Rot: WOB-21.4, RPM-62t+51m=113, SPM-115, GPM-361, PP-1161	3412	3444	2	
15:00	1.50	20	Drilling Ahead F/3444' T/3463' (19' @ 12.7 ft/hr) Sliding: WOB-20.5, RPM 51m, SPM-116, GPM-364, PP-1064	3444	3463	2	
16:30	0.25	20	Drilling Ahead F/3463' T/3475' (12' @ 48 ft/hr) Rot: WOB-17, RPM 73t+51m=124, SPM-115, GPM-361, PP-1111	3463	3475	2	
16:45	0.50	07	Lubricate Rig	3475	3475	2	
17:15	0.75	20	Drilling Ahead F/3475' T/3507' (32' @ 42.7 ft/hr) Rot: WOB-18.6, RPM 65t+51m=116, SPM-115, GPM-361, PP-1140	3475	3507	2	
18:00	1.75	20	Drilling Ahead F/3504' T/3523' (16' @ 9.2 ft/hr) Sliding: WOB-32, RPM- 50m, SPM-113, GPM-355, PP-1042	3507	3523	2	
19:45	1.75	20	Drilling Ahead F/3523' T/3571' (48' @ 27.4 ft/hr) Rot: WOB-19.3, RPM 63t+50m=113, SPM-113, GPM-355, PP-1064	3523	3571	2	
21:30	1.75	20	Drilling Ahead F/3571' T/3586' (15' @ 8.6 ft/hr) Sliding: WOB-28.4, RPM-50m, SPM-114, GPM-358, PP-1070	3571	3586	2	
23:15	6.75	20	Drilling Ahead F/3586' T/3704' (118' @ 17.5 ft/hr) Rot: WOB 19-25K, RPM 55t+50m=105, SPM-113, GPM-358, PP-1143	3586	3704	2	
Total:		24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
3296	10:00	10.20	10.20	41	13	12	2/5/9	4.8	0.0	2	0.00	12.0%	93.0%	0.0%	0.3%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.00	0.00	0.05	0.70	600	20	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.5	65		Rig Check @ 6 AM: MWT-10.6 VIS - 45										

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10/12/2007

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/20/2007	Days From Spud :	12	Current Depth :	4283 Ft	24 Hr. Footage Made :	579 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Wasatch			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	8.25	20	Drilling Ahead F/3704' T/3961' (257' @ 31.2 ft/hr) Rot: WOB-30K, RPM 73t+51m=124, SPM-115, GPM-361, PP-1241	3704	3961	2
14:15	0.50	07	Rig Service	3961	3961	2
14:45	2.75	08	Repair chain in compound - Maintain circulation and work pipe	3961	3961	2
17:30	0.50	20	Drilling Ahead F/3961' T/3971' (10' @ 20 ft/hr) Sliding: WOB-27.9, RPM-51m, SPM-116, GPM-364, PP-1232	3961	3971	2
18:00	2.00	20	Drilling Ahead F/3971' T/4055' (84' @ 42 ft/hr) Rot: WOB-27.9, RPM-51m, SPM-116, GPM-364, PP-1197	3971	4055	2
20:00	0.75	20	Drilling Ahead F4055' T/4064' (9' @ 12 ft/hr) Sliding: WOB-21.3, RPM-51m, SPM-115, GPM-361, PP-1177	4055	4064	2
20:45	0.50	20	Drilling Ahead F/4064' T/4086' (22' @ 44 ft/hr) Rot: WOB-16.4, RPM 72t+50m=121, SPM-112, GPM-352, PP-1178	4064	4086	2
21:15	1.50	20	Drilling Ahead F/4086' T/4148' (62' @ 41.3 ft/hr) Rot: WOB-20.1, RPM 64t+51m=115, SPM-115, GPM-361, PP-1127	4086	4148	2
22:45	1.00	20	Drilling Ahead F/4148' T/4156' (8' @ 8 ft/hr) Sliding: WOB-30.8, RPM-50m, SPM-114, GPM-358, PP-1087	4148	4156	2
23:45	3.00	20	Drilling Ahead F/4156' T/4241' (85' @ 28.3 ft/hr) Rot: WOB-21.6, RPM 76t+50m=126, SPM-114, GPM-358, PP-1205	4156	4241	2
2:45	3.25	20	Drilling Ahead F/4241' T/4283' (42' @ 14 ft/hr) Rot: WOB 15-32K, RPM 74t+50m+124, SPM-113, GPM-355, PP-1142 - Note: Bit balling problem	4241	4283	2
Total:		24.00				

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
3819	10:00	10.60	10.60	47	19	14	2/6/11	5.2	0.0	2	0.00	14.0%	86.0%	0.0%	0.2%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.30	0.10	0.05	0.80	600	120	0	0.00	0.00	0	0	0.00		0	

Water Loss	LCM	ECD	FL Temp	UFT	Remarks
0	0.0	11.0			Rig Check @ 6 AM: MWT-10.6 VIS - 48

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OCT 15 2007

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/21/2007	Days From Spud :	13	Current Depth :	4419 Ft	24 Hr. Footage Made :	136 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :	Wasatch		Weather:				

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	20	Drilling Ahead F/4283' T/4304' (21' @ 10.5 ft/hr) Rot: WOB-31.5, RPM 70m+50m=120, SPM-113, GPM-355, PP-1463	4283	4304	2
8:00	0.75	20	Drilling Ahead F/4304' T/4335' (31' @ 41.3 ft/hr) Sliding: WOB-33, RPM 70t+50m=120, SPM-114, GPM-358, PP-1186	4304	4335	2
8:45	1.50	20	Drilling Ahead F/4335' T/4352' (17' @ 11.3 ft/hr) Sliding: WOB-33K, RPM 50m, SPM-114, GPM-358, PP-1186	4335	4352	2
10:15	0.25	20	Drilling Ahead F/4352' T/4366' (14' @ 56 ft/hr) Rot: WOB-29.4, RPM 75t+50m=125, SPM-114, GPM-358, PP-1288	4352	4366	2
10:30	1.00	07	Rig Service	4366	4366	2
11:30	2.25	20	Drilling Ahead F/4366' T/4419' (53' @ 23.6 ft/hr) Rot: WOB-31.9, RPM 70t+51m=121, SPM-116, GPM-364, PP-1323 (Note: Mud Motor stalled, differential pressure spiked and pump pressure increased)	4366	4419	2
13:45	1.25	05	Pump sweep to clean hole for trip	4419	4419	2
15:00	3.00	06	TOOH to change out bit and motor (max 45K overpull at bottom) See Notes:	4419	4419	2
18:00	3.50	21	Inspect and change out mud motor and bit - Change out batteries on directional tool	4419	4419	2
21:30	5.50	06	TIH with Bit #3 and MM #3 installing the balance (12) of the Lo-Tads in the HWDP between the directional tools and standard 16.60 drill pipe.	4419	4419	3
3:00	2.00	03	Reaming to bottom from 4359' to 4419' (60')	4419	4419	3
5:00	1.00	05	Circ and cond mud with pump #2 - Changing out swab on pump #2	4419	4419	3
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
4385	11:00	10.20	10.20	44	18	15	2/9/15	5.2	0.0	2	0.00	12.0%	88.0%	0.0%	0.4%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.10	0.05	0.00	0.60	600	280	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.6	100		Rig Check @ 6 AM: MWT-10.2 VIS - 44										

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OCT 15 2007 10/12/2007

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/22/2007	Days From Spud :	14	Current Depth :	4844 Ft	24 Hr. Footage Made :	425 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Wasatch			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	0.50	20	Drilling Ahead F/4419' T/4441' (22' @ 44 ft/hr) Rot: WOB-15.1, RPM 69t+51m=120, SPM-115, GPM-361, PP-1032	4419	4441	3
6:30	2.00	20	Drilling Ahead F/4441' T/4460' (19' @ 12.7 ft/hr) Sliding: WOB-18.7, RPM-50m, SPM-114, GPM-358, PP-981	4441	4460	3
8:30	2.00	20	Drilling Ahead F/4460' T/4534' (74' @ 37 ft/hr) Rot: WOB-23.9, RPM 64t+51m=115< SPM-116, GPM-364, PP-1160	4460	4534	3
10:30	0.50	08	Change out rotating rubber	4534	4534	3
11:00	1.75	20	Drilling Ahead F/4534' T/4554' (20' @ 11.4 ft/hr) Sliding: WOB-31.2, RPM-51m, SPM-115, GPM-361, PP-1066	4534	4554	3
12:45	1.75	20	Drilling Ahead F/4554' T/4622' (68' @ 38.9 ft/hr) Rot: WOB-17.9, RPM 71t+51m=122, SPM-116, GPM-364, PP-1279	4554	4622	3
14:30	1.00	20	Drilling Ahead F/4622' T/4630' (8' @ 8 ft/hr) Sliding: WOB-32.8, RPM-53m, SPM-116, GPM-364, PP-1160	4622	4630	3
15:30	0.25	20	Drilling Ahead F/4630' T/4637' (7' @ 28 ft/hr) Rot: WOB-21.5, RPM 74t+51m=125, SPM-116, GPM-364, PP-1206	4630	4637	3
15:45	1.00	20	Drilling Ahead F/4637' T/4640' (3' @ 3 ft/hr) Sliding: WOB-31, RPM-51m, SPM-116, GPM-364, PP-1184	4637	4640	3
16:45	0.50	20	Drilling Ahead F/4640' T/4644' (4' @ 8 ft/hr) Rot: WOB-26.2, RPM 56t+51m=106, SPM-116, GPM-364, PP-1276	4640	4644	3
17:15	0.25	20	Drilling Ahead F/4644' T/4648' (4' @ 16 ft/hr) Sliding: WOB-22K, RPM-51m, SPM-116, GPM-364, PP-1320	4644	4648	3
17:30	1.00	20	Drilling Ahead F/4648' T/4669' (21' @ 21 ft/hr) Rot: WOB-18K, RPM 63t+51m=114, SPM-116, GPM-364, PP-1354	4648	4669	3
18:30	3.25	20	Drilling Ahead F/4669' T/4690' (21' @ 6.5 ft/hr) Sliding: WOB-17.5, RPM 58t+51m=109, SPM-116, GPM-365, PP-1218	4669	4690	3
21:45	0.50	20	Drilling Ahead F/4690' T/4703' (13' @ 26 ft/hr) Rot: WOB-17.5, RPM 58t+51m=109, SPM-116, GPM-365, PP-1218	4690	4703	3
22:15	2.00	20	Drilling Ahead F/4703' T/4718' (15' @ 7.5 ft/hr) Sliding: WOB-27.3, RPM-50m, SPM-112, GPM-352, PP-1121	4703	4718	3
0:15	1.00	20	Drilling Ahead F/4718' T/4750' (32' @ 32 ft/hr) Rot: WOB-19.3, RPM 60t+51m=111, SPM-115, GPM-361, PP-1121	4718	4750	3
1:15	1.50	20	Drilling Ahead F/4750' T/4761' (11' @ 7.3 ft/hr) Sliding: WOB-28.4, RPM-50m, SPM-114, PP-1052, GPM-358	4750	4761	3
2:45	0.25	20	Drilling Ahead F/4761' T/4766' (5' @ 20 ft/hr) Rot: WOB-19.3, RPM 48t+50m=98, SPM-114, PP-1159, GPM-358	4761	4766	3
3:00	0.25	20	Drilling Ahead F/4766' T/4774' (10' @ 40 ft/hr) Sliding: WOB-29.9, RPM-50m, SPM-114, PP-1159, GPM-358	4766	4774	3
3:15	1.50	20	Drilling Ahead F/4774' T/4814' (40' @ 26.7 ft/hr) Rot: WOB-16.7, RPM 60t+50m=110, SPM-114, PP-1187, GPM-358	4774	4814	3
4:45	1.00	20	Drilling Ahead F/4814' T/4828' (14' @ 14 ft/hr) Sliding: WOB-30.3, RPM-50m, SPM-113, PP-1118, GPM-355	4814	4828	3
5:45	0.25	20	Drilling Ahead F/4828' T/4844' (16' @ 64 ft/hr) Rot: WOB-18.6, RPM 60t+50m=110, SPM-114, PP-1227, GPM-358	4828	4844	3
Total:		24.00				

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
4523	9:00	10.50	10.50	43	17	10	3/9/	5.2	0.0	2	0.00	14.0%	86.0%	0.0%	0.4%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.10	0.05	1.00	0.60	600	240	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.8	100		Rig Check @ 6 AM: MWT- 10.5 VIS -47										

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10/12/2007

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/23/2007	Days From Spud :	15	Current Depth :	5215 Ft	24 Hr. Footage Made :	371 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :	Wasatch		Weather:				

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	0.50	05	Making connection/Pumping beads to bit before slide/Crew change	4844	4844	3
6:30	1.50	20	Drilling Ahead F/4844' T/4876' (32' @ 21.3 ft/hr) Sliding: WOB-36.2, RPM-50m, SPM-114, PP-1245, GPM-358	4844	4876	3
8:00	1.75	20	Drilling Ahead F/4876' T/4939' (63' @ 36 ft/hr) Rot: WOB-17.6, RPM 68t+50m=118, SPM-114, PP-1283, GPM-358	4876	4939	3
9:45	1.25	20	Drilling Ahead F/4939' T/4952' (13' @ 10.4 ft/hr) Sliding: WOB-32, RPM-51m, SPM-115, PP-1232, GPM-361	4939	4952	3
11:00	0.25	20	Drilling Ahead F/4952' T/4962' (10' @ 40 ft/hr) Rot: WOB-17.7, RPM 58t+50m=108, SPM-114, PP-1278, GPM-358	4952	4972	3
11:15	2.00	06	Vibrating hose broke:TOOH into 9 5/8" casing (See Notes:	4972	4972	3
13:15	0.50	21	Changing out slip dies in rotary slips (2900')	4972	4972	3
13:45	0.50	06	TOOH into 9 5/8" casing	4972	4972	3
14:15	1.25	08	Changing out vibrating hose - Drillstring safe inside casing - Bit at 2100' - Casing shoe at 2210'	4972	4962	3
15:30	0.50	07	Lubricate Rig	4962	4962	3
16:00	1.25	06	Trip back in hole to drill	4962	4962	3
17:15	0.25	03	Kelly up 20' off bottom - wash and ream - no fill	4962	4962	3
17:30	0.25	20	Drilling Ahead F/4962' T/4970' (8' @ 32 ft/hr) Rot: WOB-17.4, RPM-64, SPM-116, PP-1271, GPM-364	4962	4970	3
17:45	2.50	20	Drilling Ahead F/4970' T/4997' (27' @ 10.8 ft/hr) Sliding: WOB-35.4, RPM-51m, SPM-115, PP-1196, GPM-361	4970	4997	3
20:15	2.50	20	Drilling Ahead F/4997' T/5063' (66' @ 26.4 ft/hr) Rot: WOB-17.8, RPM 62t+50m=112, PP-1190, GPM-358	4997	5063	3
22:45	1.25	20	Drilling Ahead F/5063' T/5087' (24' @ 19.2 ft/hr) Sliding: WOB-32.8, RPM-50m, SPM-114, PP-1196, GPM-357	5063	5087	3
0:00	3.00	20	Drilling Ahead F/5087' T/5157' (70' @ 23.3 ft/hr) Rot: WOB-23.1, RPM 67t+50m=117, SPM-114, PP-1296, GPM-358	5087	5157	3
3:00	1.50	20	Drilling Ahead F/5157' T/5161' (4' @ 2.7 ft/hr) Sliding: WOB-29.4, RPM-50m, SPM-114, PP-1171, GPM-358	5157	5161	3
4:30	0.50	20	Drilling Ahead F/5161' T/5188' (27' @ 54 ft/hr) Rot: WOB-20.1, RPM 53t+50m=103, SPM-114, PP-1189, GPM-358	5161	5188	3
5:00	0.50	03	Ream out hole @ connection/Survey @ 5128' Dev 2.01, AZI 76.95	5188	5188	3
5:30	0.50	20	Drilling Ahead F/5188' T/5215' (27' @ 54 ft/hr) Rot: WOB-16.3, RPM 52t+50m=102, SPM-114, PP-1254, GPM-358	5188	5215	3

Total: 24.00

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
4909	8:00	10.50	10.50	45	23	9	4/7/11	5.2	0.0	2	0.00	14.0%	86.0%	0.0%	0.4%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	8.70	0.00	0.00	0.30	600	200	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.8	115		Rig Check @ 6 AM: MWT- 10.5 Vis - 42										

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OCT 15 2007

10/12/2007

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/24/2007	Days From Spud :	16	Current Depth :	5853 Ft	24 Hr. Footage Made :	638 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :	Wasatch		Weather:				

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	7.75	20	Drilling Ahead F/5215' T/5468' (253' @ 32.6 ft/hr) Rot: WOB-23K, RPM 67t+51m=118, SPM-116, PP-1304, GPM364	5215	5468	3
13:45	1.25	03	Working pipe to resolve bit balling - pumping nutplug down hole to clean bit	5468	5468	3
15:00	1.00	20	Drilling Ahead F/5468' T/5481' (13' @ 13 ft/hr) Rot: WOB-25.3, RPM 62t+50m=112, SPM-114, PP-1256, GPM-358	5468	5481	3
16:00	1.50	03	Working pipe to resolve bit balling - pumping nut plug to clean bit	5481	5481	3
17:30	2.50	20	Drilling Ahead F/5481' T/5561' (80' @ 32 ft/hr) Rot: WOB-25.4, RPM 77t+51m=128, SPM-115, PP-1393, GPM-361	5481	5561	3
20:00	1.00	20	Drilling Ahead F/5561' T/5592' (31' @ 31 ft/hr) Rot: WOB-25.1, RPM 79t+51m=130, SPM-115, PP-1380, GPM-361	5561	5592	3
21:00	0.25	03	Ream kelly (3) times before connection	5592	5592	3
21:15	0.75	20	Drilling Ahead F/5592' T/5624' (32' @ 42.7 ft/hr) Rot: WOB-24, RPM 75t+51m=126, SPM-115, PP-1340, GPM-361	5592	5624	3
22:00	0.25	03	Ream kelly (3) times before connection	5624	5624	3
22:15	0.50	20	Drilling Ahead F/5624' T/5655' (31' @ 62 ft/hr) Rot: WOB-21.8, RPM 74t+50m=124, SPM-114, PP-1382, GPM-358	5624	5655	3
22:45	0.25	03	Ream kelly (3) times before connection	5655	5655	3
23:00	1.00	20	Drilling Ahead F/5655' T/5686' (31' @ 31 ft/hr) Rot: WOB-18.2, RPM 74t+50m=124, SPM-114, PP-1501, GPM-358	5655	5686	3
0:00	0.50	03	Ream kelly (3) times before connection	5686	5686	3
0:30	0.75	20	Drilling Ahead F/5686' T/5717' (31' @ 41.3 ft/hr) Rot: WOB-22.8, RPM 75t+51m=126, SPM-115, PP-1333, GPM-361	5686	5717	3
1:15	0.25	03	Ream kelly (3) times before connection	5717	5717	3
1:30	0.75	20	Drilling Ahead T/5717' T/5748' (31' @ 41.3 ft/hr) Rot: WOB-22.6, RPM 75t+50m=125, SPM-114, PP-1350, GPM-358	5717	5748	3
2:15	0.50	03	Ream kelly (3) times before connection	5748	5748	3
2:45	0.50	20	Drilling Ahead F/5748' T/5779' (31' @ 62 Ft/hr) Rot: WOB-22.2, RPM 70t+51m=121, SPM-115, PP-1454, GPM-361	5748	5779	3
3:15	0.50	03	Ream kelly (3) times before connection	5779	5779	3
3:45	0.50	20	Drilling Ahead F/5779' T/5811' (32' @ 64 ft/hr) Rot: WOB-21.4, RPM 72t+50m=122, SPM-114, PP-1432, GPM-358	5779	5811	3
4:15	0.25	03	Ream kelly (3) times before connection	5811	5811	3
4:30	0.75	20	Drilling Ahead F/5811' T/5842' (31' @ 41.3 ft/hr) Rot: WOB-21.3, RPM 79t+51m=130, SPM-115, PP-1393, GPM-361	5811	5842	3
5:15	0.50	03	Ream kelly (3) times before connection	5842	5842	3
5:45	0.25	20	Drilling Ahead F/5842' T/5853' (11' @ 44 ft/hr) Rot: WOB-22.3, RPM 75t+51m=126, SPM-115, PP-1371, GPM-361	5842	5853	3

