



October 19, 2001

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

RE: Applications for Permit to Drill: 1A-2-9-16, 2-2-9-16, 4-2-9-16, and
6-2-9-16.

Dear Brad:

Enclosed find APD's on the above referenced wells. If you have any questions, feel free to give either Brad or myself a call.

Sincerely,

Mandie Crozier
Permit Clerk

mc
enclosures

cc: Bureau of Land Management
Well File

RECEIVED

OCT 23 2001

**DIVISION OF
OIL, GAS AND MINING**

STATE OF UTAH
 DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN

5. LEASE DESIGNATION AND SERIAL NO. U-16535-ML-21839

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

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Monument Butte 6R "D"

9. WELL NO.
4-2-9-16

10. FIELD AND POOL OR WILDCAT
Monument Butte

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Lot #4 NWNW Sec. 2, T9S, R16E

12. County Duchesne 13. STATE UT

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 11.2 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 640' f/lse line & 640' f/unit line

16. NO. OF ACRES IN LEASE 920

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.
Approximately 1618'

19. PROPOSED DEPTH 6500'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5576.1' GR

22. APPROX. DATE WORK WILL START*
4th Quarter 2001

23. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24#	290'	155 sx +/- 10%
7 7/8	5 1/2	15.5#	TD	275 sx lead followed by 450 sx tail
				See Detail Below

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 on 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% excess:

SURFACE PIPE - 155 sx Class G Cement +/- 10%, w/ 2% CaCl₂ & 1/4#/sk Cello-flake
 Weight: 15.8 PPG YIELD: 1.17 Cu Ft/sk H₂O Req: 5 gal/sk

LONG STRING - Lead: Premium Lite II Cement + 3lbs/sk BA-90 + 3% KCl + .25 lbs/sk Cello Flake + 2 lbs/sk Roi Seal +
 10% Bentonite + .5% Sodium Metasilicate
 Weight: 11.0 PPG YIELD: 3.43 Cu Ft/sk H₂O Req: 21.04 gal/sk

Tail: 50-50 Poz-Class G Cement + 3% KCl + .25 lbs/sk Cello Flake + 2% Bentonite + .3% Sodium Metasilicate
 Weight: 14.2 PPG YIELD: 1.59 Cu Ft/sk H₂O Req: 7.88 gal/sk

24. Name & Signature Mandie Crozier Title: Permit Clerk Date: 10/19/01
Mandie Crozier

(This space for State use only)

API Number Assigned:

43-013-32315 APPROVAL:

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

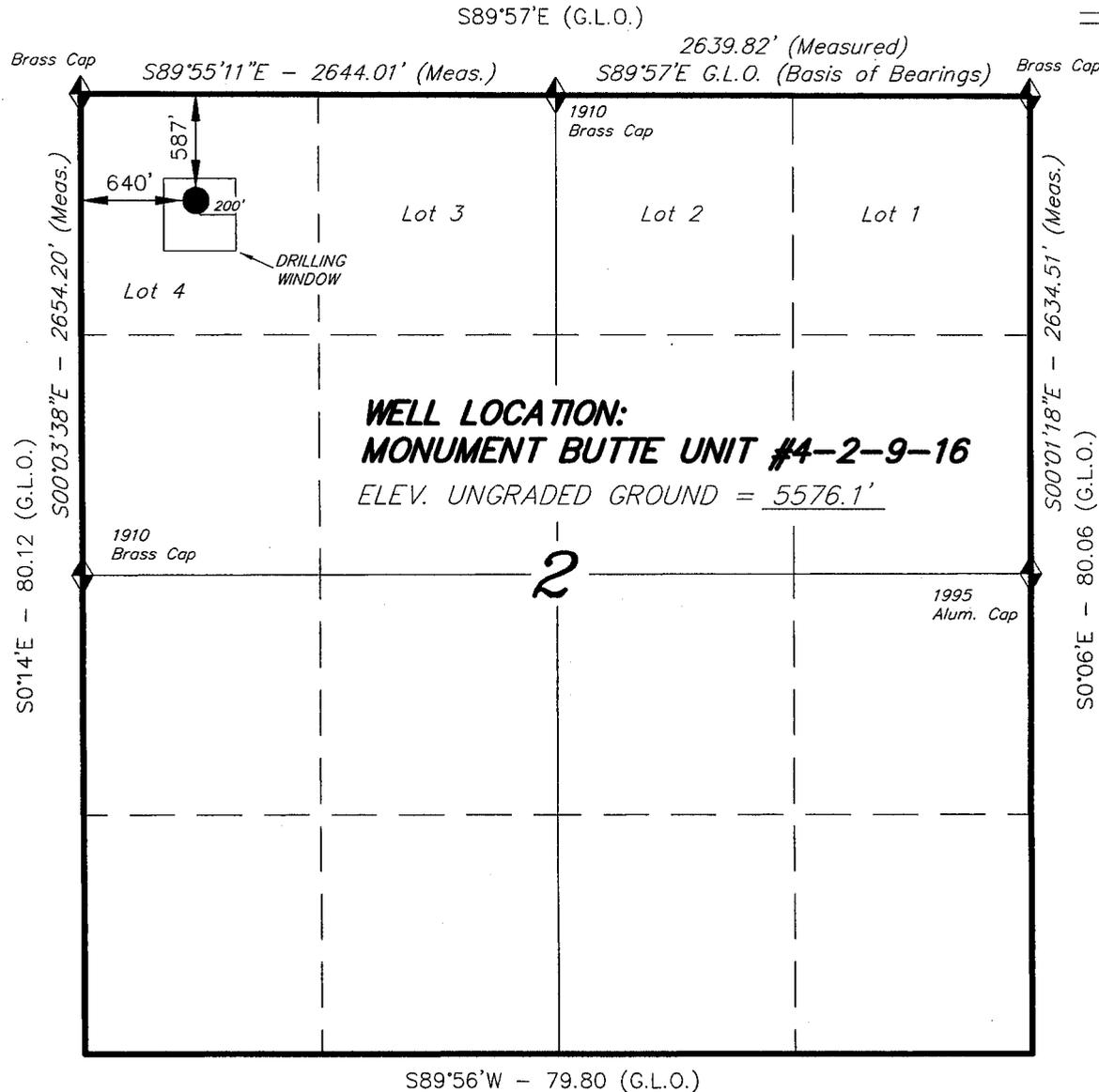
Date: 12-03-01
 By: [Signature]

RECEIVED
 OCT 23 2001
 DIVISION OF
 OIL, GAS AND MINING

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

INLAND PRODUCTION COMPANY

WELL LOCATION, MONUMENT BUTTE UNIT #4-2-9-16, LOCATED AS SHOWN IN LOT 4 OF SECTION 2, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



REGISTERED LAND SURVEYOR
GENE STEWART
NO. 144102
REGISTERED LAND SURVEYOR
REGISTRATION NO. 144102
STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING
38 WEST 100 NORTH - VERNAL, UTAH 84078
(435) 781-2501

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

SCALE: 1" = 1000'	SURVEYED BY: G.S. D.J.S.
DATE: 10-3-01	DRAWN BY: J.R.S.
NOTES:	FILE #

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

October 23, 2001

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2001 Plan of Development Monument Butte Unit Duchesne
County, Utah.

Pursuant to email between Lisha Cordova, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management. The following wells are planned for calendar year 2001 within the Monument Butte Unit, Duchesne County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-013-32313	Mon Butte 1A-2-9-16	Sec. 2, T9S, R16E 0714 FNL 0728 FEL
43-013-32314	Mon Butte 2-2-9-16	Sec. 2, T9S, R16E 0660 FNL 1980 FEL
43-013-32315	Mon Butte 4-2-9-16	Sec. 2, T9S, R16E 0587 FNL 0640 FWL
43-013-32316	Mon Butte 6-2-9-16	Sec. 2, T9S, R16E 1852 FNL 1960 FWL

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

/s/ Michael L. Coulthard

bcc: File - Monument Butte Unit
Division of Oil Gas and Mining
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:10-23-1

INLAND PRODUCTION COMPANY
MONUMENT BUTTE UNIT 4-2-9-16
LOT #4 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:**

Uinta	0 – 1700'
Green River	1700'
Wasatch	6500'

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

Green River Formation 1700' – 6500' – Oil

4. **PROPOSED CASING PROGRAM:**

Surface Casing: 8-5/8" J-55 24# w/ST&C collars; set at 290' (New)
Production Casing: 5-1/2" J-55, 15.5# w/LT&C collars; set at TD (New or used, inspected).

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

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

An 8" Series 900 Annular Bag type BOP and an 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

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

The well will be drilled with air mist system to 3200', then from 3200' +/- to TD a fresh water/polymer system will be utilized. If necessary, to control formation fluids, the system will be weighted with the addition of bentonite gel, and if conditions warrant, barite. This fresh water system typically will contain Total Dissolved Solids (TDS) of less than 3000 PPM. Neither potassium chloride nor chromates will be utilized in the fluid system. The anticipated mud weight is 8.4 ppg and weighted as necessary for gas control.

AIR DRILLING

In the event that the proposed location is to be "Air Drilled", Inland requests a variance to regulations requiring a straight run blooie line. Inland proposes that the flowline will contain two (2) 90-degree turns. Inland also requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. Inland requests authorization to ignite as needed, and the flowline at 80'.

Inland 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

Surface – 3200’
3200’ – TD’

MUD TYPE

fresh water or air/mist system
fresh water system

From surface to ± 3200 feet will be drilled with either fresh water or an air/mist system, depending on the drilling contractor's preference. From about 3200 feet, or in the case of the air/mist system when hole conditions dictate, to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCL substitute additive. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. No chromate additives will be used in the mud system.

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 Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 290’ +/-, and a Compensated Neutron-Formation Density Log from TD to 3500’ +/- . A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

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

The anticipated maximum bottom hole pressure is 2000 psi. It is not anticipated that abnormal temperatures will be encountered; or that any other abnormal hazards such as H2S will be encountered in this area.

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

It is anticipated that the drilling operations will commence the fourth quarter of 2001, and take approximately seven (7) days from spud to rig release.

INLAND PRODUCTION COMPANY
MONUMENT BUTTE UNIT 4-2-9-16
LOT #4 SECTION 2, T9S, R16E
DUCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. **EXISTING ROADS**

See attached **Topographic Map "A"**

To reach Inland Production Company well location site Monument Butte Unit 4-2-9-16 located in the Lot #4 Section 2, T9S, R16E, S.L.B. & M., Duchesne County, Utah:

Proceed in a southwesterly direction out of Myton, Utah along Highway 40 approximately 1.6 miles \pm to the junction of this highway and Utah State Highway 53; proceed southerly along Utah State Highway 53 approximately 5.4 miles \pm to its junction with an existing road to the southwest; proceed southwesterly approximately 2.9 miles \pm to its junction with an existing road to the south; proceed southerly approximately 1.3 miles \pm to its junction with the beginning of the proposed access road to the west; proceed westerly along the proposed access road approximately 0.2 miles \pm to the proposed 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 0.2 miles 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 Inland 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.

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 in storage tanks. Inland requests temporary approval to transfer the produced water to Inland's nearby waterflood, for re-

injection into the waterflood reservoirs via existing approved injection wells. Within 90 days of first production, a water analysis will be submitted to the Authorized Officer along with an application for approval of this, as a permanent disposal method.

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) Inland 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, Inland is to immediately stop work that might further disturb such materials and contact the Authorized Officer.
 - b) Inland 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 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

Inland Production Company guarantees that during the drilling and completion of the Monument Butte Unit 4-2-9-16, Inland 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. Inland also guarantees that during the drilling and completion of the Monument Butte Unit 4-2-9-16 Inland 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.

Inland Production Company or a contractor employed by Inland 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: Brad Mecham
Address: Inland Production Company
Route 3, Box 3630
Myton, UT 84052
Telephone: (435) 646-3721

Certification

Please be advised that INLAND RESOURCES, INC. is considered to be the operator of well #4-2-9-16, Lot #4 Section 2, T9S, R16E, LEASE #U-16535, 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. ~~4488944~~ *of file* *sc*

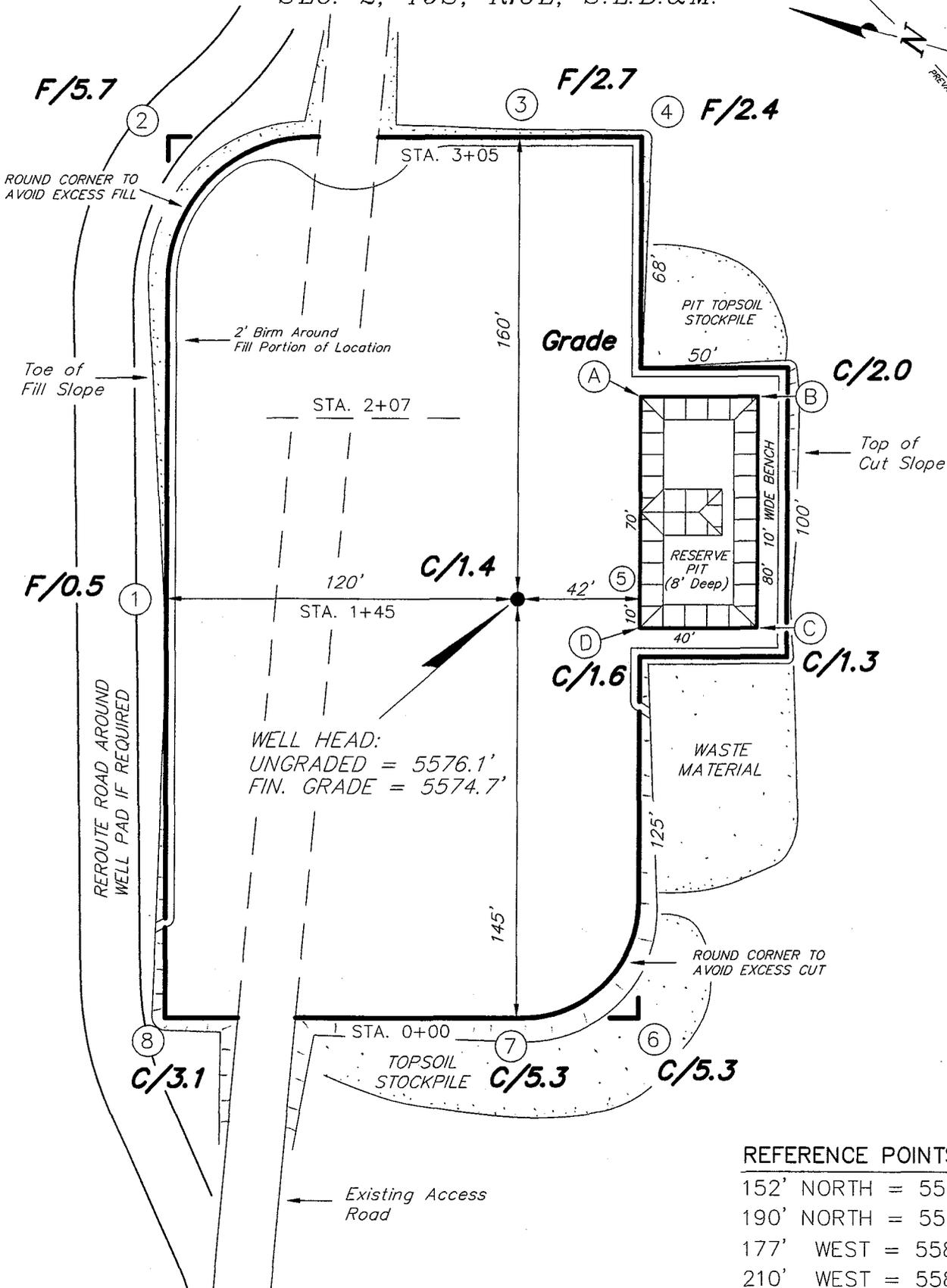
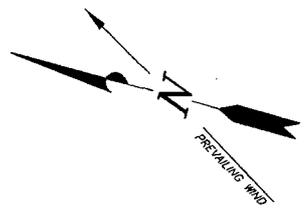
I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Resources, Inc. 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.

