

# NEWFIELD



Route #3 Box 3630  
Myton, Utah 84052  
(435) 646-4825, FAX: (435) 646-3031

January 28, 2008

State of Utah  
Division of Oil, Gas & Mining  
Attn: Diana Mason  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Application for Permit to Drill  
State 13-2T-9-16

Dear Diana:

Enclosed find an APD on the above referenced Deep Gas well. Please Contact Dave Allred to set up an On-Site date. The proposed location is an Exception Location. Our Land Department will send you the required Exception Location Letter. If you have any questions, feel free to give either Dave Allred or myself a call.

Sincerely,

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

RECEIVED

JAN 29 2008

DIV. OF OIL, GAS & MINING

STATE OF UTAH  
**DIVISION OF OIL, GAS AND MINING**

5. LEASE DESIGNATION AND SERIAL NO.  
**ML-21839**

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

7. UNIT AGREEMENT NAME  
**N/A**

8. FARM OR LEASE NAME  
**N/A**

9. WELL NO.  
**State 13-2T-9-16**

10. FIELD AND POOL OR WILDCAT  
**Monument Butte**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN  
**SW/SW  
 Sec. 2, T9S, R16E**

12. County  
**Duchesne**

13. STATE  
**UT**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN**

1a. TYPE OF WORK **DRILL**  **DEEPEEN**

1b. TYPE OF WELL

OIL  GAS  OTHER

SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
**Newfield Production Company**

3. ADDRESS AND TELEPHONE NUMBER:  
**Route #3 Box 3630, Myton, UT 84052 Phone: (435) 646-3721**

4. LOCATION OF WELL (FOOTAGE)  
 At Surface **SW/SW 577320X 4434086Y 1025' FSL 547' FWL**  
 At proposed Producing Zone **40.055364 -110.093488**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**Approximately 14.0 miles southwest of Myton, UT**

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) <b>Approx. 547' f/lse line &amp; 1025' f/unit line</b>	16. NO. OF ACRES IN LEASE <b>640.00</b>	17. NO. OF ACRES ASSIGNED TO THIS WELL <b>40</b>
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. <b>NA</b>	19. PROPOSED DEPTH <b>17,118</b>	20. ROTARY OR CABLE TOOLS <b>Rotary</b>

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**5569' GL**

22. APPROX. DATE WORK WILL START\*  
**1st Quarter 2008**

**23. PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16"	65.0#	60'	See Attachment
14.75"	10 3/4"	40.5#	1,000'	See Attachment
9.875"	7 5/8"	39#	10,000'	See Attachment
6.5"	4 1/2"	15.1#	TD	See Attachment

DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give date on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

\*The actual cement volumes will be calculated off of the open hole logs, plus 15% over capiler volume:

See attached Ten Point Drilling Program

24. Name & Signature *Mandie Crozier* Title: Regulatory Specialist Date: 1/28/2008  
**Mandie Crozier**

(This space for State use only)

API Number Assigned: 43-013-33892 APPROVAL: \_\_\_\_\_

Approved by the  
 Utah Division of  
 Oil, Gas and Mining

Date: 04-24-08  
 By: *[Signature]*

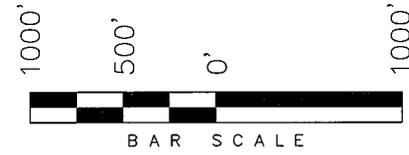
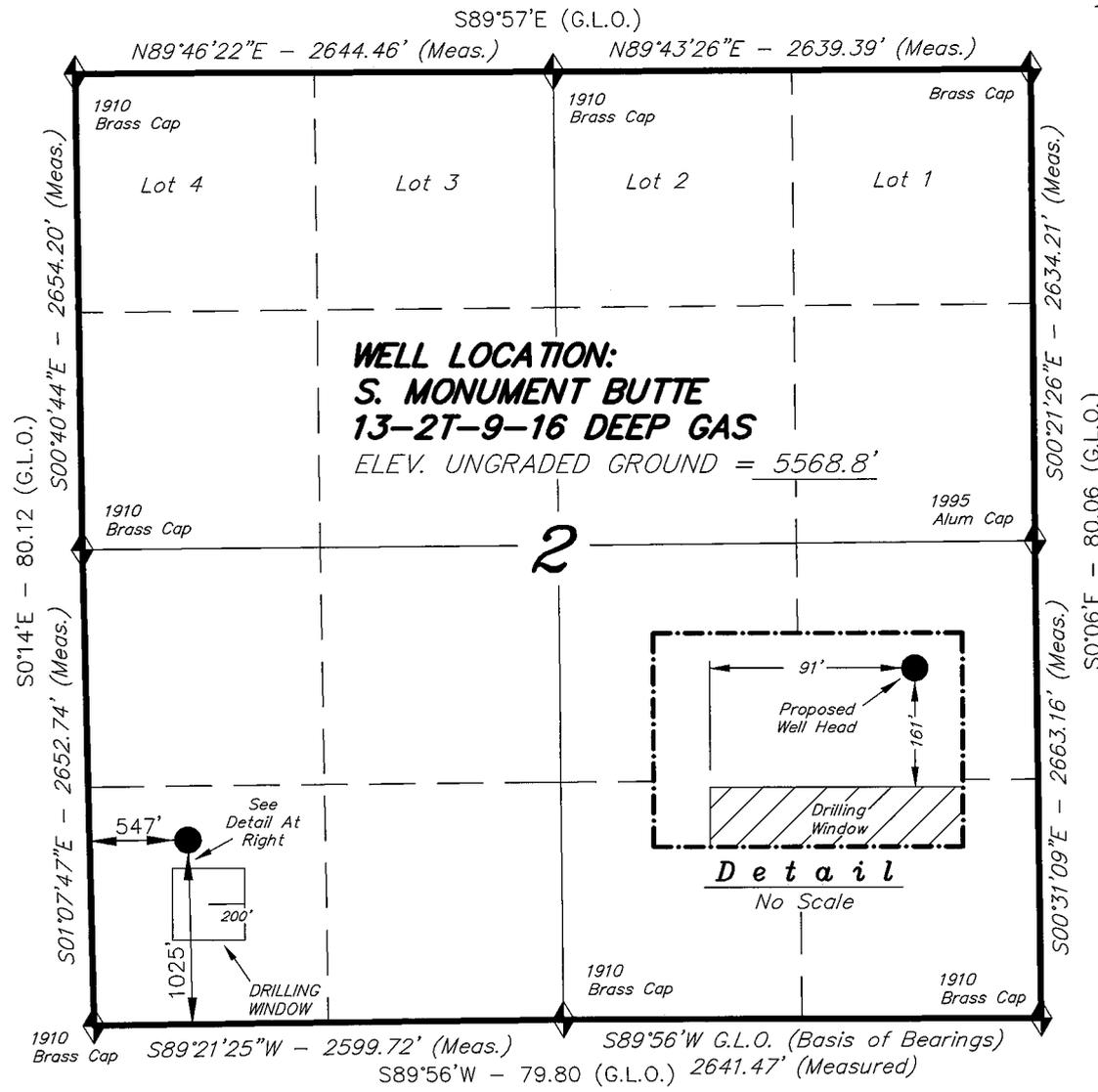
\*See Instructions On Reverse Side

**RECEIVED**  
**JAN 29 2008**  
 DIV. OF OIL, GAS & MINING

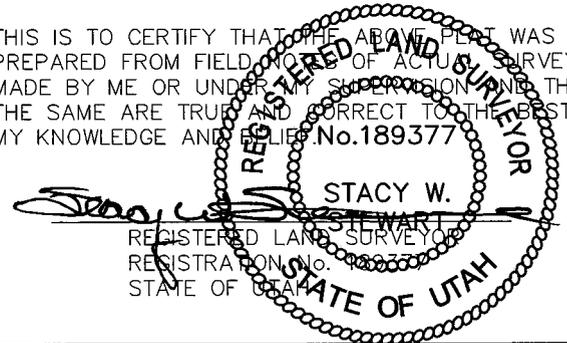
# T9S, R16E, S.L.B.&M.

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, S. MONUMENT BUTTE  
13-2T-9-16 DEEP GAS, LOCATED AS SHOWN  
IN THE SW 1/4 SW 1/4 OF SECTION 2, T9S,  
R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAN 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



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

DATE SURVEYED: 08-22-07	SURVEYED BY: C.M.
DATE DRAWN: 01-18-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

◆ = SECTION CORNERS LOCATED

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

**S. MONUMENT BUTTE  
13-2T-9-16 DEEP GAS**  
(Surface Location) NAD 83  
LATITUDE = 40° 03' 19.46"  
LONGITUDE = 110° 05' 38.68"

**NEWFIELD PRODUCTION COMPANY  
STATE 13-2T-9-16  
SW/SW SECTION 2, T9S, R16E  
DUCHESNE COUNTY, UTAH**

**TEN POINT DRILLING PROGRAM**

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Wasatch	6,222'
Mesaverde	11,384'
Blackhawk	13,966'
Mancos	14,918'
Proposed TD	17,118'

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Wasatch/Mesaverde/Blackhawk/Mancos (Gas)      6,222' - TD

4. **PROPOSED CASING AND CEMENT PROGRAM:**

Casing Design:

Description	Hole Size	Interval		Weight (lb/ft)	Grade	Coupling	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Design Factors		
		Top	Btm							Burst	Collapse	Tension
Conductor 16"	20"	0'	60'	65.0	H-40	STC	--	--	--	--	--	--
Surface 10-3/4"	14.75"	0'	1,000'	40.5	J-55	STC	8.33	8.33	13.0	5.11	4.97	10.37
Interm 7-5/8"	9.875"	0'	10,000'	39.0	N-80	LTC	9.5	10.0	16.0	2.30	2.18	2.05
Prod 4-1/2"	6.5"	0'	17,118'	15.1	P-110	BTC	12.5	13.0	18.0	1.68	1.37	1.88

Cement Design:

Job	Fill	Description	Sacks FT <sup>3</sup>	Excess	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
Conductor	60'	Class G w/ 2% CaCl <sub>2</sub> , 0.25 lbs/sk Cello Flake	61 71	50%	15.8	1.17
Surface Casing Lead	500'	Prem Lite II w/ 3% KCl, 2% Bentonite (or equivalent cement)	417 128	30%	11.0	3.26
Surface Casing Tail	500'	50/50 Poz Class G w/ 3% KCl, 2% Bentonite (or equivalent cement)	417 356	30%	14.3	1.27
Intern Casing Lead	5,500'	Prem Lite II w/ 3% KCl, 2% Bentonite (or equivalent cement)	471 1536	30%	11.0	3.26
Intern Casing Tail	1,000'	50/50 Poz Class G w/ 3% KCl, 2% Bentonite (or equivalent cement)	220 279	30%	14.3	1.27
Prod Casing	8,118'	50/50 Poz Class G w/ 3% KCl, 2% Bentonite (or equivalent cement)	997 1266	30%	14.3	1.27

\*Actual cement volumes will be 15% over caliper volume.

\*Cement slurries will be equal to or greater in strength than the slurries listed above.

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

Section	BOP equipment
Intermediate	13-5/8" 5M double ram, 13-5/8" 5M annular, rotating head
Production	11" 10M double ram, 11" 5M annular, rotating head

BOP equipment will be function tested daily. Choke manifold pressure rating will be equal to or greater than the pressure rating of the BOP rams. Refer to Exhibit C for a diagram of BOP equipment.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

A fresh water system will be utilized to drill the well. When necessary, to control formation fluids, the system will be weighted with the addition of bentonite gel and barite. This fresh water system typically will contain Total Dissolved Solids (TDS) of less than 3000 PPM. No chromates will be utilized in the fluid system.

In the event that the surface hole is to be drilled with air, Newfield requests a variance to regulations requiring a straight run blooie line. Newfield proposes that the flowline will contain two (2) 90-degree turns. Newfield also requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. Newfield requests authorization to ignite as needed, and the flowline at 80'.

Newfield Production Company requests that the spark arrest, exhaust, or water cooled exhaust be waived under the Special Drilling Operations of Onshore Order #2.

MUD PROGRAM	MUD TYPE	MAX MUD WEIGHT
Surface -1,000'	air/fresh water system	8.33 ppg
1,000' - 10,000'	fresh water based system	10.0 ppg
10,000 - TD	fresh water based system	13.0 ppg

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a kelly cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Compensated Neutron-Formation Density Log, Dual Induction, Gamma Ray and Caliper log from TD to base of the Green River @ 6,222' +/- . A cement bond log will be run from PBTD to cement top in the production casing. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum pressure is equal to a 0.65 psi/ft gradient. It is not anticipated that abnormal temperatures will be encountered; or that any other abnormal hazards such as H<sub>2</sub>S will be encountered in this area.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence upon approval of the APD, and take approximately sixty (60) days from spud to rig release.

NEWFIELD PRODUCTION COMPANY  
STATE 13-2T-9-16  
SW/SW SECTION 2, T9S, R16E  
DUCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. EXISTING ROADS

See attached **Topographic Map "A"**

To reach Newfield Production Company well location site State 13-2T-9-16 located in the SW¼ SW¼ Section 2, T9S, R16E, S.L.B. & M., Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles ± to the junction of this highway and UT State Hwy 53; proceed southwesterly along Hwy 53 - 1.7 miles ± to its junction with an existing road to the southeast; proceed southeasterly - 4.5 miles ± to its junction with an existing road to the southwest; proceed southwesterly - 2.9 miles ± to its junction with an existing road to the southeast; proceed southeasterly - 2.4 miles ± to its junction with an existing road to the southeast; proceed southeasterly - 1.0 miles ± to its junction with an existing road to the northeast; proceed northeasterly - 0.1 miles ± to its junction with the beginning of the proposed access road to the well location.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

2. PLANNED ACCESS ROAD

Approximately 100' of access road is proposed. See attached **Topographic Map "B"**.

The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%.

There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

3. LOCATION OF EXISTING WELLS

Refer to **EXHIBIT B**.

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted Desert Tan. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Fresh water purchased from the Johnson Water District will be used for drilling. A temporary poly pipeline may be used for water transportation from our existing supply line from Johnson Water District, or trucked from Newfield Production Company's injection facilities – **EXHIBIT A**.

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the

produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

8. **ANCILLARY FACILITIES:**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT:**

See attached Location Layout Sheet.

**Fencing Requirements**

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

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

10. **PLANS FOR RESTORATION OF SURFACE:**

a) **Producing Location**

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

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) **Dry Hole Abandoned Location**

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

11. **SURFACE OWNERSHIP:** State of Utah

12. **OTHER ADDITIONAL INFORMATION:**

- a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.
- b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

The Archaeological Cultural Resource Survey that was conducted by A.E.R.C. for the original 13-2-9-16 well pad is attached.

**Additional Surface Stipulations**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

**Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the State 13-2T-9-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the State 13-2T-9-16 Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

13. **LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**

**Representative**

Name: Dave Allred  
Address: Newfield Production Company

Route 3, Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

Please be advised that Newfield Production Company is considered to be the operator of well #13-2T-9-16, SW/SW Section 2, T9S, R16E, LEASE #ML-21839, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4471291.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

1/28/08  
Date \_\_\_\_\_

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# CULTURAL RESOURCE EVALUATION OF 16 PROPOSED INLAND UNITS IN THE SOUTH WELLS DRAW -- CASTLE PEAK DRAW -- PARIETTE BENCH LOCALITIES OF UINTAH & DUCHESNE COUNTIES, UTAH

Report Prepared for Inland Resources, Inc.

Units 6-10(9-16), 13-10(9-16), 7-36(8-17), 11-36(8-17), 1-35(8-17), 7-35(8-17), 9-35(8-17)  
9-2(9-17), 15-2(9-17), 16-2(9-17), 1-11(9-17), 2-11(9-17), 3-11(9-17), 6-11(9-17), 7-11(9-17),  
& 8-11(9-17)

Department of Interior Permit No.: UT-98-54937

Utah State Project No.: UT-98-AF-0166bs

AERC Project 1597 (CNG98-3B)

Author of the Report:

F. Richard Hauck



## ARCHEOLOGICAL-ENVIRONMENTAL RESEARCH CORPORATION

181 North 200 West, Suite 5 -- Bountiful, Utah 84010

P.O. Box 853, Bountiful, Utah 84011

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E-mail: [ari@xmission.com](mailto:ari@xmission.com) Web page: [www.ari-aerc.org](http://www.ari-aerc.org)

April 20, 1998

## Abstract

An intensive cultural resource examination has been conducted for Inland Resources, Inc. of 16 potential well pad locations (6-10, 13-10, 7-36, 11-36, 1-35, 7-35, 9-35, 9-2, 15-2, 16-2, 1-11, 2-11, 3-11, 6-11, 7-11, 8-11), additional bulk acreage in Sections 2 & 11 (Township 9 South, Range 17 East), and associated access routes all situated in the South Wells Draw Unit and Pariette Bench -- Castle Peak Draw localities of Duchesne and Uintah Counties, Utah (see Maps 1 through 5). The purpose of this report is to detail the result of these evaluations, portions of which were conducted at earlier dates. A total of 873.33 acres was examined for cultural resource presence. This acreage includes 855 acres of parcel and bulk area survey and 18.33 acres of 100 foot-wide access route corridors. Eleven of the proposed development areas associated with these well locations are situated on federal lands (756.4 acres) administered by the Vernal District of the Bureau of Land Management, Diamond Mountain Resource Area, Vernal, Utah. The remaining five locations (116.93 acres) are situated on Utah State lands.

Field examinations were conducted between March 17 and April 9, 1998. AERC archaeologists Brian Mueller, Marcel Corbeil, Kris Kunkel, Alan Hutchinson, Stance Hurst, Richard Francisco, Tammy Gibson, and Christy Gobber conducted the field survey program under the direction of Glade Hadden, and/or F.R. Hauck.

Sites 42DC 1146 and 42DC 1148 are situated in the proximity of Units 6-10 and 13-10 in Section 10 of Township 9 South, Range 16 East. Sites 42UN 1330, 42UN 2528, 42UN 2529, and 42UN 2530 are situated in the proximity of Units 16-2 and 1-11 in Sections 2 and 11 of Township 9 South, Range 17 East; these six cultural resources will not be endangered by the development of these well locations, however, the access route into Unit 1-11 will need to be carefully designed to avoid nearby cultural resource sites 42UN 2528, 42UN 2529, and 42UN 1330.

In addition, construction on Unit 1-11 should be restricted to the south side of the drainage that forms the southern and eastern periphery of Site 42UN 1330 in order to facilitate the preservation of that resource situated on the northeastern periphery of Section 11, Township 9 South, Range 17 East.

Sites 42UN 2526 and 42UN 2527 are respectively adjacent to Units 11-36 and 7-36 in Section 36, Township 8 South, Range 17 East. Site 42UN 2526 is a significant, open occupation and avoidance by moving the pad's staked location 100 feet to the southwest is recommended to ensure site preservation. AERC also recommends that the northern and eastern peripheries of the relocated well pad be fenced to facilitate the continued preservation of the site from random vehicle traffic originating on the well pad location. Site 42UN 2527 is not considered to be a significant resource; it has neither depth potential nor contextual integrity, and thus lacks potential for inclusion on the National Register of Historic Places. AERC does not recommend avoidance of this cultural locus.

No previously recorded significant or National Register eligible cultural resources will be adversely affected by well location development and access/pipeline route corridor development within the acreage cleared and reported within this document with adherence to these recommendations.

AERC recommends project clearance based on adherence to the stipulations noted above and repeated in the final section of this report.

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## GENERAL INFORMATION

From March 17 through April 9, 1998, AERC archaeologists Brian Mueller, Marcel Corbeil, Kris Kunkel, Alan Hutchinson, Stance Hurst, Richard Francisco, Tammy Gibson, and Christy Gobber under the direction of Glade Hadden and/or F.R. Hauck, conducted intensive cultural resource evaluations of 16 proposed well locations (6-10, 13-10, 7-36, 11-36, 1-35, 7-35, 9-35, 9-2, 15-2, 16-2, 1-11, 2-11, 3-11, 6-11, 7-11, 8-11), additional bulk acreage in Sections 2 & 11 (Township 9 South, Range 17 East), and associated access routes all situated in the South Wells Draw Unit and Pariette Bench -- Castle Peak Draw localities of Duchesne and Uintah Counties, Utah (see Maps 1 through 5). A total of 873.33 acres was examined for cultural resource presence.

Eleven of the proposed development areas (756.4 acres) associated with these survey locations are situated on federal lands administered by the Vernal District of the Bureau of Land Management, Diamond Mountain Resource Area, Vernal, Utah. The remaining five locations (7-36, 11-36, 9-2, 15-2, and 16-2 are situated on Utah State land (116.93 acres).

The purpose of this field study and this report is to identify and document cultural site presence and assess National Register potential significance relative to established criteria (cf. Title 36 CFR 60.6). The future development of these proposed well locations and associated access routes requires an archaeological evaluation in compliance with U.C.A. 9-8-404, the Federal Antiquities Act of 1906, the Reservoir Salvage Act of 1960-as amended, the National Environmental Policy Act of 1969, the Federal Land Policy and Management Act of 1979, the Archaeological Resources Protection Act of 1979, the Native American Religious Freedom Act of 1978, the Historic Preservation Act of 1980, and Executive Order 11593.

In addition to documenting cultural identity and significance, mitigation recommendations relative to the preservation of cultural data and materials can be directed to the Vernal District Office of the Bureau of Land Management, and to the Utah State Antiquities Section, Division of State History.