Total: 24.00

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
5438	12:30	10.30	10.30	42	17	13	3/7/11	5.2	0.0	2	0.00	13.0%	87.0%	0.0%	0.4%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.10	0.30	0.10	0.90	600	220	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.6	110		Rig Check @ 6 AM: MWT- 10.4 Vis - 43										

RECEIVED

OCT 15 2007 10/12/2007

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/25/2007	Days From Spud :	17	Current Depth :	5997 Ft	24 Hr. Footage Made :	144 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :	Mesaverde		Weather:				

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.00	20	Drilling Ahead F/5853' T/5873' (20' @ 40 ft/hr) Rot: WOB-22.4, RPM 66t+50m=116, SPM-115, PP-1235, GPM358	5853	5873	3
7:00	0.25	03	Ream kelly (3) times before connection to clean hole and minimize drag	5873	5873	3
7:15	1.00	20	Drilling Ahead F/5873' T/5904' (31' @ 31 ft/hr) Rot: WOB-23.2, RPM 64t+50m=114, SPM-114, PP-1369, GPM-358	5873	5904	3
8:15	0.25	03	Ream kelly (3) times before connection (Note: PU-221K, SW-132K, Drag-89K)	5904	5904	3
8:30	0.50	20	Drilling Ahead F/5904' T/5935' (31' @ 62 ft/hr) Rot: WOB-21.9, RPM 68t+51m=118, SPM-116, PP-1408, GPM364	5904	5935	3
9:00	0.25	03	Ream kelly (3) times (Note: PU-228K, SW-132K, Drag-96K)	5935	5935	3
9:15	1.50	20	Drilling Ahead F/5935' T/5966' (31' @ 20.7 ft/hr) Rot: WOB-23.2, RPM 71t+51m=121, SPM-116, PP-1289, GPM-364	5935	5966	3
10:45	0.25	03	Ream Kelly (3) times (Note: PU-222K, SW-133K, Drag-89K)	5966	5966	3
11:00	1.50	20	Drilling Ahead F/5966' T/5997' (31' @ 20.7 ft/hr) Rot: WOB-20.3, RPM 65+50=115, SPM-114, PP-1290, GPM-358	5966	5997	3
12:30	0.50	05	Circ bottoms up to pull (3) stands - check for keyseats	5997	5997	3
13:00	0.75	06	Trip out slowly (3) stands to observe drag (See Notes)	5997	5997	3
13:45	1.25	05	Build and pump dry job	5997	5997	3
15:00	5.25	06	TOOH to casing shoe slowly (See notes)	5997	5997	3
20:15	0.50	22	Fill hole	5997	5997	3
20:45	6.25	06	Continue TOOH - laying down balance of lo-tads and HWDP	5997	5997	3
3:00	3.00	23	Change out batteries in directional tool and LD MM #3/PU MM #4	5997	5997	3
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
5962	8:00	10.30	10.30	45	22	12	3/6/10	6.0	0.0	2	0.00	13.0%	87.0%	0.0%	0.2%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.10	0.20	0.10	1.00	500	160	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.6	110		Rig Check @ 6 AM: Non circ sample MWT- 10.3 Vis - 46										

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OCT 15 2007

10/12/2007

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/26/2007	Days From Spud :	18	Current Depth :	5997 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :				Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	21	Change out mud motor and bit	5997	5997	4
8:00	3.50	06	M/U BIT DIR TOOLS AND BHA AND TIH TO 3800' BREAK CIRCULATION PU 130 K ROT-105 SO- 98	5997	5997	4
11:30	1.00	07	SERVICE RIG,	5997	5997	4
12:30	2.50	05	FINISH TIH TO 5508' HAD TROUBLE MOVING PIPE, PU 260 ROT-145 SO 125	5997	5997	4
15:00	3.00	05	CIRCULATE AND CONDITION MUD, MUD BOTTOMS UP BACTERIA LADEN, CAUSING CO2 PROBLEMS	5997	5997	4
18:00	7.00	05	CIRCULATE AND CONDITION MUD, DUMP AND ADD WATER AND CHEMICALS, PU 220K , ROT-145, SO-125	5997	5997	4
1:00	4.00	06	MAKE 20 STAND SHORT TRIP PU- 220K 230K, SO-125K	5997	5997	4
5:00	1.00	05	CIRCULATE AND CONDITION HOLE, START MIXING SLUG TO TOOH TO CHANGE OUT BHA	5997	5997	4

Total: 24.00

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
5997	9:00	10.15	10.15	39	17	8	4/6/10	5.6	0.0	2	0.00	11.0%	89.0%	0.0%	0.3%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	8.70	0.00	0.00	0.20	500	160	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.5	110		Rig Check @ 6 AM: MWT- Vis -										

Daily Summary

Activity Date :	4/27/2007	Days From Spud :	19	Current Depth :	6040 Ft	24 Hr. Footage Made :	43 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Mesaverde			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	05	CIRCULATE AND CONDITION HOLE, BUILD SLUG	5997	5997	4
8:00	3.50	06	TOOH W/ DRILL PIPE TO BHA	5997	5997	4
11:30	2.50	21	RIG UP LAY DOWN LINE, LAY DOWN 10 JTS DRILL COLLARS	5997	5997	4
14:00	4.00	06	TIH W/ BHA AND DRILL PIPE	5997	5997	4
18:00	1.50	06	TIH TO 5542' ROT 125K 185 PU 110 SO	5997	5997	4
19:30	2.00	05	CIRCULATE AND CONDITION HOLE BRING MUD WEIGHT FROM 10.6 DOWN TO 10.2 VIS 40	5997	5997	4
21:30	5.50	03	WASH AND REAM TO BOTTOM @ 5,997' CONDITION HOLE, ROT WEIGHT 135K PU 190K SO 120K	5997	5997	4
3:00	3.00	02	DRILL F/ 5997 T/ 6040 AND DRILLING AHEAD	5997	6040	4

Total: 24.00

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
5997	16:30	10.30	10.30	41	13	6	4/9/14	7.2	0.0	2	0.00	12.0%	88.0%	0.0%	0.3%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.3	8.70	0.15	0.10	0.40	600	300	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.5	96		DUMPING MUD IN PITS, GETTING RID OF BAD MUD AND SOLIDS.										

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OCT 15 2007

10/12/2007

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/28/2007	Days From Spud :	20	Current Depth :	6570 Ft	24 Hr. Footage Made :	530 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Mesaverde			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.00	02	DRILL F/ 6040 T/ 6165	6040	6165	4
10:00	0.50	07	SERVICE RIG	6165	6165	4
10:30	7.50	02	DRILL F/ 6165 T/ 6383	6165	6383	4
18:00	6.50	02	DRILL F/ 6383 T/ 6566	6383	6566	4
0:30	4.50	08	RIG REPAIR-CHANGE OUT AIR CLUTCH, AND CHAIN	6566	6566	4
5:00	1.00	02	P/U MAKE CONECTION, DRILL F/ 6566 T/6570	6566	6570	4
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
6250	13:00	10.10	10.10	43	14	14	6/11/16	6.4	0.0	1	0.00	11.0%	89.0%	0.0%	0.3%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
27.5	8.70	0.15	0.10	0.30	600	320	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.5	98												

Daily Summary

Activity Date :	4/29/2007	Days From Spud :	21	Current Depth :	6911 Ft	24 Hr. Footage Made :	341 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Mesaverde			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	3.00	02	DRILL F/ 6570 T/ 6663	6570	6663	4
9:00	1.00	05	PUMP SWEEP AROUND AND MIX SLUG	6663	6663	4
10:00	2.00	06	TOOH 25 STAND SHORT TRIP	6663	6663	4
12:00	1.00	07	SERVICE RIG	6663	6663	4
13:00	2.50	06	TIH AND WASH DOWN 45' TO BOTTOM, SOFT FILL	6663	6663	4
15:30	2.50	02	DRILL F/ 6663 T/ 6756	6663	6756	4
18:00	6.00	02	DRILL F/ 6756 T/ 6831	6756	6831	4
0:00	3.50	08	RIG REPAIR, C/O ROTARY CHAIN	6831	6831	4
3:30	2.50	02	DRILL F/ 6831 T/ 6911	6831	6911	4
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
6662	12:30	10.20	10.20	52	19	13	4/7/11	5.6	0.0	2	0.00	12.0%	88.0%	0.0%	0.4%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
27.5	9.45	0.40	0.20	0.60	650	280	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0	104												

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OCT 15 2007

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/30/2007	Days From Spud :	22	Current Depth :	7004 Ft	24 Hr. Footage Made :	93 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Mesaverde			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	5.00	02	DRILL F/ 6911 T/ 7004	6911	7004	4
11:00	2.00	05	CIRCULATE AND CONDITION MUD, PUMP SWEEP AND PUMP SLUG	7004	7004	4
13:00	1.00	06	SET KELLY-BACK , COULD NOT MOVE PIPE, P/U KELLY BREAK CIRCULATION, FREE PIPE,PUMP SLUG	7004	7004	4
14:00	5.00	06	TOOH W/ DRILL PIPE AND BHA	7004	7004	4
19:00	2.00	20	HELD SAFETY MEETING, LAY DOWN DIR TOOLS AND BIT	7004	7004	4
21:00	7.50	11	HELD SAFETY MEETING, R/U SCHLUMBERGER TO LOG, TIH W/ 3 1/8" TRIPLE COMBO T.D. @ 6996 WLM LOG WELL, R.D.M.O.	7004	7004	4
4:30	1.50	06	P/U BIT AND TIH	7004	7004	4
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
7004	12:45	10.10	10.10	44	17	11	4/8/15	5.4	0.0	2	0.00	10.0%	90.0%	0.0%	0.3%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
22.5	9.74	0.30	0.20	0.60	700	250	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0	107												

Daily Summary

Activity Date :	5/1/2007	Days From Spud :	23	Current Depth :	7004 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :				Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.00	06	TIH TO 3185'	7004	7004	4
7:00	3.00	05	CIRCULATE AND CONDITION MUD, W.O.O.	7004	7004	4
10:00	2.00	06	FINISH TRIP IN HOLE	7004	7004	4
12:00	2.00	05	CIRCULATE AND CONDITION HOLE, HELD SAFETY MEETING / LAY DOWN CREW	7004	7004	4
14:00	0.50	06	TOOH W/ 5 STANDS OFF BOTTOM	7004	7004	4
14:30	3.50	06	PUMP SLUG LAY DOWN DRILL PIPE	7004	7004	4
18:00	5.50	06	FINISH L/D DRILL PIPE, L/D H.W.D.P. P/U KELLY AND BREAK DOWN, L/D DRILL COLLARS, JARS, AND BIT. PULL WEAR BUSHING	7004	7004	4
23:30	1.00	21	HELD SAFETY MEETING W/ WEATHERFORD CASING CREW	7004	7004	4
0:30	5.50	12	P/U 4.5" M-80 CASING, AND RIH	7004	7004	4
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
7004	12:45	10.10	10.10	44	17	11	4/8/15	5.4	0.0	2	0.00	10.0%	90.0%	0.0%	0.3%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
22.5	9.74	0.30	0.20	0.60	700	250	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0	107												

RECEIVED

OCT 15 2007

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	5/2/2007	Days From Spud :	24	Current Depth :	7004 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :				Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.00	12	CASING RUN IN HOLE, 4.5" M-80 , FLOAT SHOE, 13.84" SHOE JT, FLOAT COLLAR, 83-JTS CASING, MARKER JT, 81JTS-CASING TAG FILL @ 6,968'	7004	7004	4
7:00	1.00	03	WASH DOWN 25' TO 6,993' 11' OFF BOTTOM	7004	7004	4
8:00	1.00	05	CIRCULATE MUD AND CONDITION HOLE	7004	7004	4
9:00	1.00	21	R/U SEPERIOR TO CEMENT HELD SAFETY MEETING	7004	7004	4
10:00	2.50	12	TEST LINES TO 3000 PSI, PUMP 10 BBL'S FRESH, 30 BBL REACTIVE SPACER, 10 BBL FRESH, 126 BBL 185 SKS LEAD CLASS A 11 #, PUMPED TAIL= 263 BBL, 1210 SKS CLASS H 50/50 POZ, 14.3 # AND DISPLACE W/ 108 BBL WATER, BUMP PLUG 500# OVER @ 2300 PSI	7004	7004	4
12:30	0.50	21	R.D.M.O. SEPERIOR CEMENT CO.	7004	7004	4
13:00	5.00	14	N/D BOP, SET SLIPS LAND CASING	7004	7004	4
18:00	3.00	22	CLEAN PITS AND WASH UP. RELEASE RIG @ 21:00	7004	7004	4
21:00	9.00	01	RIG DOWN	7004	7004	4
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
7004	12:45	10.10	10.10	44	17	11	4/8/15	5.4	0.0	2	0.00	10.0%	90.0%	0.0%	0.3%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
22.5	9.74	0.30	0.20	0.60	700	250	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0	107												

Daily Summary

Activity Date :	5/3/2007	Days From Spud :	25	Current Depth :	7004 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :				Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	12.00	01	RIG DOWN MOVE TO NEW LOC	7004	7004	4
18:00	12.00	01	WAIT ON DAYLIGHT	7004	7004	4
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
7004	12:45	10.10	10.10	44	17	11	4/8/15	5.4	0.0	2	0.00	10.0%	90.0%	0.0%	0.3%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
22.5	9.74	0.30	0.20	0.60	700	250	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0	107												

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OCT 15 2007

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Formation

Formation Name	Current Well Top	Subsea Datum	Ref Well Top	Elec Top	Comments

Casing

Date In	Setting Depth	Jts Run	Type	Size	Weight	Grade	MINID	HoleDiam	TD
4/10/2007	2205.49	50	3. Surface	9.625	36	J-55	0	12.25	2220

Stage: 1, Spacer, 20, 0, Water with green dye, Type III, 0, 0

Stage: 1, Lead, 0, 500, with .2% Veraset, .25#/sk Flocele, Type III, 1.15, 14.5

Stage: 1, Tail, 0, 210, with 2% Calcium Chloride, Type V, 1.2, 15.6

Stage: 1, Displacement, 167.5, 0, Water, , 0, 0

4/26/2007	6993.54	166	5. Production	4.5	11.6	M-80	0	7.875	7004
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Stage: 1, Lead, 0, 185, 16% GEL, 23# SKSUPERFLAKE, 1% SUPERSIL-SP, 10# SKS GILSONITE 2% SUPER CR-1, 3% SALT, 3# SKSUPER GR, Class A, 3.18, 11

Stage: 1, Tail, 0, 1210, 50/50 POZ, 2% GEL, 5% SALT, 3% SUPER FL-200, 25# SK SUPERFLAKE, 2% CR-1, Class H, 1.22, 14.3

Stage: 1, Displacement, 108, 0, , 0, 0

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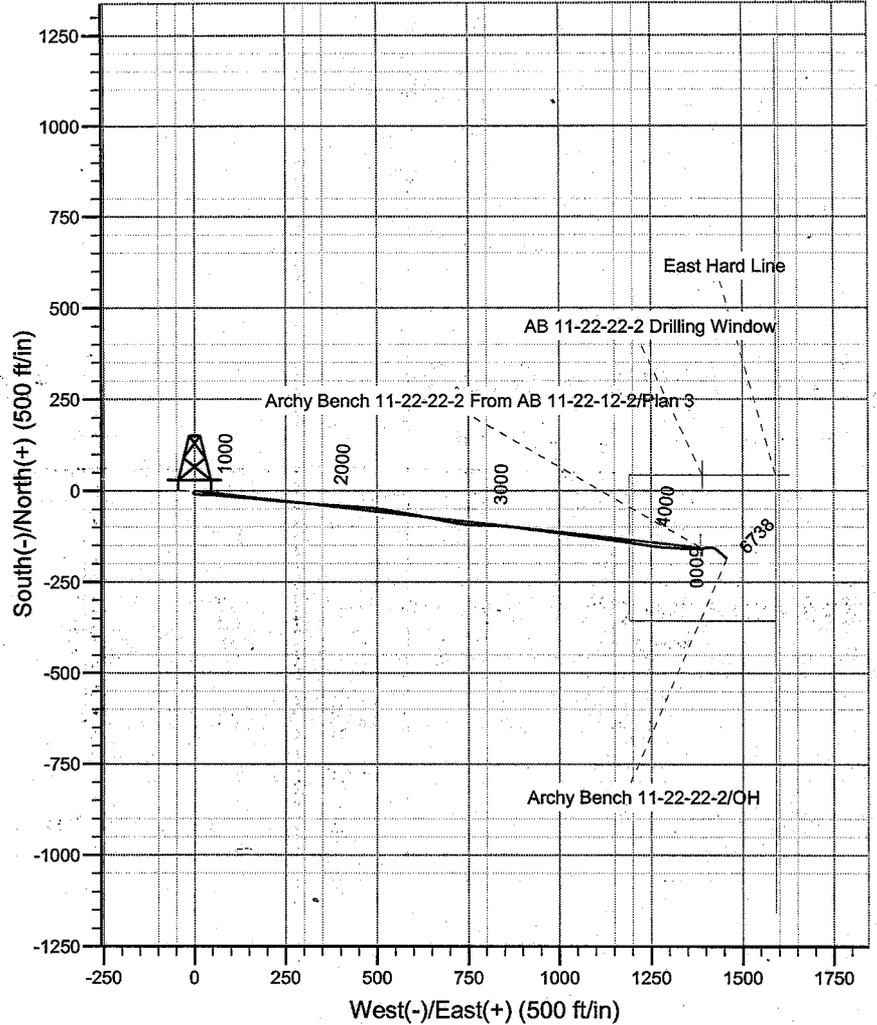
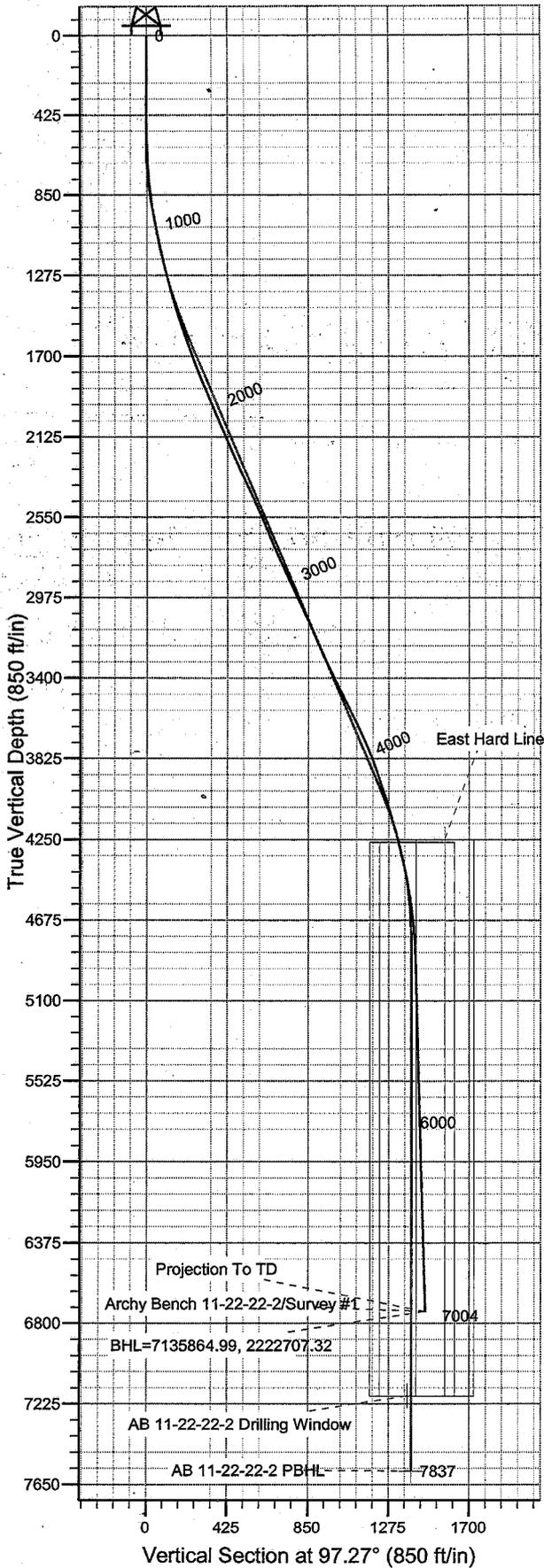
OCT 15 2007