10/19/01
Date

Mandie Crozier
Mandie Crozier
Permit Clerk
Inland Production Company

INLAND PRODUCTION COMPANY

MONUMENT BUTTE UNIT #4-2-9-16
 SEC. 2, T9S, R16E, S.L.B.&M.



WELL HEAD:
 UNGRADED = 5576.1'
 FIN. GRADE = 5574.7'

REFERENCE POINTS

- 152' NORTH = 5572.6'
- 190' NORTH = 5571.0'
- 177' WEST = 5580.7'
- 210' WEST = 5581.3'

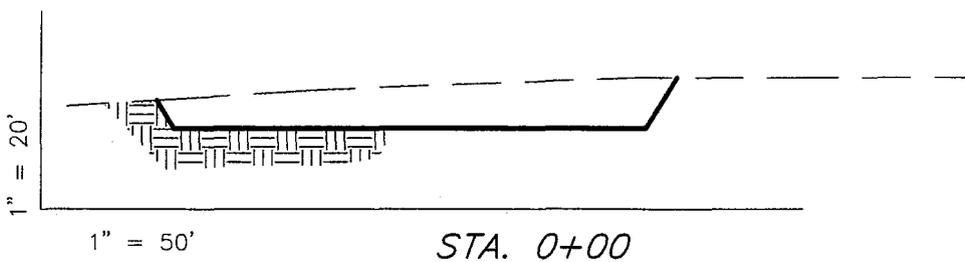
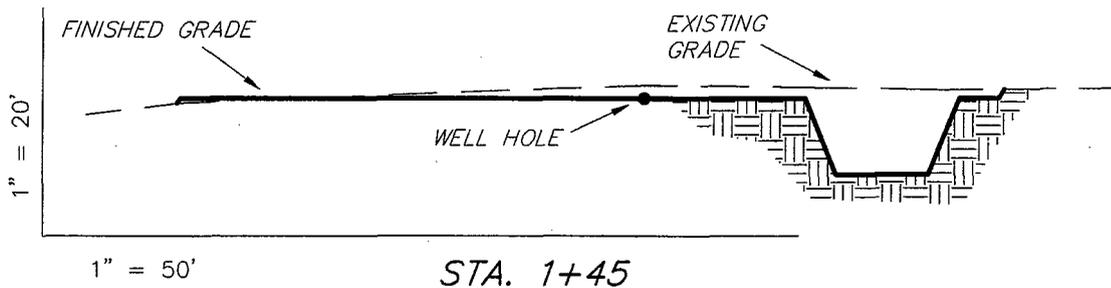
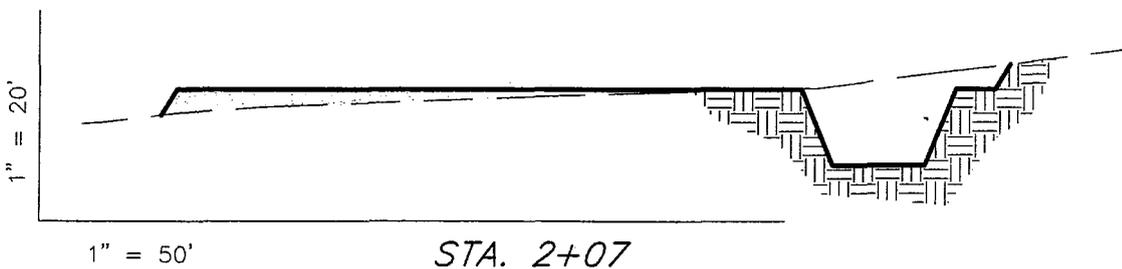
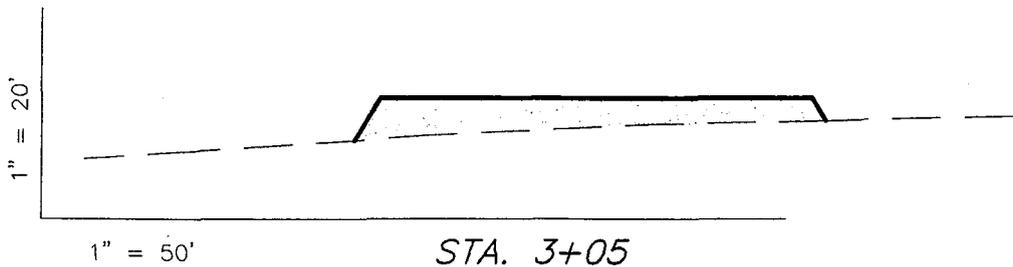
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DRAWN BY: J.R.S.	DATE: 10-3-01

Tri State Land Surveying, Inc. (435) 781-2501
 38 WEST 100 NORTH VERNAL, UTAH 84078

INLAND PRODUCTION COMPANY

CROSS SECTIONS

MONUMENT BUTTE UNIT #4-2-9-16



APPROXIMATE YARDAGES

CUT = 2,070 Cu. Yds.

FILL = 2,070 Cu. Yds.

PIT = 640 Cu. Yds.

6" TOPSOIL = 1,010 Cu. Yds.

SURVEYED BY: G.S.

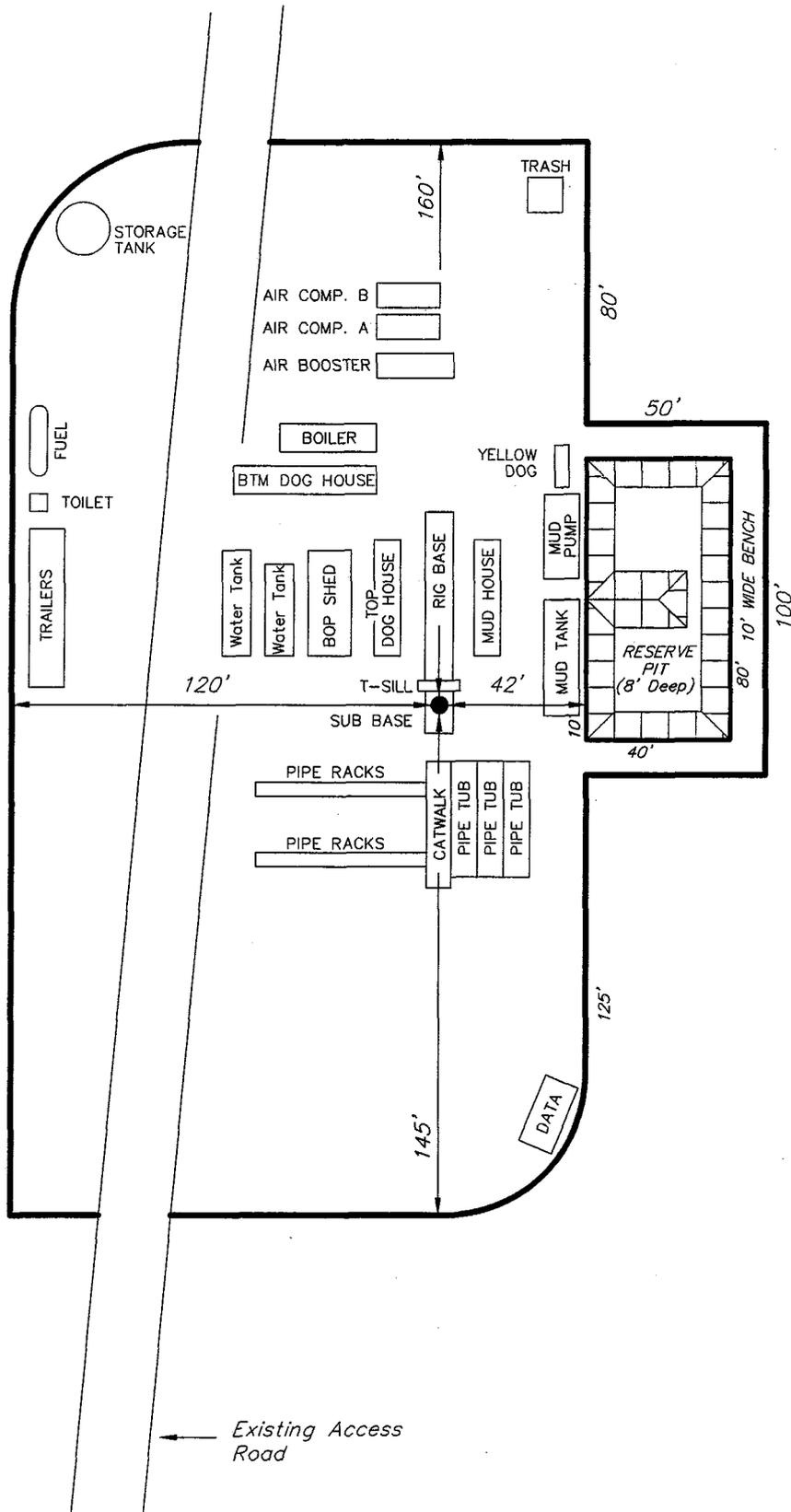
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DATE: 10-3-01

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(435) 781-2501

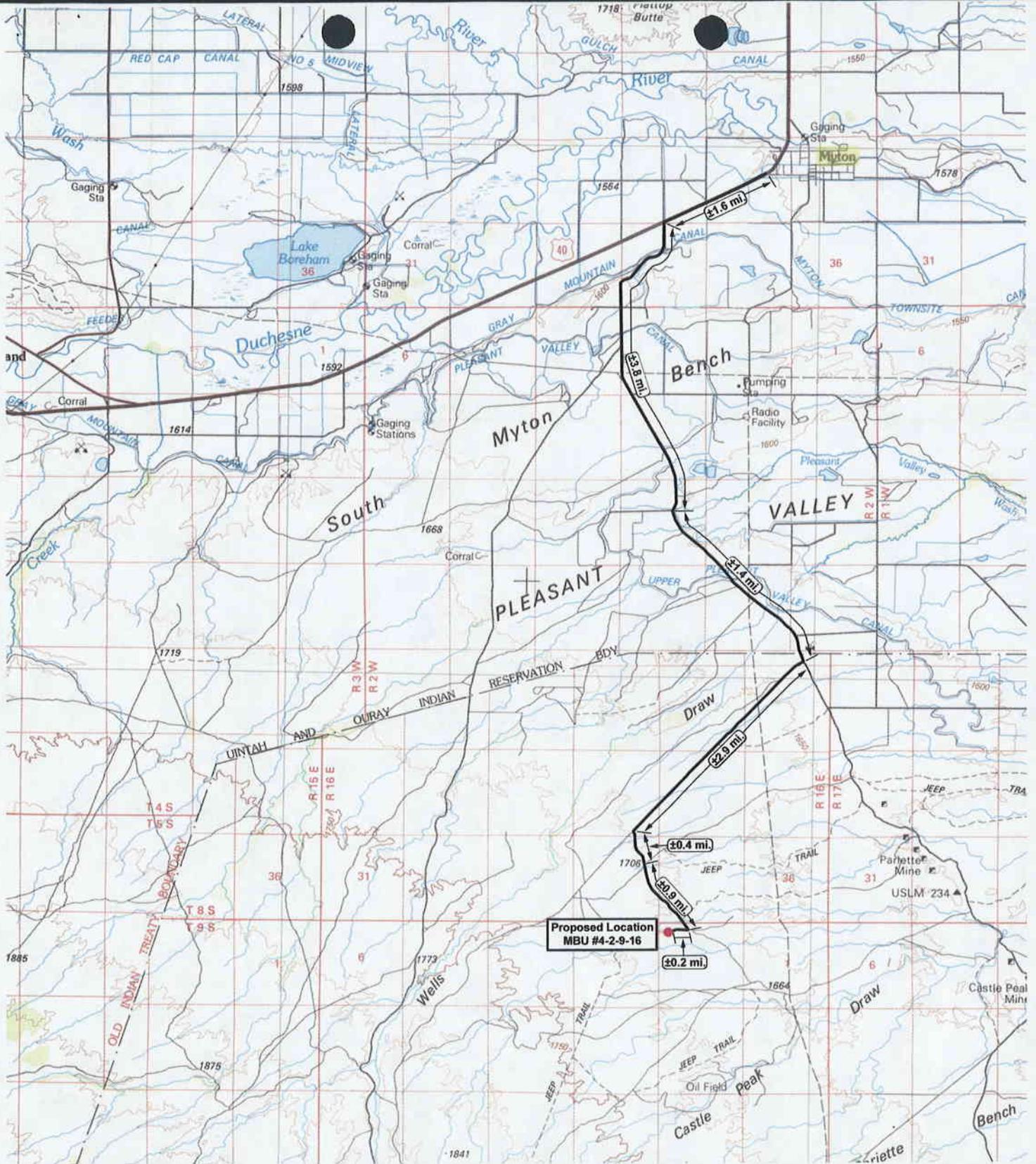
INLAND PRODUCTION COMPANY
TYPICAL RIG LAYOUT
MONUMENT BUTTE UNIT #4-2-9-16



SURVEYED BY: G.S.	SCALE: 1" = 50'
DRAWN BY: J.R.S.	DATE: 10-3-01

(435) 781-2501

Tri State
Land Surveying, Inc.
 38 WEST 100 NORTH VERNAL, UTAH 84078



Monument Butte Unit #4-2-9-16
SEC. 2, T9S, R16E, S.L.B.&M



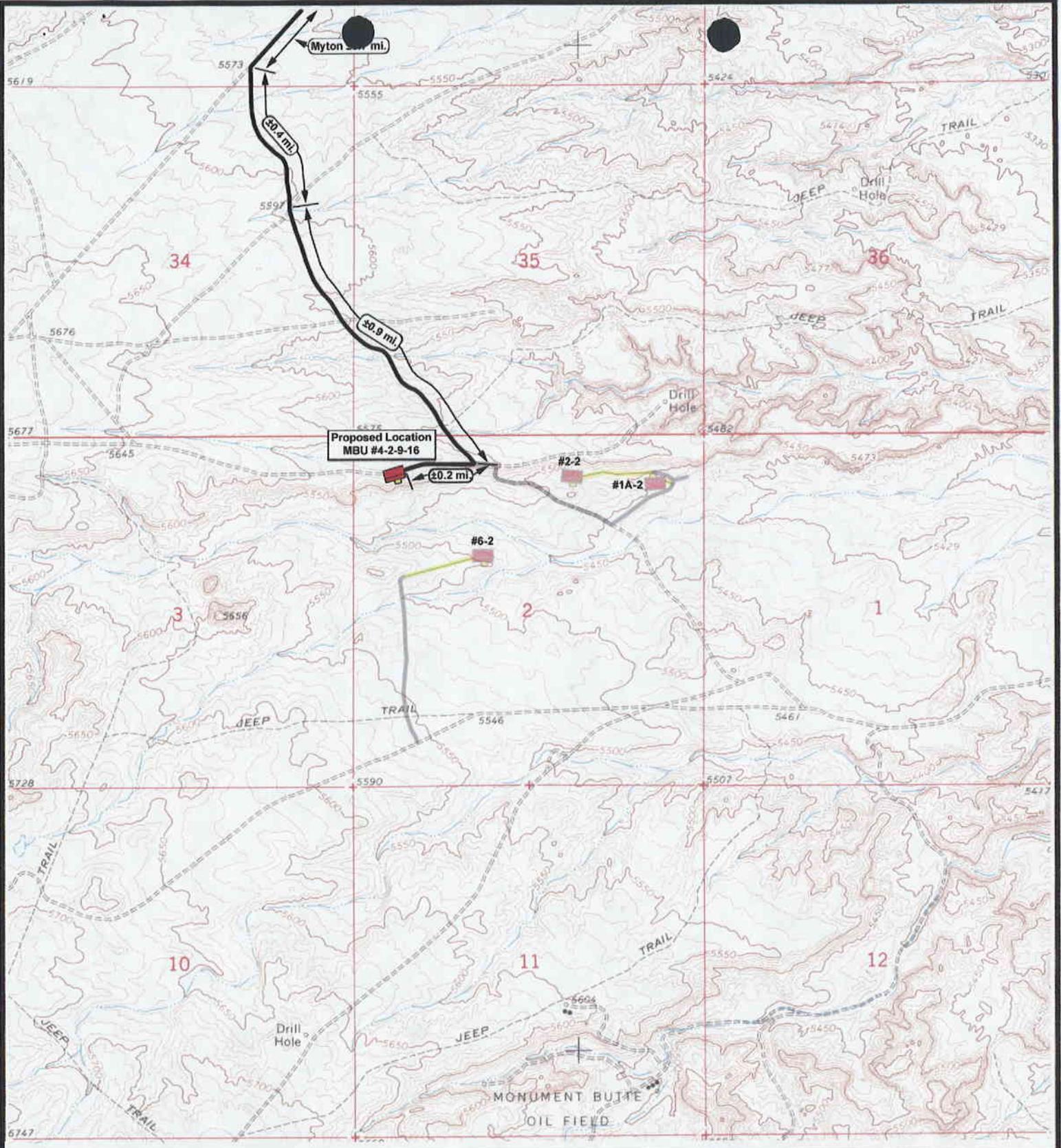
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 (435) 781-2501
 38 West 100 North Vernal, Utah 84078