### Project Location

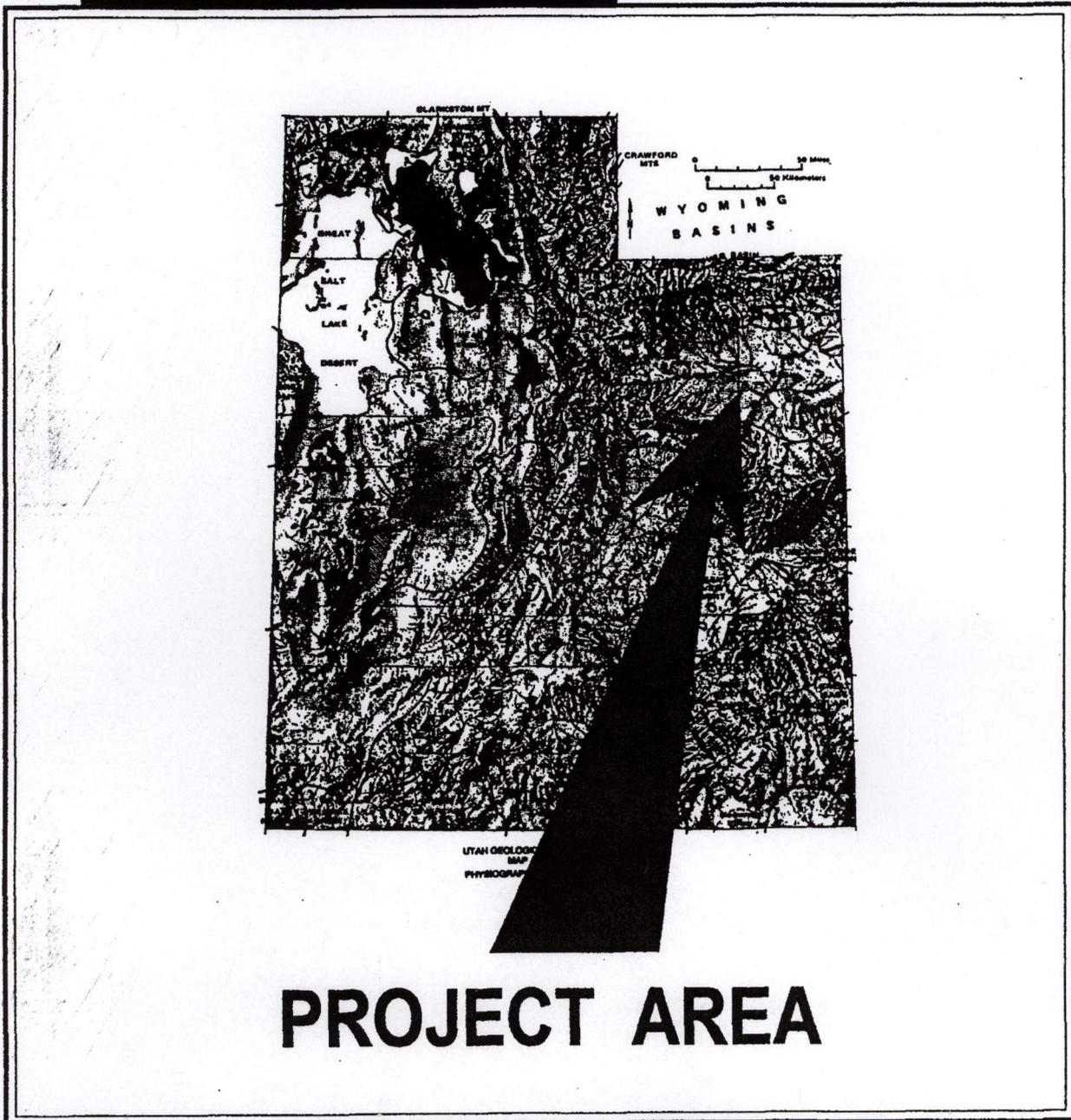
The project area is located in the South Wells Draw Unit, Pariette Bench and Castle Peak Draw localities of Duchesne and Uintah Counties, Utah. The various project areas are situated on the Myton SE and Pariette Draw SW 7.5 minute quads as shown on Maps 2 through 5. The inventoried areas and surveyed well locations and acreages are located as follows:

**South Wells Draw Unit (see Maps 2 and 3)** Two well locations were examined during bulk area inventories conducted during the winter of 1997-98. Map 3 shows the perimeters of those bulk surveys. Winter conditions precluded the recording of the associated cultural resources (42DC 1146 and 42DC 1148) in that report (c.f., Hauck and Hadden 1997). This present report completes the documentation of these 40 acre survey parcels with the reporting of cultural sites discovered in those parcels prior to the recent staking of these two well locations.

**MAP 1  
PROJECT AREA FOR THE INLAND  
1998 DEVELOPMENT  
PROGRAM**



**PROJECT: IPC98-3B  
SCALE: 1: 200,650  
DATE: 4/ 15/ 98**



**PROJECT AREA**

**TOWNSHIP: multiple  
RANGE: multiple  
MERIDIAN: multiple**

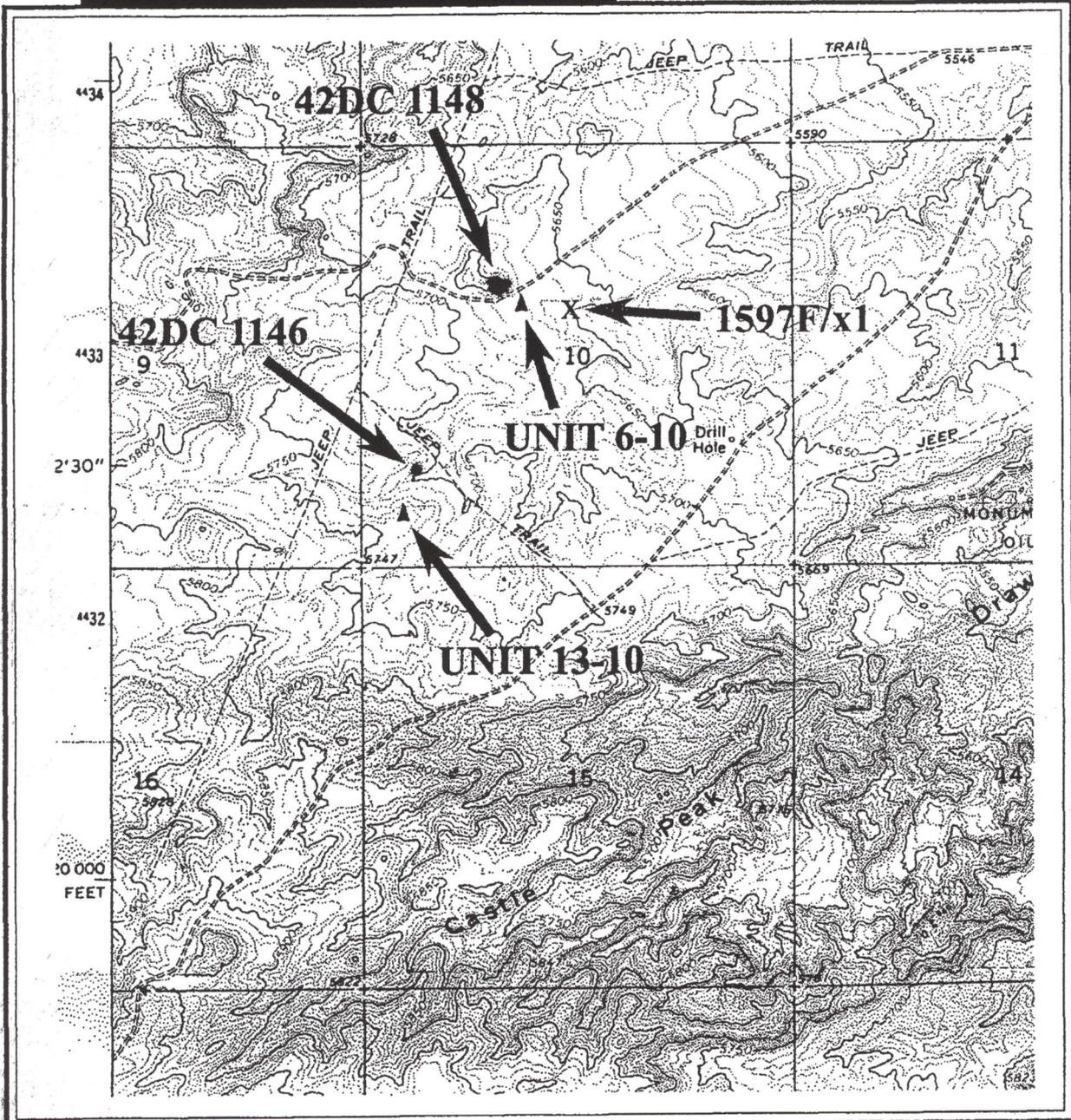
Utah Geological and Mineral Survey  
Map 43 1977  
Physiographic Subdivisions of Utah  
by W.L. Stokes



**MAP 2**  
**CULTURAL RESOURCE SURVEY**  
**OF INLAND UNITS 6-10 & 13-10**  
**IN THE SOUTHWELLS DRAW UNIT**  
**OF DUCHESNE CO. UTAH**



**PROJECT:** IPC98-3B  
**SCALE:** 1:24,000  
**QUAD:** Myton SW  
**DATE:** April 15, 1998



**TOWNSHIP:** 9 South  
**RANGE:** 16 East  
**MERIDIAN:** SL B. & M.

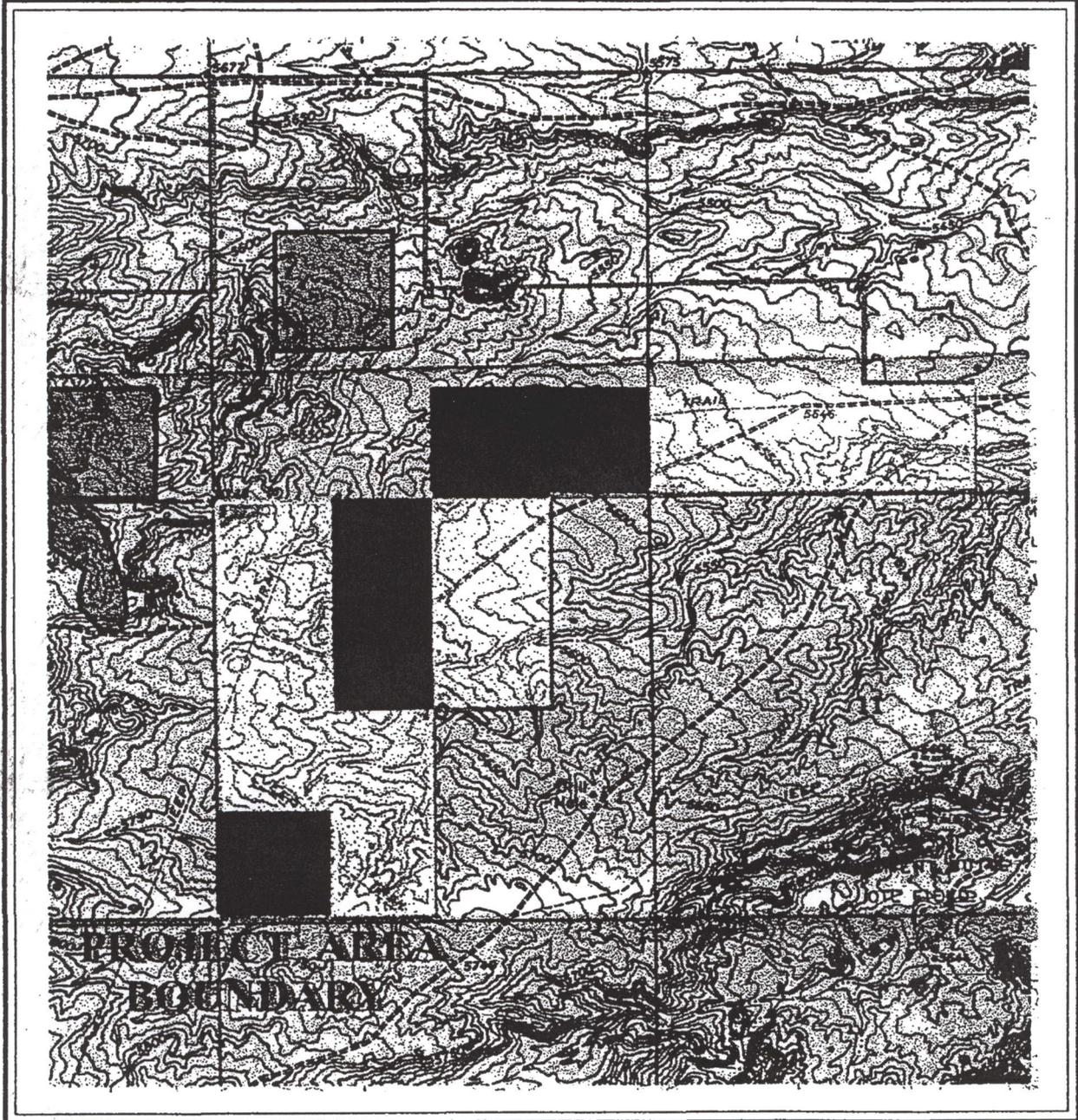
**LEGEND**

- WELL LOCATION
- CULTURAL SITE
- ISOLATED ARTIFACT

**MAP 3  
CULTURAL RESOURCE SURVEY  
OF INLAND UNITS 6-10 & 12-16  
IN THE SOUTH WELLS DRAW UNIT  
OF DUCHESNE CO., UTAH**



**PROJECT:** IPC98-3B  
**SCALE:** 1:24,000  
**QUAD:** Myton SW  
**DATE:** April 15, 1998



**TOWNSHIP:** 9 South  
**RANGE:** 16 East  
**MERIDIAN:** SL B. & M.

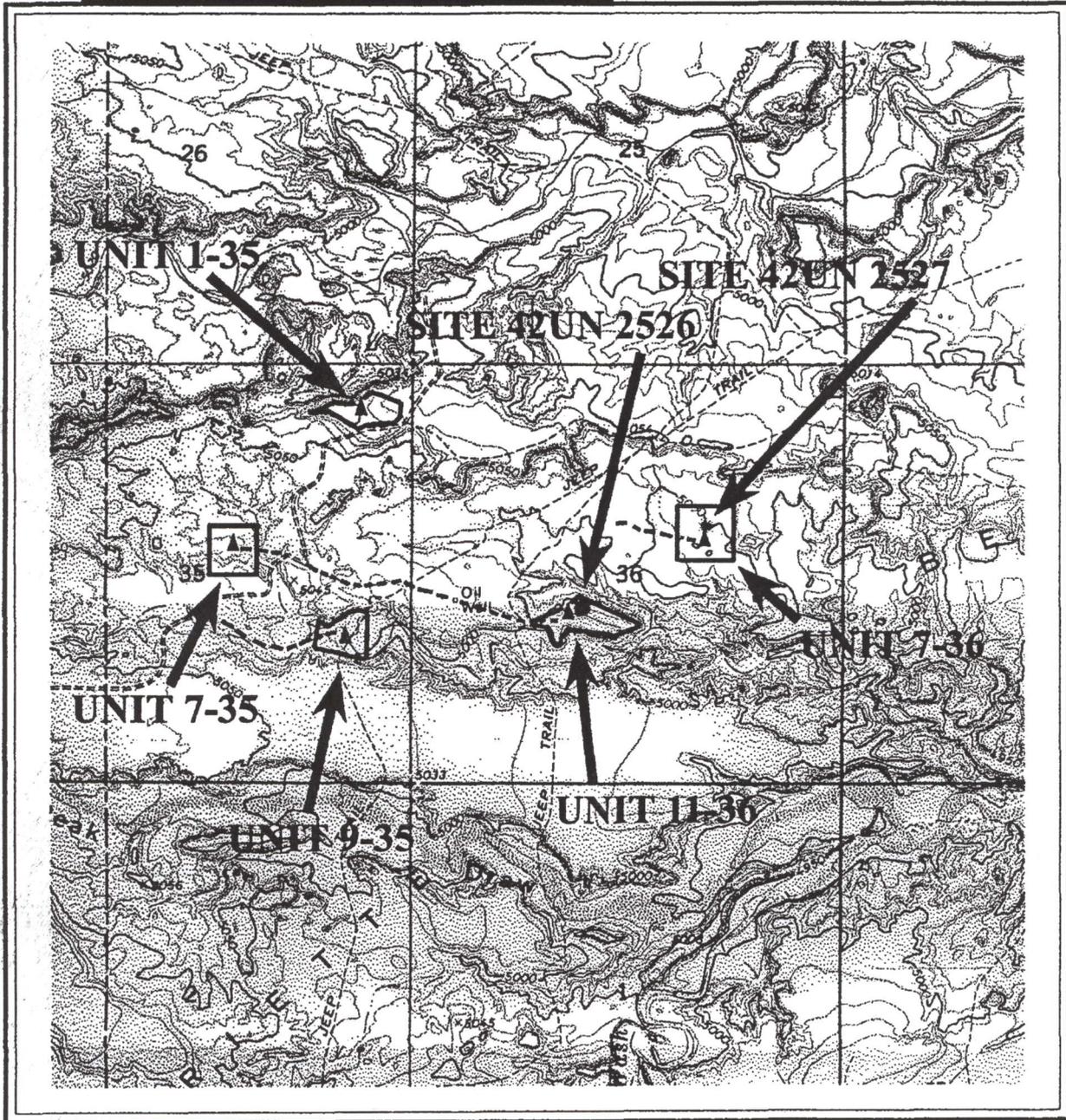
**LEGEND**

- △ WELL LOCATION
- CULTURAL SITE
- X ISOLATED ARTIFACT

**MAP 1**  
**CULTURAL RESOURCE SURVEY**  
**OF INLAND UNITS 7-36, 11-36, 1-35,**  
**7-35 & 9-35 IN THE PARIETTE BENCH**  
**LOCALITY OF UTAH COUNTY, UTAH**



**PROJECT:** IPC98-3B  
**SCALE:** 1:24,000  
**QUAD:** Pariette Draw SW  
**DATE:** April 15, 1998



**LEGEND**



**TOWNSHIP:** 8 South  
**RANGE:** 17 East  
**MERIDIAN:** SL B. & M.

△ WELL LOCATION  
 □ 10 ACRE SURVEY AREA

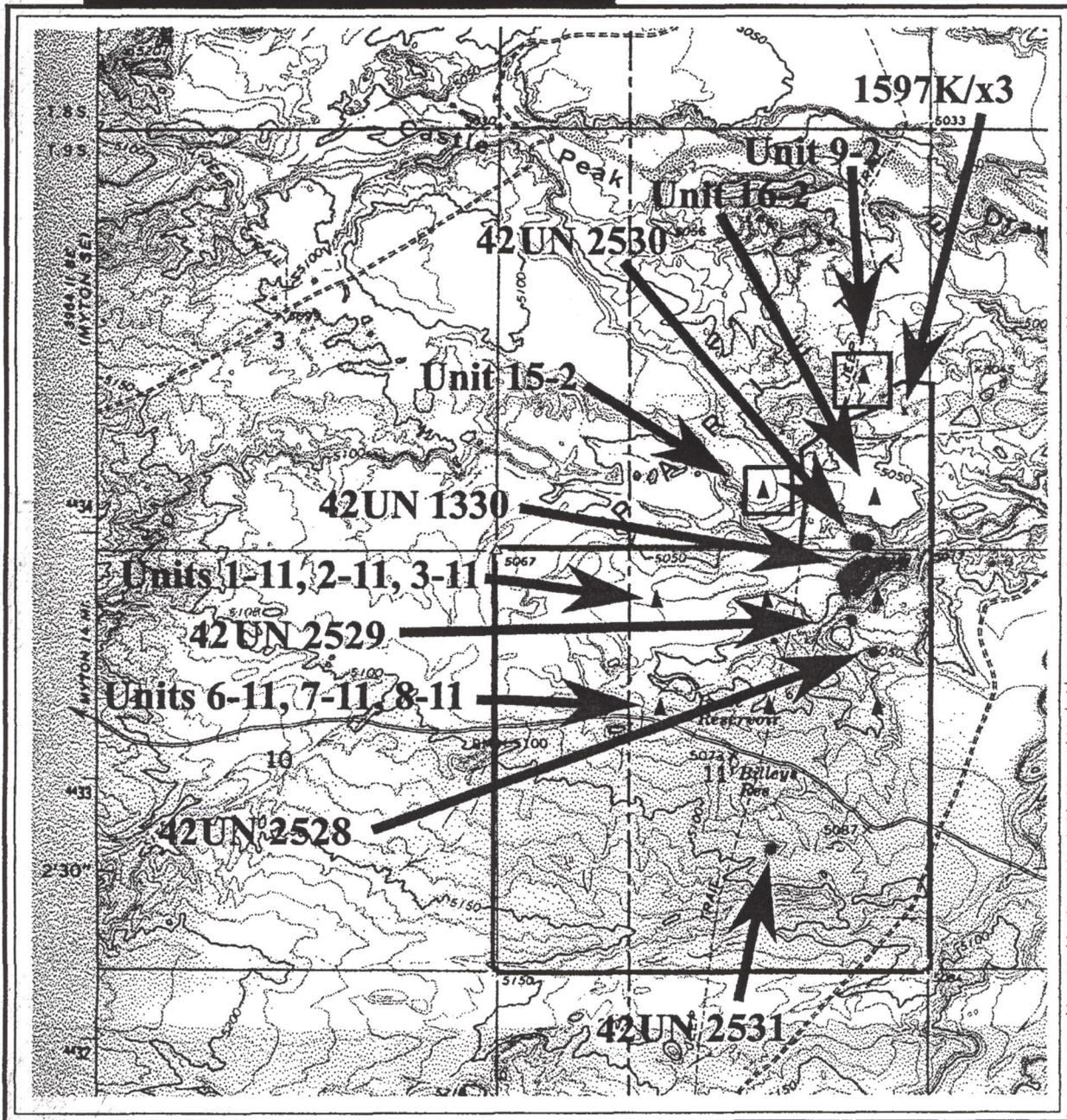
- - - ACCESS ROUTE

• CULTURAL SITE  
 X ISOLATED ARTIFACT

**MAP 5**  
**CULTURAL RESOURCE SURVEY**  
**OF INLAND UNITS 9-2, 15-2, 16-2, 1-11,**  
**2-11, 3-11, 6-11, 7-11, & 8-11**  
**IN THE CASTLE PEAK DRAW**  
**LOCALITY OF UTAH COUNTY, UTAH**



**PROJECT:** IPC98-3B  
**SCALE:** 1:24,000  
**QUAD:** Pariette Draw SW  
**DATE:** April 15, 1998



**TOWNSHIP:** 9 South  
**RANGE:** 17 East  
**MERIDIAN:** SL B. & M.

**LEGEND**

-  10 ACRE SURVEY AREA
-  WELL LOCATION
-  CULTURAL SITE
-  BULK SURVEY AREA
-  ISOLATED ARTIFACT

**Unit 6-10** — A 40 acre area was evaluated in association with the SE 1/4 of the NW 1/4 of Section 10, Township 9 South, Range 16 East (see Map 3) as reported in Hauck and Hadden 1997.

**Unit 13-10** — A 40 acre area was evaluated in association with the SW 1/4 of the SW 1/4 of Section 10, Township 9 South, Range 16 East (see Map 3) as reported in Hauck and Hadden 1997.