Scientific Drilling
Rocky Mountain Operations

Project: Uintah County, UT NAD 83
Site: Archy Bench 11-22-12-2 Pad
Well: Archy Bench 11-22-22-2 From AB 11-22-12-2
Wellbore: OH
Design: OH

Enduring Resources



WELL DETAILS: Archy Bench 11-22-22-2 From AB 11-22-12-2

Ground Level: GL 5086.7 & RKB 16' @ 5102.70ft (Caza 79)						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	7136017.35	2221245.06	39° 53' 30.170 N	109° 25' 46.950 W	

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OCT 15 2007

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Archy Bench 11-22-22-2 From AB 11-22-12-2, True North
Vertical (TVD) Reference: GL 5086.7 & RKB 16' @ 5102.70ft (Caza 79)
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: GL 5086.7 & RKB 16' @ 5102.70ft (Caza 79)
Calculation Method: Minimum Curvature
Local North: True North
Location: Sec. 2 T11S R22E

PROJECT DETAILS: Uintah County, UT NAD 83

Survey: Survey #1 (Archy Bench 11-22-22-2/OH)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone

Created By: Rex Hall Date: 2007-04-30

Scientific Drilling Survey Report

Company:	Enduring Resources	Local Co-ordinate Reference:	Well Archy Bench 11-22-22-2 From AB 11-22-12-2
Project:	Uintah County, UT NAD 83	TVD Reference:	GL 5086.7 & RKB 16' @ 5102.70ft (Caza 79)
Site:	Archy Bench 11-22-12-2 Pad	MD Reference:	GL 5086.7 & RKB 16' @ 5102.70ft (Caza 79)
Well:	Archy Bench 11-22-22-2 From AB 11-22-1	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	MultiUserEDM

Project	Uintah County, UT NAD 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site Archy Bench 11-22-12-2 Pad, Sec. 2, T11S R22E					
Site Position:		Northing:	7,136,017.35 ft	Latitude:	39° 53' 30.170 N
From:	Lat/Long	Easting:	2,221,245.06 ft	Longitude:	109° 25' 46.950 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.33 °

Well Archy Bench 11-22-22-2 From AB 11-22-12-2, 2367' FNL & 575' FWL						
Well Position	+N/-S	0.00 ft	Northing:	7,136,017.35 ft	Latitude:	39° 53' 30.170 N
	+E/-W	0.00 ft	Easting:	2,221,245.06 ft	Longitude:	109° 25' 46.950 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,102.70 ft

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2007-04-09	11.55	65.91	52,715

Design OH					
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	97.27	

Survey Program Date 2007-04-30					
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
510.00	7,004.00	Survey #1 (OH)	MWD	MWD - Standard	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
510.00	1.15	210.18	509.97	-4.42	-2.57	-1.99	0.23	0.23	0.00	
First SDI Survey										
603.00	0.98	182.62	602.95	-6.03	-3.08	-2.29	0.57	-0.18	-29.63	
696.00	4.22	105.17	695.86	-7.72	0.19	1.16	4.43	3.46	-63.26	
788.00	6.33	99.93	787.46	-9.48	8.45	9.58	2.35	2.29	-5.70	
879.00	9.38	91.83	877.60	-10.55	20.81	21.88	3.57	3.35	-9.12	
972.00	10.81	91.07	969.16	-10.93	37.11	38.19	1.54	1.54	-0.60	
1,065.00	12.07	93.05	1,060.31	-11.81	65.54	66.56	1.42	1.35	2.13	
1,158.00	13.10	95.35	1,151.08	-13.11	78.74	78.79	1.23	1.11	2.47	
1,251.00	13.54	94.67	1,241.57	-14.98	97.08	98.20	0.50	0.47	-0.73	
1,344.00	14.55	93.42	1,331.79	-16.58	119.60	120.73	1.13	1.09	-1.34	
1,437.00	16.97	95.81	1,421.29	-18.64	144.75	145.96	2.69	2.60	2.67	

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Scientific Drilling Survey Report

Company:	Enduring Resources	Local Co-ordinate Reference:	Well Archy Bench 11-22-22-2 From AB 11-22-12-2
Project:	Uintah County, UT NAD 83	TVD Reference:	GL 5086.7 & RKB 16' @ 5102.70ft (Caza 79)
Site:	Archy Bench 11-22-12-2 Pad	MD Reference:	GL 5086.7 & RKB 16' @ 5102.70ft (Caza 79)
Well:	Archy Bench 11-22-22-2 From AB 11-22-1	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	MultiUserEDM

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,531.00	17.92	96.76	1,510.97	-21.73	172.77	174.13	1.06	1.01	1.01
1,625.00	19.17	94.59	1,600.08	-24.66	202.52	204.01	1.52	1.33	-2.31
1,718.00	20.39	95.34	1,687.60	-27.39	233.87	235.46	1.34	1.31	0.81
1,811.00	21.53	95.27	1,774.44	-30.47	267.00	268.71	1.23	1.23	-0.08
1,905.00	22.75	94.75	1,861.51	-33.56	302.29	304.10	1.31	1.30	-0.55
1,998.00	23.00	94.35	1,947.19	-36.43	338.32	340.21	0.32	0.27	-0.43
2,091.00	23.42	93.84	2,032.67	-39.04	374.88	376.81	0.50	0.45	-0.55
2,124.00	23.34	94.01	2,062.96	-39.94	387.95	389.88	0.32	-0.24	0.52
2,253.00	23.13	93.03	2,181.50	-43.06	438.74	440.66	0.34	-0.16	-0.76
2,347.00	23.72	94.85	2,267.75	-45.64	476.02	477.96	0.99	0.63	1.94
2,444.00	25.22	97.81	2,356.04	-50.10	515.93	518.12	2.00	1.55	3.05
2,541.00	25.67	100.53	2,443.63	-56.74	557.06	559.77	1.29	0.46	2.80
2,639.00	22.79	100.02	2,532.99	-63.93	596.63	599.92	2.95	-2.94	-0.52
2,736.00	22.63	101.65	2,622.47	-70.96	633.41	637.30	0.67	-0.16	1.68
2,830.00	23.01	102.94	2,709.11	-78.73	669.03	673.61	0.67	0.40	1.37
2,928.00	24.47	101.87	2,798.82	-87.20	707.56	712.91	1.55	1.49	-1.09
3,025.00	24.51	94.55	2,887.11	-92.92	747.29	753.04	3.13	0.04	-7.55
3,123.00	24.74	90.69	2,976.20	-94.78	788.06	793.72	1.66	0.23	-3.94
3,220.00	25.40	92.21	3,064.07	-95.83	829.14	834.60	0.95	0.68	1.57
3,317.00	23.67	96.49	3,152.31	-98.83	869.28	874.80	2.56	-1.78	4.41
3,415.00	23.33	97.47	3,242.18	-103.58	908.07	913.88	0.53	-0.35	1.00
3,511.00	25.09	97.93	3,329.74	-108.86	947.08	953.24	1.84	1.83	0.48
3,608.00	27.44	97.62	3,416.72	-114.66	989.61	996.16	2.43	2.42	-0.32
3,707.00	27.02	96.92	3,504.74	-120.40	1,034.54	1,041.46	0.53	-0.42	-0.71
3,804.00	26.03	97.44	3,591.53	-125.81	1,077.52	1,084.78	1.05	-1.02	0.54
3,901.00	25.28	97.92	3,678.97	-131.42	1,119.14	1,126.77	0.80	-0.77	0.49
3,995.00	22.99	97.89	3,764.75	-136.70	1,157.21	1,165.20	2.44	-2.44	-0.03
4,088.00	20.14	99.55	3,851.23	-141.85	1,190.99	1,199.37	3.13	-3.06	1.78
4,181.00	18.26	98.21	3,939.05	-146.59	1,221.20	1,229.94	2.08	-2.02	-1.44
4,275.00	17.95	98.02	4,028.40	-150.72	1,250.12	1,259.15	0.34	-0.33	-0.20
4,381.00	16.91	95.51	4,129.53	-154.47	1,281.64	1,290.89	1.21	-0.98	-2.37
4,474.00	15.03	93.58	4,218.94	-156.53	1,307.14	1,316.44	2.10	-2.02	-2.08
4,567.00	12.81	91.71	4,309.20	-157.59	1,329.49	1,338.74	2.44	-2.39	-2.01
4,660.00	12.60	92.96	4,399.93	-158.42	1,349.92	1,359.12	0.37	-0.23	1.34
4,754.00	10.36	92.55	4,492.04	-159.33	1,368.62	1,377.78	2.36	-2.36	-0.44
4,848.00	8.08	87.70	4,584.81	-159.44	1,383.69	1,392.74	2.58	-2.45	-5.16
4,942.00	6.60	77.59	4,678.05	-158.01	1,395.57	1,404.34	2.08	-1.57	-10.76
5,034.00	4.03	82.91	4,769.64	-156.48	1,403.94	1,412.45	2.84	-2.79	5.78
5,128.00	2.01	76.95	4,863.51	-155.70	1,408.82	1,417.20	2.17	-2.15	-6.34
5,221.00	1.64	88.92	4,956.46	-155.30	1,411.74	1,420.04	0.57	-0.40	12.87
5,315.00	1.53	90.65	5,050.42	-155.29	1,414.34	1,422.62	0.13	-0.12	1.84
5,408.00	1.48	97.83	5,143.39	-155.47	1,416.77	1,425.05	0.21	-0.05	7.72
5,501.00	1.29	107.03	5,236.37	-155.94	1,418.96	1,427.29	0.31	-0.20	9.89
5,591.00	1.41	107.49	5,326.34	-156.57	1,420.99	1,429.38	0.13	0.13	0.51
5,684.00	1.62	112.50	5,419.31	-157.42	1,423.29	1,431.77	0.27	0.23	5.39
5,779.00	1.26	110.71	5,514.28	-158.30	1,425.51	1,434.08	0.38	-0.38	-1.88
5,875.00	1.49	122.57	5,610.25	-159.34	1,427.55	1,436.24	0.38	0.24	12.35
5,980.00	1.47	130.38	5,715.22	-160.95	1,429.73	1,438.60	0.19	-0.02	7.44
6,072.00	1.40	131.16	5,807.19	-162.46	1,431.47	1,440.52	0.08	-0.08	0.85
6,167.00	2.13	127.69	5,902.14	-164.30	1,433.74	1,443.01	0.78	0.77	-3.65
6,261.00	2.25	126.88	5,996.07	-166.47	1,436.60	1,446.12	0.13	0.13	-0.86
6,354.00	2.27	132.66	6,089.00	-168.82	1,439.42	1,449.21	0.25	0.02	6.22
6,447.00	2.01	130.96	6,181.93	-171.13	1,442.00	1,452.07	0.29	-0.28	-1.83
6,541.00	2.32	133.74	6,275.87	-173.53	1,444.62	1,454.97	0.35	0.33	2.96

Scientific Drilling Survey Report

Company:	Enduring Resources	Local Co-ordinate Reference:	Well Archy Bench 11-22-22-2 From AB 11-22-12-2
Project:	Uintah County, UT NAD 83	TVD Reference:	GL 5086.7 & RKB 16' @ 5102.70ft (Caza 79)
Site:	Archy Bench 11-22-12-2 Pad	MD Reference:	GL 5086.7 & RKB 16' @ 5102.70ft (Caza 79)
Well:	Archy Bench 11-22-22-2 From AB 11-22-1	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	MultiUserEDM

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,634.00	2.13	132.61	6,368.80	-176.00	1,447.25	1,457.89	0.21	-0.20	-1.22
6,727.00	2.42	136.75	6,461.72	-178.60	1,449.87	1,460.82	0.36	0.31	4.45
6,820.00	2.17	129.54	6,564.65	-181.15	1,452.57	1,463.82	0.41	-0.27	-7.75
6,913.00	2.41	128.41	6,647.58	-183.49	1,455.46	1,466.98	0.26	0.26	-1.22
6,944.00	2.49	133.77	6,678.55	-184.36	1,456.46	1,468.08	0.78	0.26	17.29
7,004.00	2.49	133.77	6,738.49	-186.16	1,458.34	1,470.18	0.00	0.00	0.00

Projection To TD - BHL=7135864.99, 2222707.32

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
AB 11-22-22-2 Drilling V - hit/miss target - Shape	0.00	0.00	7,186.00	43.54	1,390.35	7,136,093.06	2,222,634.03	39° 53' 30.800 N	109° 25' 29.111 W
- survey misses by 506.71ft at 7004.00ft MD (6738.49 TVD, -186.16 N, 1458.34 E) - Rectangle (sides W400.00 H406.00 D0.00)									
East Hard Line	0.00	0.00	4,250.00	43.54	1,590.35	7,136,097.69	2,222,833.98	39° 53' 30.800 N	109° 25' 26.545 W
- survey misses by 334.68ft at 4567.00ft MD (4309.20 TVD, -157.69 N, 1329.49 E) - Rectangle (sides W2,400.00 H0.00 D2,935.00)									
AB 11-22-22-2 PBHL	0.00	0.00	7,580.00	-158.40	1,385.72	7,135,893.06	2,222,634.03	39° 53' 28.624 N	109° 25' 29.170 W
- survey misses by 845.16ft at 7004.00ft MD (6738.49 TVD, -186.16 N, 1458.34 E) - Point									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
510.00	509.97	-4.42	-2.57	First SDI Survey
7,004.00	6,738.49	-186.16	1,458.34	Projection To TD
7,004.00	6,738.49	-186.16	1,458.34	BHL=7135864.99, 2222707.32

Checked By: _____ Approved By: _____ Date: _____

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DIV. OF OIL, GAS & MINING

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

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-47075
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: 2367' FNL - 575' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 2 11S 22E S		8. WELL NAME and NUMBER: Archy Bench 11-22-22-2
PHONE NUMBER: (303) 350-5719		9. API NUMBER: 4304736786
COUNTY: Uintah STATE: UTAH		10. FIELD AND POOL, OR WILDCAT: Undesigned

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: 12/2/2007	<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 checked="" 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>First Gas Sales.</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.

Notice of first gas sales on December 2, 2007.

NAME (PLEASE PRINT) <u>Alvin R. (Al) Arlian</u>	TITLE <u>Landman - Regulatory Specialist</u>
SIGNATURE	DATE <u>12/6/2007</u>

CONFIDENTIAL

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

AMENDED REPORT [] FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL [] GAS WELL [x] DRY [] OTHER []
b. TYPE OF WORK: NEW WELL [x] HORIZ. LATS. [] DEEP-EN [] RE-ENTRY [] DIFF. RESVR. [] OTHER []

2. NAME OF OPERATOR: Enduring Resources, LLC

3. ADDRESS OF OPERATOR: 475 17th St, Suite 1500 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 573-1222

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 2367' FNL - 575' FWL
AT TOP PRODUCING INTERVAL, REPORTED BELOW 2280' FNL-1970' FWL, SENW, Sec2, 11S, 22E
AT TOTAL DEPTH: 2280' FNL-1970' FWL, SENW, Sec2, 11S, 22E per DKK

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47075

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

7. UNIT or CA AGREEMENT NAME: N/A

8. WELL NAME and NUMBER: Archy Bench 11-22-22-02

9. API NUMBER: 4304736786

10. FIELD AND POOL, OR WILDCAT: Undesignated

11. QTR/QTR, SECTION, TOWNSHIP RANGE, MERIDIAN: SWNW 2 11S 22E S

12. COUNTY: Uintah 13. STATE: UTAH

14. DATE SPUDDED: 4/8/2007 15. DATE T.D. REACHED: 4/29/2007 16. DATE COMPLETED: 12/2/2007 ABANDONED [] READY TO PRODUCE [x] 17. ELEVATIONS (DF, RKB, RT, GL): 5105 RKB

18. TOTAL DEPTH: MD 7,004 TVD 6,738 19. PLUG BACK T.D.: MD 6,979 TVD 6,713 20. IF MULTIPLE COMPLETIONS, HOW MANY? * 7 21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
Previously submitted.
Pex, LD, CN, AIT
23. WAS WELL CORED? NO [x] YES [] (Submit analysis)
WAS DST RUN? NO [x] YES [] (Submit report)
DIRECTIONAL SURVEY? NO [] YES [x] (Submit copy)

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

Table with columns: 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

25. TUBING RECORD
Table with columns: SIZE, DEPTH SET (MD), PACKER SET (MD)

26. PRODUCING INTERVALS
Table with columns: FORMATION NAME, TOP (MD), BOTTOM (MD), TOP (TVD), BOTTOM (TVD), INTERVAL (Top/Bot - MD), SIZE, NO HOLES, PERFORATION STATUS

27. PERFORATION RECORD
Table with columns: INTERVAL (Top/Bot - MD), SIZE, NO HOLES, PERFORATION STATUS

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

Table with columns: DEPTH INTERVAL, AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS: [] ELECTRICAL/MECHANICAL LOGS [] GEOLOGIC REPORT [] DST REPORT [x] DIRECTIONAL SURVEY [] SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION [] CORE ANALYSIS [] OTHER:
30. WELL STATUS: Producing

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31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 12/2/2007		TEST DATE: 12/8/2007		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 491	WATER – BBL: 0	PROD. METHOD: flowing
CHOKE SIZE: 64/64	TBG. PRESS. 1,350	CSG. PRESS. 1,750	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 491	WATER – BBL: 0	INTERVAL STATUS: Producing

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.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

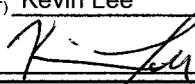
Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Green River	550
				Wasatch	3.300
				Mesaverde	5.617

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) Kevin Lee TITLE Engineering Tech
 SIGNATURE  DATE 12/11/2007