SCALE: 1" : 100,000'
 DRAWN BY: D.J.
 DATE: 10-04-2001

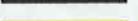
Legend

Existing Road

TOPOGRAPHIC MAP
"A"



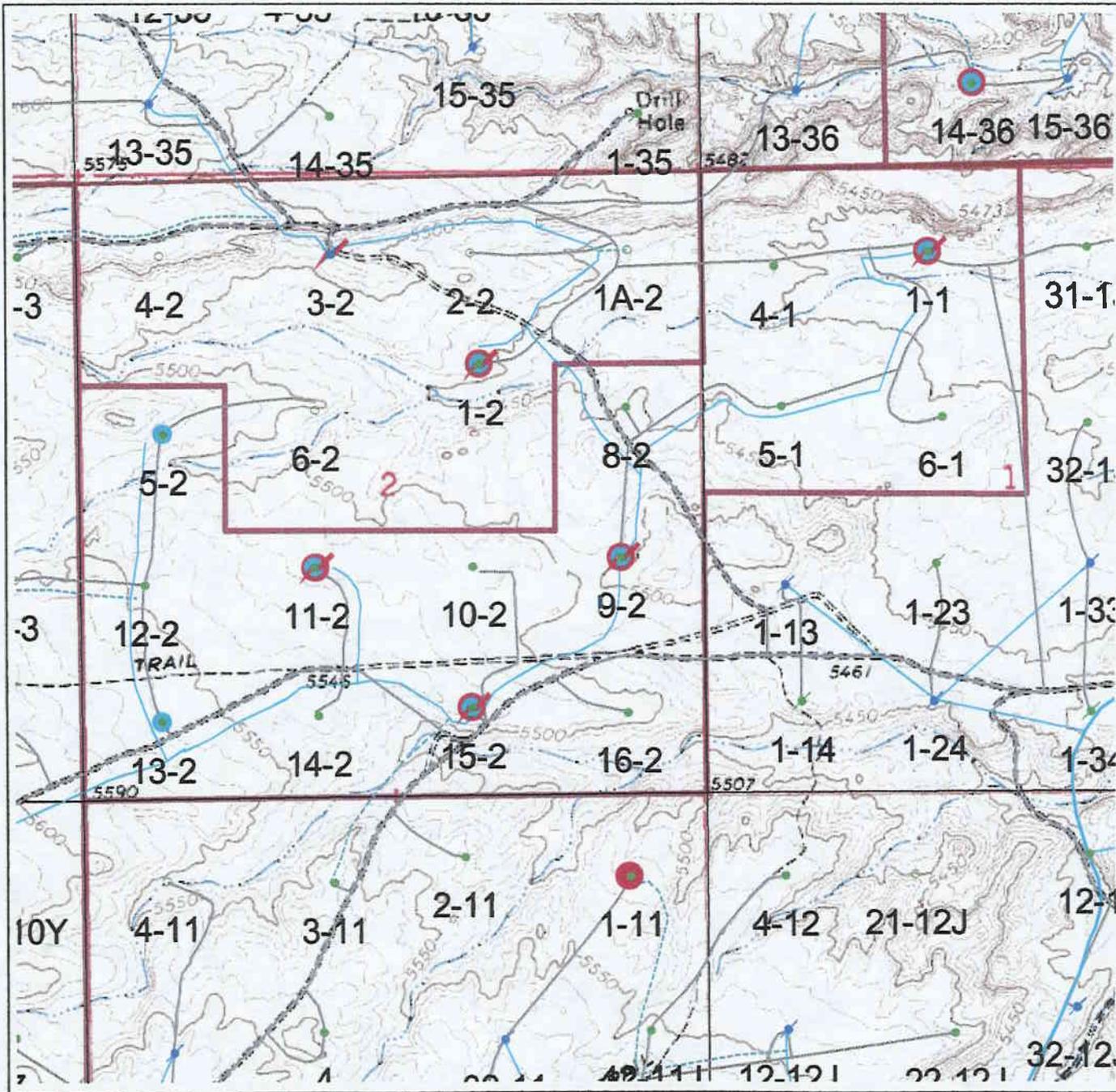

Tri-State
Land Surveying Inc.
 (435) 781-2501
 38 West 100 North Vernal, Utah 84078

Legend	
	Existing Road
	Proposed Access

Monument Butte Unit #4-2-9-16
SEC. 2, T9S, R16E, S.L.B.&M.

SCALE: 1" = 2000'
 DRAWN BY: D.J.
 DATE: 10-03-2001

TOPOGRAPHIC MAP
"B"



- Water Taps
- 2001 Injection Conversion Program
- Pending Waterline ROW
- Approved Waterline ROW
- Approved Water Injection Permit
- Water Injection Permit Pending
- Johnson Water Line
- Water 6 Inch
- Water 4 Inch
- Water 4 Inch - High Pressure
- Water 4 Inch Poly
- Water 2 to 3 Inch
- Proposed Water
- Pump Stations
- Roads (Digitized)
- Paved
- Dirt
- Proposed
- Two Track
- Private
- Participating Area 'A'
- Unit Sections
- Existing Units
- Proposed Units



419 17th Street Suite 704
 Denver, Colorado 80202
 Phone: (303) 495-0102

Water Pipeline Map

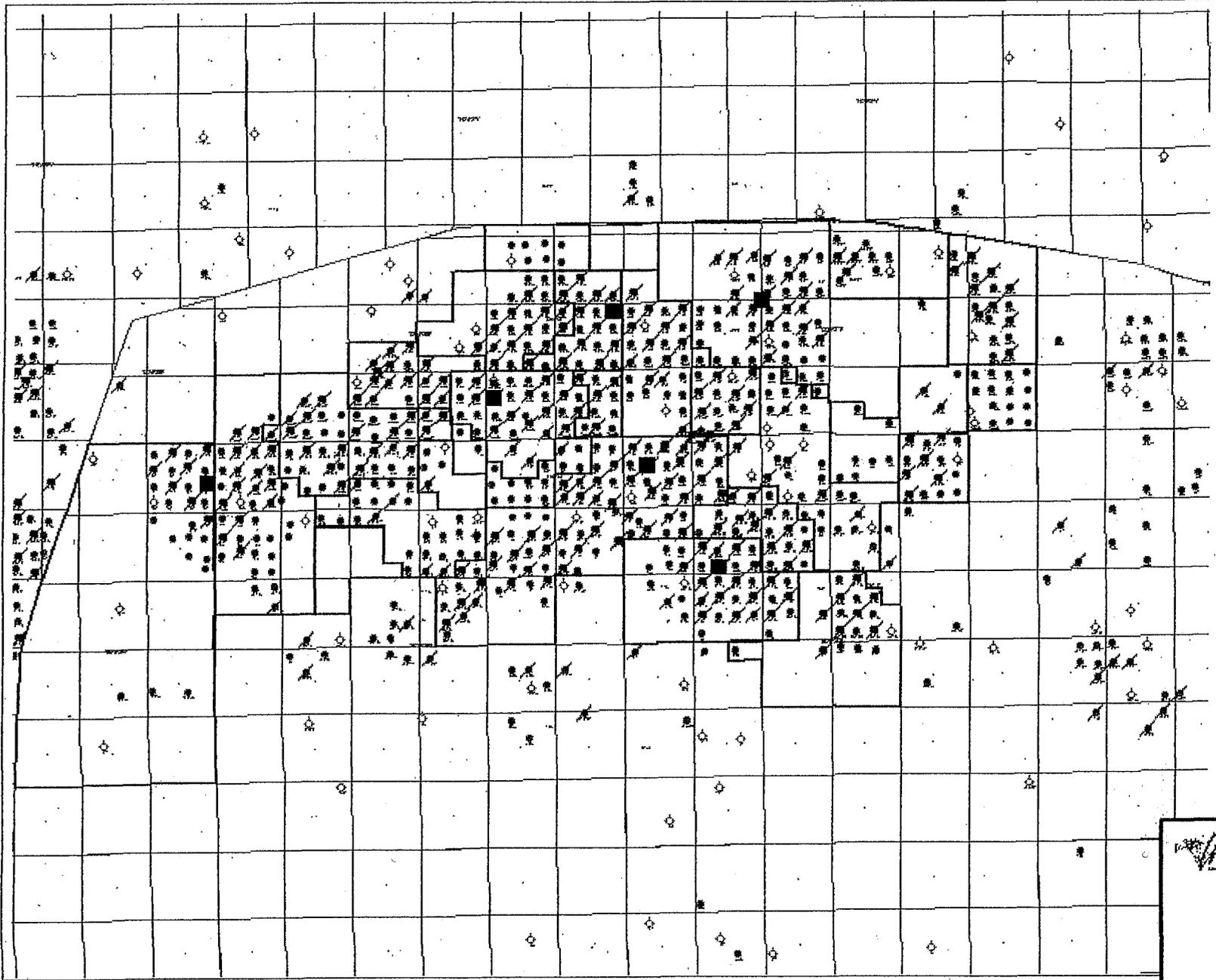
UINTA BASIN, UTAH

Duchesne & Uintah Counties, Utah

Eric Skopis



October 17, 2001



- Heckon Shikre**
Well Categories
- INJ
 - OIL
 - DRY
 - SHUTIN
 - Urals



Exhibit "A"

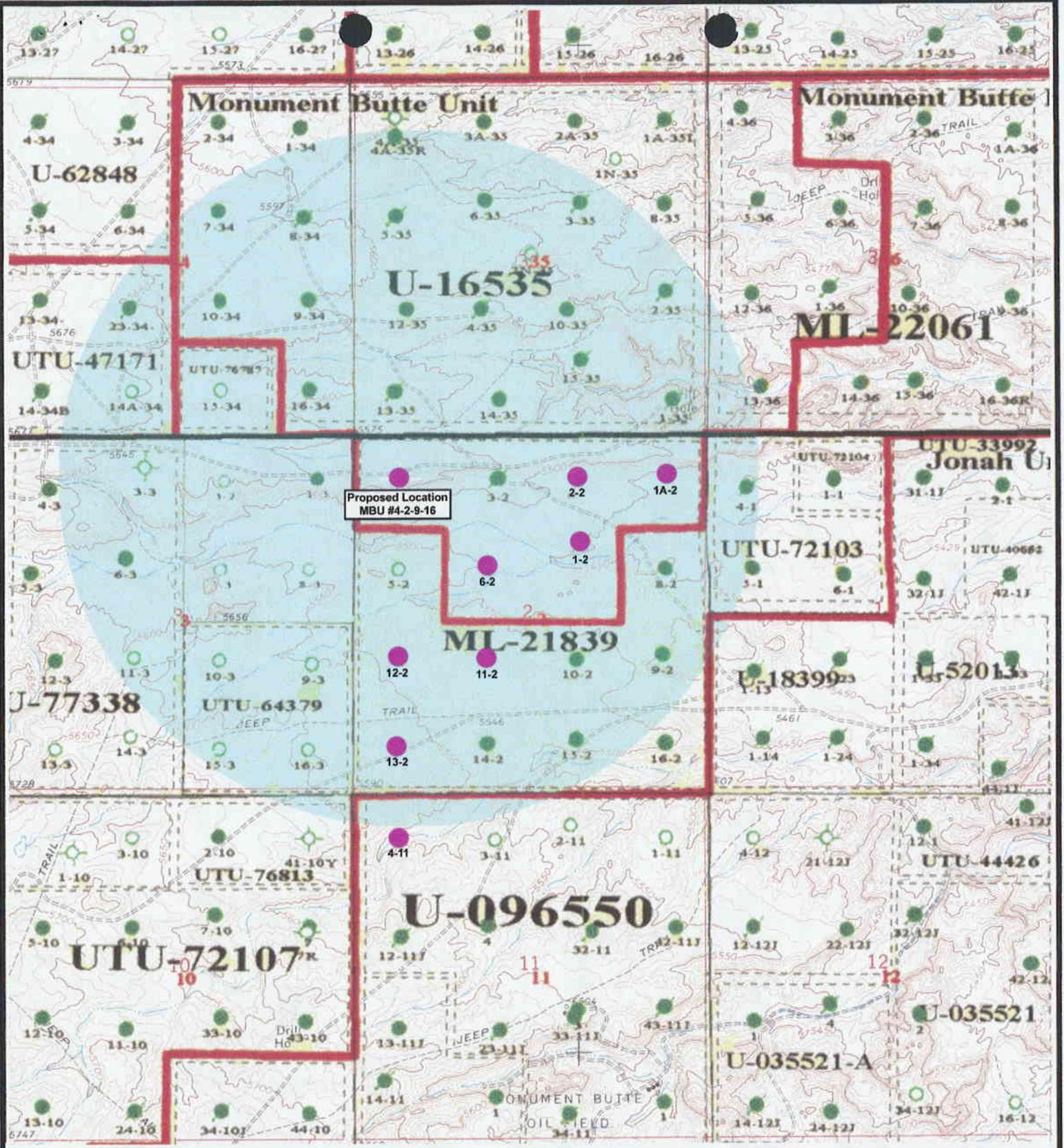
1 1 Miles

Inland
ENERGY SERVICES

410 17th Street, Suite 700
Denver, Colorado 80202
Phone: (303) 833-0122

Uinta Basin
UINTA BASIN, LLC
Buckhorn & Clinch Counties, CO

Scale 10,000 L. J. Cooper



Monument Butte Unit #4-2-9-16
SEC. 2, T9S, R16E, S.L.B.&M



Tri-State
Land Surveying Inc.
(435) 781-2501
38 West 100 North Vernal, Utah 84078

SCALE: 1" = 2000'
DRAWN BY: D.J.
DATE: 10-04-2001

Legend

- Proposed Locations
- One Mile Radius

Exhibit
"B"

RAM TYPE B.O.P.