**Pariette Bench Locations (see Map 4)** The inventory in this locality included ten acre surveys at five separate well sites including four access route corridor evaluations. Units 7-36 and 11-36, which are situated on Utah State land, were initially reported in January of this year (c.f., Hauck 1998a); the recording of the sites associated with these two well pads was postponed until March due to weather conditions.

**Unit 1-35** — AERC archaeologists evaluated a 10 acre area adjacent to this present center stake upon the top of the mesa where this location is staked. Unit 1-35 is situated adjacent to an existing roadway in the NE 1/4 of the NE 1/4 of Section 35, Township 8 South, Range 17 East.

**Unit 7-35** — A 10 acre area was examined adjacent to this present center stake within a basin where this location is staked. Unit 7-35 is situated in the SW 1/4 of the NE 1/4 of Section 35, Township 8 South, Range 17 East. A .15 mile-long access corridor ( 1.8 acres) was also examined in association with this location.

**Unit 9-35** — A 10 acre area was examined adjacent to this present center stake within the arroyo bottom where this location is staked. Unit 9-35 is situated in the NE 1/4 of the SE 1/4 of Section 35, Township 8 South, Range 17 East. A .38 mile-long access corridor ( 4.6 acres) was also examined in association with this location.

**Unit 7-36** — A 10 acre area was evaluated adjacent to this present center stake by AERC archaeologists as noted above. Unit 7-36 is situated in the SW 1/4 of the NE 1/4 of Section 36, Township 8 South, Range 17 East. A .23 mile-long access corridor ( 2.75 acres) was also examined in association with this location.

**Unit 11-36** — AERC archaeologists evaluated a 10 acre area adjacent to this present center stake upon the top of the isolated mesa where this location is staked as noted above. Unit 11-36 is situated in the NE 1/4 of the SW 1/4 of Section 36, Township 8 South, Range 17 East. A .76 mile-long access corridor ( 9.18 acres) was also examined in association with this location.

**Castle Peak Draw Locations (see Map 5)** The inventory included the nine following well locations that are situated in Castle Peak Draw -- Pariette Bench locality. This inventory specifically involves two 10 acre parcel examinations associated with Units 9-2 and 15-2, a 65 acre bulk parcel associated with Unit 16-2, and a 640 acre bulk area (Section 11) evaluated in conjunction with Units 1-11, 2-11, 3-11, 6-11, 7-11, 8-11 and any other Inland well locations planned for that section. Units 9-2, 15-2 and 16-2 are all situated on Utah State land.

**Unit 9-2** — AERC archaeologists evaluated a 10 acre area adjacent to this present center stake. This unit is situated in the NE 1/4 of the SE 1/4 of Section 2, Township 9 South, Range 17 East. Since no access route has been staked into this location, future investigations will include the access and pipeline corridors probably during a bulk acreage survey in Section 2.

**Unit 15-2** — A 10 acre area was examined adjacent to this present center stake on the ridge where this location is staked. Unit 15-2 is situated in the SW 1/4 of the SE 1/4 of Section 2, Township 9 South, Range 17 East. Since no access route has been staked into this location, future investigations in Section 2 will include the access and pipeline corridors probably during an extension of the bulk acreage survey .

**Unit 16-2** — A 65 acre parcel was evaluated in the SE 1/4 of the SE 1/4 of Section 2, Township 9 South, Range 17 East.

**Units 1-11, 2-11, 3-11, 6-11, 7-11, 8-11** — As is demonstrated on Map 5, a 640 acre parcel was evaluated by AERC personnel involving Section 11, Township 9 South, Range 17 East. This bulk acreage provides Inland the flexibility to expand its drilling program to the south of the six presently staked well pads without the need for additional inventories of future proposed well locations, access routes, or pipeline corridors.

## **Environmental Description**

The various project areas associated with this report are within the 5000 to 5700 foot elevation zone above sea level. Open rangeland terrain and eroded Eocene lakebed surfaces are affiliated with the entire project area.

The vegetation in the project area includes rabbit brush (*Chrysothamnus spp.*), sagebrush (*Artemisia spp.*), Winterfat (*Ceratoides lanata*) greasewood (*Sarcobatus spp.*), Sulphurflower Buckwheat (*Eriogonum umbellatum*) Mormon tea (*Ephedra viridis*), Halogeton, Mountain Mahogany (*Cercocarpus spp.*), saltbush (*Atriplex canescens*), and a variety of grasses.

The geological associations within the project area consist of fluvial lake deposits which correlate with the Uintah Formation of Tertiary age.

## **PREVIOUS RESEARCH IN THE LOCALITY**

### **File Search**

A records search of the site files and maps at the Antiquities Section of the State Historic Preservation Office in Salt Lake City was conducted on November 6, 1997 in association with the primary project as requested by Inland Resources, Inc. A similar search was conducted in the Vernal

District Office of the BLM on November 10, 1997 and March 18, 1998. The National Register of Historic Places was consulted and no registered historic or prehistoric properties will be affected by the proposed developments.

A variety of known cultural sites are situated in the general locality. Many of these prehistoric resources were identified and recorded by AERC and other archaeologists and consultants during oil and gas exploration inventories (cf. Fike and Phillips 1984, Hauck and Weder 1989, Hauck and Hadden 1993, 1994, 1995, 1996, 1997).

### **Prehistory of the Cultural Region**

Currently available information indicates that the Northern Colorado Plateau Cultural Region has been occupied by a variety of cultures beginning perhaps as early as 10,000 B.C. These cultures, as identified by their material remains, demonstrate a cultural developmental process that begins with the earliest identified Paleoindian peoples (10,000 - 7,000 B.C.) and extends through the Archaic (ca. 7,000 B.C. - 300 A.D.), and Formative (ca. A.D. 400 - 1100) stages, and the Late Prehistoric-Protohistoric periods (ca. A.D. 1200 - 1850) to conclude in the Historic-Modern Period which was initiated with the incursion of the Euro-American trappers, explorers and settlers. Basically, each cultural stage -- with the possible exception of the Late Prehistoric hunting and gathering Shoshonean bands -- features a more complex life-way and social order than occurred during the earlier stage of development (Hauck 1991:53). For a more comprehensive treatment of the prehistory and history of this region see *Archaeological Evaluations in the Northern Colorado Plateau Cultural Area* (Hauck 1991).

### **Site Potential in the Project Development Zone**

Previous archaeological evaluations in the general project area have resulted in the identification and recording of a variety of cultural resource sites having eligibility for potential nomination to the National Register of Historic Places. The majority of these sites are lithic scatters containing cobble reduction materials. Many of these quarry sites are of the "tap and test" variety, and extend for tens of hundreds of meters. Open occupations are also frequently being identified in this locality. Sites associated with the open rangeland generally appear to have been occupied during the Middle Plains Archaic Stage with occasional indications of Paleoindian activity based on the recovery of isolated Plano style projectile points. The north-south drainage canyons appear to contain the majority of Late Prehistoric (Numic) sites probably because those canyon floors were transportation corridors and convenient pastures for the Ute horse herds. Evidence of Formative Stage occupation, i.e. Fremont, is rarely observed in the rangeland environment but is common within the Green River and White River canyons and their primary tributary canyons.

Site density in certain portions of the region appears to range from one to four sites per section. These densities increase in the canyon bottoms due to Ute rock art loci. Recent evaluations indicate

that the site densities may reach 8 to 12 sites per section in certain localities on the upper benches which were apparently favored for hunting, lithic resource procurement, and camping. Prehistoric sites on the rangeland benches appear to be associated with water courses and aeolian deposits. In the Wells Draw and Castle Peak Draw localities, site density appears to be very high, especially in areas near water courses and seep sources.

## FIELD EVALUATIONS

### Methodology

Intensive evaluations consisted of the archaeologists walking a series of 15 to 20 meter-wide transects within the various parcels associated with the surveyed well locations and along the 100 foot-wide access routes. Thus, 873.33 acres associated with these 16 proposed well locations were inventoried relative to this present project and previously reported projects as noted above.

Observation of cultural materials results in intensive examinations to determine the nature of the resource (isolate or activity locus). The analysis of each specific site results in its subsequently being sketched, photographed, and appropriately recorded on standard IMACS forms. Due to the on-set of winter conditions, the recording of archaeological sites 42DC 1146, 42DC 1148, 42Un 2526, and 42UN 2527, which were identified during the 1997-98 winter evaluations were postponed until March and April 1998. Additional reports for various Inland projects, also to be released in the spring of 1998, will continue to document those resources that were initially identified and noted in Hauck and Hadden 1997.

In certain instances, the cultural sites are evaluated for depth potential utilizing AERC's portable Ground Penetrating Radar (GPR) computerized system (SIR-2 manufactured by Geophysical Survey Systems, Inc. of North Salem, New Hampshire). GPR was not used during this project but may be employed to facilitate the significance assessments of certain cultural sites.

Following these field analyses, cultural sites are then evaluated for significance utilizing the standards described below and mitigation recommendations are developed by the principal investigator in consultation with both the client and relevant governmental agencies as a means of preserving significant resources which may be situated within the development zone.

### Site Significance Criteria

Prehistoric and historic cultural sites which can be considered as eligible for nomination to the National Register of Historic Places have been outlined as follows in the National Register's Criteria for Evaluation as established in Title 36 CFR 60.6:

*The quality of significance in American ... archaeology ... and culture is present in ... sites ... that possess integrity of location, design, setting, materials, workmanship, feeling, and association and:*

- a. That are associated with events that have made a significant contribution to the broad patterns of our history; or*
- b. that are associated with the lives of persons significant in our past; or*
- c. that embody the distinctive characteristics of a type, period, or method of construction . . . ; or*
- d. that have yielded, or may be likely to yield, information important in prehistory or history.*

In addition to satisfying one or more of these general conditions, a significant cultural resource site in Utah will generally be considered as eligible for inclusion in the National Register if it should advance our current state of knowledge relating to chronology, cultural relationships, origins, and cultural life ways of prehistoric or historic groups in the area.

In a final review of any site's significance, the site must possess integrity and at least one of the above criteria to be considered eligible for nomination to the National Register of Historic Places.

## **Results of the Inventory**

Eight prehistoric cultural resource activity loci were recorded during the final archaeological evaluation of various units as shown on Maps 2, 4, and 5. These sites include 42DC 1146, 42DC 1148, 42UN 2526 through 42UN 2531. A brief description of each site, the site maps, cultural significance determinations, and mitigation recommendations are provided in this portion of the report.

**Site 42DC 1146 (see Maps 2, 3 & 6)** This site consists of an open occupation situated on the southern aspect of a terrace/outcrop. The site includes a deflated hearth and a single chipped stone tool -- an Early to Middle Archaic Side-notch dart point (see Figure 1). No other cultural debris was identified along the ridge. Much of the surface of the site is deflated with aeolian and fluvial deposition along tertiary drainages and areas with vegetation.

**National Register Status:** not significant — site lacks depth potential

**Potential for Project-related Disturbance:** none

**Recommendations:** none

**Site 42DC 1148 (see Maps 2, 3 & 7)** This site consists of scattered historic debris with some areas of higher density. A deteriorated oven consisting of fire bricks and a steel grate was constructed at the southeastern base of the ridge. Areas of higher density included two scatters of insulators and a scatter of deteriorating wood, wire, and cans. A number of hole in top and crimped cans and broken clear glass were scattered throughout the site area. The prehistoric component consisted of a low density scatter of lithic debitage primarily of Parachute Creek chert. The scatter surrounds the ridge beginning

at the southeastern aspect of the ridge extending along the northern margin. The site surface consists of deflated areas, rock outcrops, and regions of deposition.

**National Register Status:** this site is considered to have potential for National Register inclusion because aeolian depositions within the site demonstrate potential for stratified depth and contextual integrity.

**Potential for Project-related Disturbance:** none — site will be avoided during the construction of Unit 6-10.

**Recommendations:** none

**Site 42UN 2526 (see Maps 4 & 8)** This prehistoric site consists of an open occupation situated on the north slope of the top of an isolated mesa. The site occupies an area of ca. 60 x 60 meters. Much of the surface in the site area consists of aeolian sand which has become stabilized. Blow-out zones contain debitage indicating site has the potential for buried features and diagnostic materials. Lack of diagnostics hamper determination of site period of occupation, but it probably is no more recent than Late Archaic. Exposures in shallow drainage channels indicate presence of hearth features on the site. Food preparation on-site is suggested by the presence of a sandstone mano.

**National Register Status:** this site is considered to have potential for National Register inclusion because aeolian depositions within the site demonstrate potential for stratified depth and contextual integrity.

**Potential for Project-related Disturbance:** At the present, Inland Unit 11-36 extends into the southwestern portion of the site; thus, a high probability exists for site disruption during the blading and operations on Unit 11-36. This site cannot be avoided during the construction of Unit 11-36 if that proposed well pad remains in its present location.

**Recommendations:** AERC recommends that the site be avoided during the construction and operational phases associated with Unit 11-36. This can be facilitated by moving the pad's staked location 100 feet to the southwest to ensure site preservation during pad construction. AERC also recommends that the northern and eastern peripheries of the relocated well pad be fenced to facilitate the long-term preservation of the site from random vehicle traffic originating on the well pad location.

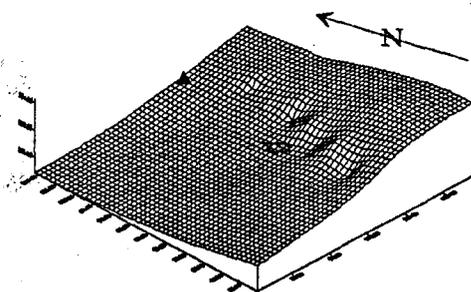
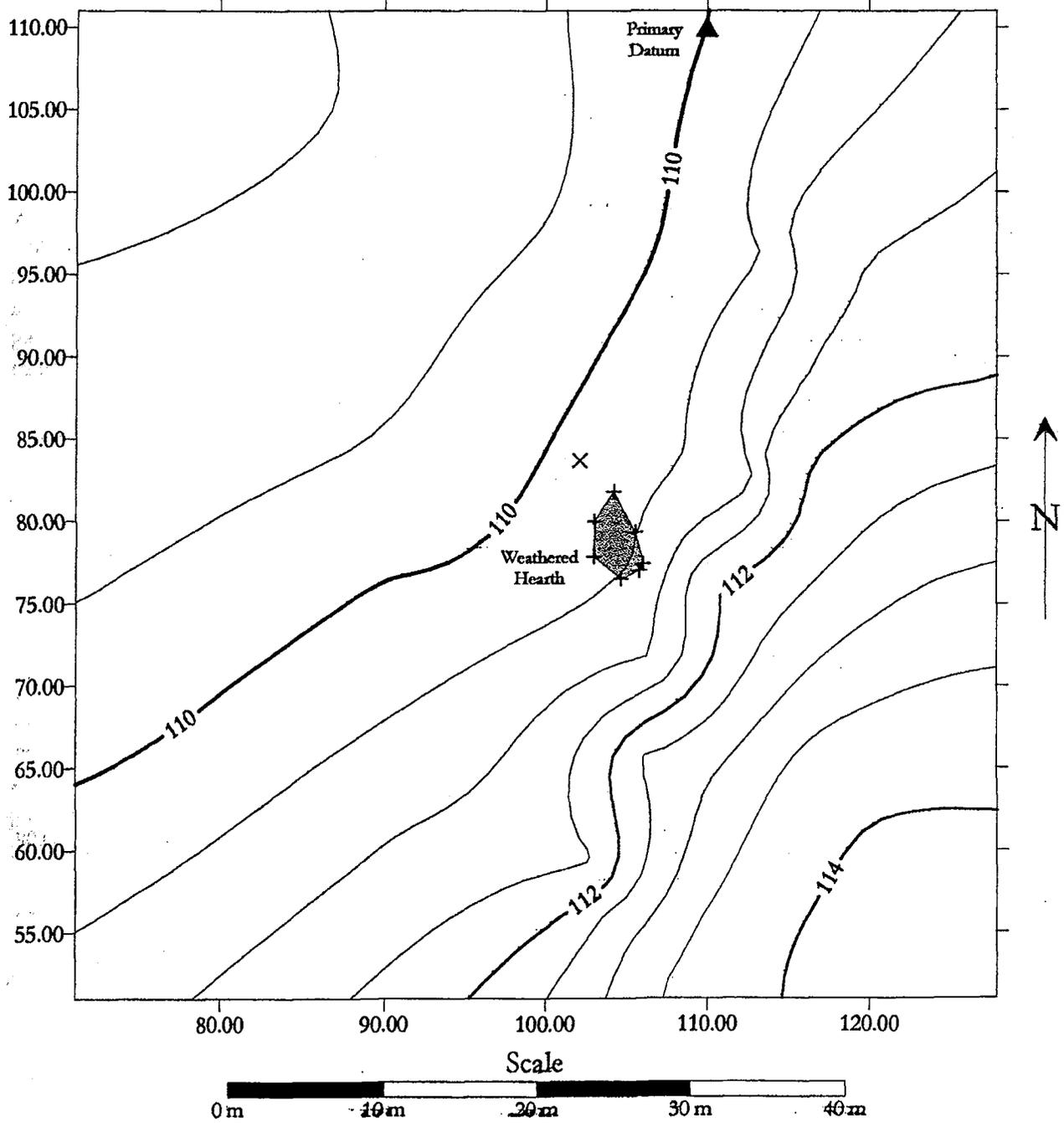
**Site 42UN 2527 (see Maps 4 & 9)** This site consists of a sparse scatter of highly patinated, expediency tools generally associated with the initial dismemberment of large game after a kill. Tools were probably prepared, used and discarded in the site area. The several opposing-flake biface choppers observed on the site are common to similar sites of the Early and Middle Archaic phases that have been previously recorded by this firm in the Northwestern Plains and Uintah Basin. The sawtooth edge on these tools facilitate their use in cutting through thick tendons while quartering game. The site measures ca. 40 meters in circumference and is exposed directly on a deflated, Pleistocene age, desert pavement.

**National Register Status:** not significant — site lacks depth potential and contextual integrity.

**Potential for Project-related Disturbance:** none — site is just north and outside the northern perimeter for Unit 7-36.

**Recommendations:** none

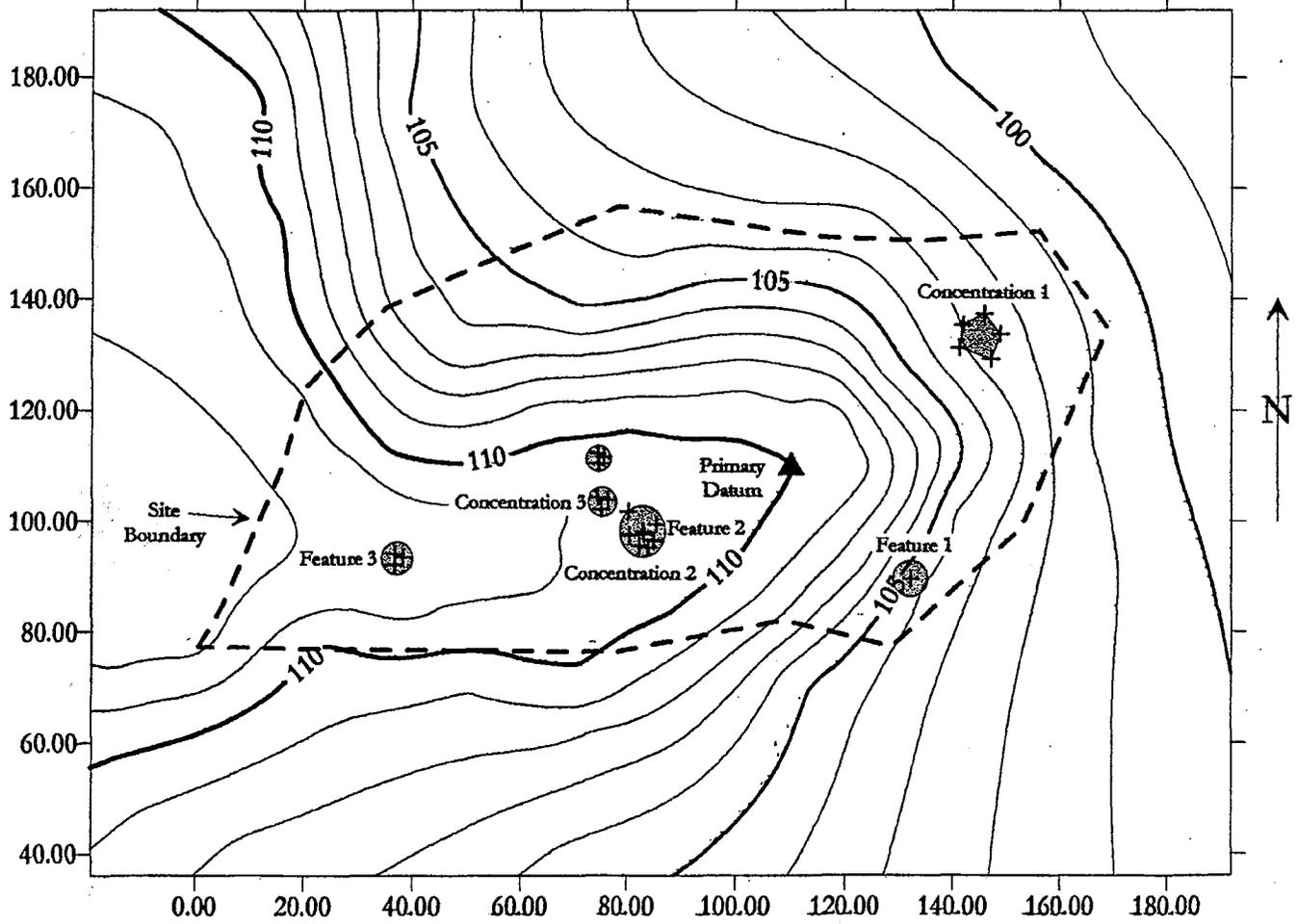
# MAP 6: Artifact Distribution at 42DC1146