This report must be submitted within 30 days of

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

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

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

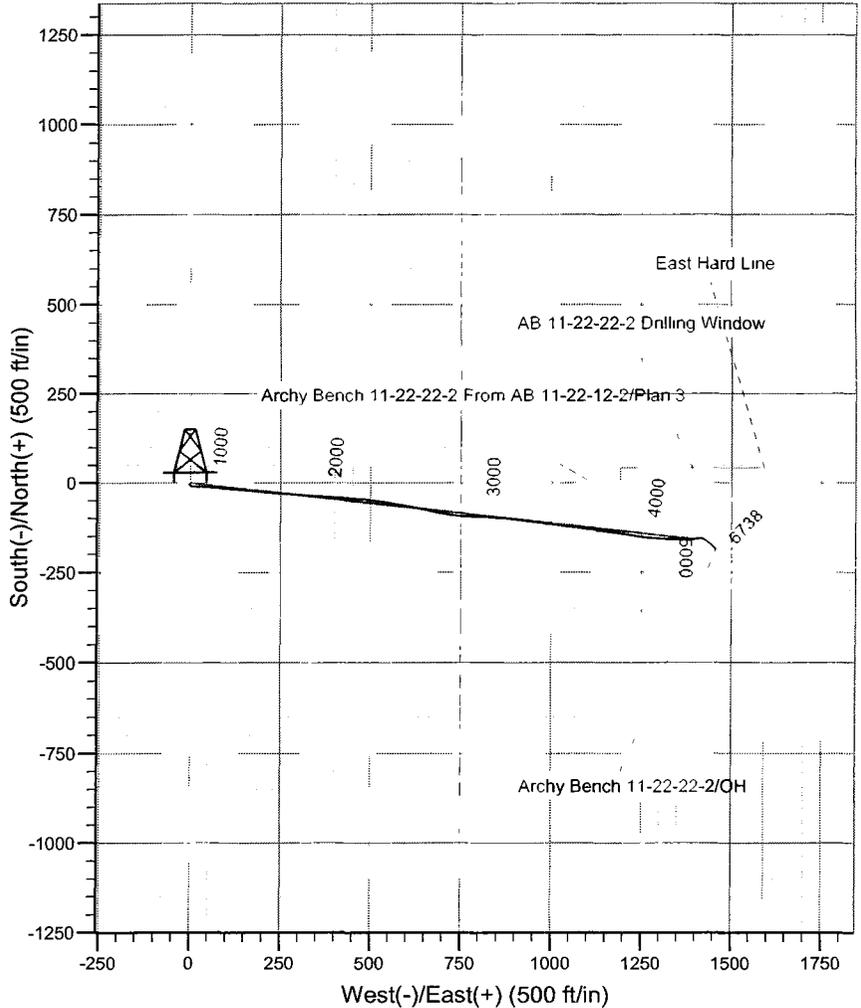
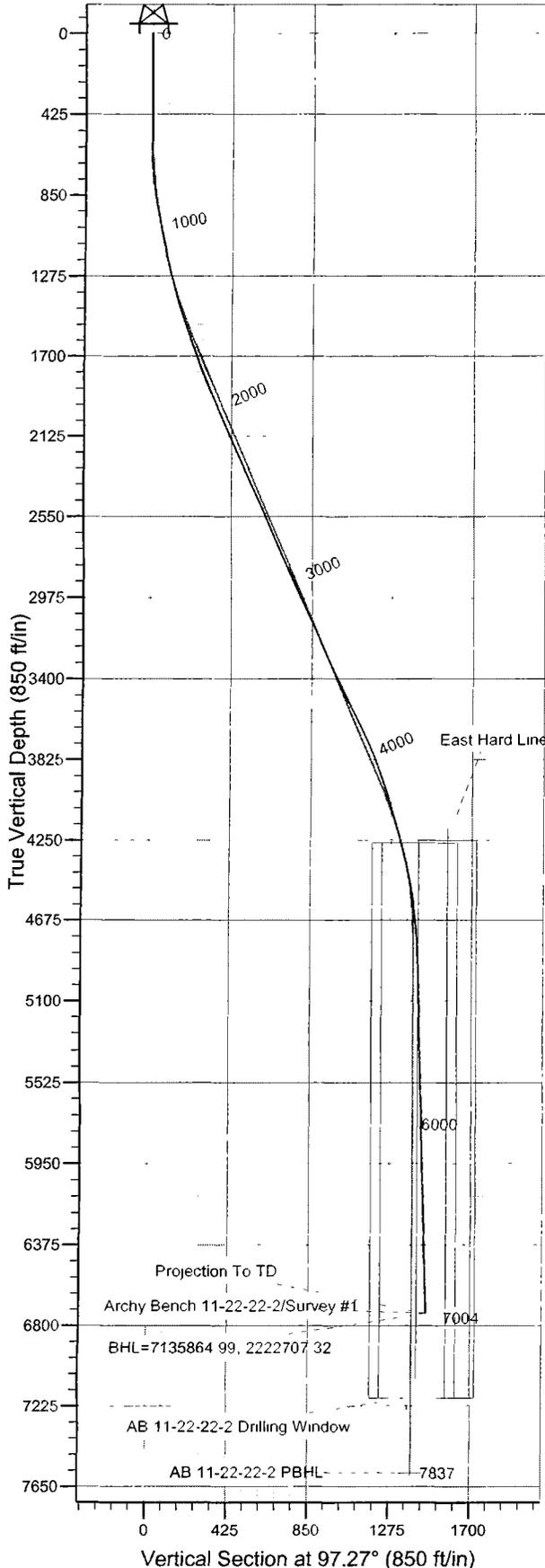
Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801



Scientific Drilling
Rocky Mountain Operations

Project: Uintah County, UT NAD 83
 Site: Archy Bench 11-22-12-2 Pad
 Well: Archy Bench 11-22-22-2 From AB 11-22-12-2
 Wellbore: OH
 Design: OH

Enduring Resources



WELL DETAILS: Archy Bench 11-22-22-2 From AB 11-22-12-2

Ground Level: GL 5086.7 & RKB 16' @ 5102.70ft (Caza 79)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	7136017.35	2221245.06	39° 53' 30.170 N	109° 25' 46.950 W

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Archy Bench 11-22-22-2 From AB 11-22-12-2, True North
 Vertical (TVD) Reference: GL 5086.7 & RKB 16' @ 5102.70ft (Caza 79)
 Section (VS) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: GL 5086.7 & RKB 16' @ 5102.70ft (Caza 79)
 Calculation Method: Minimum Curvature
 Local North: True North
 Location: Sec. 2 T11S R22E

PROJECT DETAILS: Uintah County, UT NAD 83

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Utah Central Zone

Survey: Survey #1 (Archy Bench 11-22-22-2/OH)

Created By: Rex Hall Date: 2007-04-30

Scientific Drilling

Survey Report

Company:	Enduring Resources	Local Co-ordinate Reference:	Well Archy Bench 11-22-22-2 From AB 11-22-12-2
Project:	Utah County, UT NAD 83	TVD Reference:	GL 5086.7 & RKB 16' @ 5102.70ft (Caza 79)
Site:	Archy Bench 11-22-12-2 Pad	MD Reference:	GL 5086.7 & RKB 16' @ 5102.70ft (Caza 79)
Well:	Archy Bench 11-22-22-2 From AB 11-22-1	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	MultiUserEDM

Project	Utah County, UT NAD 83		
Map System	US State Plane 1983	System Datum	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site		Archy Bench 11-22-12-2 Pad, Sec 2 T11S R22E			
Site Position		Northing	7,136,017.35 ft	Latitude	39° 53' 30.170 N
From:	Lat/Long	Easting:	2,221,245.06 ft	Longitude:	109° 25' 46.950 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.33 °

Well		Archy Bench 11-22-22-2 From AB 11-22-12-2, 2367' FNL & 575' FWL				
Well Position	+N/-S	0.00 ft	Northing	7,136,017.35 ft	Latitude:	39° 53' 30.170 N
	+E/-W	0.00 ft	Easting:	2,221,245.06 ft	Longitude:	109° 25' 46.950 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,102.70 ft	

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2007-04-09	11.55	65.91	52,715

Design		OH			
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	97.27	

Survey Program		Date 2007-04-30			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
510.00	7,004.00	Survey #1 (OH)	MWD	MWD - Standard	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
510.00	1.15	210.18	509.97	-4.42	-2.57	-1.99	0.23	0.23	0.00	
First SDI Survey										
603.00	0.98	182.62	602.95	-6.03	-3.08	-2.29	0.57	-0.18	-29.63	
696.00	4.22	105.17	695.86	-7.72	0.19	1.16	4.43	3.48	-83.28	
788.00	6.33	99.93	787.46	-9.48	8.45	9.58	2.35	2.29	-5.70	
879.00	9.38	91.63	877.60	-10.55	20.81	21.98	3.57	3.35	-9.12	
972.00	10.81	91.07	969.16	-10.93	37.11	38.19	1.54	1.54	-0.60	
1,065.00	12.07	93.05	1,060.31	-11.61	55.54	56.56	1.42	1.35	2.13	
1,158.00	13.10	95.35	1,151.08	-13.11	75.74	76.79	1.23	1.11	2.47	
1,251.00	13.54	94.67	1,241.57	-14.98	97.08	98.20	0.50	0.47	-0.73	
1,344.00	14.55	93.42	1,331.79	-16.56	119.60	120.73	1.13	1.09	-1.34	
1,437.00	16.97	95.81	1,421.29	-18.64	144.76	145.96	2.69	2.60	2.57	

Scientific Drilling

Survey Report

Company	Enduring Resources	Local Co-ordinate Reference:	Well Archy Bench 11-22-22-2 From AB 11-22-12-2
Project	Uintah County, UT NAD 83	TVD Reference	GL 5086 7 & RKB 16' @ 5102.70ft (Caza 79)
Site	Archy Bench 11-22-12-2 Pad	MD Reference	GL 5086 7 & RKB 16' @ 5102.70ft (Caza 79)
Well	Archy Bench 11-22-22-2 From AB 11-22-1	North Reference	True
Wellbore:	OH	Survey Calculation Method	Minimum Curvature
Design	OH	Database:	MultiUserEDM

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1 531.00	17.92	96.76	1 510.97	-21.73	172.77	174.13	1.06	1.01	1.01
1,625.00	19.17	94.59	1,600.08	-24.66	202.52	204.01	1.52	1.33	-2.31
1,718.00	20.39	95.34	1,687.60	-27.39	233.87	235.46	1.34	1.31	0.81
1,811.00	21.53	95.27	1,774.44	-30.47	267.00	268.71	1.23	1.23	-0.08
1,905.00	22.75	94.75	1,861.51	-33.56	302.29	304.10	1.31	1.30	-0.55
1,998.00	23.00	94.35	1,947.19	-36.43	338.32	340.21	0.32	0.27	-0.43
2,091.00	23.42	93.84	2,032.67	-39.04	374.88	376.81	0.50	0.45	-0.55
2,124.00	23.34	94.01	2,062.96	-39.94	387.95	389.88	0.32	-0.24	0.52
2,253.00	23.13	93.03	2,181.50	-43.06	438.74	440.66	0.34	-0.16	-0.76
2,347.00	23.72	94.85	2,267.75	-45.64	476.02	477.96	0.99	0.63	1.94
2,444.00	25.22	97.81	2,356.04	-50.10	515.93	518.12	2.00	1.55	3.05
2,541.00	25.67	100.53	2,443.63	-56.74	557.06	559.77	1.29	0.46	2.80
2,639.00	22.79	100.02	2,532.99	-63.93	596.63	599.92	2.95	-2.94	-0.52
2,736.00	22.63	101.65	2,622.47	-70.96	633.41	637.30	0.67	-0.16	1.68
2,830.00	23.01	102.94	2,709.11	-78.73	669.03	673.61	0.67	0.40	1.37
2,928.00	24.47	101.87	2,798.82	-87.20	707.56	712.91	1.55	1.49	-1.09
3,025.00	24.51	94.55	2,887.11	-92.92	747.29	753.04	3.13	0.04	-7.55
3,123.00	24.74	90.69	2,976.20	-94.78	788.06	793.72	1.66	0.23	-3.94
3,220.00	25.40	92.21	3,064.07	-95.83	829.14	834.60	0.95	0.68	1.57
3,317.00	23.67	96.49	3,152.31	-98.83	869.28	874.80	2.56	-1.78	4.41
3,415.00	23.33	97.47	3,242.18	-103.58	908.07	913.88	0.53	-0.35	1.00
3,511.00	25.09	97.93	3,329.74	-108.86	947.08	953.24	1.84	1.83	0.48
3,608.00	27.44	97.62	3,416.72	-114.66	989.61	996.16	2.43	2.42	-0.32
3,707.00	27.02	96.92	3,504.74	-120.40	1,034.54	1,041.46	0.53	-0.42	-0.71
3,804.00	26.03	97.44	3,591.53	-125.81	1,077.52	1,084.78	1.05	-1.02	0.54
3,901.00	25.28	97.92	3,678.97	-131.42	1,119.14	1,126.77	0.80	-0.77	0.49
3,995.00	22.99	97.89	3,764.75	-136.70	1,157.21	1,165.20	2.44	-2.44	-0.03
4,088.00	20.14	99.55	3,851.23	-141.85	1,190.99	1,199.37	3.13	-3.06	1.78
4,181.00	18.26	98.21	3,939.05	-146.59	1,221.20	1,229.94	2.08	-2.02	-1.44
4,275.00	17.95	98.02	4,028.40	-150.72	1,250.12	1,259.15	0.34	-0.33	-0.20
4,381.00	16.91	95.51	4,129.53	-154.47	1,281.64	1,290.89	1.21	-0.98	-2.37
4,474.00	15.03	93.58	4,218.94	-156.53	1,307.14	1,316.44	2.10	-2.02	-2.08
4,567.00	12.81	91.71	4,309.20	-157.59	1,329.49	1,338.74	2.44	-2.39	-2.01
4,660.00	12.60	92.96	4,399.93	-158.42	1,349.92	1,359.12	0.37	-0.23	1.34
4,754.00	10.38	92.55	4,492.04	-159.33	1,368.62	1,377.78	2.36	-2.36	-0.44
4,848.00	8.08	87.70	4,584.81	-159.44	1,383.69	1,392.74	2.58	-2.45	-5.16
4,942.00	6.60	77.59	4,678.05	-158.01	1,395.57	1,404.34	2.08	-1.57	-10.76
5,034.00	4.03	82.91	4,769.64	-156.48	1,403.94	1,412.45	2.84	-2.79	5.78
5,128.00	2.01	76.95	4,863.51	-155.70	1,408.82	1,417.20	2.17	-2.15	-6.34
5,221.00	1.64	88.92	4,956.46	-155.30	1,411.74	1,420.04	0.57	-0.40	12.87
5,315.00	1.53	90.65	5,050.42	-155.29	1,414.34	1,422.62	0.13	-0.12	1.84
5,408.00	1.48	97.83	5,143.39	-155.47	1,416.77	1,425.05	0.21	-0.05	7.72
5,501.00	1.29	107.03	5,236.37	-155.94	1,418.96	1,427.29	0.31	-0.20	9.89
5,591.00	1.41	107.49	5,326.34	-156.57	1,420.99	1,429.38	0.13	0.13	0.51
5,684.00	1.62	112.50	5,419.31	-157.42	1,423.29	1,431.77	0.27	0.23	5.39
5,779.00	1.26	110.71	5,514.28	-158.30	1,425.51	1,434.08	0.38	-0.38	-1.88
5,875.00	1.49	122.57	5,610.25	-159.34	1,427.55	1,436.24	0.38	0.24	12.35
5,980.00	1.47	130.38	5,715.22	-160.95	1,429.73	1,438.60	0.19	-0.02	7.44
6,072.00	1.40	131.16	5,807.19	-162.46	1,431.47	1,440.52	0.08	-0.08	0.85
6,167.00	2.13	127.69	5,902.14	-164.30	1,433.74	1,443.01	0.78	0.77	-3.65
6,261.00	2.25	126.88	5,996.07	-166.47	1,436.60	1,446.12	0.13	0.13	-0.86
6,354.00	2.27	132.66	6,089.00	-168.82	1,439.42	1,449.21	0.25	0.02	6.22
6,447.00	2.01	130.96	6,181.93	-171.13	1,442.00	1,452.07	0.29	-0.28	-1.83
6,541.00	2.32	133.74	6,275.87	-173.53	1,444.62	1,454.97	0.35	0.33	2.96

Scientific Drilling

Survey Report

Company	Enduring Resources	Local Co-ordinate Reference	Well Archy Bench 11-22-22-2 From AB 11-22-12-2
Project	Uintah County, UT NAD 83	TVD Reference	GL 5086.7 & RKB 16' @ 5102.70ft (Caza 79)
Site	Archy Bench 11-22-12-2 Pad	MD Reference	GL 5086.7 & RKB 16' @ 5102.70ft (Caza 79)
Well	Archy Bench 11-22-22-2 From AB 11-22-1	North Reference	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design	OH	Database:	MultiUserEDM

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
6,634.00	2.13	132.61	6,368.80	-176.00	1,447.25	1,457.89	0.21	-0.20	-1.22	
6,727.00	2.42	136.75	6,461.72	-178.60	1,449.87	1,460.82	0.36	0.31	4.45	
6,820.00	2.17	129.54	6,554.65	-181.15	1,452.57	1,463.82	0.41	-0.27	-7.75	
6,913.00	2.41	128.41	6,647.58	-183.49	1,455.46	1,466.98	0.26	0.26	-1.22	
6,944.00	2.49	133.77	6,678.55	-184.36	1,456.46	1,468.08	0.78	0.26	17.29	
7,004.00	2.49	133.77	6,738.49	-186.16	1,458.34	1,470.18	0.00	0.00	0.00	
Projection To TD - BHL=7135864.99, 2222707.32										

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
AB 11-22-22-2 Drilling V - hit/miss target - Shape	0.00	0.00	7,185.00	43.54	1,390.35	7,136,093.06	2,222,634.03	39° 53' 30.600 N	109° 25' 29.111 W	
- survey misses by 506.71ft at 7004.00ft MD (6738.49 TVD, -186.16 N, 1458.34 E) - Rectangle (sides W400.00 H400.00 D0.00)										
East Hard Line	0.00	0.00	4,250.00	43.54	1,590.35	7,136,097.69	2,222,833.98	39° 53' 30.600 N	109° 25' 26.545 W	
- survey misses by 334.68ft at 4567.00ft MD (4309.20 TVD, -157.59 N, 1329.49 E) - Rectangle (sides W2,400.00 H0.00 D2,935.00)										
AB 11-22-22-2 PBHL	0.00	0.00	7,580.00	-156.40	1,385.72	7,135,893.06	2,222,634.03	39° 53' 28.624 N	109° 25' 29.170 W	
- survey misses by 845.16ft at 7004.00ft MD (6738.49 TVD, -186.16 N, 1458.34 E) - Point										

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
510.00	509.97	-4.42	-2.57	First SDI Survey	
7,004.00	6,738.49	-186.16	1,458.34	Projection To TD	
7,004.00	6,738.49	-186.16	1,458.34	BHL=7135864.99, 2222707.32	

Checked By: _____ Approved By: _____ Date: _____



Enduring Resources, LLC

475 17th St. - Suite 1500
 Denver, CO 80202
 (303) 573-1222

Drilling Chronological
Regulatory

Well Name: ARCHY BENCH 11-22-22-02					
Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern
Project AFE:	DV00016	AFEs Associated:	/ / /		

Daily Summary					
Activity Date :	3/15/2007	Days From Spud :	0	Current Depth :	40 Ft
24 Hr. Footage Made :		40 Ft			
Rig Company :			Rig Name:		
Formation :			Weather:		

Operations						
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	5 00	24	SDFN	0	0	NIH
11:00	3.00	02	MI PETE MARTIN AND DRILL 40 FT OF 20" CONDUCTOR HOLE. RUN 40 FT OF 14" CONDUCTOR AND CEMENT WITH 3 YARDS OF READYMIX	0	40	NIH
14.00	16.00	24	SDFN	40	40	NIH
Total:	24 00					

Daily Summary					
Activity Date :	3/20/2007	Days From Spud :	0	Current Depth :	500 Ft
24 Hr. Footage Made :		460 Ft			
Rig Company :			Rig Name:		
Formation :			Weather:		

Operations						
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6 00	11.00	02	MI BILL JRS and drill 500 ft of 12 1/4" surface hole	40	500	NIH
Total:	11.00					

Daily Summary					
Activity Date	4/8/2007	Days From Spud :	0	Current Depth :	500 Ft
24 Hr. Footage Made :		0 Ft			
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79	
Formation :			Weather:		

Operations						
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	01	GET RIG READY TO SKID	500	500	NIH
8:00	6.00	01	R.W. JONES SKID RIG 20' TO NEW LOC.	500	500	NIH
14:00	4.00	01	RIG UP	500	500	NIH
18:00	4.00	01	RIG UP	500	500	NIH
22:00	4.50	01	INSTALL RISER AND ROTATING HEAD	500	500	NIH
2:30	3.50	01	RIG UP	500	500	NIH
Total:	24.00					

Well Name:ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County,State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/9/2007	Days From Spud :	0	Current Depth :	605 Ft	24 Hr. Footage Made :	105 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :				Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	6.50	01	RIG UP	500	500	NIH
12:30	0.50	21	HELD SAFETY MEETING AND SPUD MEETING W/ CREWS	500	500	NIH
13:00	5.00	06	P/U 12.25 BIT AND DIR/ B.H.A. AND TIH	500	500	NIH
18:00	1.50	06	RIH W/ HEAVYWEIGHT, TAG SHOE @ 515'	500	500	NIH
19:30	1.00	07	SERVICE RIG	500	500	NIH
20:30	0.50	21	SPUD MEETING AND SAFETY MEETING W/ NIGHT CREW	500	500	1
21:00	0.50	21	INSTALL ROTATING RUBBER	500	500	1
21:30	3.50	02	DRILL CEMENT AND FLOAT	500	560	1
1:00	2.50	02	DRILL F/ 560' T/ 591'	560	591	1
3:30	2.50	20	DRIECTIONAL WORK AND SURVEY M.D. @ 510' = INC= 1.15 W/ AZM= 210.18 AND SLIDE F/ 591' TO 605'	591	605	1