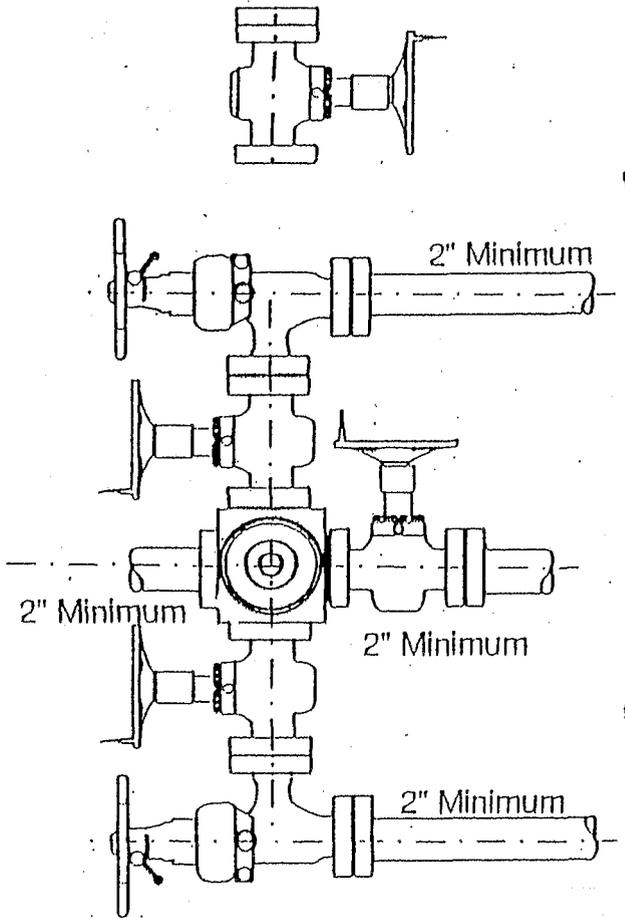
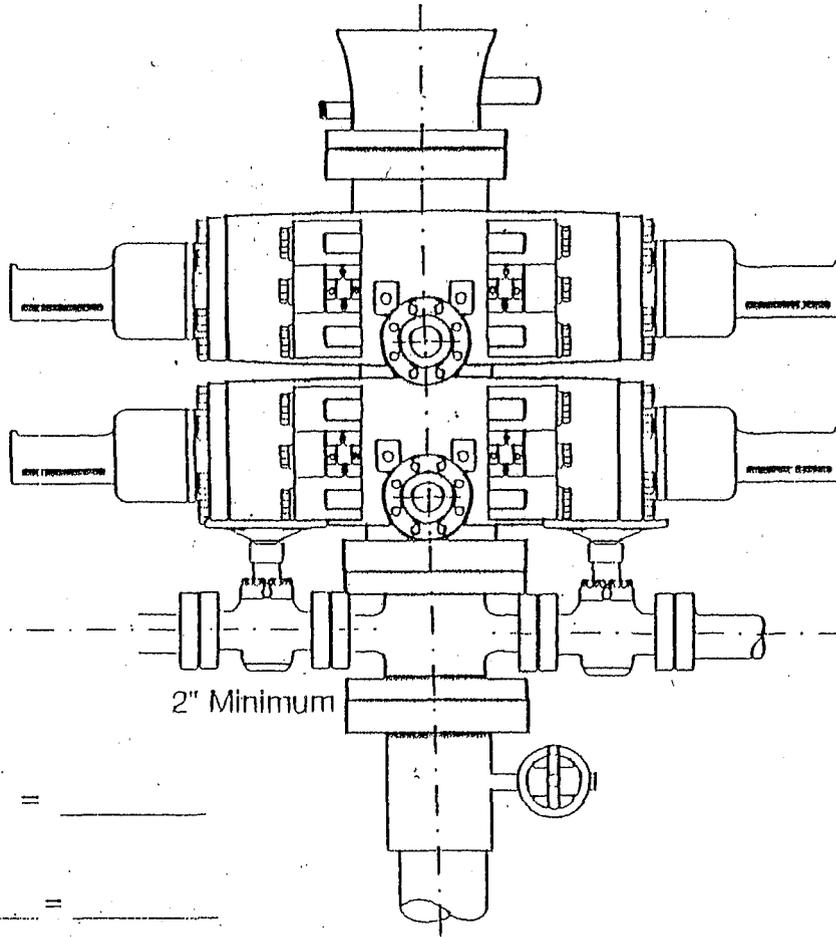
Make:

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EXHIBIT "C"



GAL TO CLOSE

Annular BOP = _____

Ramtype BOP _____

_____ Rams x _____ = _____

= _____ Gal.

_____ x 2 = _____ Total Gal.

Rounding off to the next higher
increment of 10 gal. would require

_____ Gal. (total fluid & nitro volume)

CULTURAL RESOURCE EVALUATION OF VARIOUS LARGE TRACTS IN THE WELLS DRAW TO PARIETTE BENCH LOCALITY IN DUCHESNE & UINTAH COUNTIES, UTAH

Report Prepared for Inland Resources, Inc.

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

Utah State Project No.: UT-98-AF-0164bs

AERC Project 1598 (IPC98-4)

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July 21, 1998

Abstract

A series of intensive cultural resource examinations has been conducted for Inland Resources, Inc. of seven project tracts situated in the Wells Draw to Pariette Bench locality of Duchesne and Uintah Counties, Utah. These parcels include portions of Sections 12 and 7 in the **Ashley Unit** (T. 9 S., R. 15 & 16 E.), portions of Sections 2, 3, 4, 9, and 10 in the **South Wells Draw Unit** (T. 9 S., R. 16 E.), portions of Sections 35 and 36 (T. 8 S., R. 17 E.) and 2 (T. 9 S., R. 17 E.) in the **Odekirk Springs Unit**, and portions of Sections 15, 18, and 22 in the **South Pleasant Valley Unit** (T. 9 S., R. 17 E.). The purpose of this report is to detail the result of these evaluations.

A total of 3,919 acres is incorporated into this report as examined for the presence of cultural resources preparatory to the development of Inland's well pads, access roads, and pipeline corridors in these project tracts. A total of 2,950 acres (75%) within the proposed development tracts is situated on federal lands administered by the Vernal District of the Bureau of Land Management, Diamond Mountain Resource Area, Vernal, Utah. The remaining 969 acres (25%) are situated on Utah State lands administered by the Division of State School Trust Lands.

Field examinations were initially conducted in December 1997 and January 1998 and then again from mid-April through early June 1998. AERC archaeologists that participated on the project include Marcel Corbiel, Donna Daniels, Kris Kunkel, Alan Hutchinson, Stance Hurst, Christy Gobber, Richard Francisca, Tammy Gibson, Scott Edmisten, and Christopher Davies. The field survey program was conducted under the direction of Glade Hadden, and/or F.R. Hauck. This work was done under Utah project UT-98-AF-0164bs, which expires on December 31, 1998.

A total of 28 prehistoric sites (42DC 1149, 1150, 1155-1166, 1171, 1174-1177 and 42UN 2532-2538, 2552, 2566) and four isolated diagnostic artifacts (1598B/x1, 1598K/x2, 1598R/x1 & 1598R/x2) were identified and recorded during this project. Sites 42DC 1155, 1156, 1157, 1160, 1163, 1164, 1165, 1166, 1171, 1176, 1177 and 42UN 2532, 2533, 2534, 2536, and 2566 are considered non-significant cultural resources. Sites 42DC 1149, 1150, 1158, 1159, 1161, 1162, 1174, 1175 and 42UN 2535, 2537, 2538, and 2552 are considered significant cultural resource under criteria established for the documentation of National Register of Historic Places (36CFR60.6).

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 the recommendations provided in the final section of this report.

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GENERAL INFORMATION

Between April 13 and June 9, 1998, a variety of AERC archaeologists including Kris Kunkel, Alan Hutchinson, Stance Hurst, Christy Gobber, Scott Edmisten, Richard Francisco, Patrick Walker, and Christopher G. Davies acting under the direction of Glade Hadden and/or F.R. Hauck, conducted intensive cultural resource evaluations of seven acreage tracts situated between the Wells Draw locality of Duchesne County on the West, and the Pariette Bench locality of Uintah County on the East, in the Uinta Basin region of eastern Utah (see Map 1). Cultural evaluations within these tracts actually began in the winter of 1997-98 as initially reported in Hauck and Hadden 1997.

These seven project tracts are actually associated with Inland Resource's **Ashley, South Wells Draw, Odekirk Springs, and South Pleasant Valley Units**. These tracts include portions of Sections 12 and 7 in the **Ashley Unit** (T. 9 S., R. 15 & 16 E.), portions of Sections 2, 3, 4, 9, and 10 in the **South Wells Draw Unit** (T. 9 S., R. 16 E.), portions of Sections 35 and 36 (T. 8 S., R. 17 E.) and 2 (T. 9 S., R. 17 E.) in the **Odekirk Springs Unit**, and portions of Sections 15, 18, and 22 in the **South Pleasant Valley Unit** (T. 9 S., R. 17 E.).

A total of 3,919 acres is incorporated into this report as examined for the presence of cultural resources preparatory to the development of Inland's well pads, access roads, and pipeline corridors in these project tracts. A total of 2950 acres (75%) within the proposed development tracts is situated on federal lands administered by the Vernal District of the Bureau of Land Management, Diamond Mountain Resource Area, Vernal, Utah. The remaining 969 acres (25%) are situated on Utah State lands administered by the Division of State School Trust Lands.

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 oil/gas development within these various tracts 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.

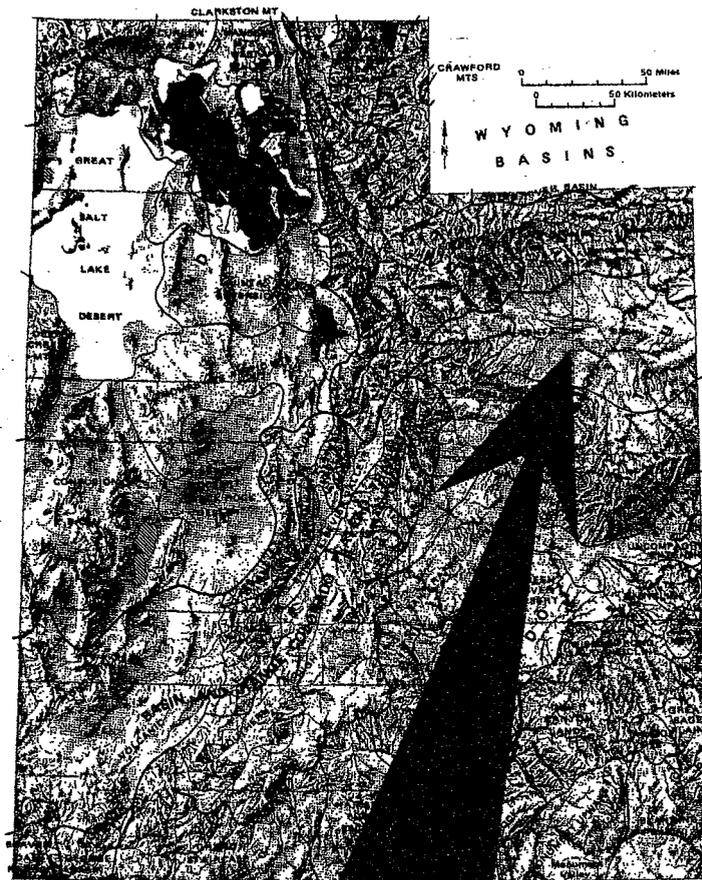
Project Location

The project area extends from the Wells Draw locality of Duchesne County eastward to the Pariette Bench locality of Uintah County, Utah. The seven tracts under investigation are situated on

MAP 1
PROJECT AREA FOR THE
INLAND RESOURCES 1998
DEVELOPMENT PROGRAM



PROJECT: IPC98-4
SCALE: 1: 200,650
DATE: 7/ 20/ 98



UTAH GEOLOGICAL
 MAP
 PHYSIOGRAPHIC

PROJECT AREA

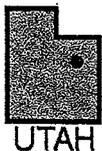
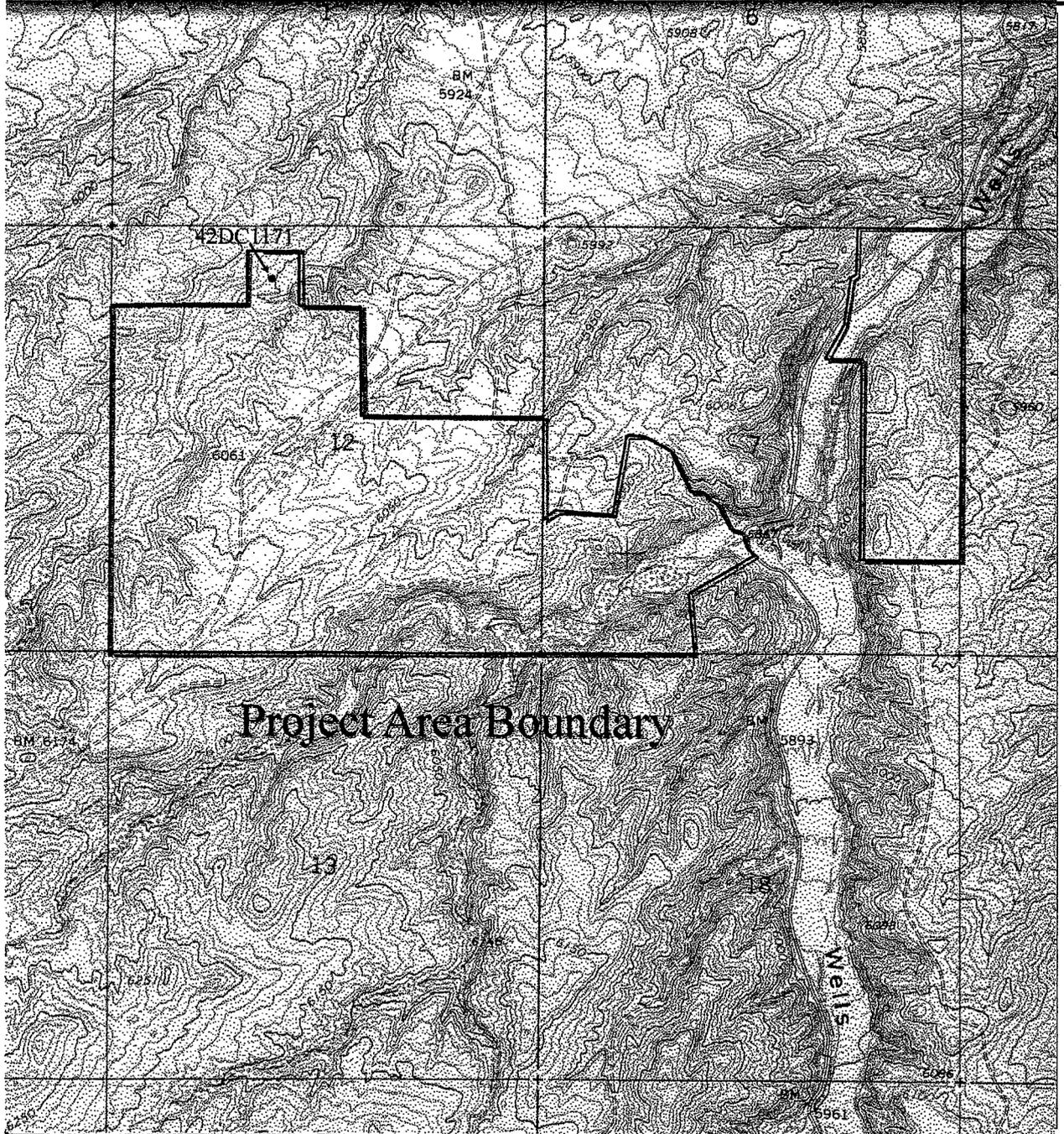
TOWNSHIP: multiple
RANGE: multiple
MERIDIAN: multiple