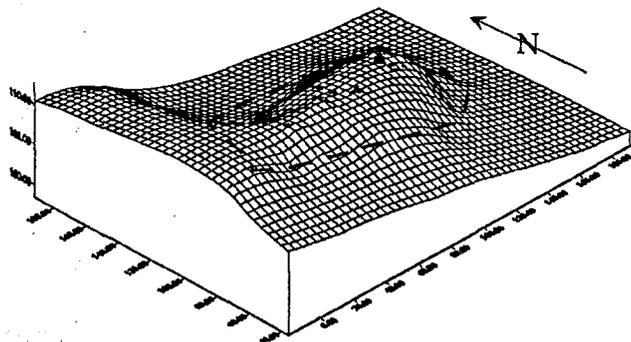
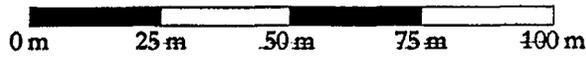
## Legend

- ▲ Primary Datum
- × Artifact Location
- Hearth Location

# MAP 7: Artifact Distribution at 42DC1148



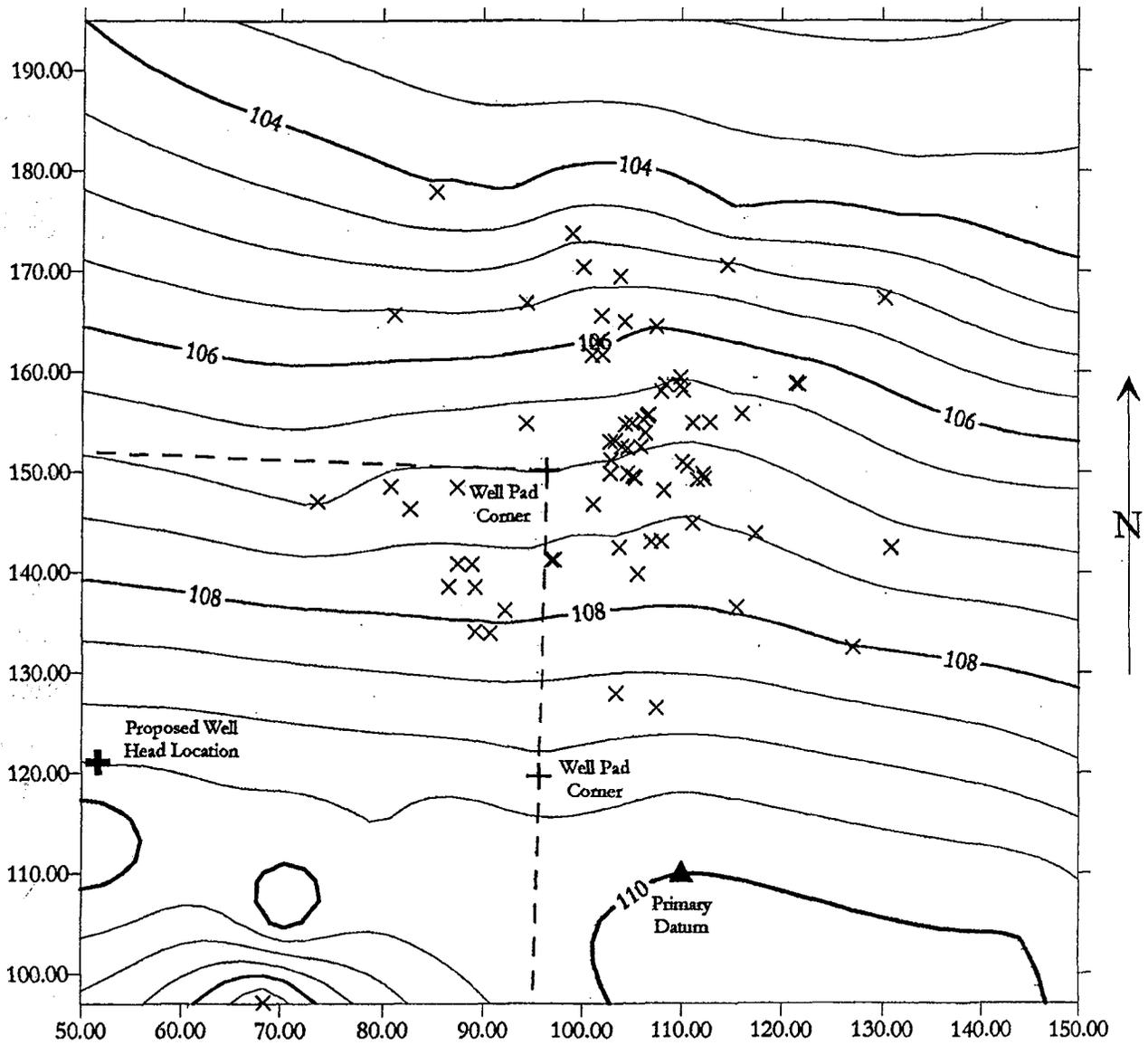
Scale



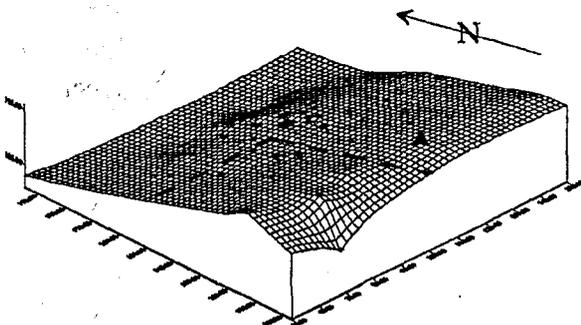
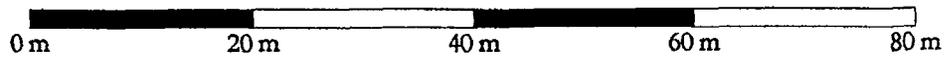
## Legend

-  Primary Datum
-  Artifact Concentration
-  Site Boundary

# MAP 8: Artifact Distribution at 42UN2526



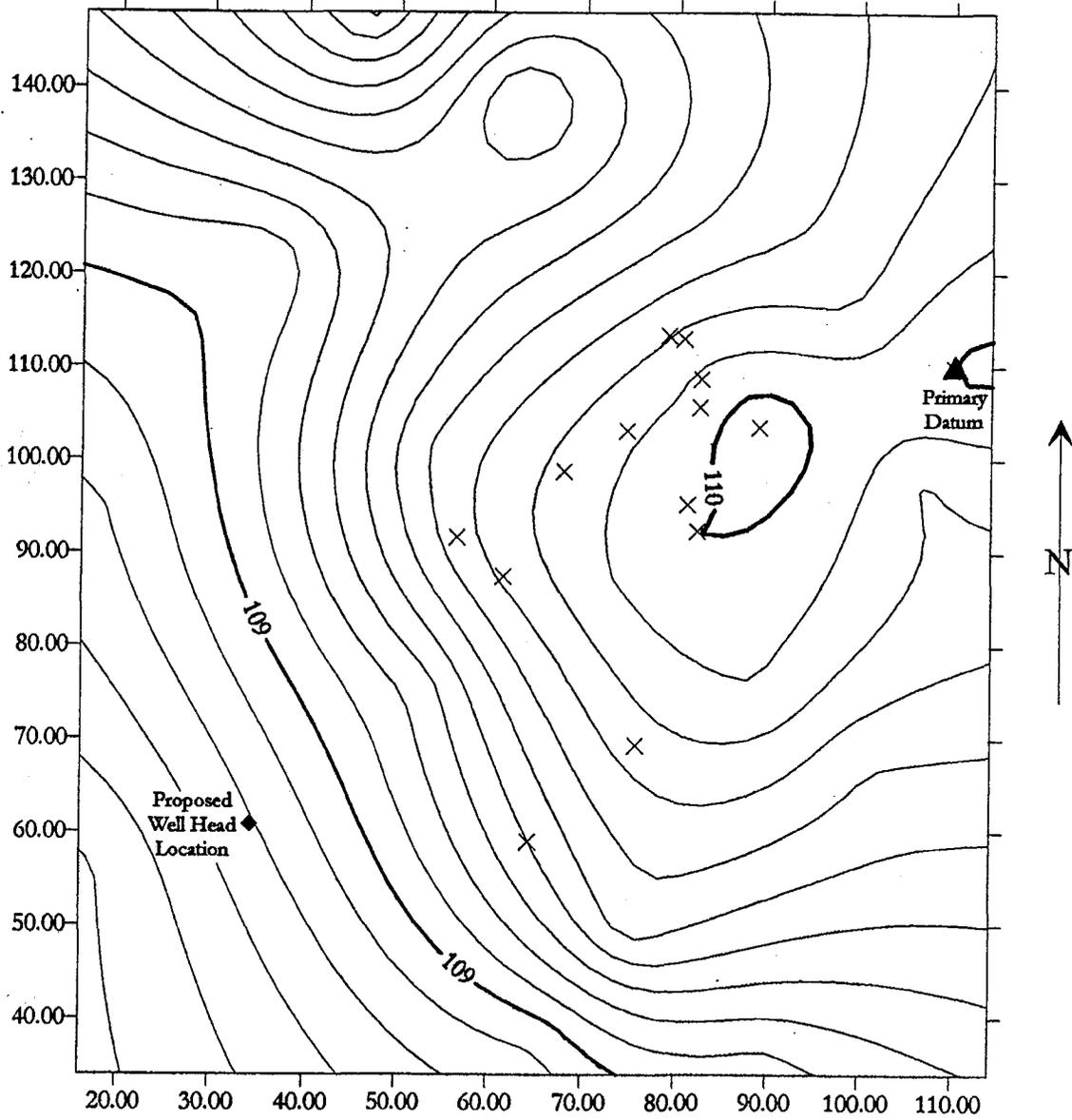
Scale



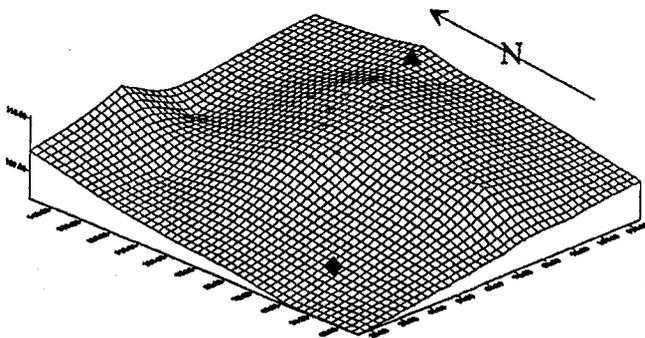
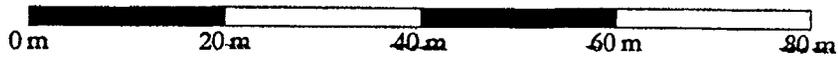
## Legend

- ▲ Primary Datum
- + Well Pad Corner
- ⊕ Well Head Location
- × Artifact Location

# MAP 9: Artifact Distribution at 42UN2527



Scale



## Legend

- ▲ Primary Datum
- ◆ Well Head
- × Artifact Location

**Site 42UN 2528 (see Maps 5 & 10)** This site consists of a diffuse scatter of 10+ lithic flakes in a 20 x 50 meter area. All debitage consists of the locally available Parachute Creek chert as primary and secondary flakes. A possible, highly deflated hearth feature is situated on the southeastern portion of the site. Shallow aeolian depositions on the site were carefully examined to determine depth potential with negative results.

**National Register Status:** not significant — site lacks depth potential and contextual integrity.

**Potential for Project-related Disturbance:** none — site is south and outside the southern perimeter for Unit 1-11.

**Recommendations:** none

**Site 42UN 2529 (see Maps 5 & 11)** This site consists of an open occupation located on the east side of a ridge along the edge of a dune field. It is currently eroding into a tributary drainage of Big Wash. Site measures ca. 40 x 70 meters in size and has depth potential. Site contains several biface tools, a deflated hearth, core materials and biface reduction materials. Cherts on the site include the localized Parachute Creek chert, a white chert and an unknown clear chert containing red speckles.

**National Register Status:** this site is considered to have potential for National Register inclusion because aeolian depositions within the site demonstrate potential for stratified depth and contextual integrity.

**Potential for Project-related Disturbance:** none — site is outside the perimeter of Unit 1-11 and can easily be avoided during the construction of that well location.

**Recommendations:** none

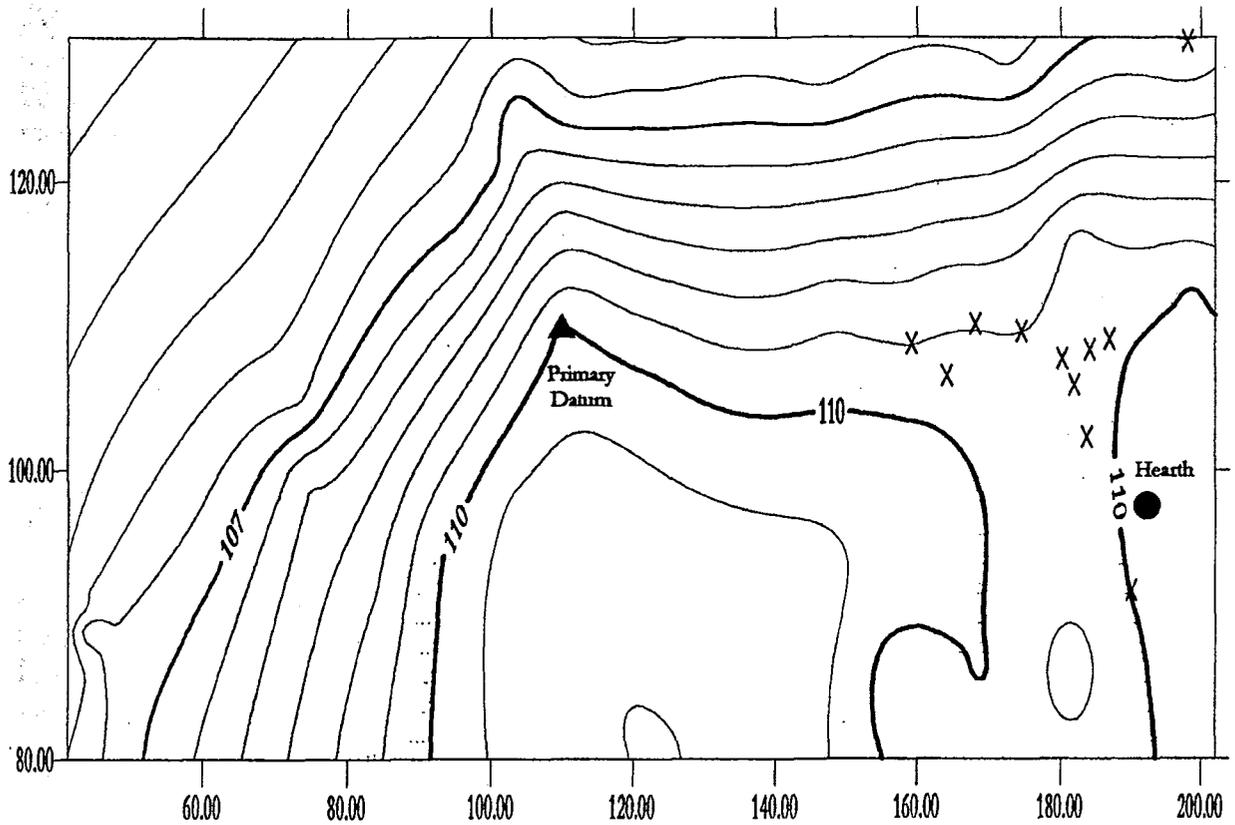
**Site 42UN 2530 (see Map 5 & 12)** This site consists of an open occupation located on the north slope and bench of a ridge on the south side of a tributary drainage of Big Wash. Site is ca. 50 x 100 meters in size and has depth potential. Site is adjacent to 42UN 1330 which is above and to the south in the adjacent section (11). Site contains an early PaleoIndian component based on the recovery of a Goshen (Plainview) base (see Figure 2). Site probably also contains Archaic components although no diagnostics were observed (see Figure 3). Dominant lithic material type on the site consists of Parachute Creek chert which is locally available in the form of thin-bedded float. Evidence of full range of biface reduction can be observed on the site in addition to evidence of tool use and discarding.

**National Register Status:** this site is considered to have potential for National Register inclusion because aeolian depositions within the site demonstrate potential for stratified depth and contextual integrity.

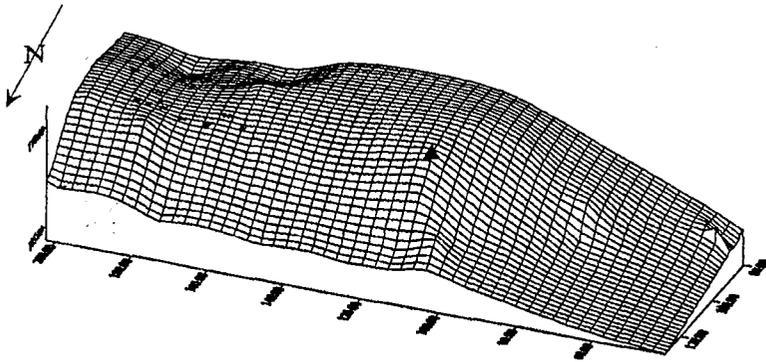
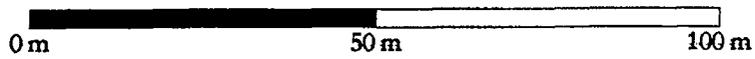
**Potential for Project-related Disturbance:** none — site is outside the perimeters of Units 1-11 and 16-2 and can easily be avoided during the construction of those well locations.

**Recommendations:** none

# MAP 10: Artifact Distribution at 42UN2528



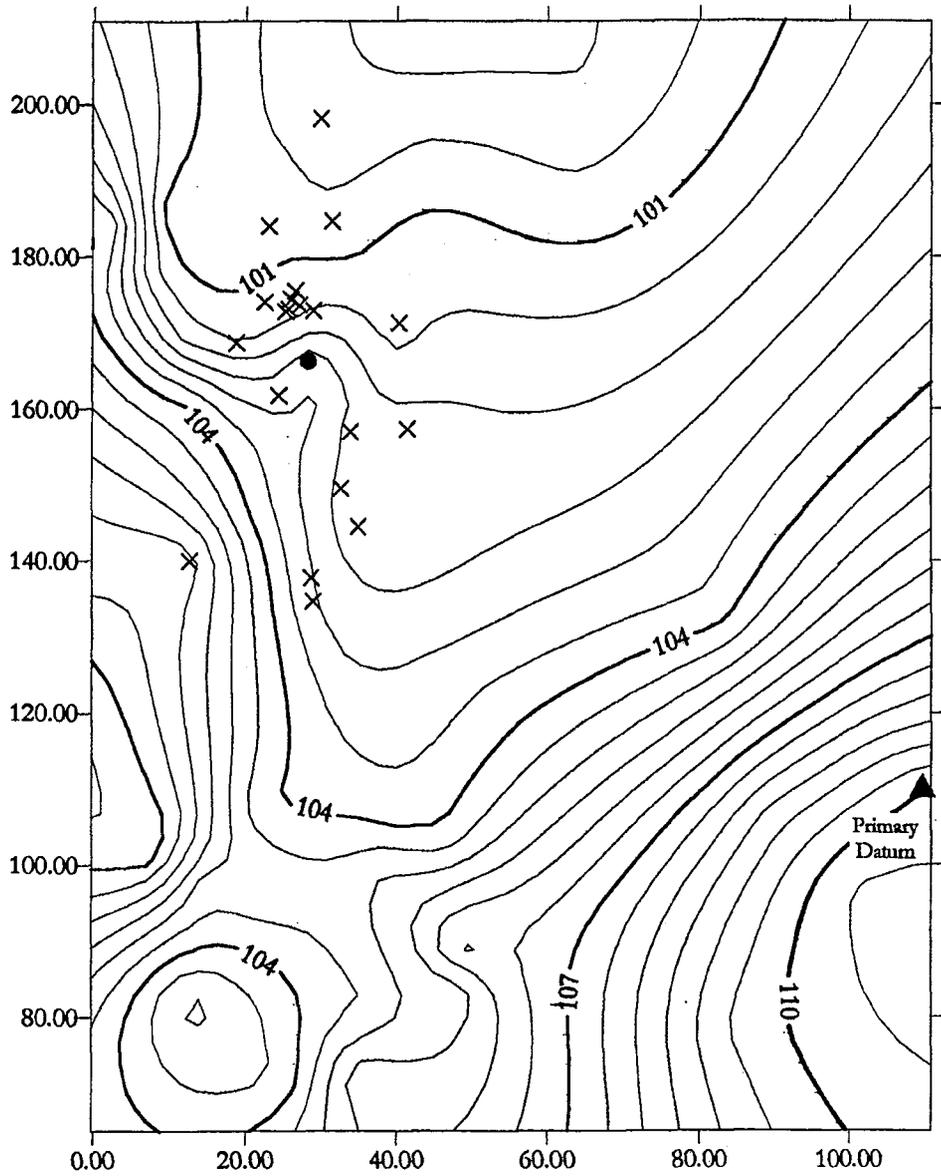
Scale



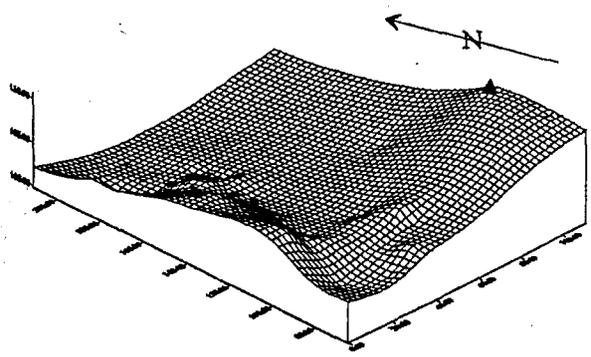
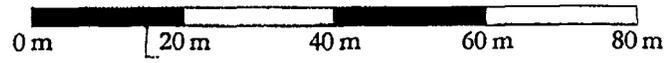
## Legend