Total: 24.00

Daily Summary

Activity Date :	4/10/2007	Days From Spud :	2	Current Depth :	1160 Ft	24 Hr. Footage Made :	555 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :				Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	7.00	02	DRILL AND SLIDE F/ 605' T/ 746'	605	746	1
13:00	0.50	07	SERVICE RIG	746	746	1
13:30	3.50	02	DRILL AND SLIDE F/ 746' T/ 898'	746	898	1
17:00	1.00	10	TOTAL SURVEYS	898	898	1
18:00	12.00	02	DRILL AND SLIDE F/ 898' T/ 1160'	898	1160	1

Total: 24.00

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
700	10:30	0.00	0.00	0	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	8.30	0.00	0.10	0.50	900	400	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0	65												

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/11/2007	Days From Spud :	3	Current Depth :	1736 Ft	24 Hr. Footage Made :	576 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :				Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	7.50	02	DRILL AND SLIDE F/ 1160' T/ 1331'	1160	1331	1
13:30	0.50	07	SERVICE RIG	1331	1331	1
14:00	4.00	02	DRILL AND SLIDE F/ 1331 T/ 1424	1331	1424	1
18:00	12.00	02	DRILL AND SLIDE F/ 1424 T/ 1736	1424	1736	1
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
1300	11:00	0.00	0.00	0	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	8.40	0.00	0.05	0.45	800	360	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0	75												

Daily Summary

Activity Date :	4/12/2007	Days From Spud :	4	Current Depth :	2035 Ft	24 Hr. Footage Made :	299 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Green River			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	3.50	20	Drill and Slide F/1738' to 1798' (60')	1736	1798	1
9:30	0.50	07	Lubricate	1798	1798	1
10:00	10.50	20	Drill and Slide F/1798 to 2035' (237')	1798	2035	1
20:30	1.50	05	Circ (2) high vis sweeps to clean hole	2035	2035	1
22:00	1.00	06	Short Trip to 500' - No tight spots - noted 2" flow - In 15 mins we gained 9 bbls with no slowdown	2035	2035	1
23:00	1.50	06	Finish ST to bottom with no tight spot or fill	2035	2035	1
0:30	4.50	05	Checked for flow - Still same rate flow - Start mudding up to increase mwt from 8.4 to 8.6 to stop flow	2035	2035	1
5:00	0.25	06	Start TOOH 6 stands to run casing - still flowing same - received call from Charly Parker - Need to go back to bottom to drill to a point where we are sure we are below the water flow in good solid formation - Will monitor flow and drill rate to establish casing set point with good integrity.	2035	2035	1
5:15	0.75	06	Run back to bottom - Prepare to drill	2035	2035	1
Total:	24 00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
1850	10:00	8.40	8.40	29	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	10.10	0.00	0.10	0.30	600	240	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0	75												

Well Name: ARCHY BENCH 11-22-22-02																	
Field Name:		Utah			S/T/R:		2/T11S/R22E			County, State:		UINTAH, UT					
Operator:		Enduring Resources LLC			Location Desc:		SENW-2-11S-22E			District:		Northern					
Daily Summary																	
Activity Date :		4/13/2007			Days From Spud :		5		Current Depth :		2220 Ft		24 Hr. Footage Made :		185 Ft		
Rig Company :		ENSIGN USA					Rig Name:		ENSIGN 79								
Formation :		Green River					Weather:										
Operations																	
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run		
6:00	0.50	06	FINISHED TRIPPING IN HOLE - TAGGED BOTTOM WITH NO FILL.										2035	2035	1		
6:30	8.00	20	DRILL ACTUAL F/2035 T/2220 - PUMPED SWEEP										2035	2220	1		
14:30	2.00	06	TOOH TO TOOLS										2220	2220	1		
16:30	1.00	01	RIG UP LAYDOWN TRUCK AND HELD SAFETY MEETING										2220	2220	1		
17:30	3.00	21	LAYDOWN DIRECTIONAL TOOLS WITH WESTATES										2220	2220	1		
20:30	7.00	12	RAN 50 JOINTS OF 9 5/8", J-55, 36# , STC AS FOLLOWS: WELDED] FLOAT SHOE TO 1ST JOINT (SEE NOTES) Ran 49 joints into the hole and hit bridge @ 2150' - Washed down to TD and tagged bottom @ 2220' with joint #51 - Layed down joint #51, made up 9 5/8" head and nipple to joint #50 - made up landing joint and set in 14" support ring with WHI - PU one foot to circ										2220	2220	1		
3:30	2.50	05	Circ bottoms up - Wait on water (see notes)										2220	2220	NIH		
Total		24.00															
Mud Properties																	
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand		
2035	10:00	8.40	8.40	29	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%		
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss			
0.0	10.10	0.00	0.10	0.30	600	240	0	0.00	0.00	0	0	0.00		0			
Water Loss	LCM	ECD	FL Temp	UFT	Remarks												
0	0.0	0.0	75														

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary							
Activity Date :	4/14/2007	Days From Spud :	6	Current Depth :	2220 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :	Green River		Weather:				

Operations						
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.50	12	Rig up Halliburton	2220	2220	NIH
7:30	0.50	21	Safety meeting with Halliburton and rig crew	2220	2220	NIH
8:00	3.00	12	Cement with Halliburton as follows: Pumped ahead 20 bbls fresh H2O with green dye - Pumped 565 sks (144 bbls) 14.5#, 1.15 yld, 6.89 gal/sk water TYPE III Lead Cement - Pumped 210 sks (45 bbls) 15.6#, 1.20 yld, 5.2 gal/sk water Class V Lead Cement - Dropped plug and displaced with 167.5 bbls water - Bumped plug with 2725 psi and floats held - No cement to surface. Volume of returns decreased after 65 bbls into displacement along with significant spike in pumping pressure - Calc reveal that cement level is at about 1300' - probably at weak water zone	2220	2220	NIH
11:00	0.50	12	Attempted to set 9 5/8" csg head in 14" support ring - Casing would not go down	2220	2220	NIH
11:30	0.50	12	Rig down Halliburton - Noted that water was still flowing about 4 bbls/hr	2220	2220	NIH
12:00	6.00	21	Nipple down conductor - wait on welder to cut off head	2220	2220	NIH
18:00	0.50	22	Welder attempted to to cut off 9 5/8" casing - fire flash as soon as he started cutting 14" conductor	2220	2220	NIH
18:30	8.50	05	Condition mud to 12.5#, 50 vis to kill water/gas flow - Also ran 200' of 1inch in backside of 9 5/8"	2220	2220	NIH
3:00	1.00	23	Pumped 70 bbls of kill mud around to surface - return mud was cut to 11.2 wt - still have water/gas flow	2220	2220	NIH
4.00	2.00	05	Mix 150 bbl 14 wt, 50 vis kill mud	2220	2220	NIH
Total:	24.00					

Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
2220		12.50	11.20				/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0		0.00					0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	UFT	Remarks											
0	0.0	0.0			No report from MI Swaco - Did not come by rig											

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/15/2007	Days From Spud :	7	Current Depth :	2220 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :	Green River		Weather:				

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.00	05	Condition mud to 14# MW, 50 Vis to try 2nd attempt to kill well	2220	2220	NIH
10:00	2.00	21	Inserted trash pump suction hose 5 foot into annulus to reduce water flow level (below cutting level) Nalco welders cut 14" conductor, installed 2" nipple on one side and a 1" nipple on the opposite side - Then cut off 9 5/8" casing head - Donut shaped ring was installed to seal the annulus - Weld on new 9 5/8" head at correct elevation. Note: All this work was performed under controlled fire conditions - the gas was kept lit with a weed burner throughout the entire procedure with (2) fire monitors with fire extinguishers close by. The well was sealed and a 2" ball valve was installed to allow the annulus to drain out to the reserve pit - still flowing about 4 bbls/min	2220	2220	NIH
12:00	4.50	21	Wait on cementers to top out - Replace swivel packing - start rigging up choke lines	2220	2220	NIH
16:30	3.00	14	Nipple up BOPs - Wait on Superior Well Services	2220	2220	NIH
19:30	2.00	12	Superior Well Services on site @ 19:30 - Rig up cementers and conduct safety meeting	2220	2220	NIH
21:30	5.75	12	Performed 9 5/8" top out job as follows: Pumped ahead a 14.6# high LCM 20 bbl mud pill - Pumped 200 sks (64.1 bbls) 13.6 #, 1.8 yld, 8.3 gal/sk Class A Lead Cement with 10% Cal Seal, 2% cacl2, .25#/sk Superflake, 10#/sk Gilsonite, 3#/sk GR-1 - Pumped 31 sks (25 bbls) 12.5#, 1.98 yld, 10.5 gal/sk Class H Tail Cement with 8% gel, 10% Cal Seal, .25#/sk Superflake, 10#/sk Gilsonite, 3#/sk GR-1	2220	2220	NIH
3:15	2.75	13	Shut in with 60 psi holding steady - Start testing misc BOP items that did not interfere with cement operation	2220	2220	NIH

Total: 24.00

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2220	7:00	13.15	13.15	40	22	11	3/7/10	15.2	0.0	3	0.00	0.0%	0.0%	0.0%	0.1%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	11.10	0.80	0.90	1.90	600	80	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0			Note: This is mud on surface in tanks - building pills and drill out mud										

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date	4/16/2007	Days From Spud :	8	Current Depth :	2220 Ft	24 Hr. Footage Made :	0 Ft
Rig Company .	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Green River			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.75	12	Backside of 9 5/8" casing shut in with 60 psi holding steady	2220	2220	NIH
7:45	0.75	12	Opened 2 inch valve on 14" conductor - about 1/2 gallon cement came out - no pressure or vacuum - Superior pumped pressure back up to 100 psi for 10 mins - Held - Tied back into the sealed annulus with cement hose and opened one inch port on opposite side to vent - Pumped 1/4 bbl of cement to surface - Good top out job !!	2220	2220	NIH
8:30	1.00	12	Rig down Superior Well Services	2220	2220	NIH
9:30	1.00	21	Change out rotating head	2220	2220	NIH
10:30	4.50	15	Test BOPs as follows with B&C Quick Testers: Lower Kelly Valve, Upper Kelly Valve, Safety Valve, Inside BOP, Pipe & Blind Rams, Kill & Choke lines, Manifold, Super Choke, to 250 psi low and 3000 high for 5/10 min respectively, Tested Hydril to 250 psi low and 1500 psi high for 5/10 mins, Tested Surface Casing to 1500 psi for 30 mins, Tested Kelly back to pumps to 1200 psi for 10 mins - All held OK	2220	2220	NIH
15:00	6.00	06	Strap and PU new BHA with directional tools to 850'	2220	2220	2
21:00	1.50	06	TOOH to install wear bushing	2220	2220	2
22:30	1.50	06	Trip back into hole with BHA to 860 feet	2220	2220	2
0:00	3.00	09	Hang blocks and cut 120' drill line	2220	2220	2
3:00	1.00	21	PU 15 Load-Tabs from basket and stack on floor to install in drill string - recorded serial numbers	2220	2220	2
4:00	2.00	06	TIH with DP and installing (1) Load-Tab every 3rd joint - Tagged cement @ 2040' - Kelly Up	2220	2220	2
Total	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2220	1:00	10.30	10.30	38	20	11	3/7/10	18.0	0.0	3	0.00	12.0%	88.0%	0.0%	0.1%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	10.50	0.50	0.30	1.10	600	80	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0			This is mud blended in the pits before tripping in hole with 7 7/8" bit Rig Check @ 6 AM: MWT-10.3, Vis-38										

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/17/2007	Days From Spud :	9	Current Depth :	2856 Ft	24 Hr Footage Made :	639 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Green River			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	3.50	21	Drilling cement from 2040 to 2163 (123') - Drill out plug/Float collar @ 2163' - Drill out cement in shoejoint (44') - Drill out float shoe @ 2210' - Drill 10 ft of cement to TD 2220' -	2220	2220	2
9:30	0.75	02	Drilling new formation F/2220' T/2233' (13 ft @ 17.3 ft/hr) Rot: WOB-11.7, RPM 72t+57m=129, SPM-51, GPM-403, PP- 517	2220	2233	2
10:15	0.50	22	FIT @ 2233' - Applied 100 psi at surface to test @ 11.0 EMW - Held for 10 mins with no pressure loss	2233	2233	2
10:45	2.50	20	Drilling Ahead F/2233' T/2310' (77' @ 31 ft/hr) Rot: WOB-16.3, RPM 58t+50m=108, SPM-54, GPM-358, PP-612	2230	2310	2
13:15	0.25	20	Drilling Ahead F/2310' T/2313' (3' @ 12 ft/hr) Rot: WOB-15, RPM-51m+65t=116, SPM-55, GPM-364, PP-553	2310	2313	2
13:30	1.00	20	Drilling Ahead F/2313' T/2328' (15' @ 15 ft/hr) Sliding: WOB-23.1, RPM-50m, SPM-54, GPM-358, PP-625	2313	2328	2
14:30	0.25	20	Drilling Ahead F/2328' T/2341' (13' @ 52 ft/hr) Rot: WOB-15, RPM 73t+50m=123, SPM-54, GPM-358, PP-625	2328	2341	2
14:45	0.50	20	Drilling Ahead F/2341' T/2348' (7' @ 14 ft/hr) Rot: WOB-15K, RPM 65t+54m=119, SPM-54, GPM-357, PP-546	2341	2348	2
15:15	0.50	20	Drilling Ahead F/2348' T/2356' (8' @ 16 ft/hr) Sliding: WOB-21.9, RPM 47m, SPM-51, GPM-337, PP-570	2348	2356	2
15:45	0.75	20	Drilling Ahead F/2356' T/2376' (20' @ 27 ft/hr) Rot: WOB-14.4, RPM 59t+46m=105, SPM-50, GPM-331, PP-497	2356	2376	2
16:30	0.75	20	Drilling Ahead F/2376' T/2393' (17' @ 23 ft/hr) Sliding: WOB-20, RPM-50m, SPM-54, GPM-357, PP-583	2376	2393	2
17:15	0.25	20	Drilling Ahead F/2393' T/2407' (14' @ 56 ft/hr) Rot: WOB-15.2, RPM 76t+50m=126, SPM-54, GPM-357, PP-579	2393	2407	2
17:30	0.50	20	Drilling Ahead F/2407' T/2438' (31' @ 62 ft/hr) Rot: WOB-14.3, RPM 67t+50m=117, SPM-54, GPM-357, PP-514	2407	2438	2
18:00	1.00	20	Drilling Ahead F/2438' T/2454' (16' @ 16 ft/hr) Sliding: WOB-10.2, RPM 52m, SPM-56, GPM-371, PP-580	2438	2454	2
19:00	1.00	20	Drilling Ahead F/2454' T/2504' (50' @ 50 ft/hr) Rot: WOB-16.5, RPM 57t+52m=109, SPM-56, GPM-370, PP-738	2454	2504	2
20:00	0.75	20	Drilling Ahead F/2504' T/2535' (31' @ 41.3 ft/hr) Rot: WOB-13.9, RPM 40t+50m=90, SPM-54, GPM-357, PP-621	2504	2535	2
20:45	0.50	20	Drilling Ahead F/2535' T/2553' (18' @ 36 ft/hr) Sliding: WOB-12.4, RPM 48m, SPM-52, GPM-344, PP-600	2535	2553	2
21:15	2.50	20	Drilling Ahead F/2553' T/2699' (146' @ 58.4 ft/hr) Rot: WOB-14, RPM 63t+54m=117, SPM-58, GPM-384, PP-759	2553	2699	2
23:45	1.00	20	Drilling Ahead F/2699' T/2716' (17' @ 37.8 ft/hr) Sliding: WOB-17.5, RPM-52m, SPM-56, GPM-370, PP-639	2699	2717	2
0:45	0.25	20	Drilling Ahead F/2716' T/2730' (14' @ 56 ft/hr) Rot: WOB-12.9, RPM-47t+52m=99, SPM-56, GPM-371, PP-725	2717	2730	2
1:00	1.25	20	Drilling Ahead F/2730' T/2758' (28' @ 22 ft/hr) Sliding: WOB-18.1, RPM-53m, SPM-57, GPM-377, PP-562	2730	2758	2
2:15	1.00	20	Drilling Ahead F/2758' T/2796' (38' @ 38 ft/hr) Rot: WOB-13.1, RPM-58t+50m=108, SPM-57, GPM-358, PP-695	2758	2796	2
3:15	1.00	20	Drilling Ahead F/2796' T/2815' (19' @ 19 ft/hr) Slide: WOB-20, RPM-52m, SPM-56, GPM-371, PP-695	2796	2815	2
4:15	0.50	20	Drilling Ahead F/2815' T/2828' (13' @ 26 ft/hr) Rot: WOB-13.8, RPM 62t+52m=114, SPM-56, GPM-370, PP-725	2815	2828	2
4:45	1.25	20	Drilling Ahead F/2828' T/2856' (28' @ 22.4 ft/hr) Rot: WOB-16.3, RPM-57t+53m=110, SPM-57, GPM-377, PP-669	2828	2856	2

Total:	24 00
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Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2330	2:00	9.60	9.60	38	21	10	3/7/9	18.0	0.0	3	0.00			0.0%	0.1%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	12.20	0.80	0.60	1.80	600	80	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern
0			direction.		
0.0			Rig Check @ 6:00: MWT-9.6, Vis-45		
0.0					

Daily Summary

Activity Date :	4/18/2007	Days From Spud :	10	Current Depth :	3217 Ft	24 Hr. Footage Made :	361 Ft
Rig Company :	ENSIGN USA		Rig Name.	ENSIGN 79			
Formation :	Green River		Weather:				

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.25	20	Drilling Ahead F/2856' T/2877' (21' @ 16.8 ft/hr) Sliding WOB-23.8, RPM-51m, SPM-55, GPM-364, PP-595	2856	2877	2
7:15	0.25	20	Drilling Ahead F/2877' T/2889' (12' @ 48 ft/hr) Rot: WOB-16.5, RPM 62t+51m=113, SPM-55, GPM-364, PP-609	2877	2889	2
7:30	0.75	10	Survey @ 2830' - AZI 102.94, DEV 23.01	2889	2889	2
8:15	0.75	22	Light plant down - pull off bottom to circ	2889	2889	2
9:00	0.50	20	Drilling Ahead F/2889' T/2922' (33' @ 66 ft/hr) Rot: WOB-16.8, RPM 64t+52m=116, SPM-56, GPM-371, PP-669	2889	2922	2
9:30	1.50	20	Drilling Ahead F/2922' T/2944' (22' @ 14.7 ft/hr) Sliding: WOB-30, RPM 52, SPM-56, GPM-371, PP-594	2922	2944	2
11:00	1.50	20	Drilling Ahead F/2944' T/2988' (44' @ 29.3 ft/hr) Rot: WOB:16.6, RPM 61t+52m=113, SPM-56, GPM-371, PP-840	2944	2988	2
12:30	2.25	20	Drilling Ahead F/2988' T/3018' (30' @ 13.3 ft/hr) Sliding: WOB-24.1, RPM-50m, SPM-54, GPM-358, PP-687	2988	3018	2
14:45	0.50	20	Drilling Ahead F/3018' T/3054' (36' @ 72 ft/hr) Rot: WOB: 16.5, RPM 61t+51m=112, SPM-55, GPM-364, PP-780	3018	3054	2
15:15	8.00	21	Well flowing at 3054' - Shut well in with annular (See 24 hr remarks for details)	3054	3054	2
23:15	1.00	20	Drilling Ahead F/3054' T/3064' (10' @ 10 ft/hr) Sliding: WOB:26.2, RPM-51m, SPM-115, GPM-361, PP-916	3054	3064	2
0:15	0.50	20	Drilling Ahead F/3064' T/3085' (21' @ 42 ft/hr) Rot: WOB-17.4, RPM 43t+51m=94, SPM-115, GPM-361, PP-989	3064	3085	2
0:45	1.25	20	Drilling Ahead F/3085' T/3116' (31' @ 24.8 ft/hr) Rot:WOB-17.1, RPM 42t+51m=93, SPM-114, GPM-358, PP-979	3085	3116	2
2:00	0.50	21	Get SPRs on on both pumps	3116	3116	2
2:30	1.00	20	Drilling Ahead F/3116 T/3145' (29' @ 29 ft/hr) Sliding: WOB-16.4, RPM-50m, SPM-114, GPM-358, PP-894	3116	3145	2
3:30	1.25	20	Drilling Ahead F/3145' T/3183' (38' @ 30.4 ft/hr) Rot: WOB-17.3, RPM 59t+50m=109, SPM-114, GPM-358, PP-1170	3145	3183	2
4:45	0.75	20	Drilling Ahead F/3183' T/3198' (15' @ 20 ft/hr) Sliding: WOB-20.2, RPM-50m, SPM-114, GPM-358, PP-980	3183	3198	2
5:30	0.50	20	Drilling Ahead F/3198' T/3217' (19' @ 38 ft/hr) Rot: WOB-17, RPM 52t+53m=105, SPM-57, GPM-377, PP-1023	3198	3217	2
Total	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2956	9:00	9.60	9.60	40	17	11	3/7/10	10.2	0.0	2	0.00	7.0%	93.0%	0.0%	0.2%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.50	0.60	0.50	2.00	600	20	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	11.0	65		Raised MWT and Vis after this mud check for well control. At 1:30 am 4/18/07: MWT in and out - 10.3, Vis in and out - 43 At 6:00 am 4/18/07: MWT in and out - 10.4, Vis in-48,out-43										