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

MAP: 2
CULTURAL RESOURCE SURVEY
OF INLAND'S ASHLEY UNIT
IN THE WELLS DRAW LOCALITY
OF DUCHESNE COUNTY, UTAH



PROJECT: IPC98-4
SCALE: 1:24,000
QUAD: Myton SW
DATE: July 8, 1998



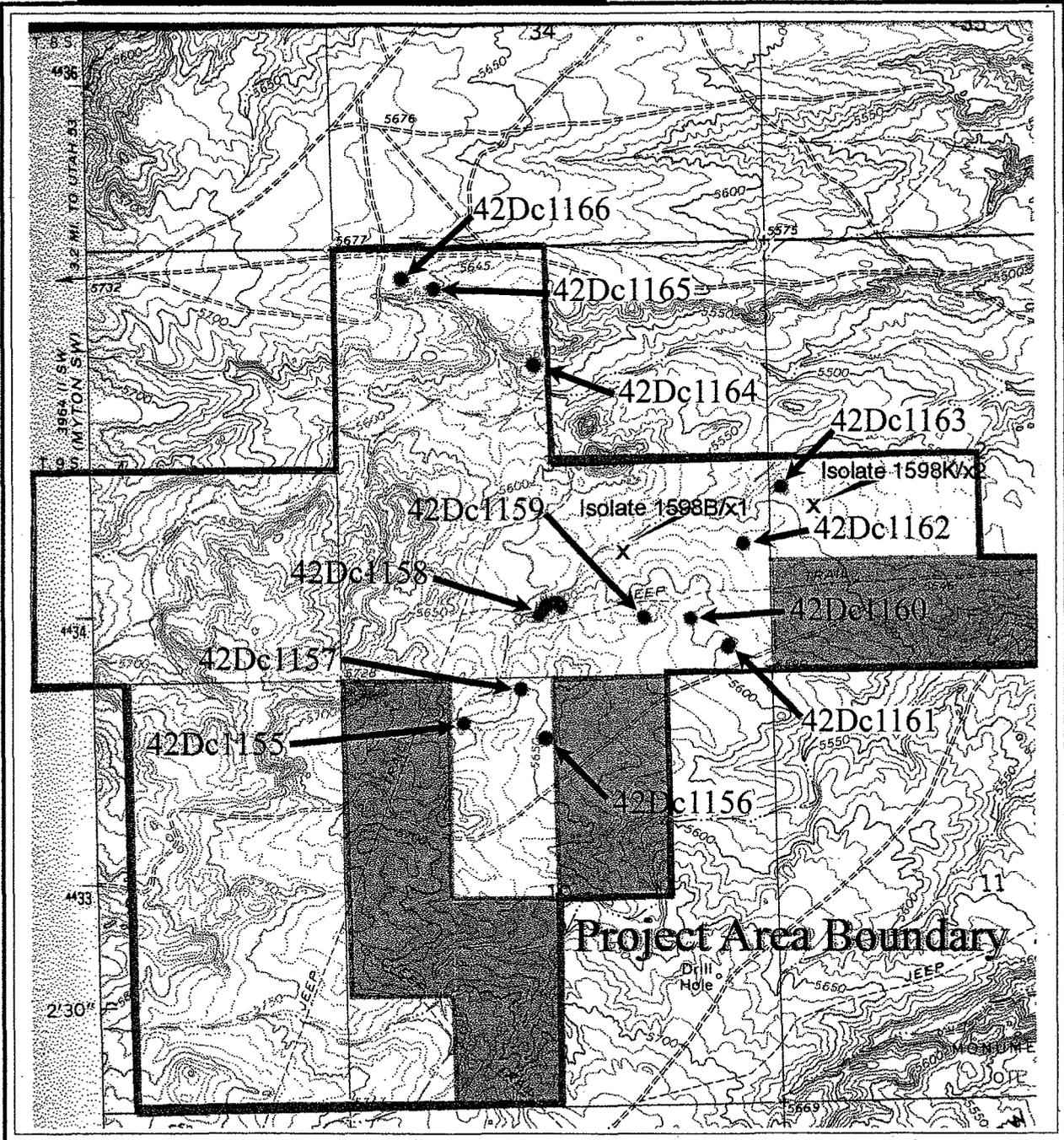
TOWNSHIP: 9 South
RANGE: 15 and 16 East
MERIDIAN: SL B. & M.

LEGEND

-  Area Inventoried
-  CULTURAL SITE

MAP 3
CULTURAL RESOURCE SURVEY
OF INLAND'S SOUTH WELLS DRAW
UNIT IN THE CASTLE PEAK DRAW
LOCALITY OF UINTAH COUNTY, UTAH

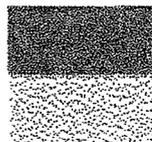
PROJECT: IPC98-4
SCALE: 1:24,000
QUAD: Myton SE
DATE: July 3, 1998



LEGEND



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



Area Reported in
 IPC97-5A & 98-3B
 Reports
 Area Reported
 Pertinent to this
 Report

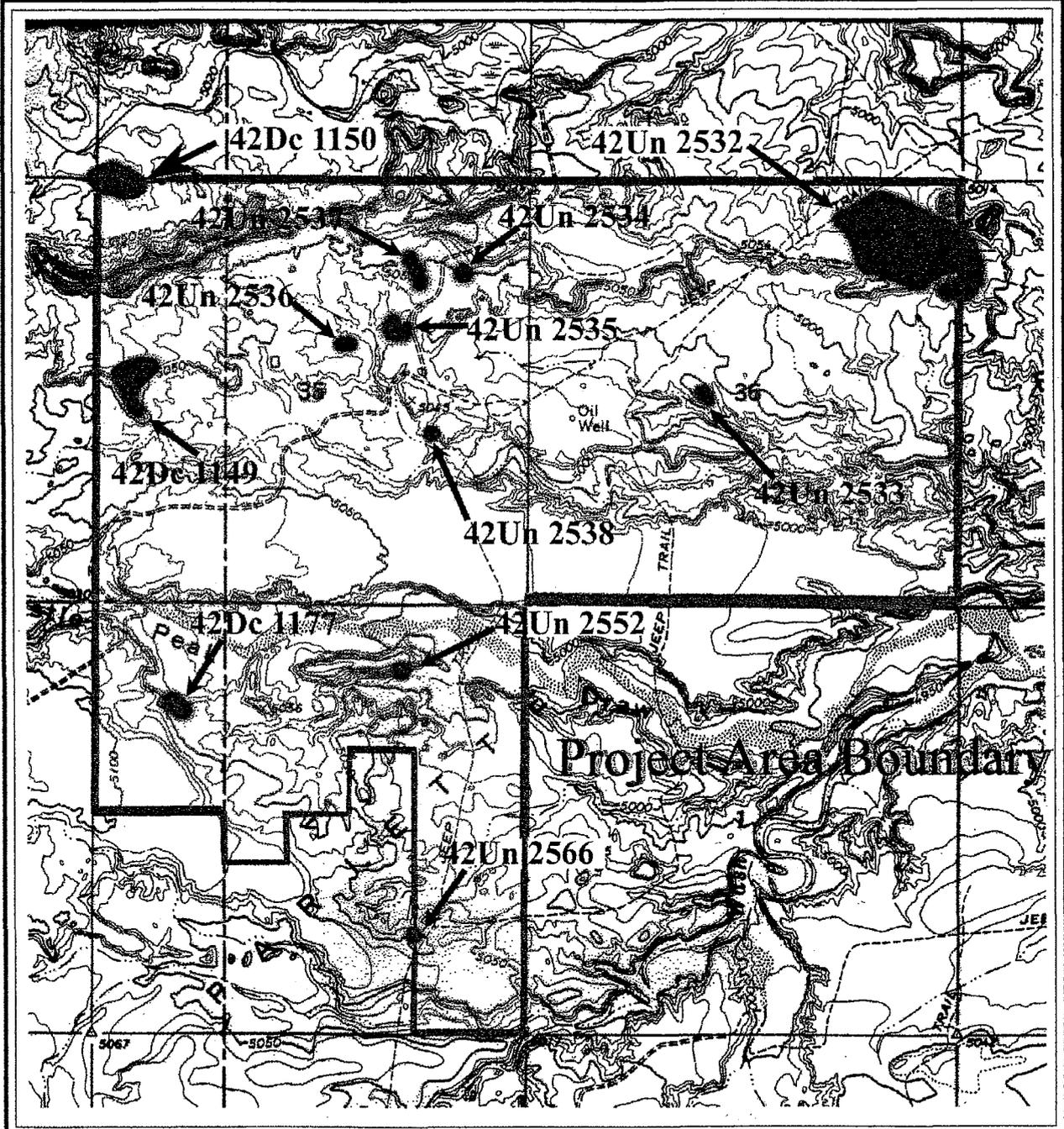
● CULTURAL
 SITE
 X ISOLATED
 ARTIFACT

SURVEYED TWICE?
 DIFFERENT LOOK TO ORIGINAL DIGITIZING

MAP 4: CULTURAL RESOURCE SURVEY OF INLAND'S ODEKIRK SPRINGS UNIT IN THE CASTLE PEAK DRAW LOCALITY OF DUCHESNE & UTAH COUNTIES, UTAH



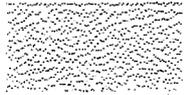
PROJECT: IPC98-4
SCALE: 1:24,000
QUAD: Pariette Draw SW
DATE: July 3, 1998



LEGEND



TOWNSHIP: 8 and 9 South
RANGE: 17 East
MERIDIAN: SL B. & M.



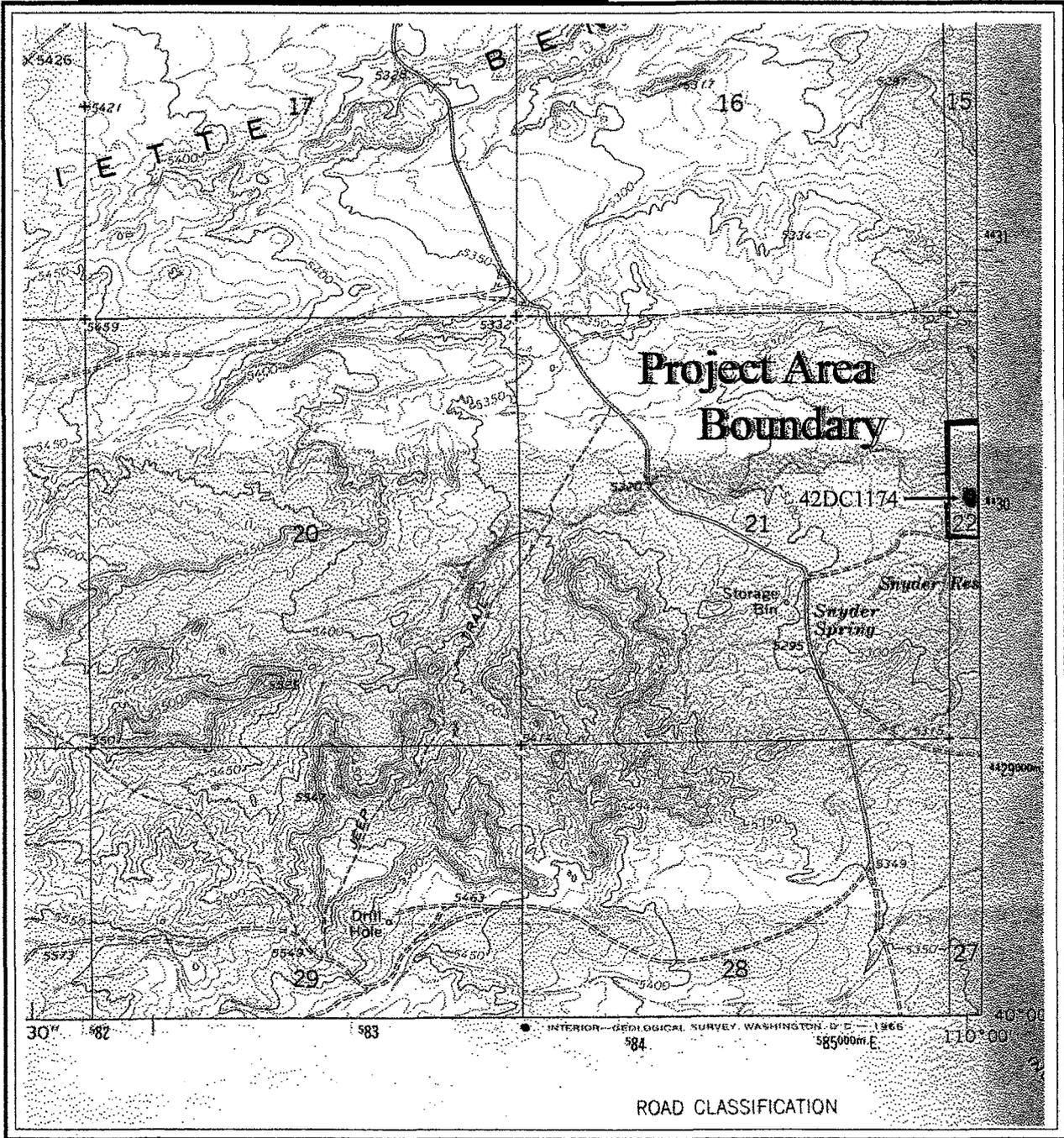
Area Inventoried

● CULTURAL SITE

**MAP 5 CULTURAL RESOURCE
SURVEY OF INLAND'S SOUTH
PLEASANT VALLEY UNIT IN THE
PARIETTE BENCH LOCALITY
OF DUCHESNE COUNTY, UTAH**