- ▲ Primary Datum
- × Artifact Location
- Hearth

# MAP 11: Artifact Distribution at 42UN2529



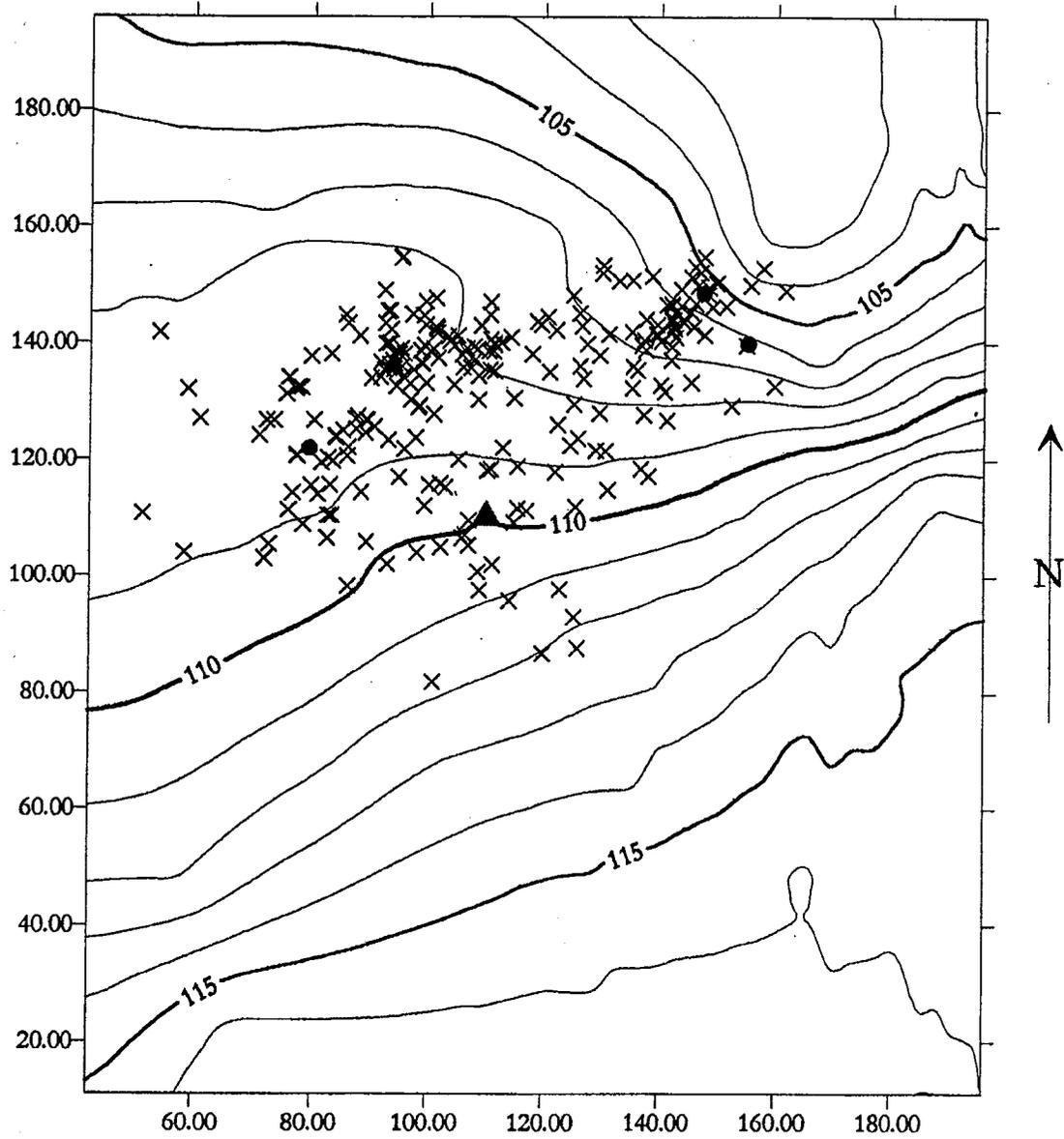
Scale



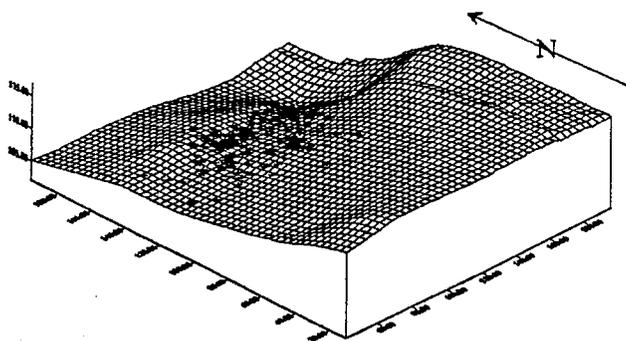
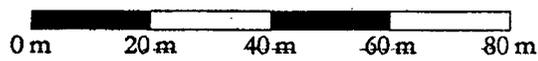
## Legend

- ▲ Primary Datum
- × Artifact Location
- Hearth

# MAP 12: Artifact Distribution at 42UN2530



Scale



## Legend

- ▲ Primary Datum
- Hearth
- × Artifact Location

**Site 42UN 2531 (see Maps 5 & 13)** This site consists of a sparse scatter of flakes and one biface expediency butchering tool. Site was apparently the locus of a butchering episode related to the dismemberment of a large mammal.

**National Register Status:** not significant — site lacks depth potential and contextual integrity.

**Potential for Project-related Disturbance:** none

**Recommendations:** none

One previously identified and recorded significant National Register eligible sites was noted during the survey being reported in this document. That site (42UN 1330) is situated immediately north of Unit 1-11. A brief description of that site follows:

**Site 42UN 1330 (see Map 5)** This large prehistoric site consists of an open occupation and lithic scatter that has been previously recorded. It is situated on the top and southern slope of a ridge overlooking the basin where Unit 1-11 has been staked.

**National Register Status:** this site is considered to have potential for National Register inclusion because aeolian depositions within the site demonstrate potential for stratified depth and contextual integrity.

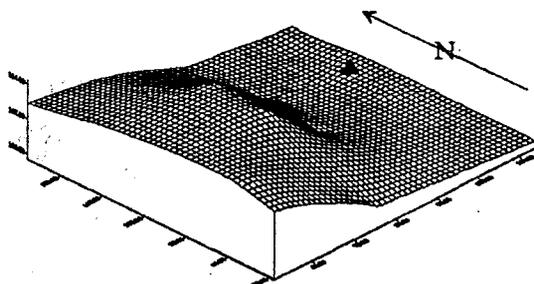
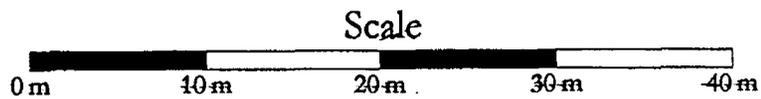
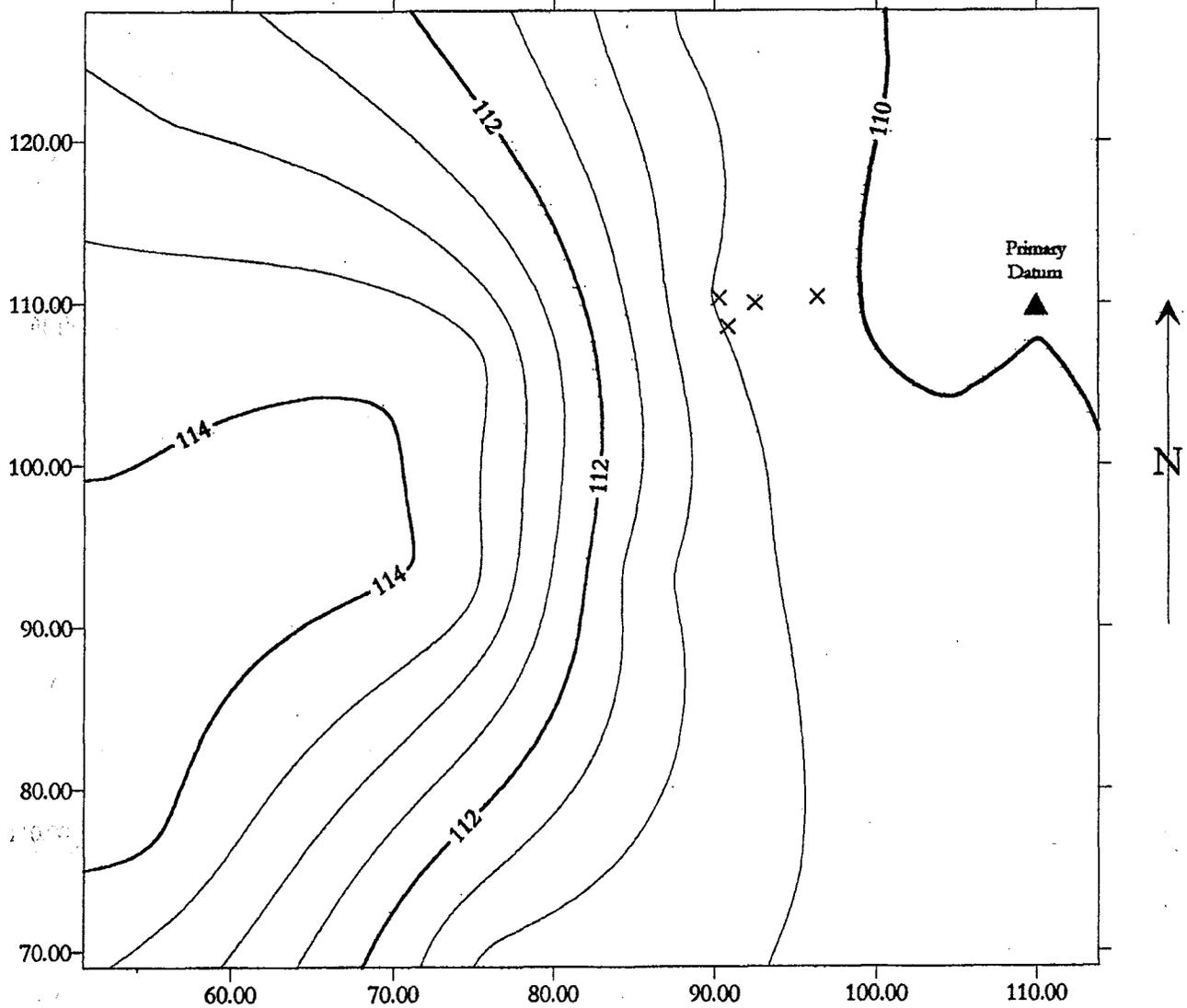
**Potential for Project-related Disturbance:** moderate due to proximity between site and well pad construction area for Unit 1-11.

**Recommendations:** avoidance — construction on adjacent Unit 1-11 should be restricted to the south side of the drainage that forms the site's southern and eastern periphery.

Two partially diagnostic, isolated artifacts were observed and recorded during the evaluations. These artifacts include 1597F/x1 (see Map 2 and Figure 4) and 1597K/x3, (see Map 5 and Figure 5). The first consists of a distal fragment of a bifacially prepared tool. The second isolate consists of a mid-section that appears to be a remnant of a PaleoIndian blade tool. Both were recovered for laboratory analysis and will be curated at AERC's established curatorial facility with other artifacts collected during this project.

No paleontological loci were observed during the survey. A paleontological report will be appended to the final AERC report for this project.

# MAP 13: Artifact Distribution at 42UN2531



## Legend

- ▲ Primary Datum
- × Artifact Location

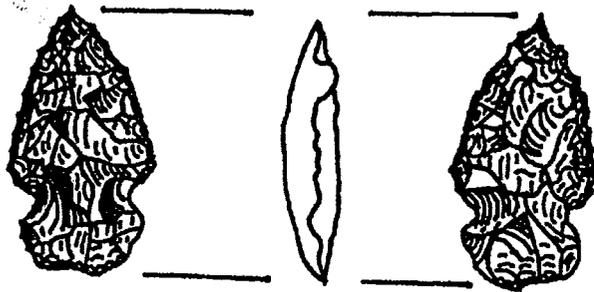


FIGURE 1:  
Side-notch Projectile Point  
recovered from 42DC1146

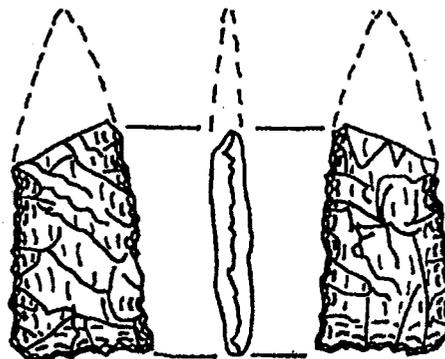


FIGURE 2:  
Goshen (Plainview) Style Projectile  
Point recovered from 42UN2530

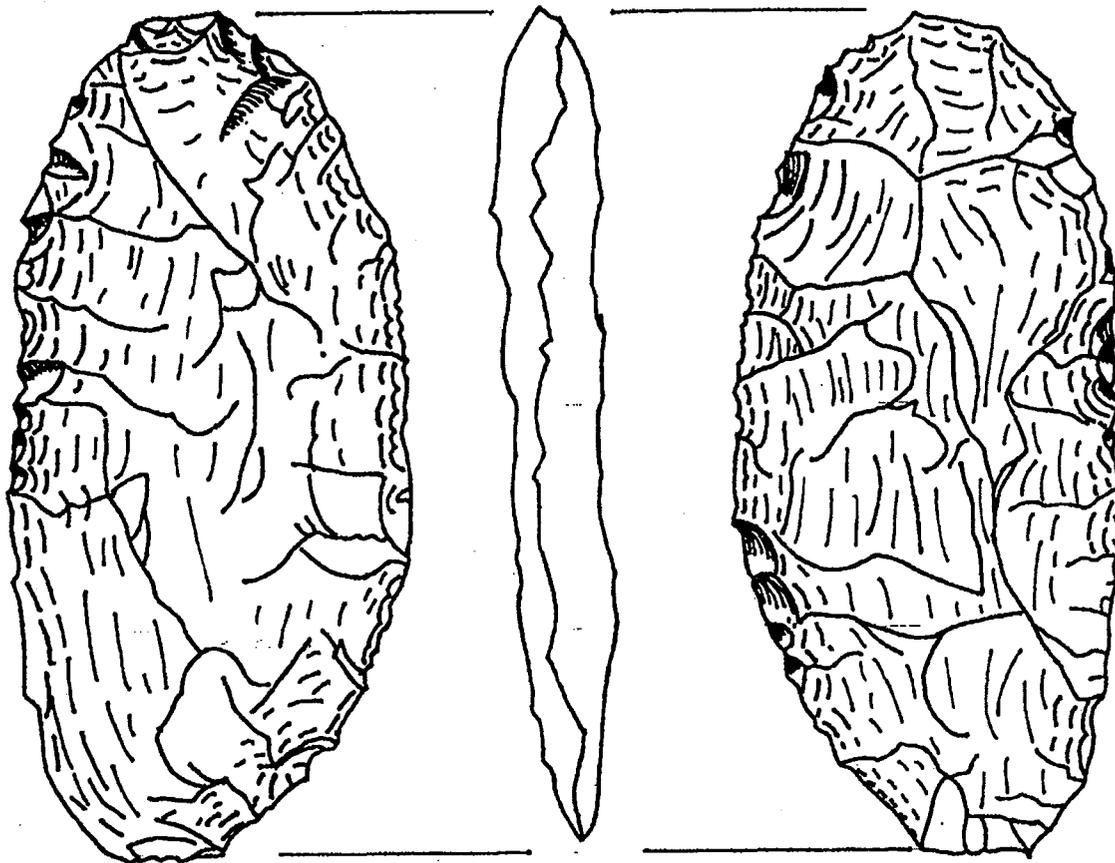


FIGURE 3:  
Knife recovered from  
42UN2530

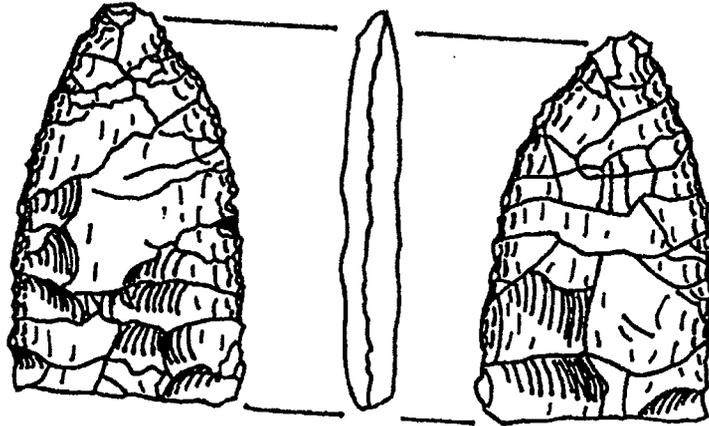


FIGURE 4:  
Isolated find 1597F/x1

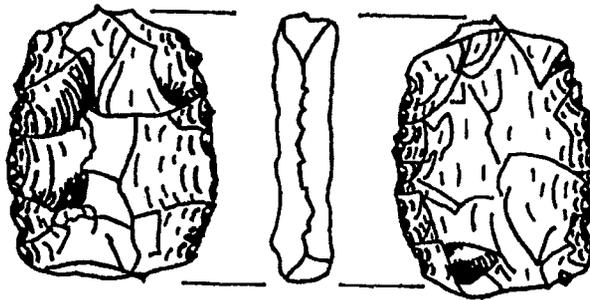


FIGURE 5:  
Isolated find 1597K/x3

## CONCLUSION AND RECOMMENDATIONS

Inland Units 6-10, 13-10, 7-36, 1-35, 7-35, 9-35, 9-2, 15-2, 16-2, 2-11, 3-11, 6-11, 7-11, 8-11 and their respective access routes as shown on Maps 2 through 5 in this document do not pose any significant threat to any known significant cultural resources. However, several significant cultural resource sites (42UN 2526, 42UN 1330) could be adversely impacted during the development and operation of Inland Resources, Inc.'s well locations 11-36 and 1-11 as cited in this report.

AERC recommends that a cultural resource clearance be granted to Inland Resources, Inc. relative to the development of these 16 proposed locations based upon adherence to the following stipulations:

1. Site 42UN 2526 should be avoided by moving the staked location for Unit 11-36 a minimum of 100 feet to the southwest to ensure site preservation during pad construction. In addition, the northern and eastern peripheries of the relocated well pad should be fenced to facilitate the long-term preservation of the site from random vehicle traffic originating on the well pad location;
2. Site 42UN 1330 should be avoided by restricting construction, operational, and vehicular activities to the south side of the drainage that forms that site's southern and eastern periphery;
3. all vehicular traffic, personnel movement, construction and restoration operations should be confined to the surveyed zones, to the flagged areas and corridors examined as referenced in this report, and to the existing roadways;
4. all personnel should refrain from collecting artifacts and from disturbing any cultural resources in the area; and
5. the authorized official should be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the location of the exploration area.



F. Richard Hauck, Ph.D.  
President and Principal  
Investigator

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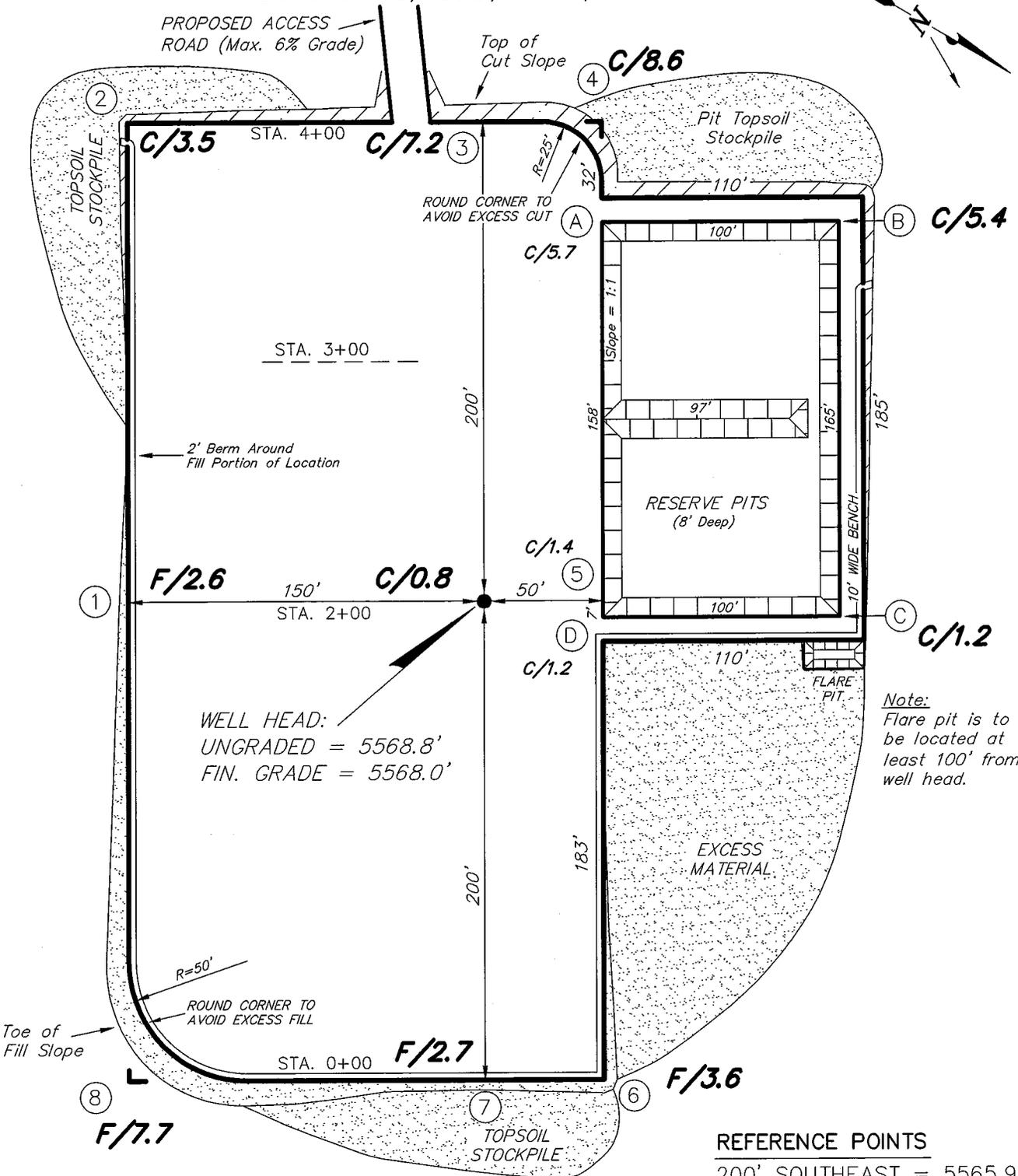
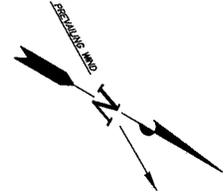
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# NEWFIELD PRODUCTION COMPANY

S. MONUMENT BUTTE 13-2T-9-16 DEEP GAS  
SECTION 2, T9S, R16E, S.L.B.&M.



REFERENCE POINTS	
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250' SOUTHEAST	= 5567.1'
250' NORTHEAST	= 5564.0'
300' NORTHEAST	= 5562.0'