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary							
Activity Date :	4/19/2007	Days From Spud :	11	Current Depth :	3704 Ft	24 Hr. Footage Made :	508 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :	Wasatch		Weather:				

Operations						
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.00	20	Drilling Ahead F/3217' T/3247' (30' @ 30 ft/hr) Rot WOB-18.4, RPM-65t+50m=115, SPM-114, GPM-358, PP-1172	3217	3247	2
7:00	1.00	08	Rotating head leaking - Install new rotating head rubber and drive bushings - check for flow - none	3247	3247	2
8:00	0.75	20	Drilling Ahead F/3247' T/3278' (31' @ 41.3 ft/hr) Rot: WOB-19.5, RPM 64t+50m=114, SPM-114, GPM-358, PP-1116	3247	3278	2
8:45	1.50	20	Drilling Ahead F/3278' T/3299' (21' @ 14 ft/hr) Sliding: WOB-20.8, RPM-50m, SPM-114, GPM-358, PP-947	3278	3299	2
10:15	0.25	20	Drilling Ahead F/3299' T/3313' (14' @ 56 ft/hr) Rot: WOB-17.5, RPM 62t+50m=112, SPM-114, GPM-358, PP-1074	3278	3313	2
10:30	1.75	20	Drilling Ahead F/3312' T/3377' (64' @ 36.6 ft/hr) Rot: 19.6, RPM-51m, SPM-116, GPM-364, PP-1092	3313	3377	2
12:15	1.75	20	Drilling Ahead F/3377' T/3401' (24' @ 13.7 ft/hr) Sliding: WOB-23.7, RPM-51m, SPM-116, GPM-364, PP-964	3377	3401	2
14:00	0.25	20	Drilling Ahead F/3401' T/3412' (11' @ 44 ft/hr) Rot: WOB-22.1, RPM 59t+51m=110, SPM-115, GPM-361, PP-1164	3401	3412	2
14:15	0.75	20	Drilling Ahead F/3412' T/3444' (32' @ 42.7 ft/hr) Rot: WOB-21.4, RPM-62t+51m=113, SPM-115, GPM-361, PP-1161	3412	3444	2
15:00	1.50	20	Drilling Ahead F/3444' T/3463' (19' @ 12.7 ft/hr) Sliding: WOB-20.5, RPM 51m, SPM-116, GPM-364, PP-1064	3444	3463	2
16:30	0.25	20	Drilling Ahead F/3463' T/3475' (12' @ 48 ft/hr) Rot: WOB-17, RPM 73t+51m=124, SPM-115, GPM-361, PP-1111	3463	3475	2
16:45	0.50	07	Lubricate Rig	3475	3475	2
17:15	0.75	20	Drilling Ahead F/3475' T/3507' (32' @ 42.7 ft/hr) Rot: WOB-18.6, RPM 65t+51m=116, SPM-115, GPM-361, PP-1140	3475	3507	2
18:00	1.75	20	Drilling Ahead F/3504' T/3523' (16' @ 9.2 ft/hr) Sliding: WOB-32, RPM- 50m, SPM-113, GPM-355, PP-1042	3507	3523	2
19:45	1.75	20	Drilling Ahead F/3523' T/3571' (48' @ 27.4 ft/hr) Rot: WOB-19.3, RPM 63t+50m=113, SPM-113, GPM-355, PP-1064	3523	3571	2
21:30	1.75	20	Drilling Ahead F/3571' T/3586' (15' @ 8.6 ft/hr) Sliding: WOB-28.4, RPM-50m, SPM-114, GPM-358, PP-1070	3571	3586	2
23:15	6.75	20	Drilling Ahead F/3586' T/3704' (118' @ 17.5 ft/hr) Rot: WOB 19-25K, RPM 55t+50m=105, SPM-113, GPM-358, PP-1143	3586	3704	2
Total:	24.00					

Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
3296	10:00	10.20	10.20	41	13	12	2/5/9	4.8	0.0	2	0.00	12.0%	93.0%	0.0%	0.3%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	9.00	0.00	0.05	0.70	600	20	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	UFT	Remarks											
0	0.0	10.5	65		Rig Check @ 6 AM: MWT-10.6 VIS - 45											

Well Name: ARCHY BENCH 11-22-22-02																
Field Name:		Utah			S/T/R:		2/T11S/R22E			County, State:		UINTAH, UT				
Operator:		Enduring Resources LLC			Location Desc:		SENW-2-11S-22E			District:		Northern				
Daily Summary																
Activity Date :		4/20/2007		Days From Spud :		12		Current Depth :		4283 Ft		24 Hr. Footage Made :		579 Ft		
Rig Company :		ENSIGN USA					Rig Name:		ENSIGN 79							
Formation :		Wasatch					Weather:									
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	8.25	20	Drilling Ahead F/3704' T/3961' (257' @ 31.2 ft/hr) Rot: WOB-30K, RPM 73t+51m=124, SPM-115, GPM-361, PP-1241										3704	3961	2	
14:15	0.50	07	Rig Service										3961	3961	2	
14:45	2.75	08	Repair chain in compound - Maintain circulation and work pipe										3961	3961	2	
17:30	0.50	20	Drilling Ahead F/3961' T/3971' (10' @ 20 ft/hr) Sliding: WOB-27.9, RPM-51m, SPM-116, GPM-364, PP-1232										3961	3971	2	
18:00	2.00	20	Drilling Ahead F/3971' T/4055' (84' @ 42 ft/hr) Rot: WOB-27.9, RPM-51m, SPM-116, GPM-364, PP-1197										3971	4055	2	
20:00	0.75	20	Drilling Ahead F/4055' T/4064' (9' @ 12 ft/hr) Sliding: WOB-21.3, RPM-51m, SPM-115, GPM-361, PP-1177										4055	4064	2	
20:45	0.50	20	Drilling Ahead F/4064' T/4086' (22' @ 44 ft/hr) Rot: WOB-16.4, RPM 72t+50m=121, SPM-112, GPM-352, PP-1178										4064	4086	2	
21:15	1.50	20	Drilling Ahead F/4086' T/4148' (62' @ 41.3 ft/hr) Rot: WOB-20.1, RPM 64t+51m=115, SPM-115, GPM-361, PP-1127										4086	4148	2	
22:45	1.00	20	Drilling Ahead F/4148' T/4156' (8' @ 8 ft/hr) Sliding: WOB-30.8, RPM-50m, SPM-114, GPM-358, PP-1087										4148	4156	2	
23:45	3.00	20	Drilling Ahead F/4156' T/4241' (85' @ 28.3 ft/hr) Rot: WOB-21.6, RPM 76t+50m=126, SPM-114, GPM-358, PP-1205										4156	4241	2	
2:45	3.25	20	Drilling Ahead F/4241' T/4283' (42' @ 14 ft/hr) Rot: WOB 15-32K, RPM 74t+50m+124, SPM-113, GPM-355, PP-1142 - Note: Bit balling problem										4241	4283	2	
Total:		24 00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
3819	10:00	10.60	10.60	47	19	14	2/6/11	5.2	0.0	2	0.00	14.0%	86.0%	0.0%	0.2%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	9.30	0.10	0.05	0.80	600	120	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	UFT	Remarks											
0	0.0	11.0			Rig Check @ 6 AM: MWT-10.6 VIS - 48											

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/21/2007	Days From Spud :	13	Current Depth :	4419 Ft	24 Hr. Footage Made :	136 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Wasatch			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	20	Drilling Ahead F/4283' T/4304' (21' @ 10.5 ft/hr) Rot WOB-31 5, RPM 70m+50m=120, SPM-113, GPM-355, PP-1463	4283	4304	2
8:00	0.75	20	Drilling Ahead F/4304' T/4335' (31' @ 41.3 ft/hr) Sliding: WOB-33, RPM 70t+50m=120, SPM-114, GPM-358, PP-1186	4304	4335	2
8:45	1.50	20	Drilling Ahead F/4335' T/4352' (17' @ 11.3 ft/hr) Sliding: WOB-33K, RPM 50m, SPM-114, GPM-358, PP-1186	4335	4352	2
10:15	0.25	20	Drilling Ahead F/4352' T/4366' (14' @ 56 ft/hr) Rot: WOB-29.4, RPM 75t+50m=125, SPM-114, GPM-358, PP-1288	4352	4366	2
10:30	1.00	07	Rig Service	4366	4366	2
11:30	2.25	20	Drilling Ahead F/4366' T/4419' (53' @ 23.6 ft/hr) Rot: WOB-31.9, RPM 70t+51m=121, SPM-116, GPM-364, PP-1323 (Note: Mud Motor stalled, differential pressure spiked and pump pressure increased)	4366	4419	2
13:45	1.25	05	Pump sweep to clean hole for trip	4419	4419	2
15:00	3.00	06	TOOH to change out bit and motor (max 45K overpull at bottom) See Notes:	4419	4419	2
18:00	3.50	21	Inspect and change out mud motor and bit - Change out batteries on directional tool	4419	4419	2
21:30	5.50	06	TIH with Bit #3 and MM #3 installing the balance (12) of the Lo-Tads in the HWDP between the directional tools and standard 16.60 drill pipe.	4419	4419	3
3:00	2.00	03	Reaming to bottom from 4359' to 4419' (60')	4419	4419	3
5:00	1.00	05	Circ and cond mud with pump #2 - Changing out swab on pump #2	4419	4419	3
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
4385	11:00	10.20	10.20	44	18	15	2/9/15	5.2	0.0	2	0.00	12.0%	88.0%	0.0%	0.4%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.10	0.05	0.00	0.60	600	280	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.6	100		Rig Check @ 6 AM: MWT-10.2 VIS - 44										

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/22/2007	Days From Spud :	14	Current Depth :	4844 Ft	24 Hr. Footage Made :	425 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Wasatch			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run	
6:00	0.50	20	Drilling Ahead F/4419' T/4441' (22' @ 44 ft/hr) Rot WOB-15.1, RPM 69t+51m=120, SPM-115, GPM-361, PP-1032	4419	4441	3	
6:30	2.00	20	Drilling Ahead F/4441' T/4460' (19' @ 12.7 ft/hr) Sliding: WOB-18.7, RPM-50m, SPM-114, GPM-358, PP-981	4441	4460	3	
8:30	2.00	20	Drilling Ahead F/4460' T/4534' (74' @ 37 ft/hr) Rot: WOB-23.9, RPM 64t+51m=115< SPM-116, GPM-364, PP-1160	4460	4534	3	
10:30	0.50	08	Change out rotating rubber	4534	4534	3	
11:00	1.75	20	Drilling Ahead F/4534' T/4554' (20' @ 11.4 ft/hr) Sliding: WOB-31.2, RPM-51m, SPM-115, GPM-361, PP-1066	4534	4554	3	
12:45	1.75	20	Drilling Ahead F/4554' T/4622' (68' @ 38.9 ft/hr) Rot: WOB-17.9, RPM 71t+51m=122, SPM-116, GPM-364, PP-1279	4554	4622	3	
14:30	1.00	20	Drilling Ahead F/4622' T/4630' (8' @ 8 ft/hr) Sliding: WOB-32.8, RPM-53m, SPM-116, GPM-364, PP-1160	4622	4630	3	
15:30	0.25	20	Drilling Ahead F/4630' T/4637' (7' @ 28 ft/hr) Rot: WOB-21.5, RPM 74t+51m=125, SPM-116, GPM-364, PP-1206	4630	4637	3	
15:45	1.00	20	Drilling Ahead F/4637' T/4640' (3' @ 3 ft/hr) Sliding: WOB-31, RPM-51m, SPM-116, GPM-364, PP-1184	4637	4640	3	
16:45	0.50	20	Drilling Ahead F/4640' T/4644' (4' @ 8 ft/hr) Rot: WOB-26.2, RPM 56t+51m=106, SPM-116, GPM-364, PP-1276	4640	4644	3	
17:15	0.25	20	Drilling Ahead F/4644' T/4648' (4' @ 16 ft/hr) Sliding: WOB-22K, RPM-51m, SPM-116, GPM-364, PP-1320	4644	4648	3	
17:30	1.00	20	Drilling Ahead F/4648' T/4669' (21' @ 21 ft/hr) Rot: WOB-18K, RPM 63t+51m=114, SPM-116, GPM-364, PP-1354	4648	4669	3	
18:30	3.25	20	Drilling Ahead F/4669' T/4690' (21' @ 6.5 ft/hr) Sliding: WOB-17.5, RPM 58t+51m=109, SPM-116, GPM-365, PP-1218	4669	4690	3	
21:45	0.50	20	Drilling Ahead F/4690' T/4703' (13' @ 26 ft/hr) Rot: WOB-17.5, RPM 58t+51m=109, SPM-116, GPM-365, PP-1218	4690	4703	3	
22:15	2.00	20	Drilling Ahead F/4703' T/4718' (15' @ 7.5 ft/hr) Sliding: WOB-27.3, RPM-50m, SPM-112, GPM-352, PP-1121	4703	4718	3	
0:15	1.00	20	Drilling Ahead F/4718' T/4750' (32' @ 32 ft/hr) Rot: WOB-19.3, RPM 60t+51m=111, SPM-115, GPM-361, PP-1121	4718	4750	3	
1:15	1.50	20	Drilling Ahead F/4750' T/4761' (11' @ 7.3 ft/hr) Sliding: WOB-28.4, RPM-50m, SPM-114, PP-1052, GPM-358	4750	4761	3	
2:45	0.25	20	Drilling Ahead F/4761' T/4766' (5' @ 20 ft/hr) Rot: WOB-19.3, RPM 48t+50m=98, SPM-114, PP-1159, GPM-358	4761	4766	3	
3:00	0.25	20	Drilling Ahead F/4766' T/4774' (10' @ 40 ft/hr) Sliding: WOB-29.9, RPM-50m, SPM-114, PP-1159, GPM-358	4766	4774	3	
3:15	1.50	20	Drilling Ahead F/4774' T/4814' (40' @ 26.7 ft/hr) Rot: WOB-16.7, RPM 60t+50m=110, SPM-114, PP-1187, GPM-358	4774	4814	3	
4:45	1.00	20	Drilling Ahead F/4814' T/4828' (14' @ 14 ft/hr) Sliding: WOB-30.3, RPM-50m, SPM-113, PP-1118, GPM-355	4814	4828	3	
5:45	0.25	20	Drilling Ahead F/4828' T/4844' (16' @ 64 ft/hr) Rot: WOB-18.6, RPM 60t+50m=110, SPM-114, PP-1227, GPM-358	4828	4844	3	
Total:		24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
4523	9:00	10.50	10.50	43	17	10	3/9/	5.2	0.0	2	0.00	14.0%	86.0%	0.0%	0.4%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.10	0.05	1.00	0.60	600	240	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.8	100		Rig Check @ 6 AM: MWT- 10.5 VIS -47										

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/23/2007	Days From Spud :	15	Current Depth :	5215 Ft	24 Hr Footage Made :	371 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Wasatch			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	0.50	05	Making connection/Pumping beads to bit before slide/Crew change	4844	4844	3
6:30	1.50	20	Drilling Ahead F/4844' T/4876' (32' @ 21.3 ft/hr) Sliding: WOB-36.2, RPM-50m, SPM-114, PP-1245, GPM-358	4844	4876	3
8:00	1.75	20	Drilling Ahead F/4876' T/4939' (63' @ 36 ft/hr) Rot: WOB-17.6, RPM 68t+50m=118, SPM-114, PP-1283, GPM-358	4876	4939	3
9:45	1.25	20	Drilling Ahead F/4939' T/4952' (13' @ 10.4 ft/hr) Sliding: WOB-32, RPM-51m, SPM-115, PP-1232, GPM-361	4939	4952	3
11:00	0.25	20	Drilling Ahead F/4952' T/4962' (10' @ 40 ft/hr) Rot: WOB-17.7, RPM 58t+50m=108, SPM-114, PP-1278, GPM-358	4952	4972	3
11:15	2.00	06	Vibrating hose broke:TOOH into 9 5/8" casing (See Notes:	4972	4972	3
13:15	0.50	21	Changing out slip dies in rotary slips (2900')	4972	4972	3
13:45	0.50	06	TOOH into 9 5/8" casing	4972	4972	3
14:15	1.25	08	Changing out vibrating hose - Drillstring safe inside casing - Bit at 2100' - Casing shoe at 2210'	4972	4962	3
15:30	0.50	07	Lubricate Rig	4962	4962	3
16:00	1.25	06	Trip back in hole to drill	4962	4962	3
17:15	0.25	03	Kelly up 20' off bottom - wash and ream - no fill	4962	4962	3
17:30	0.25	20	Drilling Ahead F/4962' T/4970' (8' @ 32 ft/hr) Rot: WOB-17.4, RPM-64, SPM-116, PP-1271, GPM-364	4962	4970	3
17:45	2.50	20	Drilling Ahead F/4970' T/4997' (27' @ 10.8 ft/hr) Sliding: WOB-35.4, RPM-51m, SPM-115, PP-1196, GPM-361	4970	4997	3
20:15	2.50	20	Drilling Ahead F/4997' T/5063' (66' @ 26.4 ft/hr) Rot: WOB-17.8, RPM 62t+50m=112, PP-1190, GPM-358	4997	5063	3
22:45	1.25	20	Drilling Ahead F/5063' T/5087' (24' @ 19.2 ft/hr) Sliding: WOB-32.8, RPM-50m, SPM-114, PP-1196, GPM-357	5063	5087	3
0:00	3.00	20	Drilling Ahead F/5087' T/5157' (70' @ 23.3 ft/hr) Rot: WOB-23.1, RPM 67t+50m=117, SPM-114, PP-1296, GPM-358	5087	5157	3
3:00	1.50	20	Drilling Ahead F/5157' T/5161' (4' @ 2.7 ft/hr) Sliding: WOB-29.4, RPM-50m, SPM-114, PP-1171, GPM-358	5157	5161	3
4:30	0.50	20	Drilling Ahead F/5161' T/5188' (27' @ 54 ft/hr) Rot: WOB-20.1, RPM 53t+50m=103, SPM-114, PP-1189, GPM-358	5161	5188	3
5:00	0.50	03	Ream out hole @ connection/Survey @ 5128' Dev 2.01, AZI 76.95	5188	5188	3
5:30	0.50	20	Drilling Ahead F/5188' T/5215' (27' @ 54 ft/hr) Rot: WOB-16.3, RPM 52t+50m=102, SPM-114, PP-1254, GPM-358	5188	5215	3
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
4909	8:00	10.50	10.50	45	23	9	4/7/11	5.2	0.0	2	0.00	14.0%	86.0%	0.0%	0.4%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	8.70	0.00	0.00	0.30	600	200	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.8	115		Rig Check @ 6 AM MWT- 10.5 Vis - 42										

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/24/2007	Days From Spud :	16	Current Depth :	5853 Ft	24 Hr. Footage Made :	638 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :	Wasatch		Weather:				