PROJECT: IPC98-4
SCALE: 1:24,000
QUAD: Myton, SE
DATE: July 9, 1998



ROAD CLASSIFICATION

LEGEND



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



**Area
Inventoried**

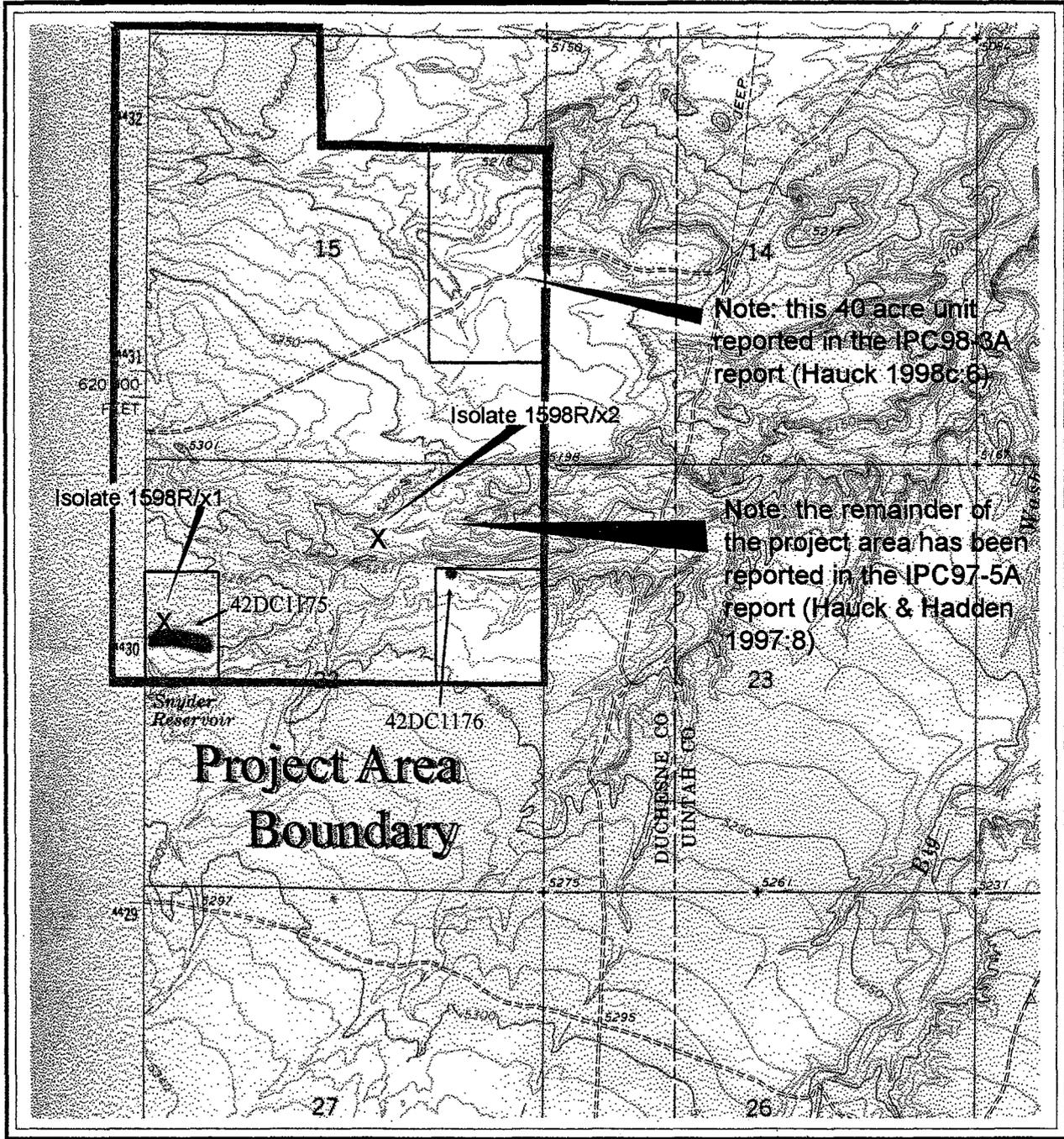


**CULTURAL
SITE**

MAP: 6 CULTURAL RESOURCE SURVEY OF INLAND'S SOUTH PLEASANT VALLEY UNIT IN THE PARIETTE BENCH LOCALITY OF DUCHESNE COUNTY, UTAH



PROJECT: IPC98-4
SCALE: 1:24,000
QUAD: Pariette Draw SW
DATE: July 9, 1998



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

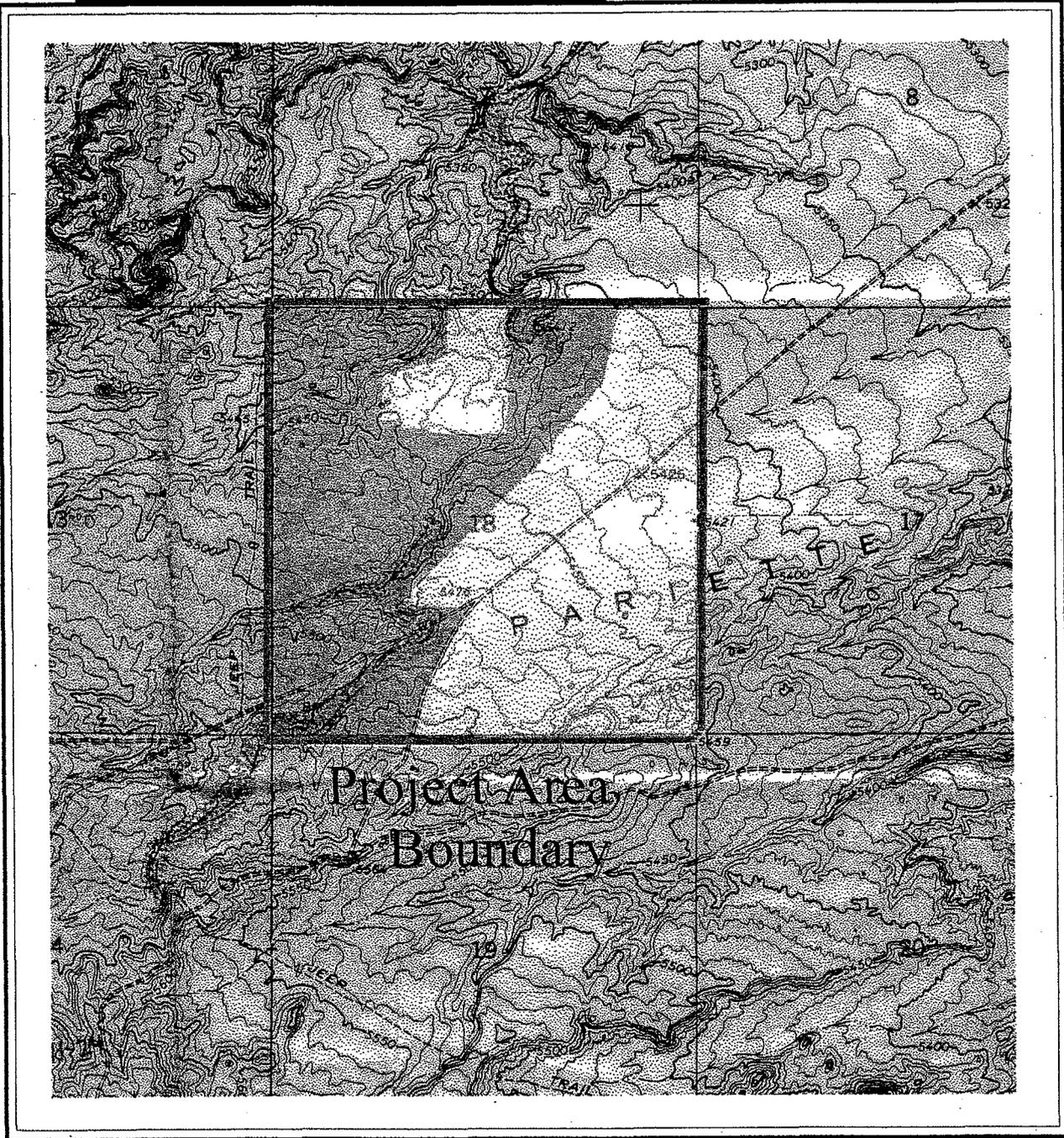
LEGEND

-  Area Examined Pertinent to this Report
-  CULTURAL SITE
-  ISOLATED ARTIFACT

MAP 7
CULTURAL RESOURCE SURVEY
OF INLAND BULK ACREAGE IN THE
SOUTH PLEASANT VALLEY LOCALITY
OF DUCHESNE COUNTY, UTAH



PROJECT: IPC98-4
SCALE: 1:24,000
QUAD: Myton SE, Utah
DATE: July 9, 1998



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

LEGEND

-  Bulk Acreage Survey Evaluated in 1997 as Reported in Hauck & Hadden 1997:5 (IPC97-5A, Map 4)
-  Bulk Acreage Survey Completed in Spring 1998 for this Report

the Myton SE, Myton SW, and Pariette Draw SW 7.5 minute USGS quads as shown on Map 2 through Map 7. The seven inventoried tracts are located in the following Lease Units:

Ashley Unit (see Map 2)

Evaluated parcels in this unit, as reported in this current document, total 689 acres and include the southern half and portions of the northwest and northeast quarters of Section 12, Township 9 South, Range 15 East (Salt Lake B. & M.). Portions of the southwest quarter, the northeast quarter, and the southeast quarter of Section 7, Township 9 South, Range 16 East are also included.

This acreage includes the following locations: 3-12, 5-12, 6-12, 9-12, 10-12, 11-12, 13-12, 14-12, 15-12, 16-12 (all in Section 12), and 1-7, 8-7, 9-7, 11-7, 13-7, and portions of 14-7 (all in Section 7).

South Wells Draw Unit (see Map 3)

Evaluated portions of this unit, as reported in this current document, total 1,240 acres and include the northern half of the southwest quarter of Section 2, all of Section 3 except for the northeast quarter, the southeast quarter and the eastern half of the southwest quarter of Section 4, the eastern half of Section 9, and the eastern half of the northwest quarter and the southwest quarter of the southwest quarter of Section 10, Township 9 South, range 16 East.

This acreage includes the following locations: 11-2 and 12-2 (in Section 2), 3-3, 4-3, 5-3, 6-3, 9-3, 10-3, 11-3, 12-3, 13-3, 14-3, 15-3, and 16-3 (in Section 3), 9-4, 10-4, 11-4, 12-4, 13-4, 14-4, 15-4, and 16-4 (in Section 4), 1-9, 2-9, 7-9, 8-9, 9-9, 10-9, 15-9, 16-9 (in Section 9), and 3-10, 6-10, and 13-10 (in Section 10).

Odekirk Springs Unit (see Map 4)

Evaluated portions of this unit, as reported in this current document, total 1,529 acres and include Sections 35 and 36 of Township 8 South, Range 17 East. In addition, portions of the northwest, northeast, and southeast quarters of Section 2, Township 9 South, Range 17 East were also evaluated.

This acreage includes the following locations: 1-35 through 16-35 in Section 35, 1-36 through 16-36 in Section 36, and previously unevaluated acreage associated with units 1-2, 2-2, 3-2, 4-2, 5-2, 6-2, 7-2 8-2, 9-2, and 16-2 all in Section 2. 9-17

South Pleasant Valley Unit (see Maps 5, 6, and 7)

Evaluated portions of this unit total 461 acres and include the southeast quarter of the northeast quarter and the northeast quarter of the southeast quarter of Section 15 (also noted in

Hauck 1998c), portions of the northeast, northwest and southwest quarters of Section 18, and, in Section 22, the southwest quarter of the northwest quarter and the southeast quarter of the northeast quarter.

This acreage includes the following locations: 8-15 and 9-15 in Section 15 (previously reported in Hauck 1998c), units 2-18, 4-18, 5-18, 6-18, and portions of 7-18, 11-18, 12-18, 13-18, and portions of 14-18 in Section 18, and 5-22, 8-22 in Section 22.

Environmental Description

The various project tracts associated with this report are within the 5200 to 6100 foot elevation zone above sea level. Open rangeland terrain and eroded Eocene lake bed 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.*), Sulphur flower 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 Quaternary age sand and gravel deposits and fluvial lake deposits which correlate with the Uintah Formation of Tertiary age throughout the remainder of the tracts being considered in this report.

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. Searches were also initiated during the spring of 1998 in order to check various parcels added to the evaluation by Inland Resources. 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 (various), 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 Early and Middle Plains Archaic Stage with occasional indications of Paleoindian activity based on the recovery of both Llano and Plano style projectile points as isolated artifacts and from archaeological sites. 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 for a site/acre ratio ranging between 1/80 and 1/53 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 (possibly as high as the site/acre ratio of 1/25), especially in areas near water courses and seep sources.

FIELD EVALUATIONS

Methodology

Intensive evaluations consisted of the archaeologists walking a series of 10 to 20 meter-wide transects within the various tracts as defined above for this project area. Thus, 3,919 acres were inventoried relative to this present project.

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.

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.

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

A total of 28 prehistoric archeological sites and four isolated artifacts was recorded during the archaeological evaluation of the various tracts in this project area. These sites consist of 42DC 1149, 1150, 1155-1166, 1171, 1174-1177 and 42UN 2532-2538, 2552, and 2566. A brief description of each site, the site maps, cultural significance determinations, and mitigation recommendations are provided in this portion of the report. A discussion of the four isolated diagnostic artifacts (1598B/x1, 1598K/x2, 1598R/x1 & 1598R/x2) follows the site discussion.

Site 42DC 1149 (see Maps 4 and 8)

This site is a large, diffuse scatter of lithic debitage, cores and tools on an elevated bench and ridge complex associated with stabilized aeolian deposits. The site occupation area occurs in and among a large sandstone outcrop or monolith at the highest/westernmost edge of the scatter area. Fire cracked rock concentrations, tools and shatter predominate at the occupation area, while primary flakes, cores and shatter occur at low rates across the remainder of the site.

Nat. Register Status: Significant

Justification: Site contains depth potential and context integrity. This site meets the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance during any surface development related to Units 5-35 and 12-35.

Site 42DC 1150 (see Maps 4 and 9)

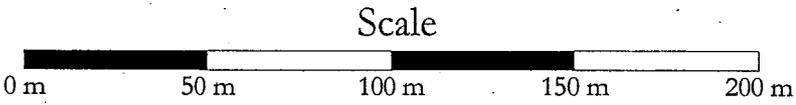
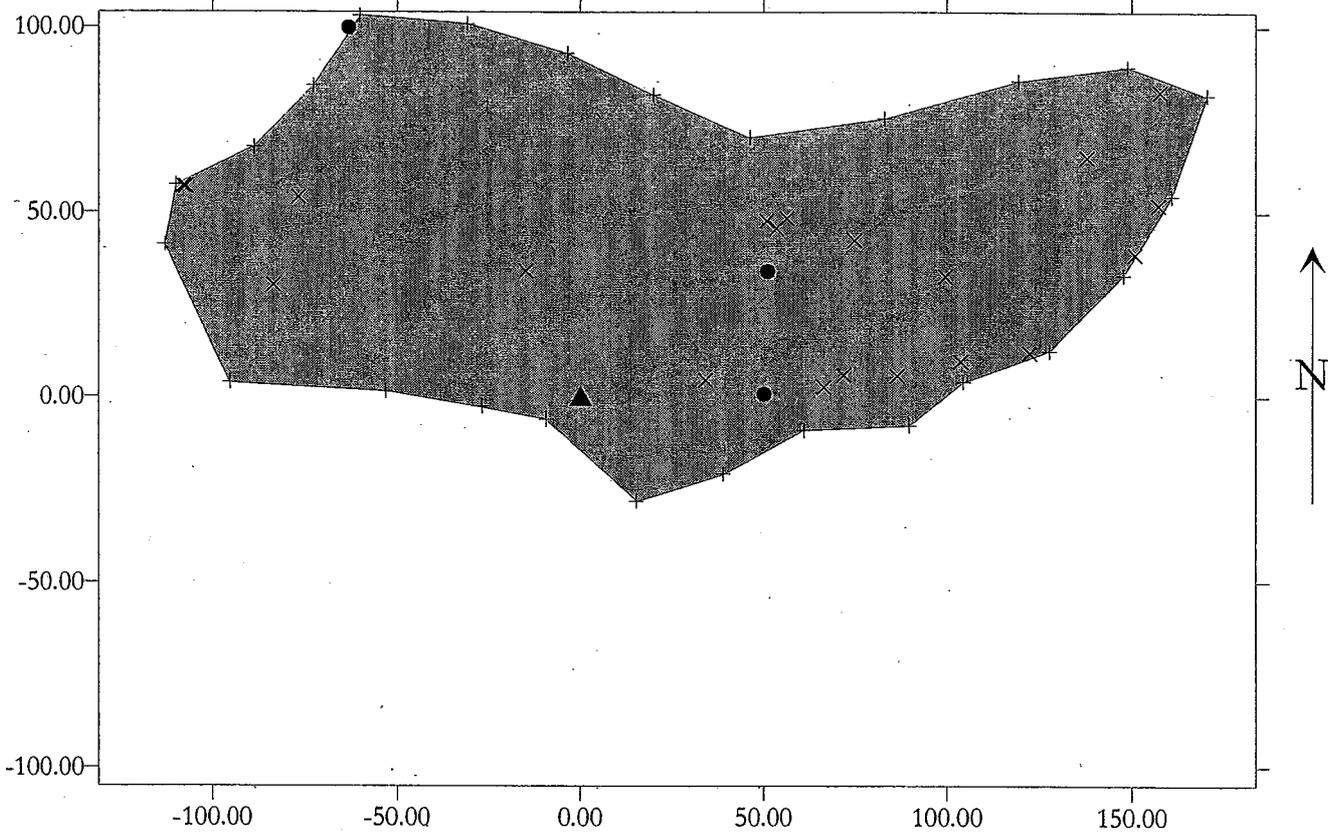
This site consists of a very large dispersed scatter of lithic debitage in all stages of reduction and tool manufacture, tools and hearth remains along the top and sides of a large dune. Artifacts are eroding from the dune field and are exposed in blowouts and along the dune.