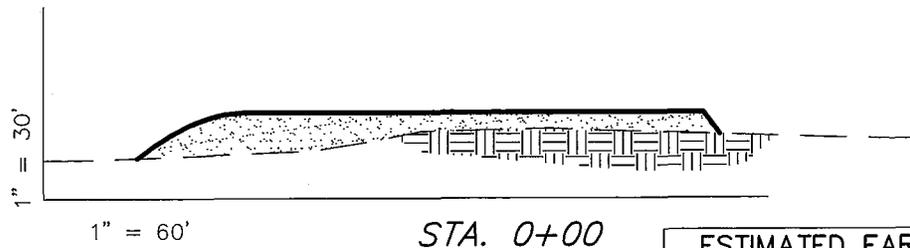
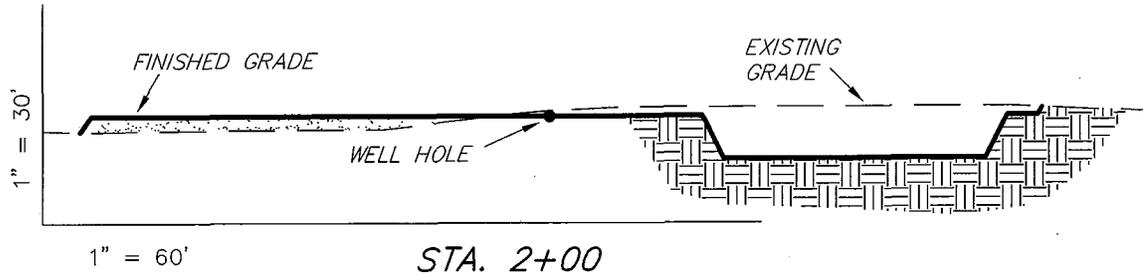
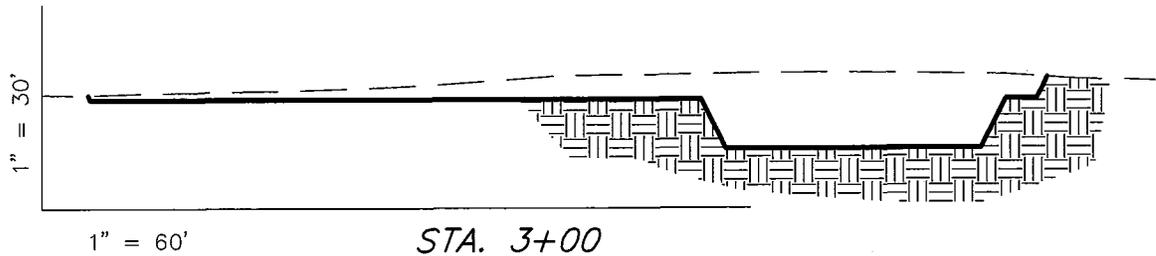
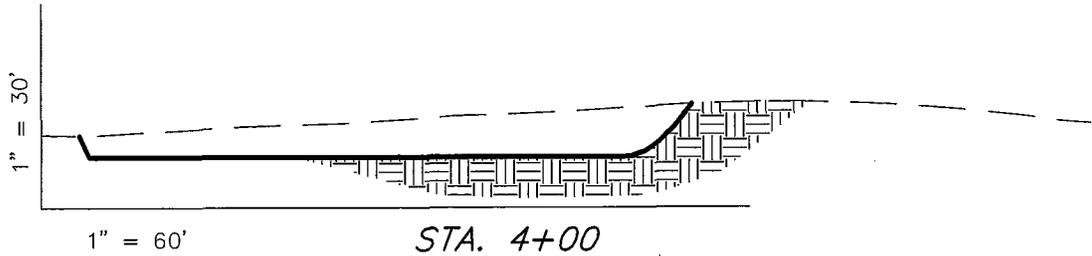
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DRAWN BY: F.T.M.	DATE DRAWN: 01-18-08
SCALE: 1" = 60'	REVISED:

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

NEWFIELD PRODUCTION COMPANY

CROSS SECTIONS

S. MONUMENT BUTTE 13-2T-9-16 DEEP GAS



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

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	5,760	5,760	Topsoil is not included in Pad Cut	0
PIT	4,100	0		4,100
TOTALS	9,860	5,760	1,970	4,100

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

SURVEYED BY: C.M.	DATE SURVEYED: 08-22-07
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SCALE: 1" = 60'	REVISED:

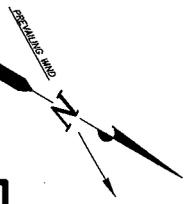
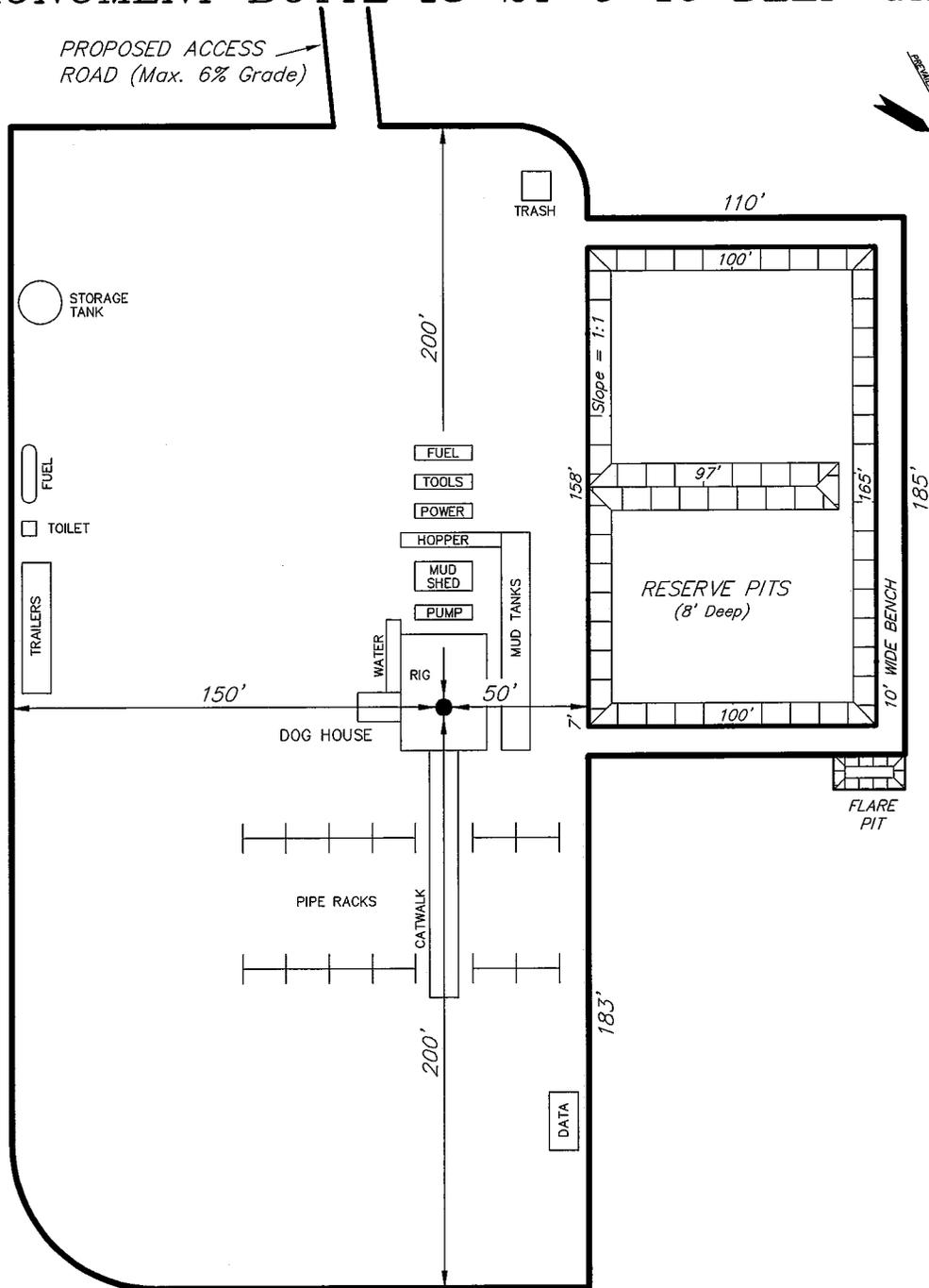
Tri State  
Land Surveying, Inc. (435) 781-2501  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

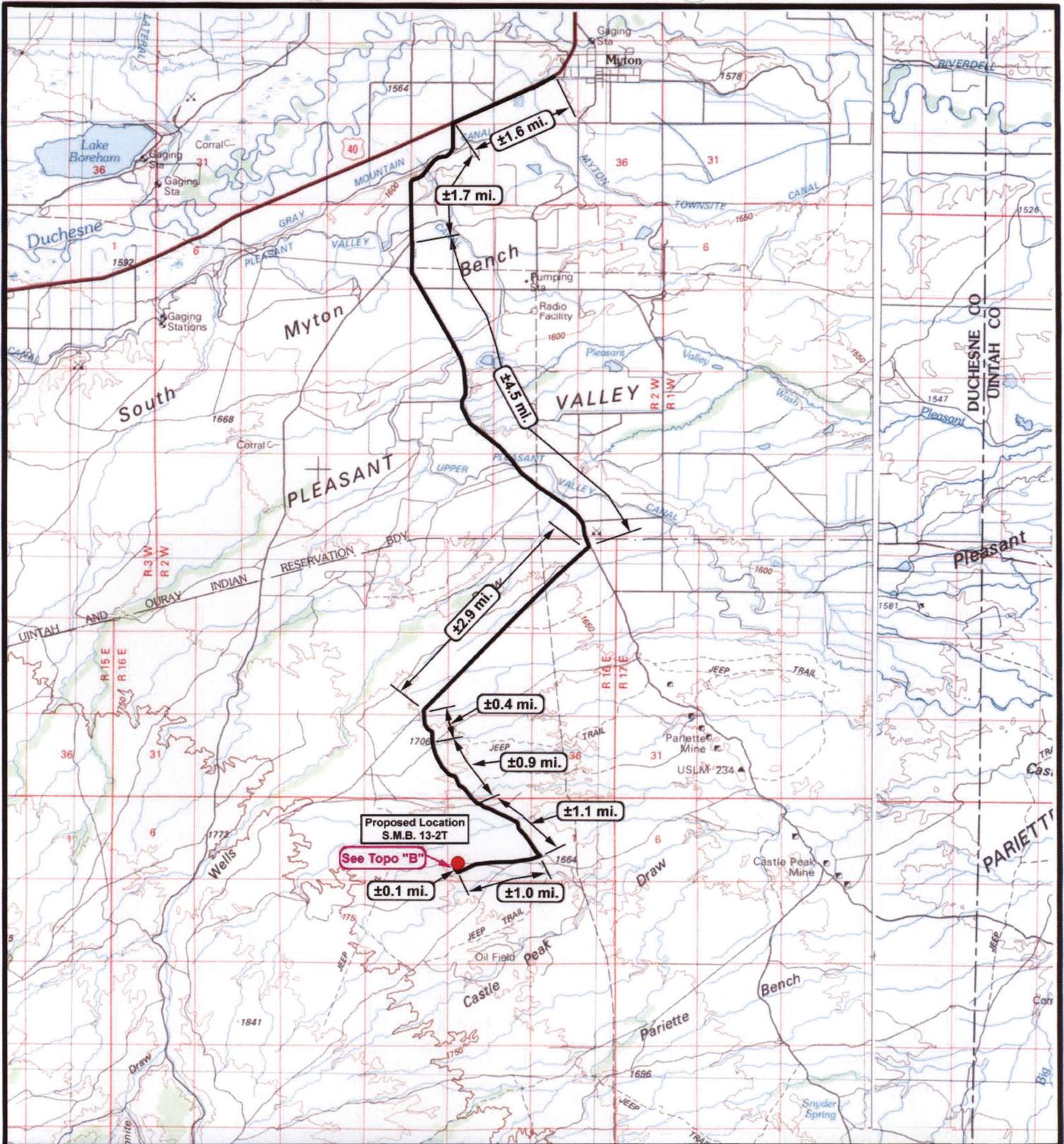
### S. MONUMENT BUTTE 13-2T-9-16 DEEP GAS

PROPOSED ACCESS ROAD (Max. 6% Grade)



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DRAWN BY: F.T.M.	DATE DRAWN: 01-18-08
SCALE: 1" = 60'	REVISED:

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



**NEWFIELD**  
Exploration Company

**S. Monument Butte 13-2T-9-16**  
**SEC. 2, T9S, R16E, S.L.B.&M.**



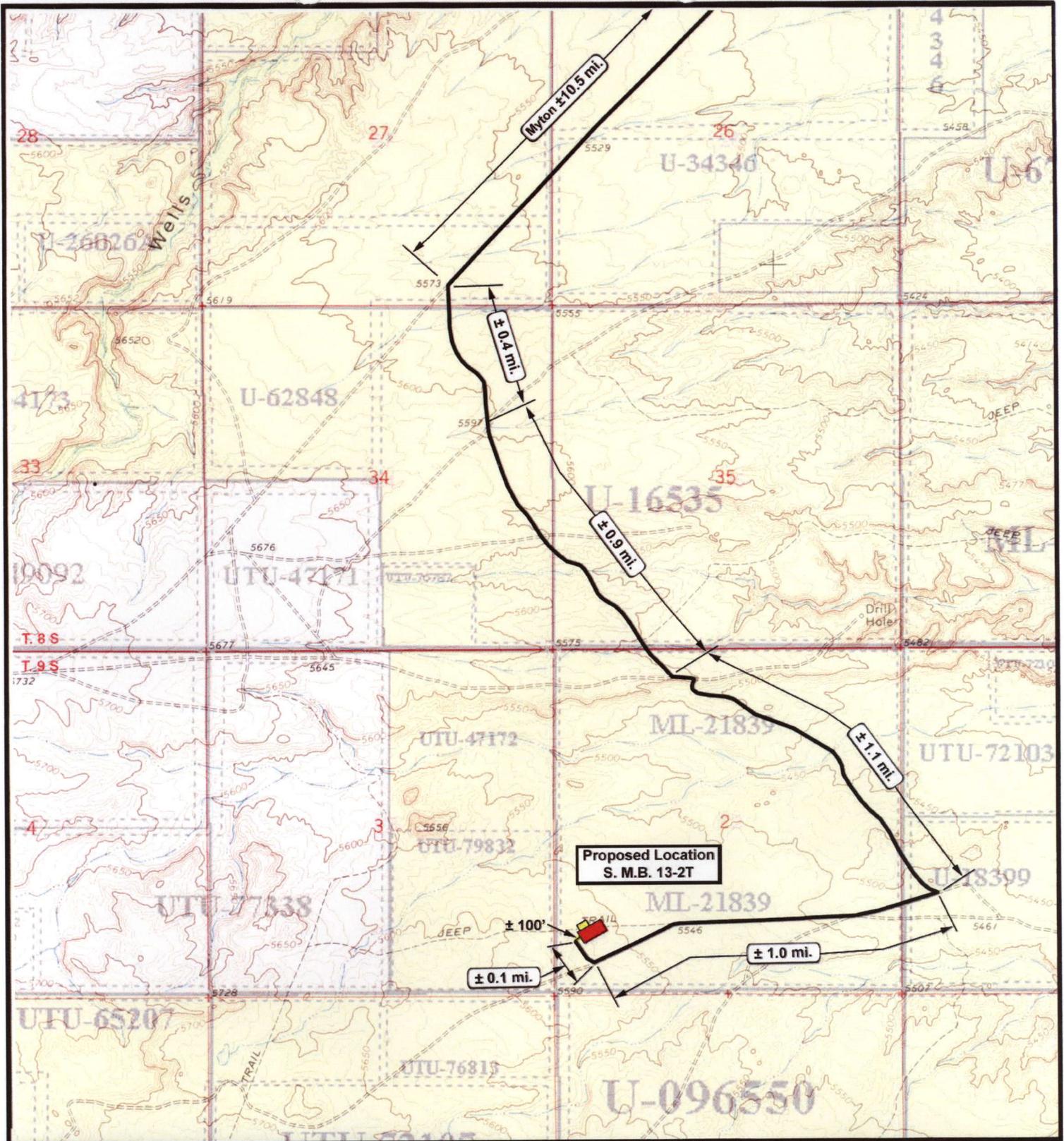
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
DRAWN BY: mw  
DATE: 01-18-2008

**Legend**

- Existing Road
- Proposed Access

TOPOGRAPHIC MAP  
**"A"**



Proposed Location  
S.M.B. 13-2T

± 0.1 mi.

± 100'

± 1.0 mi.

± 1.1 mi.

± 0.9 mi.

± 0.4 mi.

Myton ±10.5 mi.