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	7:75	20	Drilling Ahead F/5215' T/5468' (253' @ 32.6 ft/hr) Rot: WOB-23K, RPM 67t+51m=118, SPM-116, PP-1304, GPM-364	5215	5468	3
13:45	1:25	03	Working pipe to resolve bit balling - pumping nutplug down hole to clean bit	5468	5468	3
15:00	1:00	20	Drilling Ahead F/5468' T/5481' (13' @ 13 ft/hr) Rot: WOB-25.3, RPM 62t+50m=112, SPM-114, PP-1256, GPM-358	5468	5481	3
16:00	1:50	03	Working pipe to resolve bit balling - pumping nut plug to clean bit	5481	5481	3
17:30	2:50	20	Drilling Ahead F/5481' T/5561' (80' @ 32 ft/hr) Rot: WOB-25.4, RPM 77t+51m=128, SPM-115, PP-1393, GPM-361	5481	5561	3
20:00	1:00	20	Drilling Ahead F/5561' T/5592' (31' @ 31 ft/hr) Rot: WOB-25.1, RPM 79t+51m=130, SPM-115, PP-1380, GPM-361	5561	5592	3
21:00	0:25	03	Ream kelly (3) times before connection	5592	5592	3
21:15	0:75	20	Drilling Ahead F/5592' T/5624' (32' @ 42.7 ft/hr) Rot: WOB-24, RPM 75t+51m=126, SPM-115, PP-1340, GPM-361	5592	5624	3
22:00	0:25	03	Ream kelly (3) times before connection	5624	5624	3
22:15	0:50	20	Drilling Ahead F/5624' T/5655' (31' @ 62 ft/hr) Rot: WOB-21.8, RPM 74t+50m=124, SPM-114, PP-1382, GPM-358	5624	5655	3
22:45	0:25	03	Ream kelly (3) times before connection	5655	5655	3
23:00	1:00	20	Drilling Ahead F/5655' T/5686' (31' @ 31 ft/hr) Rot: WOB-18.2, RPM 74t+50m=124, SPM-114, PP-1501, GPM-358	5655	5686	3
0:00	0:50	03	Ream kelly (3) times before connection	5686	5686	3
0:30	0:75	20	Drilling Ahead F/5686' T/5717' (31' @ 41.3 ft/hr) Rot: WOB-22.8, RPM 75t+51m=126, SPM-115, PP-1333, GPM-361	5686	5717	3
1:15	0:25	03	Ream kelly (3) times before connection	5717	5717	3
1:30	0:75	20	Drilling Ahead T/5717' T/5748' (31' @ 41.3 ft/hr) Rot: WOB-22.6, RPM 75t+50m=125, SPM-114, PP-1350, GPM-358	5717	5748	3
2:15	0:50	03	Ream kelly (3) times before connection	5748	5748	3
2:45	0:50	20	Drilling Ahead F/5748' T/5779' (31' @ 62 ft/hr) Rot: WOB-22.2, RPM 70t+51m=121, SPM-115, PP-1454, GPM-361	5748	5779	3
3:15	0:50	03	Ream kelly (3) times before connection	5779	5779	3
3:45	0:50	20	Drilling Ahead F/5779' T/5811' (32' @ 64 ft/hr) Rot: WOB-21.4, RPM 72t+50m=122, SPM-114, PP-1432, GPM-358	5779	5811	3
4:15	0:25	03	Ream kelly (3) times before connection	5811	5811	3
4:30	0:75	20	Drilling Ahead F/5811' T/5842' (31' @ 41.3 ft/hr) Rot: WOB-21.3, RPM 79t+51m=130, SPM-115, PP-1393, GPM-361	5811	5842	3
5:15	0:50	03	Ream kelly (3) times before connection	5842	5842	3
5:45	0:25	20	Drilling Ahead F/5842' T/5853' (11' @ 44 ft/hr) Rot: WOB-22.3, RPM 75t+51m=126, SPM-115, PP-1371, GPM-361	5842	5853	3
Total	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
5438	12:30	10.30	10.30	42	17	13	3/7/11	5.2	0.0	2	0.00	13.0%	87.0%	0.0%	0.4%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.10	0.30	0.10	0.90	600	220	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.6	110		Rig Check @ 6 AM: MWT- 10.4 Vis - 43										

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/25/2007	Days From Spud :	17	Current Depth :	5997 Ft	24 Hr. Footage Made :	144 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :	Mesaverde		Weather:				

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.00	20	Drilling Ahead F/5853' T/5873' (20' @ 40 ft/hr) Rot WOB-22.4, RPM 66t+50m=116, SPM-115, PP-1235, GPM358	5853	5873	3
7:00	0.25	03	Ream kelly (3) times before connection to clean hole and minimize drag	5873	5873	3
7:15	1.00	20	Drilling Ahead F/5873' T/5904' (31' @ 31 ft/hr) Rot: WOB-23.2, RPM 64t+50m=114, SPM-114, PP-1369, GPM-358	5873	5904	3
8:15	0.25	03	Ream kelly (3) times before connection (Note: PU-221K, SW-132K, Drag-89K)	5904	5904	3
8:30	0.50	20	Drilling Ahead F/5904' T/5935' (31' @ 62 ft/hr) Rot: WOB-21.9, RPM 68t+51m=118, SPM-116, PP-1408, GPM364	5904	5935	3
9:00	0.25	03	Ream kelly (3) times (Note: PU-228K, SW-132K, Drag-96K)	5935	5935	3
9:15	1.50	20	Drilling Ahead F/5935' T/5966' (31' @ 20.7 ft/hr) Rot: WOB-23.2, RPM 71t+51m=121, SPM-116, PP-1289, GPM-364	5935	5966	3
10:45	0.25	03	Ream Kelly (3) times (Note: PU-222K, SW-133K, Drag-89K)	5966	5966	3
11:00	1.50	20	Drilling Ahead F/5966' T/5997' (31' @ 20.7 ft/hr) Rot: WOB-20.3, RPM 65+50=115, SPM-114, PP-1290, GPM-358	5966	5997	3
12:30	0.50	05	Circ bottoms up to pull (3) stands - check for keyseats	5997	5997	3
13:00	0.75	06	Trip out slowly (3) stands to observe drag (See Notes)	5997	5997	3
13:45	1.25	05	Build and pump dry job	5997	5997	3
15:00	5.25	06	TOOH to casing shoe slowly (See notes)	5997	5997	3
20:15	0.50	22	Fill hole	5997	5997	3
20:45	6.25	06	Continue TOOH - laying down balance of lo-tads and HWDP	5997	5997	3
3:00	3.00	23	Change out batteries in directional tool and LD MM #3/PU MM #4	5997	5997	3
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
5962	8:00	10.30	10.30	45	22	12	3/6/10	6.0	0.0	2	0.00	13.0%	87.0%	0.0%	0.2%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.10	0.20	0.10	1.00	500	160	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.6	110		Rig Check @ 6 AM: Non circ sample MWT- 10.3 Vis - 46										

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/26/2007	Days From Spud :	18	Current Depth :	5997 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :				Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	21	Change out mud motor and bit	5997	5997	4
8:00	3.50	06	M/U BIT DIR TOOLS AND BHA AND TIH TO 3800' BREAK CIRCULATION PU 130 K ROT-105 SO-98	5997	5997	4
11:30	1.00	07	SERVICE RIG,	5997	5997	4
12:30	2.50	05	FINISH TIH TO 5508' HAD TROUBLE MOVING PIPE, PU 260 ROT-145 SO 125	5997	5997	4
15:00	3.00	05	CIRCULATE AND CONDITION MUD, MUD BOTTOMS UP BACTERIA LADEN, CAUSING CO2 PROBLEMS	5997	5997	4
18:00	7.00	05	CIRCULATE AND CONDITION MUD, DUMP AND ADD WATER AND CHEMICALS, PU 220K , ROT-145, SO-125	5997	5997	4
1:00	4.00	06	MAKE 20 STAND SHORT TRIP PU- 220K 230K, SO-125K	5997	5997	4
5:00	1.00	05	CIRCULATE AND CONDITION HOLE, START MIXING SLUG TO TOOH TO CHANGE OUT BHA	5997	5997	4
Total	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
5997	9:00	10.15	10.15	39	17	8	4/6/10	5.6	0.0	2	0.00	11.0%	89.0%	0.0%	0.3%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	8.70	0.00	0.00	0.20	500	160	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.5	110		Rig Check @ 6 AM MWT- Vis -										

Daily Summary

Activity Date :	4/27/2007	Days From Spud :	19	Current Depth :	6040 Ft	24 Hr. Footage Made :	43 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Mesaverde			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	05	CIRCULATE AND CONDITION HOLE, BUILD SLUG	5997	5997	4
8:00	3.50	06	TOOH W/ DRILL PIPE TO BHA	5997	5997	4
11:30	2.50	21	RIG UP LAY DOWN LINE, LAY DOWN 10 JTS DRILL COLLARS	5997	5997	4
14:00	4.00	06	TIH W/ BHA AND DRILL PIPE	5997	5997	4
18:00	1.50	06	TIH TO 5542' ROT 125K 185 PU 110 SO	5997	5997	4
19:30	2.00	05	CIRCULATE AND CONDITION HOLE BRING MUD WEIGHT FROM 10.6 DOWN TO 10.2 VIS 40	5997	5997	4
21:30	5.50	03	WASH AND REAM TO BOTTOM @ 5,997' CONDITION HOLE, ROT WEIGHT 135K PU 190K SO 120K	5997	5997	4
3:00	3.00	02	DRILL F/ 5997 T/ 6040 AND DRILLING AHEAD	5997	6040	4
Total	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
5997	16:30	10.30	10.30	41	13	6	4/9/14	7.2	0.0	2	0.00	12.0%	88.0%	0.0%	0.3%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.3	8.70	0.15	0.10	0.40	600	300	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.5	96		DUMPING MUD IN PITS, GETTING RID OF BAD MUD AND SOLIDS.										

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/28/2007	Days From Spud :	20	Current Depth :	6570 Ft	24 Hr. Footage Made :	530 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Mesaverde			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4 00	02	DRILL F/ 6040 T/ 6165	6040	6165	4
10:00	0.50	07	SERVICE RIG	6165	6165	4
10:30	7.50	02	DRILL F/ 6165 T/ 6383	6165	6383	4
18:00	6.50	02	DRILL F/ 6383 T/ 6566	6383	6566	4
0:30	4.50	08	RIG REPAIR-CHANGE OUT AIR CLUTCH, AND CHAIN	6566	6566	4
5.00	1.00	02	P/U MAKE CONECTION, DRILL F/ 6566 T/6570	6566	6570	4
Total:	24 00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
6250	13:00	10.10	10.10	43	14	14	6/11/16	6.4	0.0	1	0.00	11.0%	89.0%	0.0%	0.3%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
27.5	8.70	0.15	0.10	0.30	600	320	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.5	98												

Daily Summary

Activity Date :	4/29/2007	Days From Spud :	21	Current Depth :	6911 Ft	24 Hr. Footage Made :	341 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Mesaverde			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	3.00	02	DRILL F/ 6570 T/ 6663	6570	6663	4
9:00	1.00	05	PUMP SWEEP AROUND AND MIX SLUG	6663	6663	4
10:00	2.00	06	TOOH 25 STAND SHORT TRIP	6663	6663	4
12:00	1.00	07	SERVICE RIG	6663	6663	4
13:00	2.50	06	TIH AND WASH DOWN 45' TO BOTTOM, SOFT FILL	6663	6663	4
15:30	2.50	02	DRILL F/ 6663 T/ 6756	6663	6756	4
18:00	6.00	02	DRILL F/ 6756 T/ 6831	6756	6831	4
0:00	3.50	08	RIG REPAIR, C/O ROTARY CHAIN	6831	6831	4
3 30	2.50	02	DRILL F/ 6831 T/ 6911	6831	6911	4
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
6662	12.30	10.20	10.20	52	19	13	4/7/11	5.6	0.0	2	0.00	12.0%	88.0%	0.0%	0.4%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
27.5	9.45	0.40	0.20	0.60	650	280	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0	104												

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary

Activity Date :	4/30/2007	Days From Spud :	22	Current Depth :	7004 Ft	24 Hr. Footage Made :	93 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :	Mesaverde			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	5:00	02	DRILL F/ 6911 T/ 7004	6911	7004	4
11:00	2:00	05	CIRCULATE AND CONDITION MUD, PUMP SWEEP AND PUMP SLUG	7004	7004	4
13:00	1:00	06	SET KELLY BACK , COULD NOT MOVE PIPE, P/U KELLY BREAK CIRCULATION, FREE PIPE, PUMP SLUG	7004	7004	4
14:00	5:00	06	TOOH W/ DRILL PIPE AND BHA	7004	7004	4
19:00	2:00	20	HELD SAFETY MEETING, LAY DOWN DIR TOOLS AND BIT	7004	7004	4
21:00	7:50	11	HELD SAFETY MEETING, R/U SCHLUMBERGER TO LOG, TIH W/ 3 1/8" TRIPLE COMBO T.D. @ 6996 WLM LOG WELL, R.D.M.O.	7004	7004	4
4:30	1:50	06	P/U BIT AND TIH	7004	7004	4
Total:	24:00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
7004	12:45	10.10	10.10	44	17	11	4/8/15	5.4	0.0	2	0.00	10.0%	90.0%	0.0%	0.3%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
22.5	9.74	0.30	0.20	0.60	700	250	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0	107												

Daily Summary

Activity Date :	5/1/2007	Days From Spud :	23	Current Depth :	7004 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	ENSIGN USA			Rig Name:	ENSIGN 79		
Formation :				Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1:00	06	TIH TO 3185'	7004	7004	4
7:00	3:00	05	CIRCULATE AND CONDITION MUD, W.O.O.	7004	7004	4
10:00	2:00	06	FINISH TRIP IN HOLE	7004	7004	4
12:00	2:00	05	CIRCULATE AND CONDITION HOLE, HELD SAFETY MEETING / LAY DOWN CREW	7004	7004	4
14:00	0:50	06	TOOH W/ 5 STANDS OFF BOTTOM	7004	7004	4
14:30	3:50	06	PUMP SLUG LAY DOWN DRILL PIPE	7004	7004	4
18:00	5:50	06	FINISH L/D DRILL PIPE, L/D H.W.D.P. P/U KELLY AND BREAK DOWN, L/D DRILL COLLARS, JARS, AND BIT. PULL WEAR BUSHING	7004	7004	4
23:30	1:00	21	HELD SAFETY MEETING W/ WEATHERFORD CASING CREW	7004	7004	4
0:30	5:50	12	P/U 4.5" M-80 CASING, AND RIH	7004	7004	4
Total:	24:00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
7004	12:45	10.10	10.10	44	17	11	4/8/15	5.4	0.0	2	0.00	10.0%	90.0%	0.0%	0.3%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
22.5	9.74	0.30	0.20	0.60	700	250	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0	107												

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Daily Summary							
Activity Date :	5/2/2007	Days From Spud .	24	Current Depth :	7004 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :			Weather:				

Operations						
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.00	12	CASING RUN IN HOLE 4 5" M-80 . FLOAT SHOE, 13 84" SHOE JT, FLOAT COLLAR, 83-JTS CASING, MARKER JT, 81JTS-CASING TAG FILL @ 6,968'	7004	7004	4
7:00	1.00	03	WASH DOWN 25' TO 6,993' 11' OFF BOTTOM	7004	7004	4
8:00	1.00	05	CIRCULATE MUD AND CONDITION HOLE	7004	7004	4
9:00	1.00	21	R/U SEPERIOR TO CEMENT HELD SAFETY MEETING	7004	7004	4
10:00	2.50	12	TEST LINES TO 3000 PSI, PUMP 10 BBL'S FRESH, 30 BBL REACTIVE SPACER, 10 BBL FRESH, 126 BBL 185 SKS LEAD CLASS A 11 #, PUMPED TAIL= 263 BBL, 1210 SKS CLASS H 50/50 POZ, 14.3 # AND DISPLACE W/ 108 BBL WATER, BUMP PLUG 500# OVER @ 2300 PSI	7004	7004	4
12:30	0.50	21	R.D.M.O. SEPERIOR CEMENT CO.	7004	7004	4
13:00	5.00	14	N/D BOP, SET SLIPS LAND CASING	7004	7004	4
18:00	3.00	22	CLEAN PITS AND WASH UP. RELEASE RIG @ 21:00	7004	7004	4
21:00	9.00	01	RIG DOWN	7004	7004	4
Total:	24.00					

Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
7004	12:45	10.10	10.10	44	17	11	4/8/15	5.4	0.0	2	0.00	10.0%	90.0%	0.0%	0.3%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
22.5	9.74	0.30	0.20	0.60	700	250	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	UFT	Remarks											
0	0.0	0.0	107													

Daily Summary							
Activity Date :	5/3/2007	Days From Spud .	25	Current Depth :	7004 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	ENSIGN USA		Rig Name:	ENSIGN 79			
Formation :			Weather:				

Operations						
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	12.00	01	RIG DOWN MOVE TO NEW LOC	7004	7004	4
18:00	12.00	01	WAIT ON DAYLIGHT	7004	7004	4
Total:	24.00					

Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
7004	12:45	10.10	10.10	44	17	11	4/8/15	5.4	0.0	2	0.00	10.0%	90.0%	0.0%	0.3%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
22.5	9.74	0.30	0.20	0.60	700	250	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	UFT	Remarks											
0	0.0	0.0	107													

Well Name: ARCHY BENCH 11-22-22-02

Field Name:	Utah	S/T/R:	2/T11S/R22E	County, State:	UINTAH, UT
Operator:	Enduring Resources LLC	Location Desc:	SENW-2-11S-22E	District:	Northern

Formation

Formation Name	Current Well Top	Subsea Datum	Ref Well Top	Elec Top	Comments

Casing

Date In	Setting Depth	Jts Run	Type	Size	Weight	Grade	MINID	HoleDiam	TD
4/10/2007	2209.54	50	3. Surface	9.625	36	J-55	0	12.25	2220

Stage: 1, Spacer, 20, 0, Water with green dye, Type III, 0, 0

Stage: 1, Lead, 0, 500, with .2% Veraset, .25#/sk Flocele, Type III, 1.15, 14.5

Stage: 1, Tail, 0, 210, with 2% Calcium Chloride, Type V, 1.2, 15.6

Stage: 1, Displacement, 167.5, 0, Water, , 0, 0

4/26/2007	6993.54	166	5. Production	4.5	11.6	M-80	0	7.875	7004
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Stage: 1, Lead, 0, 185, 16% GEL, 23# SKSUPERFLAKE, !% SUPERSIL-SP, 10# SKS GILSONITE 2%SUPER CR-1, 3% SALT, 3#SKSUPER GR, Class A, 3.18, 11

Stage: 1, Tail, 0, 1210, 50/50 POZ, 2%GEL, 5%SALT, 3%SUPER FL-200, 25#SK SUPERFLAKE, 2%CR-1, Class H, 1.22, 14.3

Stage: 1, Displacement, 108, 0, , , 0, 0

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

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47075
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 checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: N/A
2. NAME OF OPERATOR: Enduring Resources, LLC		8. WELL NAME and NUMBER: Archy Bench 11-22-22-2
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202		9. API NUMBER: 4304736786
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367' FNL - 575' FWL COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT: Undesigned
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 2 11S 22E S 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: 9/30/2008	<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 checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Commingling</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>Conformation.</u>

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

Notice of first gas sales on December 2, 2007.

Conformation that well was commingled in the Wasatch and Mesaverde formations "pools" in the initial completion attempt.

NAME (PLEASE PRINT) <u>Alvin R. (Al) Arlian</u>	TITLE <u>Landman - Regulatory Specialist</u>
SIGNATURE	DATE <u>9/30/2008</u>

(This space for State use only)

RECEIVED

OCT 02 2008

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

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-47075
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: 2367' FNL - 575' FWL		8. WELL NAME and NUMBER: Archy Bench 11-22-22-2
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 2 11S 22E S		9. API NUMBER: 4304736786
COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT: Undesigned
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: 11/5/2008	<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>Well Workover - lower tubing</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.

Commencing 12-2-2008

1. MIRU, kill well, pull tubing, trip back in hole and clean out scale, paraffin and sand fill down to PBTD.
2. Lower tubing from 4,564' to 6,217'.
3. Flush well with 10% HCL.
4. Foam circulate to kill off well. Turned well over to Pumper.