Nat. Register Status: Significant

Justification: Site contains depth potential and context integrity. This site meets the standards for significance under criterion d established in 36 FR 60.6.

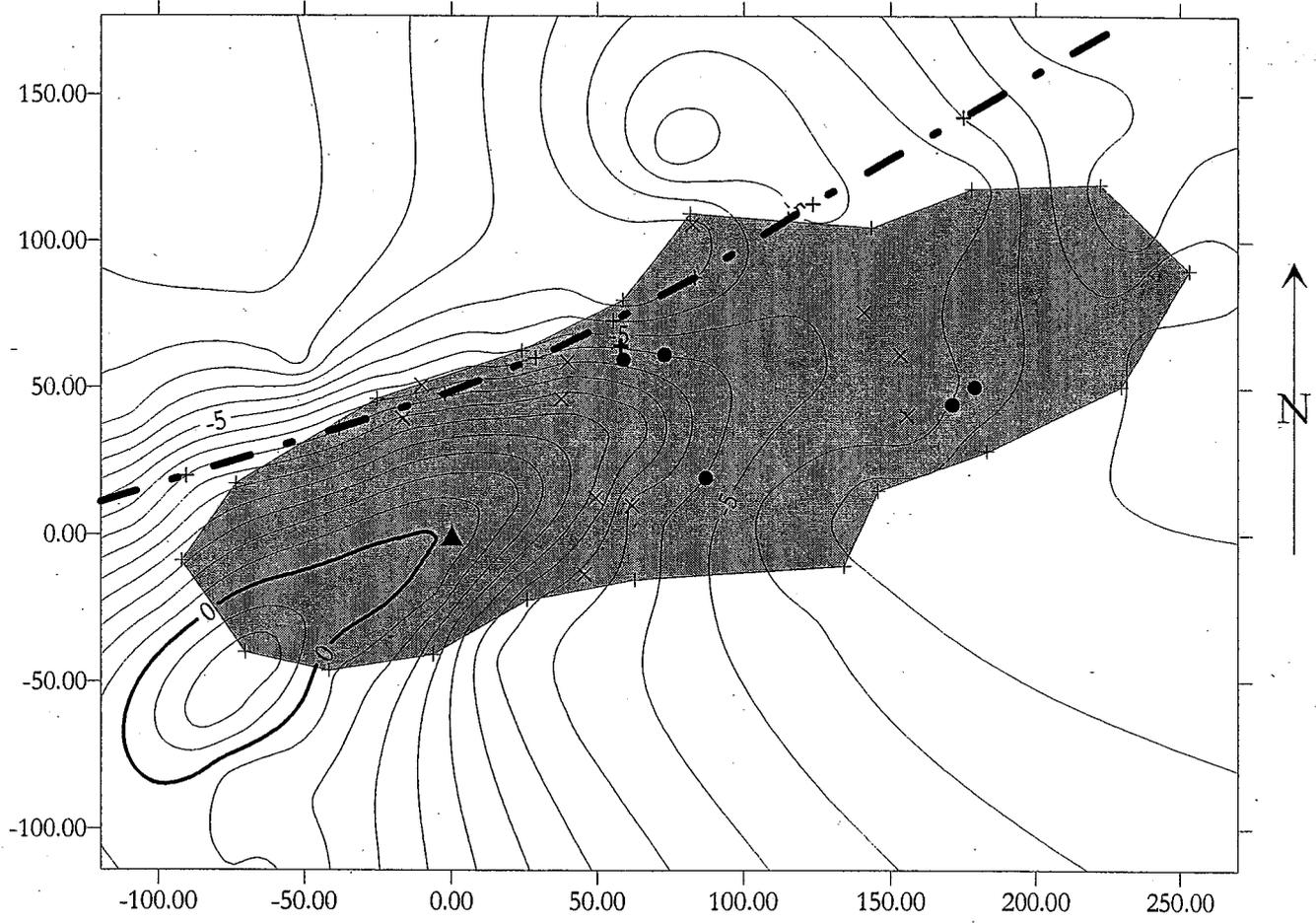
Recommendation: Avoidance during any surface development related to Unit 4-35.

MAP 8: SITE 42DC 1149

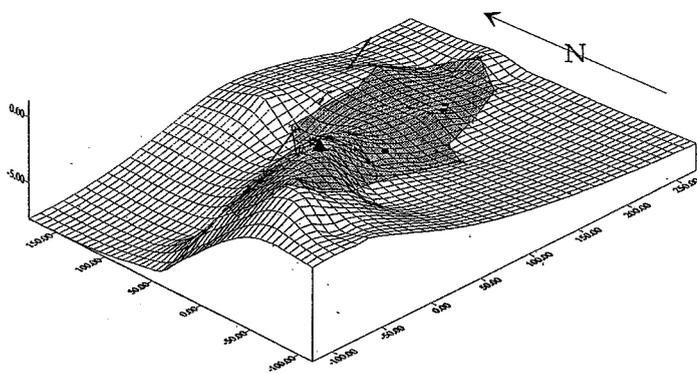
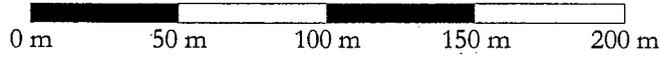


- ### Legend
- ▲ Primary Datum
 - × Artifact Location
 - Hearth
 - Extent of Site

MAP 9: SITE 42DC 1150



Scale



Legend

- ▲ Primary Datum
- × Artifact Location
- Hearth
- + Section Corner
- - - Pipeline
- Extent of Site

Site 42DC 1155 (see Maps 3 and 10)

Site consists of a scatter of Mesa Verde corrugated grayware that was manufactured during the late Pueblo-II, early Pueblo-III occupation in the Southwest cultural area. The artifact evidently represents a trade item brought into the Uinta Basin. Similar artifacts have been previously recorded for this region and the adjacent White River region of northwestern Colorado (Hauck 1991). The site was located within sandstone bedrock exposures.

Nat. Register Status: Not Significant

Justification: Site lacks depth potential and context integrity. This site does not meet the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance.

Site 42DC 1156 (see Maps 3 and 10)

Site consists of dispersed lithic scatter of about five fragments of debitage and a Paleoindian point midsection (see Figure 1A) that may be a portion of an Eden point. This site is located on a flat surface southeast of an isolated low knoll. The artifacts are all localized Parachute Creek chert.

Nat. Register Status: Not Significant

Justification: Site lacks depth potential and context integrity. This site does not meet the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance.

Site 42DC 1157 (see Maps 3 and 11)

Site consists of scoured rock shelter-ledge complex with an associated lithic scatter of 5+ fragments of Parachute Creek chert debitage. Also observed on the site was a single, simple biface or chopper exhibiting alternate flaking. Similar tools have been observed in Paleoindian through Middle Archaic large game butchering contexts.

Nat. Register Status: Not Significant

Justification: Site lacks depth potential and context integrity. This site does not meet the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance.

Site 42DC 1158 (see Maps 3 and 12)

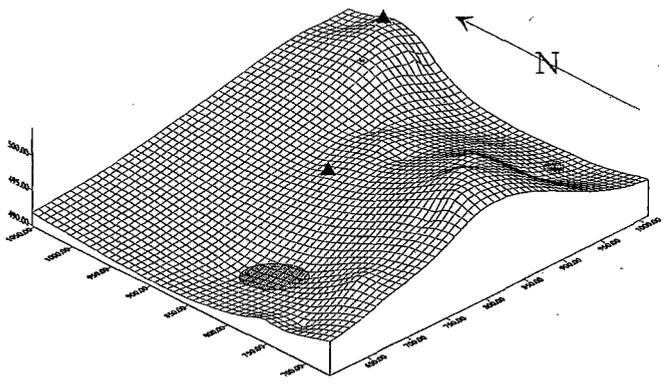
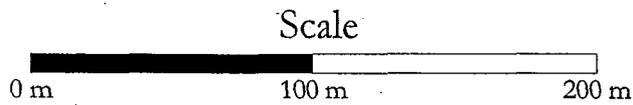
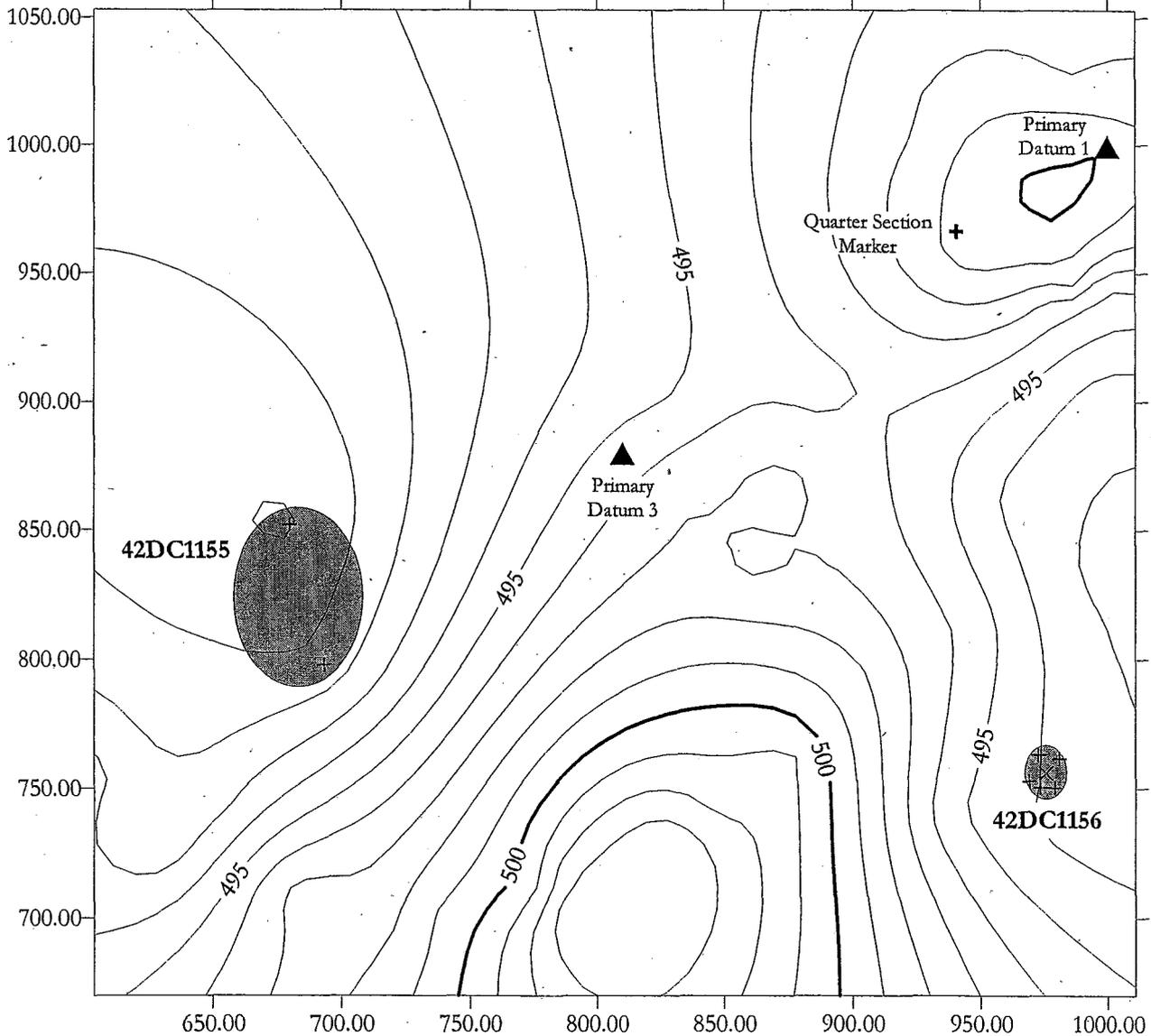
Site consists of series of scoured rock shelters, an associated lithic scatter, one complete projectile point and a point midsection, biface tools and hearths. Parachute Creek chert tools and debitage predominate on the site. Features include three hearths and rock shelters. A complete projectile point of Plano through Early Archaic manufacture and a Paleoindian point midsection were collected (see Figures 1B and 1C).

Nat. Register Status: Significant

Justification: Site contains depth potential and context integrity. This site meets the standards for significance under criterion d established in 36 FR 60.6.

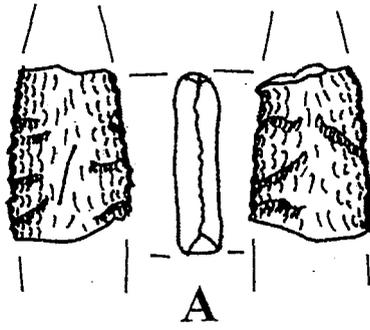
Recommendation: Avoidance during any surface development related to Units 14-3 and 15-3.