**NEWFIELD**  
Exploration Company

**S. Monument Butte 13-2T-9-16**  
**SEC. 2, T9S, R16E, S.L.B.&M.**

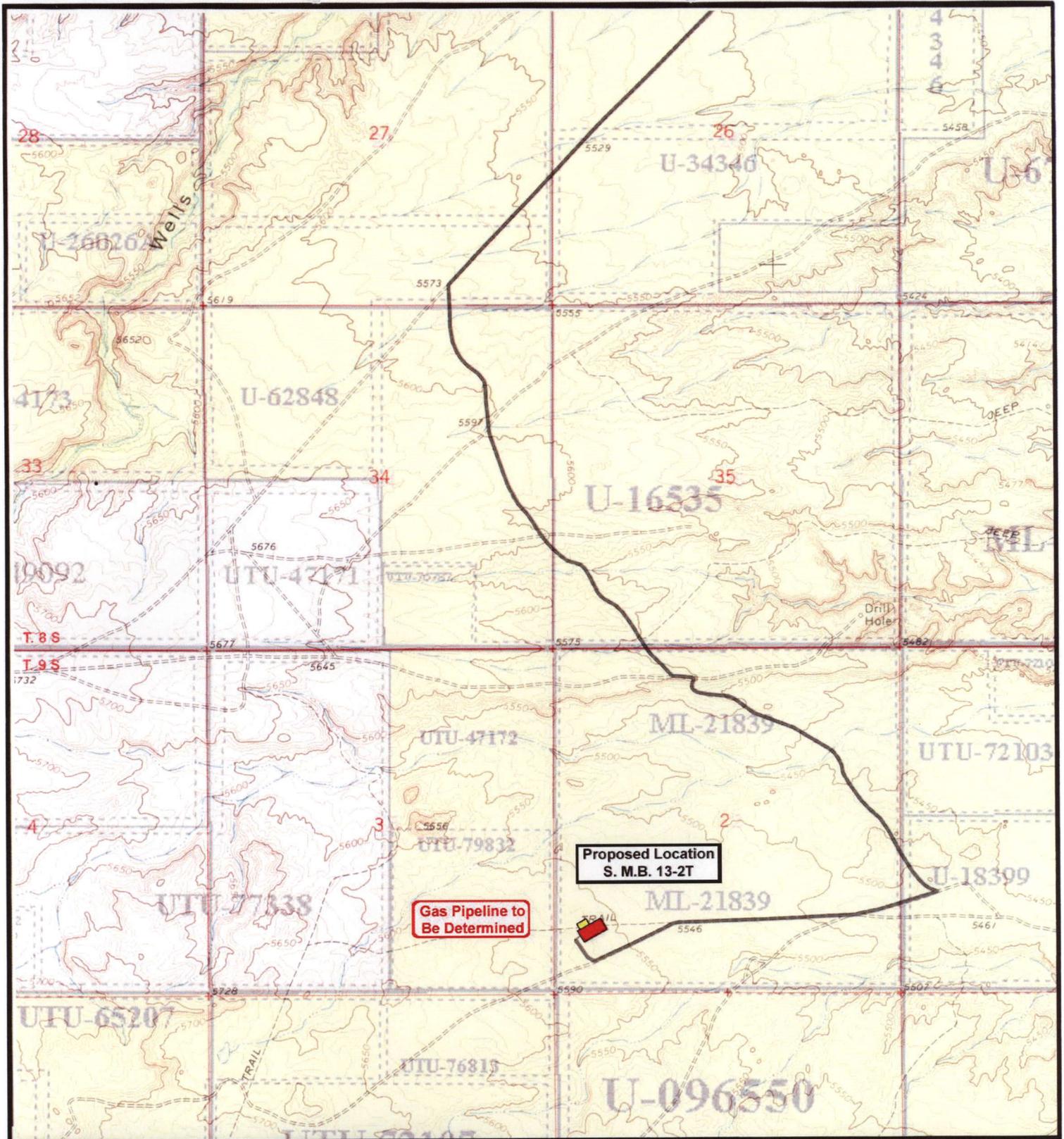


**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 01-16-2008

Legend	
	Existing Road
	Proposed Access

TOPOGRAPHIC MAP  
**"B"**




**NEWFIELD**  
Exploration Company

**S. Monument Butte 13-2T-9-16  
SEC. 2, T9S, R16E, S.L.B.&M.**



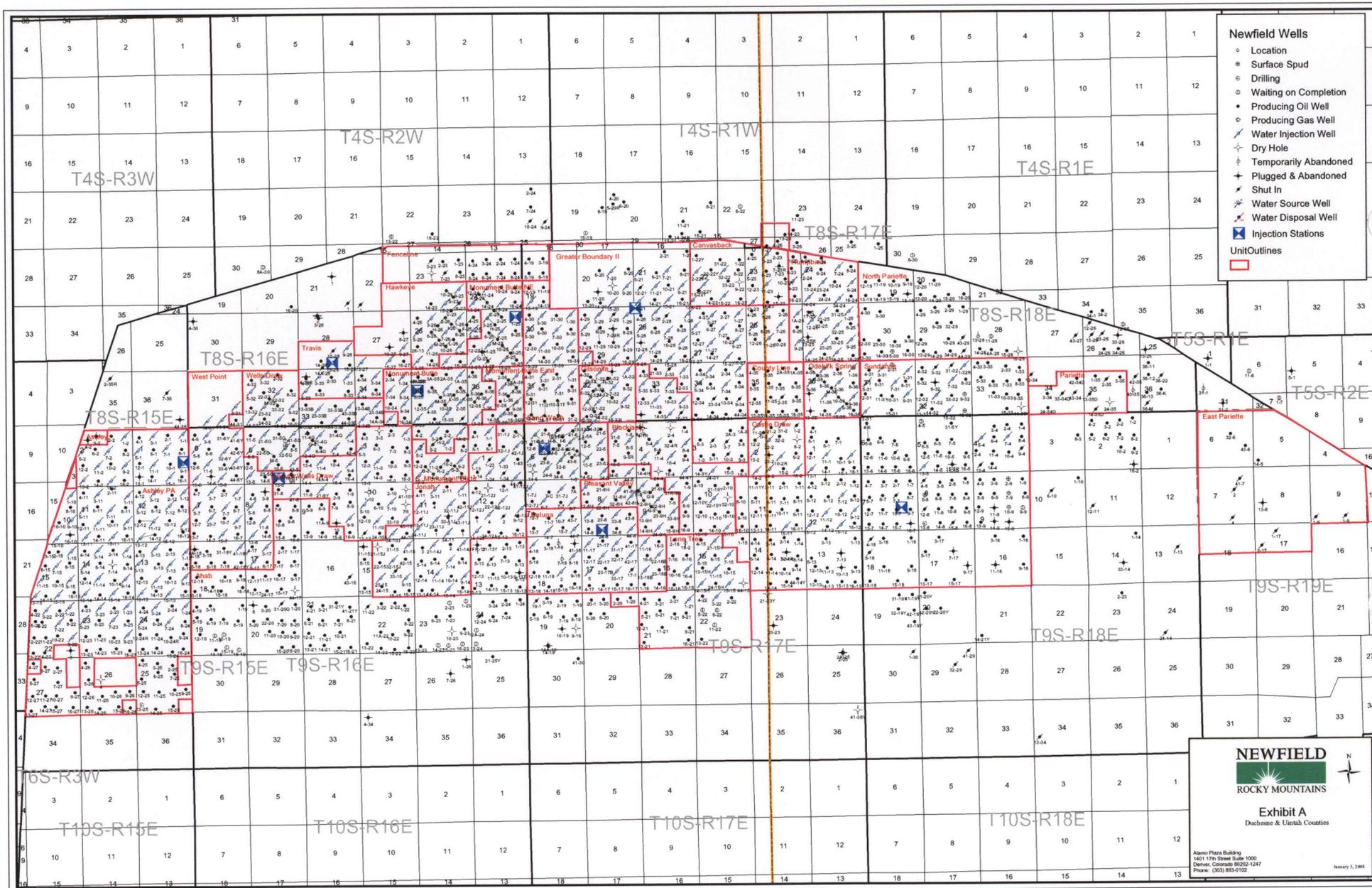

**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

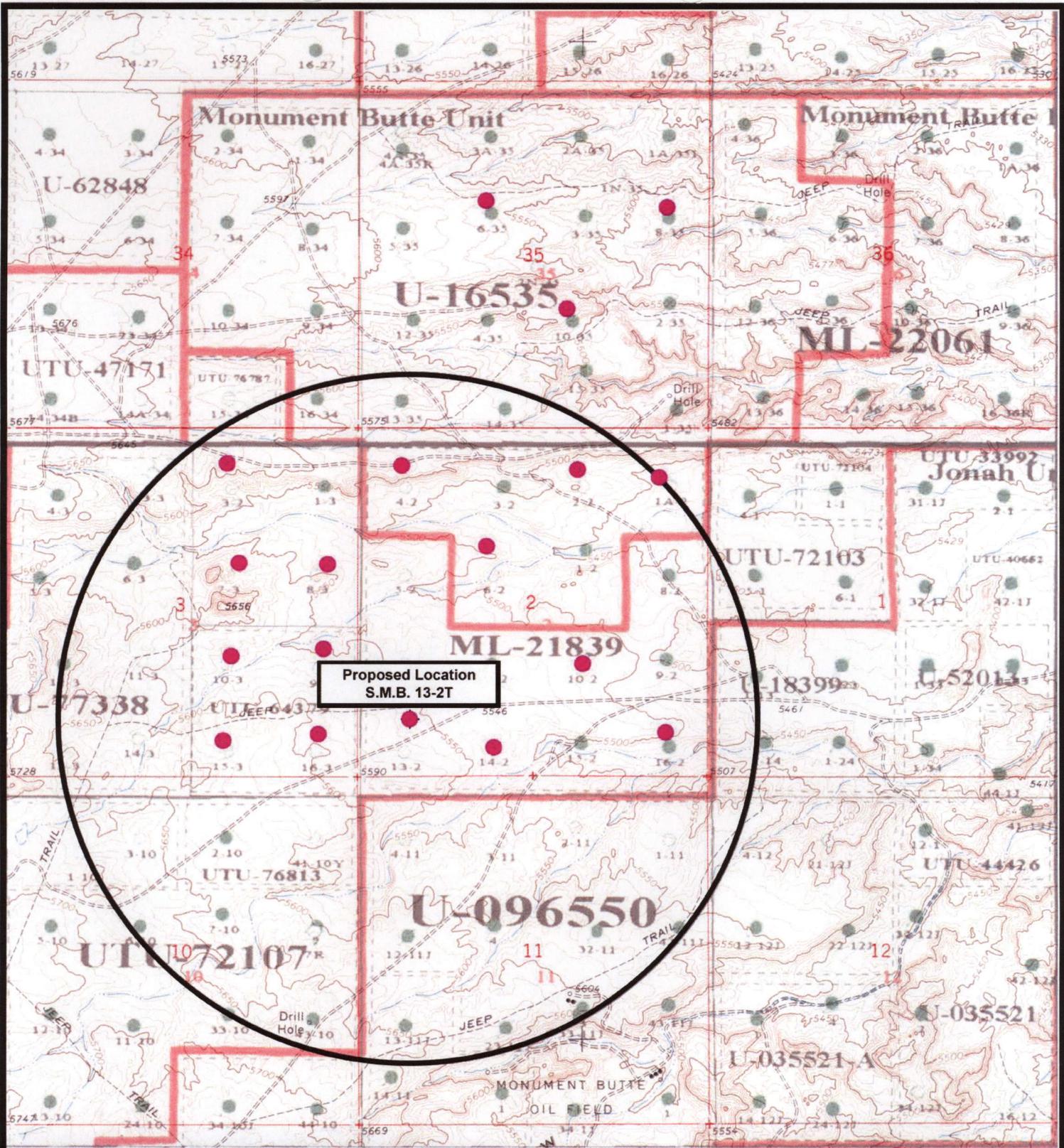
SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 01-16-2008

**Legend**

— Roads

**TOPOGRAPHIC MAP**  
**"C"**






**NEWFIELD**  
Exploration Company

**S. Monument Butte 13-2T-9-16**  
**SEC. 2, T9S, R16E, S.L.B.&M.**




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

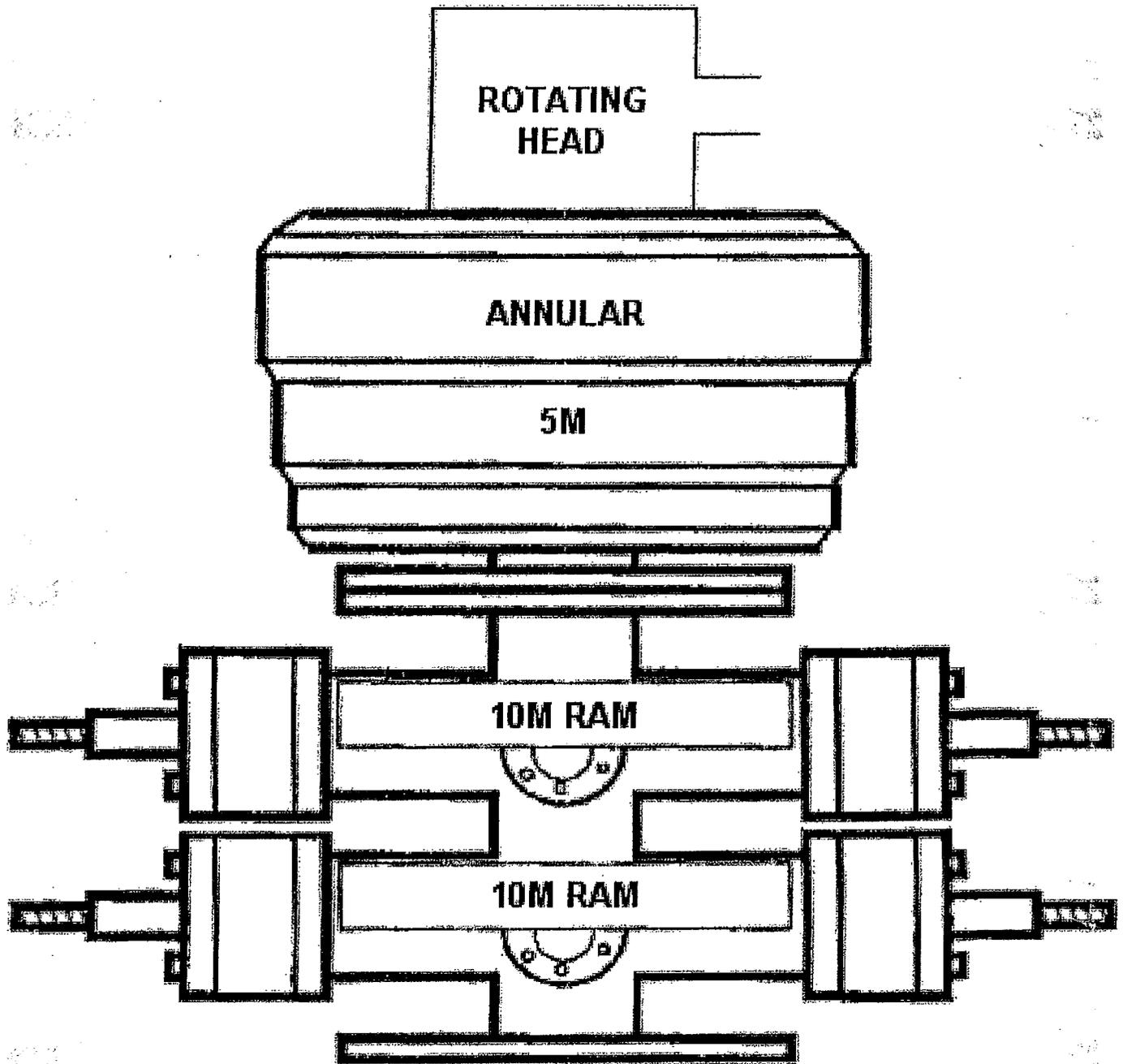
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DRAWN BY: mw  
DATE: 01-18-2008

**Legend**

- Location
- One-Mile Radius

**Exhibit "B"**

# TYPICAL BLOWOUT PREVENTER 11" 10M BOP STACK



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 01/29/2008

API NO. ASSIGNED: 43-013-33892

WELL NAME: STATE 13-2T-9-16  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKD	2/25/08
Geology		
Surface		

SWSW 02 090S 160E  
 SURFACE: 1025 FSL 0547 FWL  
 BOTTOM: 1025 FSL 0547 FWL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.05536 LONGITUDE: -110.0935  
 UTM SURF EASTINGS: 577320 NORTHINGS: 4434086  
 FIELD NAME: MONUMENT BUTTE ( 105 )

LEASE TYPE: 3 - State  
 LEASE NUMBER: ML-21839  
 SURFACE OWNER: 3 - State

PROPOSED FORMATION: MNCS  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]  
(No. B001834 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. MUNICIPAL )
- RDCC Review (Y/N)  
(Date: )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

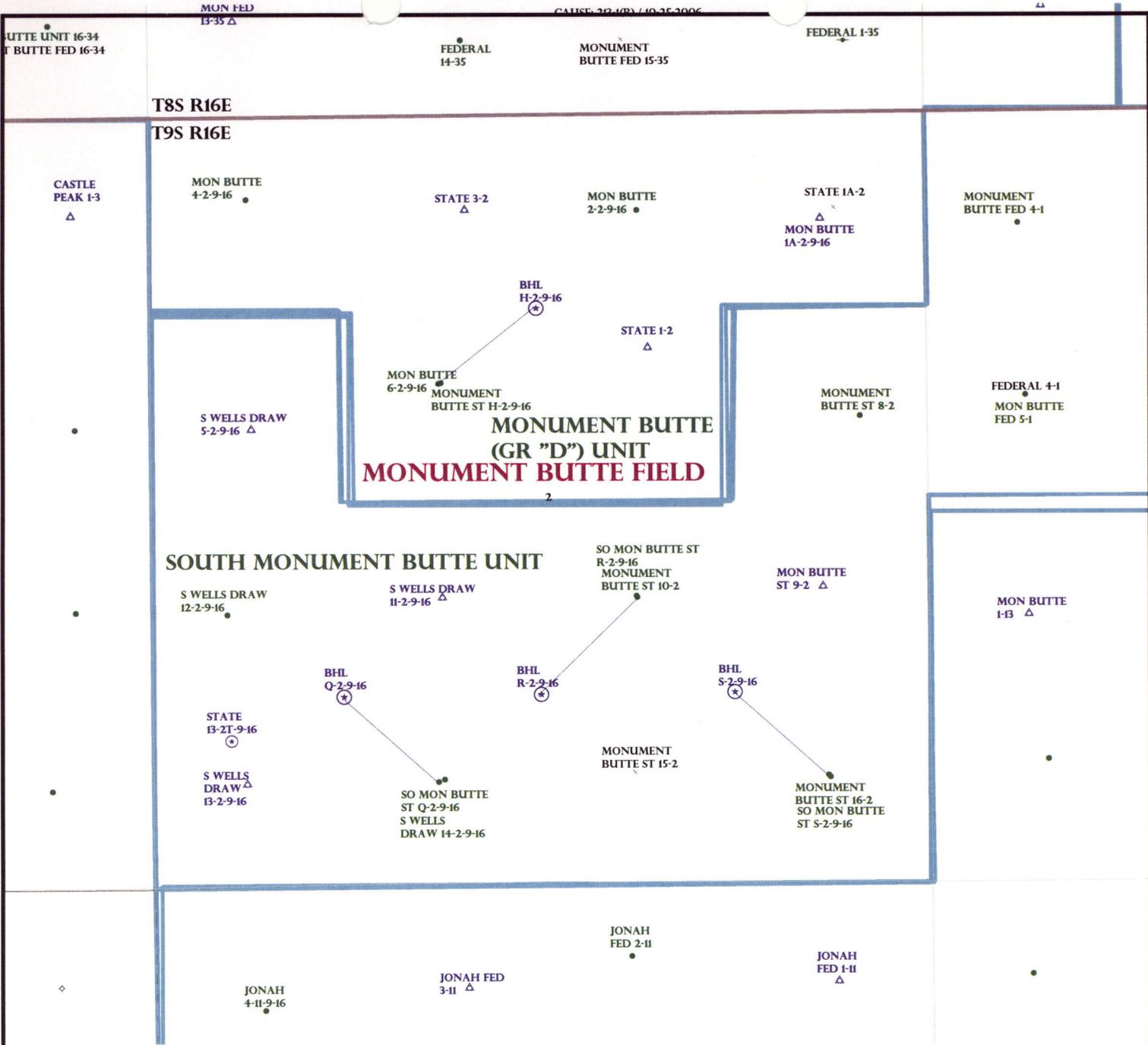
- R649-2-3. \* NON PIA
- Unit: S MONUMENT BUTTE (GR)
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- R649-3-11. Directional Drill

COMMENTS:

*Needs Permit (02-12-08)*

STIPULATIONS:

- 1- Spacing Strip
- 2- STATEMENT OF BASIS
- 3- Conf. St. #34 (7 5/8" Intermediate, 3000' minimum, Green Paper Form)



OPERATOR: NEWFIELD PROD CO (N2695)  
 SEC: 2 T.9S R.16E  
 FIELD: MONUMENT BUTTE (105)  
 COUNTY: DUCHESNE  
 SPACING: R649-3-3 / EXCEPTION LOCATION

**Field Status**

	ABANDONED
	ACTIVE
	COMBINED
	INACTIVE
	PROPOSED
	STORAGE
	TERMINATED

**Unit Status**

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

**Wells Status**

	GAS INJECTION
	GAS STORAGE
	LOCATION ABANDONED
	NEW LOCATION
	PLUGGED & ABANDONED
	PRODUCING GAS
	PRODUCING OIL
	SHUT-IN GAS
	SHUT-IN OIL
	TEMP. ABANDONED
	TEST WELL
	WATER INJECTION
	WATER SUPPLY
	WATER DISPOSAL
	DRILLING



PREPARED BY: DIANA MASON  
 DATE: 11-FEBRUARY-2008

# Application for Permit to Drill

## Statement of Basis

2/20/2008

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
670	43-013-33892-00-00		GW	S	No
<b>Operator</b>	NEWFIELD PRODUCTION COMPANY	<b>Surface Owner-APD</b>			
<b>Well Name</b>	STATE 13-2T-9-16	<b>Unit</b>			
<b>Field</b>	UNDESIGNATED	<b>Type of Work</b>			
<b>Location</b>	SWSW 2 9S 16E S 1025 FSL 547 FWL	GPS Coord (UTM) 577320E 4434086N			

### Geologic Statement of Basis

Newfield proposes to set 60' of conductor and 1,000' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 570'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 2. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect useable sources of underground water.

Brad Hill  
APD Evaluator

2/20/2008  
Date / Time

### Surface Statement of Basis

The general area is approximately 14 miles southwest of Myton, Utah in the upper Castle Peak Draw area. Castle Peak Draw runs in a northeasterly direction about 14 miles and joins Pariette Draw. Pariette Draw continues in a southeasterly direction about 6 miles and joins the Green River about 6 miles below Ouray Utah. Pariette Draw contains a perennial stream somewhat consisting of irrigation runoff and seepage. No streams springs or seeps occur in this area. An occasional pond constructed to store runoff for livestock or wildlife exists. Drainages are ephemeral only flowing during spring snowmelt or following intense summer rainstorms. Broad flats or rolling topography intersected by drainages with gentle to moderate side-slopes characterize the area. Access to the area from Myton, Utah is following State of Utah Hwy. 40 and Duchesne County and oilfield development roads a distance of 14.0 miles. Construction of 100 feet of new road will be required.

The proposed State 13-2T-9-16 oil well location is on a flat area with a slight slope to the southeast. Surrounding terrain is rolling. The reserve pit is planned to be cut into the elevated northwest corner of the location. No drainages intersect the location and no diversions will be required. The selected site poses no apparent surface concerns and appears to be a good location for constructing a pad, drilling and operating a well. The well is a deep gas well with a proposed depth of 17,118 feet. The area was covered with about 14 inches of snow during the evaluation. Both the surface and minerals are owned by SITLA.

Jim Davis and Ed Bonner of SITLA were invited to the presite visit. Neither attended. Daniel Emmett representing the Utah Division of Wildlife Resources stated the area is classified as substantial value sage grouse brooding habitat and crucial yearlong antelope habitat. No restrictions for either species was requested. No other wildlife are expected to be significantly affected. Mr. Emmett gave Mr. Allred of Newfield Production Company a copy of his evaluation and also a seed mix recommendation to be used when the reserve pit and location are reclaimed.

Floyd Bartlett  
Onsite Evaluator

2/12/2008  
Date / Time

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# Application for Permit to Drill

## Statement of Basis

2/20/2008

Utah Division of Oil, Gas and Mining

Page 2

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### Conditions of Approval / Application for Permit to Drill

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** NEWFIELD PRODUCTION COMPANY  
**Well Name** STATE 13-2T-9-16  
**API Number** 43-013-33892-0      **APD No** 670      **Field/Unit** UNDESIGNATED  
**Location:** 1/4,1/4 SWSW      **Sec** 2      **Tw** 9S      **Rng** 16E      1025 FSL 547 FWL  
**GPS Coord (UTM)** 577330      4434097      **Surface Owner**

### Participants

Floyd Bartlett (DOGM), David Allred and Kevin Stevens (Newfield Production Company), Cory Miller (Tri-State Land Surveying), Daniel Emmett (Utah Division of Wildlife Resources).

### Regional/Local Setting & Topography

The general area is approximately 14 miles southwest of Myton, Utah in the upper Castle Peak Draw area. Castle Peak Draw runs in a northeasterly direction about 14 miles and joins Pariette Draw. Pariette Draw continues in a southeasterly direction about 6 miles and joins the Green River about 6 miles below Ouray Utah. Pariette Draw contains a perennial stream somewhat consisting of irrigation runoff and seepage. No streams springs or seeps occur in this area. An occasional pond constructed to store runoff for livestock or wildlife exists. Drainages are ephemeral only flowing during spring snowmelt or following intense summer rainstorms. Broad flats or rolling topography intersected by drainages with gentle to moderate side-slopes characterize the area. Access to the area from Myton, Utah is following State of Utah Hwy. 40 and Duchesne County and oilfield development roads a distance of 14.0 miles. Construction of 100 feet of new road will be required.

The proposed State 13-2T-9-16 oil well location is on a flat area with a slight slope to the southeast. Surrounding terrain is rolling. The reserve pit is planned to be cut into the elevated northwest corner of the location. No drainages intersect the location and no diversions will be required. The selected site poses no apparent surface concerns and appears to be a good location for constructing a pad, drilling and operating a well. The well is a deep gas well with a proposed depth of 17,118 feet. The area was covered with about 14 inches of snow during the evaluation. Both the surface and minerals are owned by SITLA.

### Surface Use Plan

#### **Current Surface Use**

Grazing  
Recreational  
Wildlfe Habitat

#### **New Road**

Miles	Well Pad	Length	Src Const Material	Surface Formation
0.05	Width 310	400	Onsite	UNTA

**Ancillary Facilities** N

### Waste Management Plan Adequate?

### Environmental Parameters

**Affected Floodplains and/or Wetland** N

#### **Flora / Fauna**

Area was covered with snow. Vegetation is a Deseret shrub type. Identified or expected vegetation consisted of black sagebrush, shadscale, greasewood, mustard weed, rabbit brush, horsebrush, broom snakeweed, globe mallow, curly mesquite grass and spring annuals.

Cattle, prairie dogs, antelope, small mammals and birds. Golden eagle have been sited in the general area.

**Soil Type and Characteristics**

Moderately deep sandy clay loam with some surface rock.