NAME (PLEASE PRINT) <u>Alvin R. (Al) Arlian</u>	TITLE <u>Landman - Regulatory Specialist</u>
SIGNATURE	DATE <u>1/23/2009</u>

(This space for State use only)

RECEIVED
FEB 02 2009
DIV. OF OIL, GAS & MINING

Well Name : ARCHY BENCH 11-22-22-02

Prospect:				AFE #:	DV00016	
Sec/Twp/Rge:	2 / T11S / R22E			AFE Total:	\$1,629,827	
API #:	430473678600	Field:	Utah	This AFE Cost:	\$1,799,706	
Work Type:	Completion	County, St.:	UINTAH, UT	Tot Assoc AFE's:	\$1,799,706	
Operator:	Enduring Resources LLC	Supervisor:		Phone:		
Production Current/Expected	Oil:	0 / 0	Gas:	0 / 0	Water:	0 / 0

Date:	7/19/2008	Days:	318	DC:	\$1,120	CCC:	\$355,054	CWC:	\$1,745,154
Activity:	Slickline		Rig Name:	Excell # 9					

Daily Report Summary :	
Daily Report Detail:	Remarks
	Rig up on well.Rih w/ 1.906 gauge ring to 10' pooh found pariffin.Rih w/scratcher to 60' wlm pooh flowed parriffin out to tank. Repeat above every 50' down to 1200'. Then every 100' from 1200' to 2000'.Rih w/ 1.906 gauge ring to 4437' wlm pooh.Rih w/sample bailer tag bottom at 6950'wlm pooh no sample.Rig down return well to production.Travel to Vernal. Tubing 150 psi Casing 400 psi Fluid 3950' Perfs 4689-6930 perfs clear

From 10:00 To 15:30	5.5 hrs	Category/Rmks:	: Rig up on well.Rih w/ 1.906 gauge ring to 10' pooh found pariffin.Rih w/scratcher to 60' wlm pooh flowed parriffin out to tank. Repeat above every 50' down to 1200'. Then every 100' from 1200' to 2000'.Rih w/ 1.906 gauge ring to 4437' wlm pooh.Rih w/sample bailer tag bottom at 6950'wlm pooh no sample.Rig down return well to production.Travel to Vernal. Tubing 150 psi Casing 400 psi Fluid 3950' Perfs 4689-6930 perfs clear
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Date:	11/5/2008	Days:	427	DC:	\$0	CCC:	\$355,054	CWC:	\$1,745,154
Activity:	Slickline		Rig Name:	Nalco Chemical					

Daily Report Summary :	
Daily Report Detail:	RU CPS Wireline. RIH w/2" JDC. Pull BS from 4417. RIH w/1.5" bailer. Tag @4545. POOH get scale sample. Drop BS, chase to XN nipple @4417. RD CPS Wireline.
	Note: Perf's clear on 7/19/08 in wireline report.

Date:	12/2/2008	Days:	454	DC:	\$7,767	CCC:	\$362,821	CWC:	\$1,752,921
Activity:	POOH w/tbg		Rig Name:	Basic Rig # 1629					

Daily Report Summary :	p.u to tag fill @ 6966' tbg tally pooh w/ tbg seen scale on bottom two jts took sample to Vernal field office rih w/ 3 7/8" mill on pobs to @ 4564'
Daily Report Detail:	Remarks
	moved rig over form 11-22-12-02 well miru well open to sale fwp @ 120 psi r.u pump line to tbg & pumped @ 30 bbls filtered 2% kcl wtr to kill n.d well head tree n.u bops prepped for tbg tallied & p.u 77 jts to tag pbsd @ 6966' tbg tally pooh w/ tbg tallied 150 jts of production tbg tally of 4561.31' please note seen scale on bottom two jts sample taken to Vernal field office "p.u 3 7/8"" mill on POBS rih w/150 jts Eot @ 4564' sdfn left csg on well open to sale"

From 8:30 To 9:30	1 hrs	Category/Rmks:	Move In / Rig UP : moved rig over form 11-22-12-02 well miru
From 9:30 To 10:00	0.5 hrs	Category/Rmks:	Kill Well : well open to sale fwp @ 120 psi r.u pump line to tbg & pumped @ 30 bbls filtered 2% kcl wtr to kill
From 10:00 To 11:00	1 hrs	Category/Rmks:	Nipple Down : n.d well head tree n.u bops prepped for tbg
From 11:00 To 12:45	.75 hr	Category/Rmks:	Trip In Open-Ended : tallied & p.u 77 jts to tag pbsd @ 6966' tbg tally
From 12:45 To 15:30	.75 hr	Category/Rmks:	TOOH : pooh w/ tbg tallied 150 jts of production tbg tally of 4561.31' please note seen scale on bottom two jts sample taken to Vernal field office
From 15:30 To 17:00	1.5 hrs	Category/Rmks:	Tripping : p.u 3 7/8" mill on POBS rih w/150 jts Eot @ 4564' sdfn left csg on well open to sale

Well Name : ARCHY BENCH 11-22-22-02

Prospect:				AFE #:	DV00016	
Sec/Twp/Rge:	2 / T11S / R22E			AFE Total:	\$1,629,827	
API #:	430473678600	Field:	Utah	This AFE Cost:	\$1,799,706	
Work Type:	Completion	County, St.:	UINTAH, UT	Tot Assoc AFE's:	\$1,799,706	
Operator:	Enduring Resources LLC	Supervisor:		Phone:		
Production Current/Expected	Oil:	0 / 0	Gas:	0 / 0	Water:	0 / 0

Date:	12/3/2008	Days:	455	DC:	\$32,985	CCC:	\$395,806	CWC:	\$1,785,906
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Activity:	Acidize	Rig Name:	Basic Rig # 1629
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Daily Report Summary : bumper spring that was fished from tbg appeared to have been stuck in paraffin & scale rih to tag fill & 6966' w/ 3 7/8" mill 1 jt of tbg was pulled & mill was pumped off on bottom of well then 51 jts of tbg was laid down

Daily Report Detail: Remarks
 safety meeting w/ rig crew
 waited for CPS slick line received orders to pooh w/ tbg to fined bumper spring
 pooh w/ 44 jts tbg slick line on location
 miru CPS slick line rih found bumper spring @ 2910' note eot @ 3054' bumper spring was stuck in paraffin & scale fished spring rdmo slick line
 continued rih w/ 3 7/8" mill & tbg to tag @ 6966' laid down 1 jt tbg
 dropped ball & pumped 40 bbls kcl wtr to shear mill on POBS
 pooh laid down 23 jts tbg on trailer landed tbg on hanger Eot @ 6217' w/ 16' K.B
 n.d bops n.u well head tree
 r.d prepped to move rig & equipment to Asphalt Wash 11-24-44-06.

 R/U Superior Well service for acid job.
 SITP 493 psi, Pump 18.6 bbl's of 10% HCL down tbg, start pumping down Csg, SICP 543 psi, pumped 30 bbl's 10%. 10 min soak.
 Pump 5 bbl's down tbg, then 28 bbl's 10% down Casing.
 Flushed Tbg w/23 bbl's & 82 bbl's down Casing.

 Total fluid pumped 184 bbl's, 105 bbl's water & 79 bbl's of 10% HCL.

From 7:00 To 7:15	0.25 hr	Category/Rmks:	Safety Meeting : safety meeting w/ rig crew
From 7:15 To 8:45	1.5 hrs	Category/Rmks:	Waiting : waited for CPS slick line received orders to pooh w/ tbg to fined bumper spring
From 8:45 To 9:15	0.5 hrs	Category/Rmks:	TOOH : pooh w/ 44 jts tbg slick line on location
From 9:15 To 9:55	0.67 hr	Category/Rmks:	Move In / Rig UP : miru CPS slick line rih found bumper spring @ 2910' note eot @ 3054' bumper spring was stuck in paraffin & scale fished spring rdmo slick line
From 9:55 To 10:45	0.83 hr	Category/Rmks:	Tripping : continued rih w/ 3 7/8" mill & tbg to tag @ 6966' laid down 1 jt tbg
From 10:45 To 11:10	0.42 hr	Category/Rmks:	Circulating : dropped ball & pumped 40 bbls kcl wtr to shear mill on POBS
From 11:10 To 11:50	0.67 hr	Category/Rmks:	TOOH : pooh laid down 23 jts tbg on trailer landed tbg on hanger Eot @ 6217' w/ 16' K.B
From 11:50 To 12:30	0.67 hr	Category/Rmks:	Nipple Down : n.d bops n.u well head tree
From 12:30 To 13:30	1 hrs	Category/Rmks:	Rig Down : r.d prepped to move rig & equipment to Asphalt Wash 11-24-44-06
From 13:45 To 16:00	2.25 hr	Category/Rmks:	Acidize : superior pumped 3300 gal, 10% HCL acid job.

Date:	12/4/2008	Days:	456	DC:	\$1,000	CCC:	\$396,806	CWC:	\$1,786,906
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Activity:	Swabbing	Rig Name:	Basic Rig # 1629
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Daily Report Summary :

Daily Report Detail: Made 10 swab runs recovered 54 bbls. SDFN.

Date:	12/5/2008	Days:	457	DC:	\$3,500	CCC:	\$400,306	CWC:	\$1,790,406
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Activity:	Swabbing	Rig Name:	Basic Rig # 1629
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Daily Report Summary :

Daily Report Detail: Made 21 swab runs. Recovered ~ 90 bbls. Released Swab unit.

Date:	12/10/2008	Days:	462	DC:	\$7,500	CCC:	\$407,806	CWC:	\$1,797,906
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Activity:	Foam Circ. To unload well.	Rig Name:	
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Daily Report Summary :

Daily Report Detail: Pumping air foam & flowing to kick off well.

From 8:00 To 12:00	4 hrs	Category/Rmks:	Flowback : Pump foam down csg, 1000 psi S/D, flow tbg till dead. 650 csg psi.
From 12:00 To 16:00	4 hrs	Category/Rmks:	Flowback : Pump foam down csg, 1050 psi S/D, flow tbg until dead.
From 16:00 To 19:00	3 hrs	Category/Rmks:	Flowback : Pump foam down csg, 1050 psi S/D, flow till dead.

Well Name : ARCHY BENCH 11-22-22-02

Prospect:				AFE #:	DV00016	
Sec/Twp/Rge:	2 / T11S / R22E			AFE Total:	\$1,629,827	
API #:	430473678600	Field:	Utah	This AFE Cost:	\$1,799,706	
Work Type:	Completion	County, St.:	UINTAH, UT	Tot Assoc AFE's:	\$1,799,706	
Operator:	Enduring Resources LLC	Supervisor:		Phone:		
Production Current/Expected	Oil:	0 / 0	Gas:	0 / 0	Water:	0 / 0

Date :	12/11/2008	Days:	463	DC:	\$1,800	CCC:	\$409,606	CWC:	\$1,799,706
Activity:	Foam Circ. To unload well.			Rig Name:					
Daily Report Summary :									
Daily Report Detail: Move foam unit off location.									

Casing

DateIn	Setting Depth	Jts Run	Type	Size	Weight	Grade	MINID	HoleDiam	TD
4/10/2007	2205.79	50	3. Surface	9.625	36	J-55	0	12.25	2220
Stage: 1, Spacer, 20, 0, Water with green dye, Type III, 0, 0									
Stage: 1, Lead, 0, 500, with .2% Veraset, .25#/sk Flocele, Type III, 1.15, 14.5									
Stage: 1, Tail, 0, 210, with 2% Calcium Chloride, Type V, 1.2, 15.6									
Stage: 1, Displacement, 167.5, 0, Water, , 0, 0									
4/26/2007	6993.54	166	5. Production	4.5	11.6	M-80	0	7.875	7004
Stage: 1, Displacement, 108, 0, , 0, 0									
Stage: 1, Tail, 0, 1210, 50/50 POZ, 2%GEL, 5%SALT, 3%SUPER FL-200, 25#SK SUPERFLAKE, 2%CR-1, Class H, 1.22, 14.3									
Stage: 1, Lead, 0, 185, 16% GEL, 23# SKSUPERFLAKE, 1% SUPERSIL-SP, 10# SKS GILSONITE 2%SUPER CR-1, 3% SALT, 3#SKSUPER GR, Class A, 3.18, 11									

Perforation

Date:	Formation	Perf Status	Upper Perf	Lower Perf	Sht / Ft	Description:
11/20/2007	Mesaverde	Open	6926	6930	2	
11/20/2007	Mesaverde	Open	6860	6864	2	
11/20/2007	Mesaverde	Open	6842	6845	2	
11/21/2007	Mesaverde	Open	6726	6730	2	
11/21/2007	Mesaverde	Open	6718	6720	2	
11/21/2007	Mesaverde	Open	6692	6696	2	
11/21/2007	Mesaverde	Open	6683	6685	2	
11/22/2007	Mesaverde	Open	6495	6500	3	3 1/8" Tag gun
11/22/2007	Mesaverde	Open	6442	6445	3	3 1/8" Tag gun
11/22/2007	Mesaverde	Open	6208	6212	3	3 1/8" Tag gun
11/22/2007	Mesaverde	Open	6198	6202	3	3 1/8" Tag gun
11/24/2007	Mesaverde	Open	6045	6050	3	Reperf. 6042-47'
11/24/2007	Wasatch	Open	5752	5757	3	
11/24/2007	Wasatch	Open	4689	4694	3	

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-47075
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: 2367' FNL - 575' FWL		8. WELL NAME and NUMBER: Archy Bench 11-22-22-2
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 2 11S 22E S		9. API NUMBER: 4304736786
COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT: Undesigned
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: 2/16/2009	<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>Workover - perforate tubing</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.

Commencing 2-16-2009

- MIRU, broach tubing down to SN at 6,170'.
- Perforate tubing from 4,700' to 4,702, between tubing collars at 4,687' and 4,717'.
- Run collar stop and BS.
- Drop plunger
- 2-19-2009 Release Rig. Turned well over to Pumper.

NAME (PLEASE PRINT) <u>Alvin R. (Al) Arlian</u>	TITLE <u>Landman - Regulatory Specialist</u>
SIGNATURE 	DATE <u>3/10/2009</u>

(This space for State use only)

RECEIVED

MAR 17 2009

DIV. OF OIL, GAS & MINING

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

NOTICE OF VIOLATION
OIL AND GAS CONSERVATION ACT

TO THE FOLLOWING OPERATOR:

Name: Enduring Resources
Address: 475 17th Street, Suite 1500
City: Denver State: CO Zip: 80202
Company Representative: Al Arlian Phone: _____

Under the authority of the Utah Oil and Gas Conservation Act, Section 40-6 et. Seq., Utah Code Annotated, 1953, as amended, the undersigned authorized representative of the Utah Division of Oil, Gas and Mining, in the course of his or her work, has discovered alleged violation(s) of the act, rules or permit conditions as described below.

Description of Violation:

43 0A7 36786 11S 22E 2

The reserve pit for the 2 well pad of the Archy Bench 11-22-12-2 and Archy Bench 11-22-22-2 (SW/NW Section 2, T11S, R25E) has been left open for a period of over one year since completion of the wells.

This is in violation of the following act, rule, or permit condition:

Utah Administrative Rule R649-3-16.3 states, "Following drilling and completion of the well the reserve pit shall be closed within one year..."

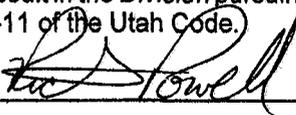
The following action should be taken to remedy this violation:

This reserve pit must be closed by May 10, 2009

Resolution deadline: May 10, 2009 Additional information / materials attached? Yes No

This notice shall remain in effect until it is modified, terminated, or vacated by a written notice of an authorized representative of the director of the Division of Oil, Gas and Mining.

Failure to resolve this violation as described above, will result in the Division pursuing enforcement action as outlined in Rule R649-10, Administrative Procedures, and Section 40-6-11 of the Utah Code.

Division Representative Signature:  Date: 4/8/09
Name and Title: Richard Powell / Environmental Scientist Phone: (435) 790-6145

NOTICE OF VIOLATION

A Notice of Violation may be issued when an operator is regarded to be in violation of the Utah Oil and Gas Conservation Act (Section 40-6 et. Seq., Utah Code Annotated, 1953, as amended), the Utah Oil and Gas Conservation General Rules, or the conditions of any associated permit or reporting requirement.

The Utah Oil and Gas Conservation Act and Utah Oil and Gas Conservation General Rules can be found on the division's web site at:

<http://ogm.utah.gov>

A Notice of Violation shall remain in effect and on the records of the operator until it is modified, terminated, or vacated by a written notice of violation closure prepared by an authorized representative of the director of the Division of Oil, Gas and Mining.

Written responses to a Notice of Violation should be sent to:

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

Fax: 801-359-3940

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47075
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.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: ARCHY BENCH 11-22-22-2
2. NAME OF OPERATOR: Enduring Resources, LLC	9. API NUMBER: 43047367860000
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 , Denver, CO, 80202	PHONE NUMBER: 303 350-5114 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 0575 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 02 Township: 11.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: BITTER CREEK 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 Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/20/2009	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Interim Reclamation"/>

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

Archy Bench 11-22-12-2 and 11-22-22-2 Pit Reclamation The pit backfill was reseeded 11/20/2009. The location was disked to prepare the seed bed, the seed broadcast over the seed bed and harrowed to bury the seed. The location was seeded with the following seed mix. Double the BLM recommended PLS per acre were used because the seed could not be planted due to rocky location and was broadcast instead. 16# -Squirrel Tail Grass, 12# -Galleta Grass, 12#- Indian Rice Grass, 8# -Crested Wheat Grass The Packing Slip and bag tags for the seed will be kept in the Vernal Office's Well File and available on request.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 December 03, 2009

NAME (PLEASE PRINT) Alvin Arlian	PHONE NUMBER 303 350-5114	TITLE Landman-Regulatory
SIGNATURE N/A		DATE 12/3/2009

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-47075	
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:	
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: Enduring Resources, LLC		8. WELL NAME and NUMBER: ARCHY BENCH 11-22-22-2	
3. ADDRESS OF OPERATOR: 511-16th Street, Suite 700 , Denver, CO, 80202		9. API NUMBER: 43047367860000	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 0575 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 02 Township: 11.0S Range: 22.0E Meridian: S		9. FIELD and POOL or WILDCAT: BITTER CREEK	
		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 Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text" value="Wellbore Cleanout"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Scale Cleanout 10/01/2011 - 10/03/2011 RU. TOOH w/ tubing and LD perf jt. RIH w/ a 3-7/8" mill and tag at 6776'. Mill up scale and cleanout to 6937'. Run a POBS, 1 jt, SN and 199 jts tubing. Land EOT @ 6220' w/ SN @ 6189'. Accepted by the Acidize w/ 20 bbls 15% HCl and chase with 35 BFW. Swab to kickoff. Utah Division of <div style="text-align: right; font-weight: bold; font-size: 1.2em;"> Oil, Gas and Mining FOR RECORD ONLY </div>			
NAME (PLEASE PRINT) Alvin Arlian		PHONE NUMBER 303 350-5114	TITLE Landman-Regulatory
SIGNATURE N/A		DATE 11/9/2011	

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.	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47075
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: Enduring Resources, LLC	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 511-16th Street, Suite 700 , Denver, CO, 80202	8. WELL NAME and NUMBER: ARCHY BENCH 11-22-22-2
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2367 FNL 0575 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 02 Township: 11.0S Range: 22.0E Meridian: S	9. API NUMBER: 43047367860000
9. FIELD and POOL or WILDCAT: BITTER CREEK	COUNTY: UINTAH
9. API NUMBER: 43047367860000	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/26/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input checked="" type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Upon DOG&M approval: Water Shut-off. 1. Blow both sides down to sales prior to MIRU. 2. MIRU. 3. Kill well if necessary and NU BOPE. 4. TOOH w/ tubing. 5. RU eline and run a gauge ring to +or- 6,500'. 6. Set a 4 1/2" CIBP @ +or- 6,400' to isolate the lower perms. RDMO eline. 7. RIH drifting tubing and land w/ EOT @ +or- 6,220'. RDMO. 8. Swab if necessary to kickoff well and return to sales.

Approved by the
 Utah Division of
 Oil, Gas and Mining
 January 19, 2012

Date: _____

By: _____

NAME (PLEASE PRINT) Alvin Arlian	PHONE NUMBER 303 350-5114	TITLE Landman-Regulatory
SIGNATURE N/A	DATE 1/16/2012	