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required** N

**Berm Required?** N

**Erosion Sedimentation Control Required?** N

**Paleo Survey Run?** N    **Paleo Potential Observed?** N    **Cultural Survey Run?** Y    **Cultural Resources?**

**Reserve Pit**

**Site-Specific Factors**

**Site Ranking**

<b>Distance to Groundwater (feet)</b>	>200	0
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	300 to 1320	10
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	<10	0
<b>Affected Populations</b>	<10	0
<b>Presence Nearby Utility Conduits</b>	Not Present	0

**Final Score** 25    1    **Sensitivity Level**

**Characteristics / Requirements**

A 100' x 158' x 8' deep reserve pit is planned in an area of cut on the northwest side of the location. A pit liner is required. Newfield commonly uses a 16-mil liner.

**Closed Loop Mud Required?** N    **Liner Required?** Y    **Liner Thickness** 16    **Pit Underlayment Required?** Y

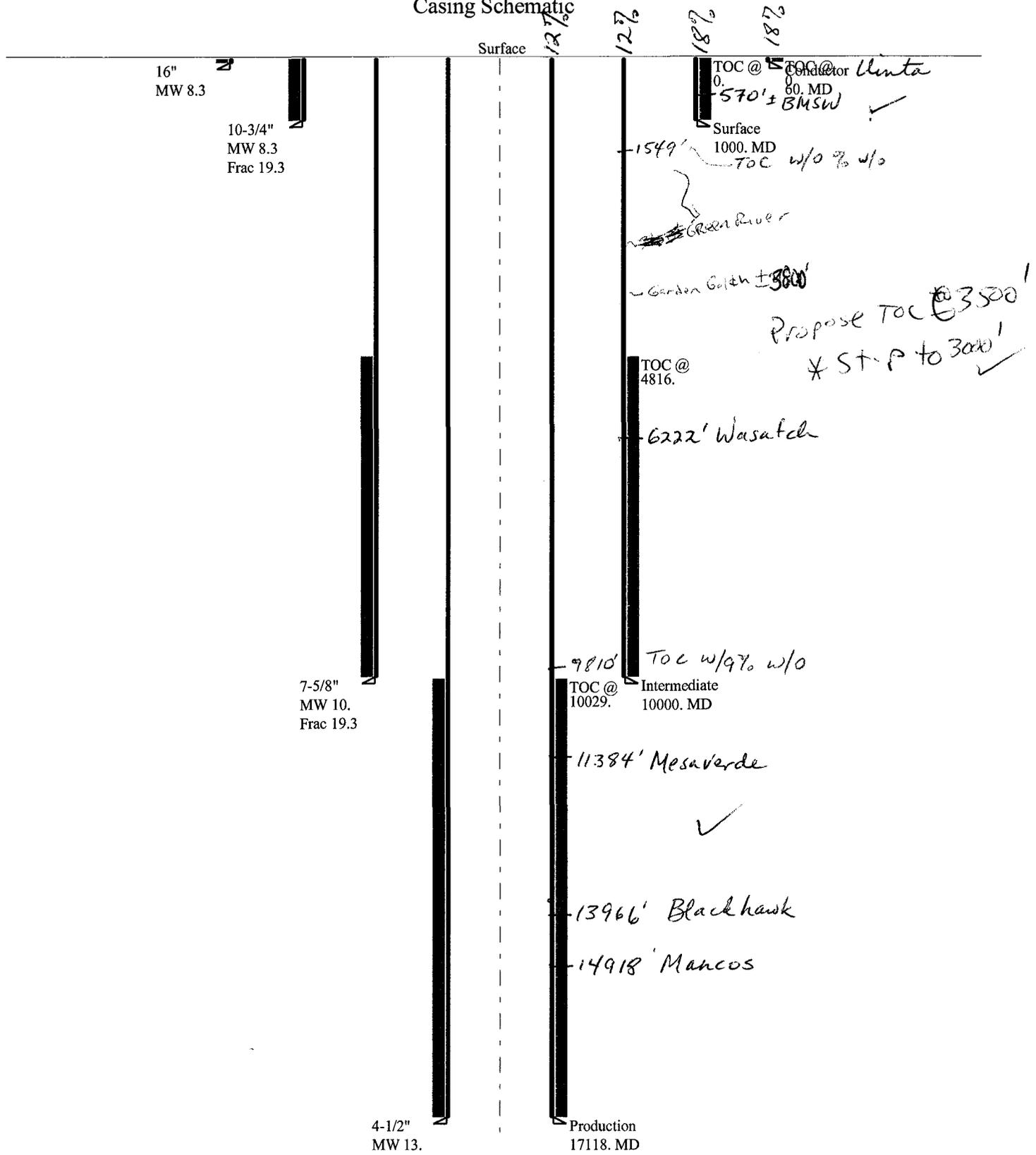
**Other Observations / Comments**

Floyd Bartlett  
**Evaluator**

2/12/2008  
**Date / Time**

2008-02 Newfield State 13-21-9-16

Casing Schematic



# BOPE REVIEW

<b>Well Name</b>	Newfield State 13-2T-9-16 API 43-013-33892
------------------	--

INPUT	Newfield State 13-2T-9-16 API 43-013-33892			
Well Name	String 1	String 2	String 3	String 4
Casing Size (")	10 3/4	7 5/8	4 1/2	
Setting Depth (TVD)	1000	10000	17118	
Previous Shoe Setting Depth (TVD)	60	1000	10000	
Max Mud Weight (ppg)	8.4	10	13	
BOPE Proposed (psi)	500	5000	10000	
Casing Internal Yield (psi)	3130	9180	13460	
Operators Max Anticipated Pressure (psi)	11127		12.5 ppg	

Calculations	String 1	10 3/4 "	
Max BHP [psi]	.052*Setting Depth*MW =	437	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	317	YES ✓
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	217	YES
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	230	← NO <i>o.k.</i>
Required Casing/BOPE Test Pressure		1000 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		60 psi	*Assumes 1psi/ft frac gradient

Calculations	String 2	7 5/8 "	
Max BHP [psi]	.052*Setting Depth*MW =	5200	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	4000	YES ✓
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	3000	YES
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	3220	← NO
Required Casing/BOPE Test Pressure		6426 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		1000 psi	*Assumes 1psi/ft frac gradient

Calculations	String 3	4 1/2 "	
Max BHP [psi]	.052*Setting Depth*MW =	11572	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	9518	YES ✓
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	7806	YES
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	10006	← NO <i>o.k. for 0.9 psi/ft frac grad → high enough prev. o.k.</i>
Required Casing/BOPE Test Pressure		9422 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		9180 psi	*Assumes 1psi/ft frac gradient

Well name:	<b>2008-02 Newfield State 13-2T-9-16</b>	
Operator:	<b>Newfield Production Company</b>	Project ID:
String type:	Surface	43-013-33892
Location:	Duchesne County	

**Design parameters:**

**Collapse**  
 Mud weight: 8.330 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**  
 Design factor 1.125

**Environment:**

H2S considered? No  
 Surface temperature: 75 °F  
 Bottom hole temperature: 89 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 290 ft

**Burst**

Max anticipated surface pressure: 880 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP 1,000 psi  
  
 No backup mud specified.

**Burst:**  
 Design factor 1.00

Cement top: Surface

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

**Non-directional string.**

Tension is based on buoyed weight.  
 Neutral point: 878 ft

**Re subsequent strings:**  
 Next setting depth: 10,000 ft  
 Next mud weight: 10.000 ppg  
 Next setting BHP: 5,195 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 1,000 ft  
 Injection pressure: 1,000 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	1000	10.75	40.50	J-55	ST&C	1000	1000	9.925	550.9
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	433	1580	3.651	1000	3130	3.13	36	420	11.81 J

Prepared by: Helen Sadik-Macdonald  
 Div of Oil, Gas & Minerals

Phone: 801-538-5357  
 FAX: 801-359-3940

Date: February 20, 2008  
 Salt Lake City, Utah

Remarks:  
 Collapse is based on a vertical depth of 1000 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>2008-02 Newfield State 13-2T-9-16</b>	
Operator:	<b>Newfield Production Company</b>	Project ID:
String type:	Intermediate	43-013-33892
Location:	Duchesne County	

**Design parameters:**

**Collapse**  
Mud weight: 10.000 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**  
Design factor 1.125

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 215 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

**Burst:**  
Design factor 1.00

Cement top: 4,816 ft

**Burst**

Max anticipated surface pressure: 7,794 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP: 9,994 psi  
Annular backup: 2.30 ppg

**Tension:**

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

**Non-directional string.**

Tension is based on buoyed weight.  
Neutral point: 8,509 ft

**Re subsequent strings:**

Next setting depth: 17,118 ft  
Next mud weight: 13.000 ppg  
Next setting BHP: 11,560 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 10,000 ft  
Injection pressure: 10,000 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	10000	7.625	39.00	N-80	LT&C	10000	10000	6.5	2393.8
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	5195	8820	1.698	8799	9180	1.04	332	798	2.40 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Minerals

Phone: 801-538-5357  
FAX: 801-359-3940

Date: February 21, 2008  
Salt Lake City, Utah

Remarks:  
Collapse is based on a vertical depth of 10000 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>2008-02 Newfield State 13-2T-9-16</b>	
Operator:	<b>Newfield Production Company</b>	Project ID:
String type:	Production	43-013-33892
Location:	Duchesne County	

**Design parameters:**

**Collapse**  
 Mud weight: 13.000 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: 315 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,500 ft  
 Cement top: 10,029 ft

**Burst**

Max anticipated surface pressure: 7,794 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 11,560 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: 13,744 ft

**Non-directional string.**

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	17118	4.5	15.10	P-110	Buttress	17118	17118	3.701	1366.7

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	11560	14350	1.241	11560	13460	1.16	208	485	2.34 B

Prepared by: Helen Sadik-Macdonald  
 Div of Oil, Gas & Minerals

Phone: 801-538-5357  
 FAX: 801-359-3940

Date: February 20, 2008  
 Salt Lake City, Utah

Remarks:  
 Collapse is based on a vertical depth of 17118 ft, a mud weight of 13 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.



February 11, 2008

State of Utah, Division of Oil, Gas & Mining  
ATTN: Diana Mason  
PO Box 145801  
Salt Lake City, UT 84114-5801

43-01333892

RE: Exception Location  
**State 13-2T-9-16**  
ML-21839  
T9S R16E, Section 2: SWSW  
1025' FSL 547' FWL  
Uintah County, Utah

Dear Ms. Mason;

Pursuant to Rule 649-3-3 of the Oil & Gas Rules and Regulations of the State of Utah, Newfield Production Company ("NPC") hereby requests an exception location for the drilling of the captioned well. The proposed drillsite for this well is located 161' north of the drilling window required by Rule R649-3-2, which requires a well to be located in the center of a forty (40) acre quarter-quarter section, or a substantially equivalent lot or tract, with a tolerance of two hundred (200) feet in any direction from the center.

The attached plat depicts the proposed location and illustrates the deviation from the drilling window. This location has been chosen so it will not interfere with the wellbore of the S Wells Draw 13-2-9-16, which is a Green River oil well. The State 13-2T-9-16 is proposed as a deep gas well.

Please note the drillsite and all surrounding acreage within a four hundred sixty (460) foot radius is completely within ML-21839, which is owned 100% by NPC as to rights below the base of the Green River formation.

If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at [reveland@newfield.com](mailto:reveland@newfield.com). Your consideration of this matter is greatly appreciated.

Sincerely,  
NEWFIELD PRODUCTION COMPANY

A handwritten signature in cursive script that reads "Roxann Eveland".

Roxann Eveland  
Land Associate

Attachment

RECEIVED

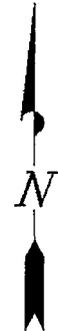
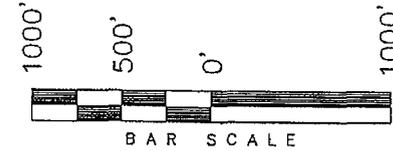
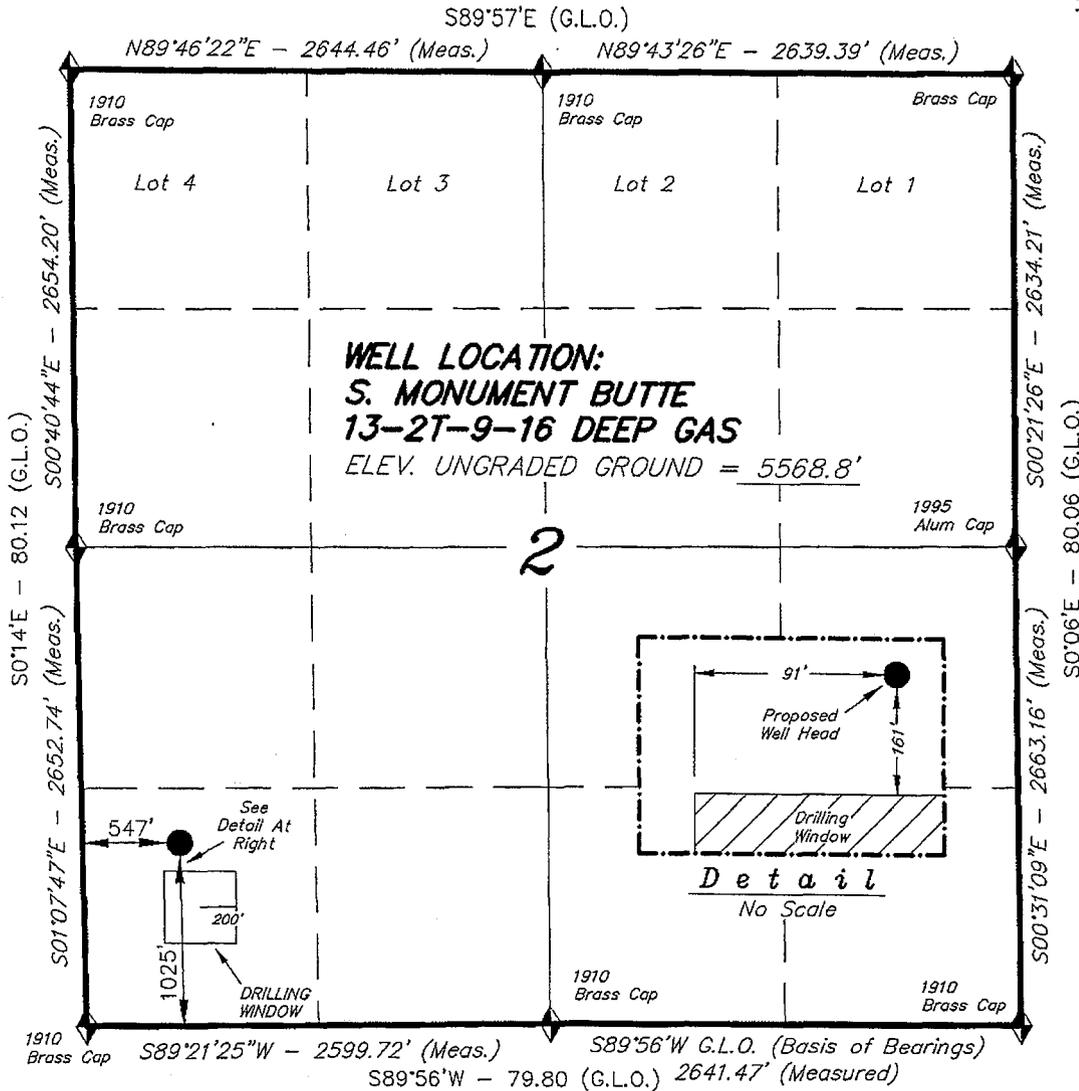
FEB 14 2008

DIV. OF OIL, GAS & MINING

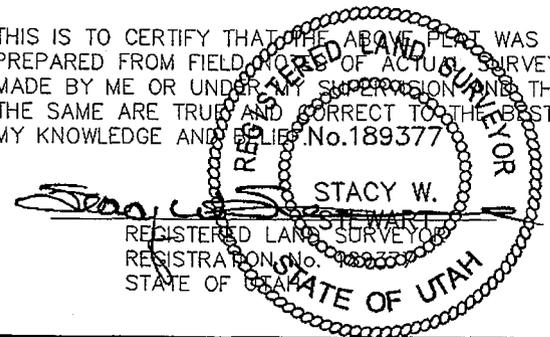
# T9S, R16E, S.L.B.&M.

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, S. MONUMENT BUTTE  
13-2T-9-16 DEEP GAS, LOCATED AS SHOWN  
IN THE SW 1/4 SW 1/4 OF SECTION 2, T9S,  
R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAN 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 (MYTON SE)

**S. MONUMENT BUTTE**  
**13-2T-9-16 DEEP GAS**  
**(Surface Location) NAD 83**  
LATITUDE = 40° 03' 19.46"  
LONGITUDE = 110° 05' 38.68"

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

DATE SURVEYED: 08-22-07	SURVEYED BY: C.M.
DATE DRAWN: 01-18-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

STATE OF UTAH  
**DIVISION OF OIL, GAS AND MINING**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN**

1a. TYPE OF WORK DRILL  **DEEPEN**

1b. TYPE OF WELL  
 OIL  GAS  OTHER  SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
**Newfield Production Company**

3. ADDRESS AND TELEPHONE NUMBER:  
**Route #3 Box 3630, Myton, UT 84052 Phone: (435) 646-3721**

4. LOCATION OF WELL (FOOTAGE)  
 At Surface **SW/SW 1025' FSL 547' FWL**  
 At proposed Producing Zone

5. LEASE DESIGNATION AND SERIAL NO.  
**ML-21839**

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

7. UNIT AGREEMENT NAME  
**N/A**

8. FARM OR LEASE NAME  
**N/A**

9. WELL NO.  
**State 13-2T-9-16**

10. FIELD AND POOL OR WILDCAT  
**Monument Butte**

11. QTR/QR, SECTION, TOWNSHIP, RANGE, MERIDIAN  
**SW/SW s/b T9S Sec. 2, (T98S) R16E**

12. County **Duchesne** 13. STATE **UT**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**Approximately 14.0 miles southwest of Myton, UT**

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
**Approx. 547' f/lse line & 1025' f/unit line**

16. NO. OF ACRES IN LEASE  
**640.00**

17. NO. OF ACRES ASSIGNED TO THIS WELL  
**40**

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  
**NA**

19. PROPOSED DEPTH  
**17,118**

20. ROTARY OR CABLE TOOLS  
**Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**5569' GL**

22. APPROX. DATE WORK WILL START\*  
**1st Quarter 2008**

**23. PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16"	65.0#	60'	See Attachment
14.75"	10 3/4"	40.5#	1,000'	See Attachment
9.875"	7 5/8"	39#	10,000'	See Attachment
6.5"	4 1/2"	15.1#	TD	See Attachment

DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give date on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

\*The actual cement volumes will be calculated off of the open hole logs, plus 15% over capiler volume:

See attached Ten Point Drilling Program

24. Name & Signature Mandie Crozier Title: Regulatory Specialist Date: 1/28/2008

(This space for State use only)

API Number Assigned: \_\_\_\_\_ APPROVAL: \_\_\_\_\_

**RECEIVED**  
**FEB 14 2008**  
 DIV. OF OIL, GAS & MINING

\*See Instructions On Reverse Side

**From:** Ed Bonner  
**To:** Mason, Diana  
**Date:** 4/17/2008 3:00 PM  
**Subject:** Well Clearance

**CC:** Davis, Jim; Garrison, LaVonne; Hill, Brad; Jarvis, Dan; Sweet, Jean  
The following wells have been given cultural resources and paleontological resources clearance by the Trust Lands Administration:

Fidelity Exploration & Production  
Tenmile Wash State 16-1 (API 43 019 31576)

Newfield Production Company  
State 13-2T-9-16 (API 43 013 33892)

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



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

April 24, 2008

Newfield Production Company  
Rt. #3, Box 3630  
Myton, UT 84052

Re: State 13-2T-9-16 Well, 1025' FSL, 547' FWL, SW SW, Sec. 2, T. 9 South, R. 16 East, Duchesne County, Utah

Gentlemen:

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

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33892.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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



**Operator:** Newfield Production Company  
**Well Name & Number** State 13-2T-9-16  
**API Number:** 43-013-33892  
**Lease:** ML-21839

**Location:** SW SW      **Sec.** 2      **T.** 9 South      **R.** 16 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 action during drilling of this well:

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

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

- Dan Jarvis at:      (801) 538-5338 office      (801) 942-0871 home
- Carol Daniels at:      (801) 538-5284 office
- Dustin Doucet at:      (801) 538-5281 office      (801) 733-0983 home

#### 3. Reporting Requirements

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

4. 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. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.
7. Cement volume for the 7 5/8" intermediate string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 3000' minimum in order to adequately isolate the Green River formation.



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

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

**API:** 43-013-33892  
**Well Name:** State 13-2T-9-16  
**Location:** SW/SW Section 2,T9S R16E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 4/24/2008

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

3/30/2009  
Date

Title: Regulatory Specialist

Representing: Newfield Production Company

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

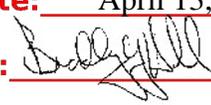
<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-21839
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> STATE 13-2T-9-16
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013338920000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1025 FSL 0547 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 02 Township: 09.0S Range: 16.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE  <b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 4/5/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> 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"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> 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 checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**  
 Newfield proposes to extend the permit to drill this well for one more year.

Approved by the  
 Utah Division of  
 Oil, Gas and Mining

Date: April 13, 2010  
 By: 

<b>NAME (PLEASE PRINT)</b> Mandie Crozier	<b>PHONE NUMBER</b> 435 646-4825	<b>TITLE</b> Regulatory Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/5/2010	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43013338920000**

**API:** 43013338920000

**Well Name:** STATE 13-2T-9-16

**Location:** 1025 FSL 0547 FWL QTR SWSW SEC 02 TWNP 090S RNG 160E MER S

**Company Permit Issued to:** NEWFIELD PRODUCTION COMPANY

**Date Original Permit Issued:** 4/24/2008

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
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- 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

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Mandie Crozier

**Date:** 4/5/2010

**Title:** Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY

**Date:** April 13, 2010

**By:**



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

May 18, 2011

Mandie Crozier  
Newfield Production Co  
Route 3 Box 3630  
Myton, UT 84052

Re: APD Rescinded – State 13-2T-9-16, Sec. 2, T.9S, R.16E  
Duchesne County, Utah API No. 43-013-33892

Dear Ms. Crozier:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on April 24, 2008. On April 6, 2009 and April 13, 2010 the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective May 18, 2011.

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

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

Sincerely,

Diana Mason  
Environmental Scientist

cc: Well File  
SITLA, Ed Bonner



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Governor

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# State of Utah

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