MAP 10: SITES 42DC 1155 & 42DC 1156

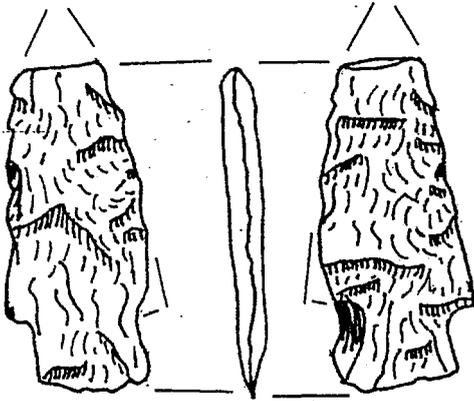


Legend

- ▲ Datum Location
- × Artifact Location
- ⊕ Quarter Section Marker
- Extent of Site

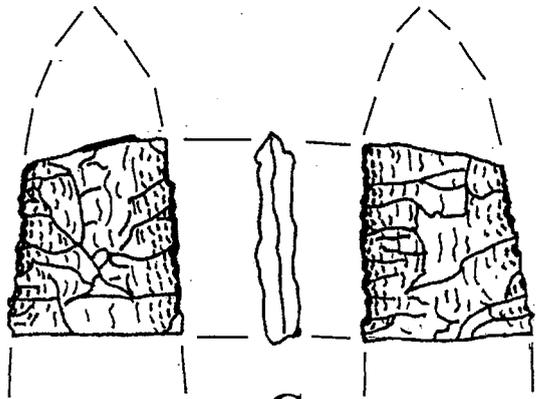


42DC 1156
(FS-1022)



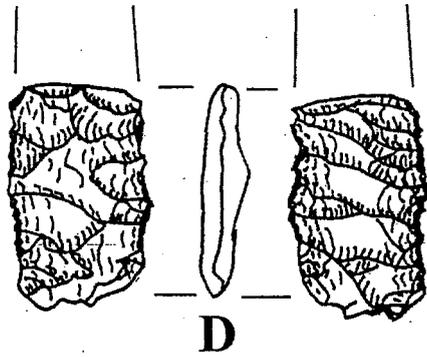
B
FS-1012

42DC 1158



C
FS-1007

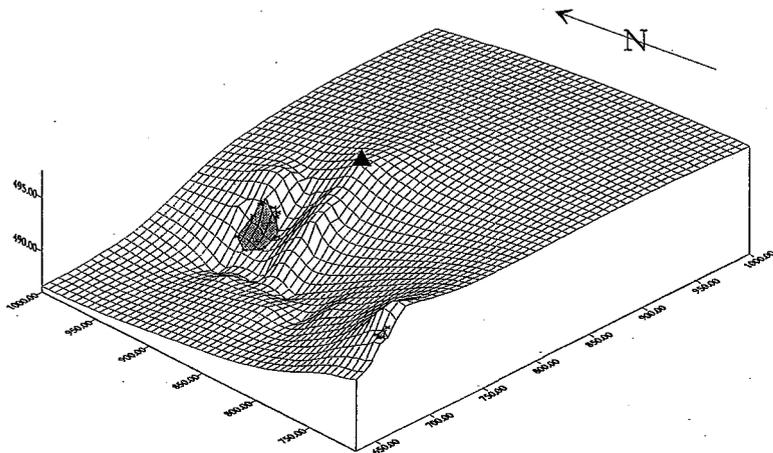
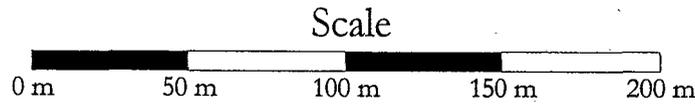
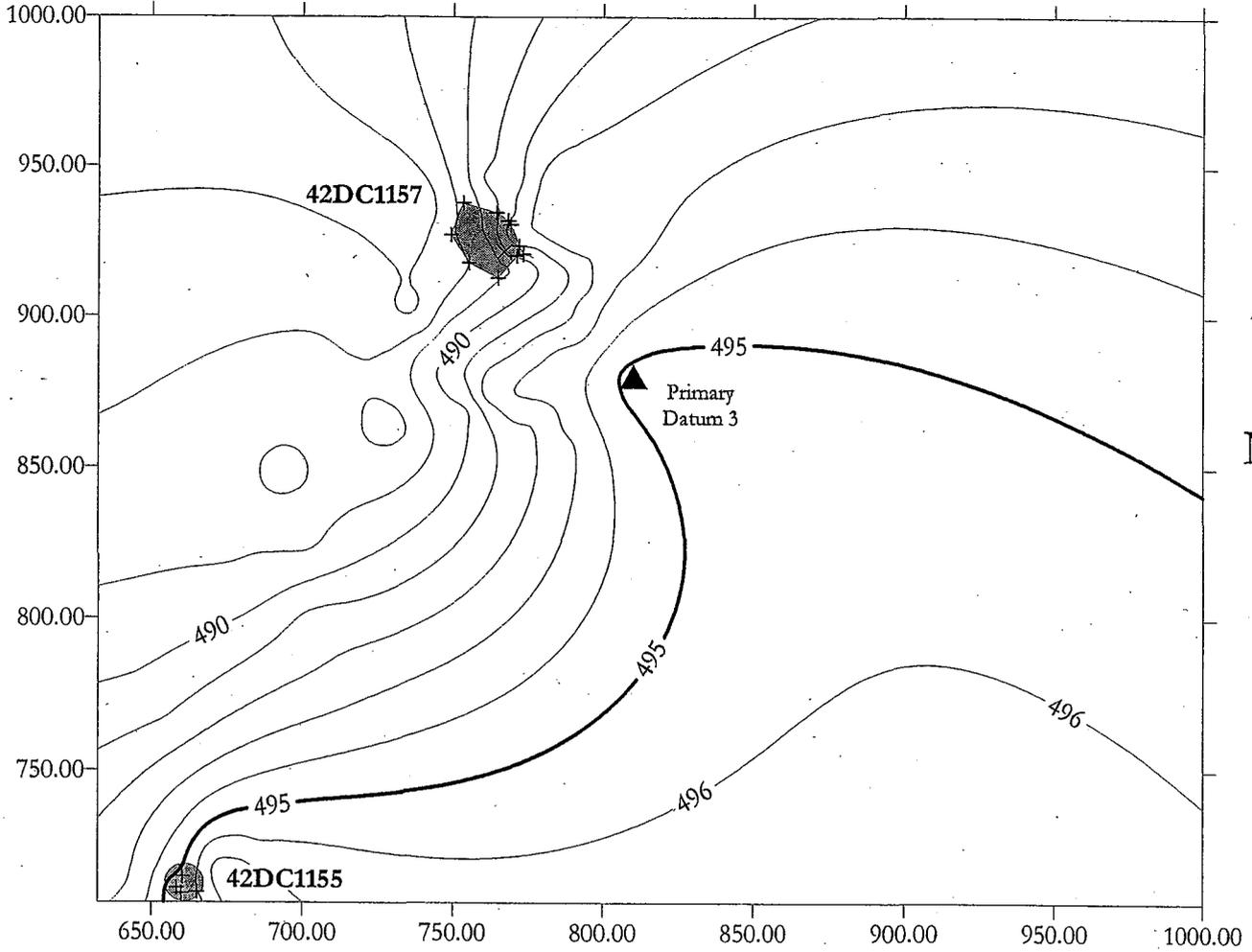
42DC1159
FS-1011



D

FIGURE 1

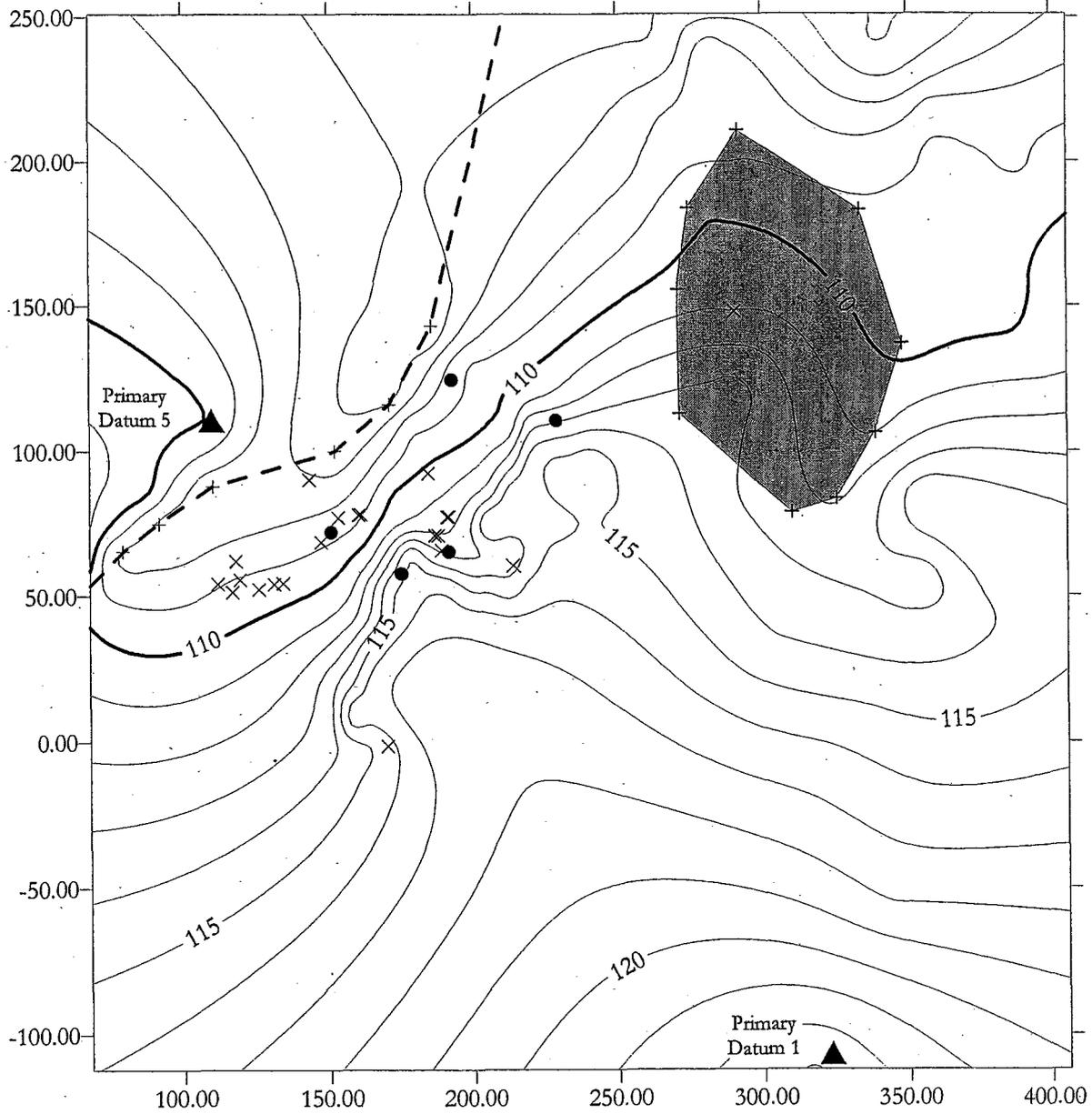
MAP 11: SITE 42DC 1157



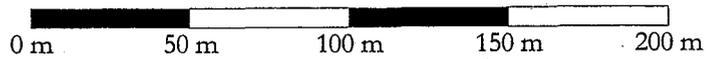
Legend

- ▲ Datum Location
- × Artifact Location
- Extent of Site

MAP 12: SITE 42DC 1158

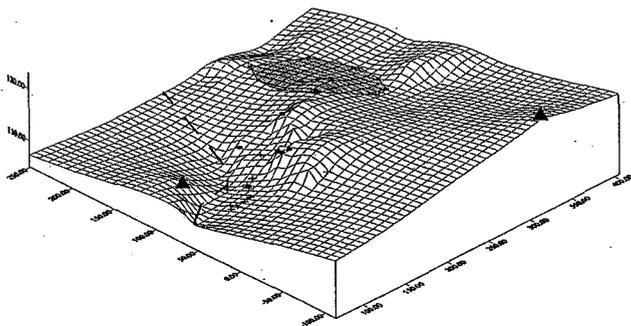


Scale



Legend

- ▲ Datum Location
- × Artifact Location
- Feature
- Drainage Channel
- Artifact Concentration



Site 42DC 1159 (see Maps 3 and 13)

Site consists of dispersed lithic scatter located on the western slope drainage area of an isolated low knoll. Artifacts include Parachute Creek chert debitage, two bifaces and a Paleoindian (Goshen style) projectile point base (see Figure 1D).

Nat. Register Status: Significant

Justification: Site contains depth potential and context integrity. This site meets the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance during any surface development related to Unit 15-3.

Site 42DC 1160 (see Maps 3 and 14)

Site consists of dispersed lithic scatter located in a shallow drainage area southeast of an isolated low knoll. Artifacts include Parachute Creek chert debitage, a unifacially retouched scraper and a core/chopper and projectile point (see Figure 2A) that was located some outside the main lithic scatter. The dart point appears to be an Elko Eared variety which correlates with the Early Archaic occupational phase of the Uinta Basin.

Nat. Register Status: Not Significant

Justification: Site lacks depth potential and context integrity. This site does not meet the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance.

Site 42DC 1161 (see Maps 3 and 15)

Site consists of an open occupation and lithic scatter located on a low ridge. Artifacts include a Paleoindian 'Alberta' point (see Figure 2B) and a number of bifaces. The dominant lithic material type is the local float consisting of Parachute Creek chert.

Nat. Register Status: Significant

Justification: Site contains depth potential and context integrity. This site meets the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance during any surface development related to Unit 16-3.

Site 42DC 1162 (see Maps 3 and 16)

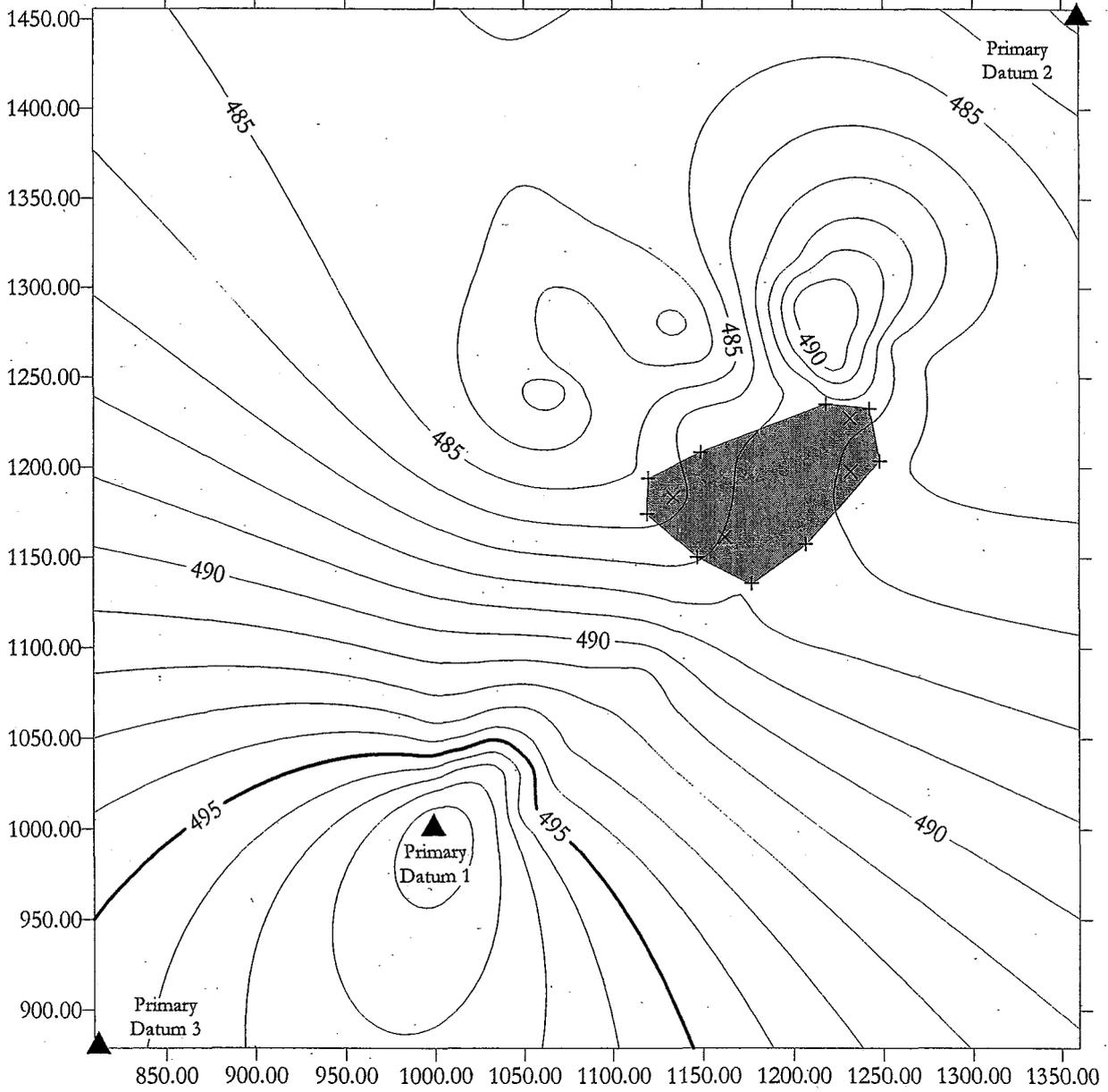
Site consists of an open occupation and lithic scatter located on a low ridge and into an adjacent plain to the south. Artifacts include a quartzite hammerstone, Parachute Creek chert cores, two bifaces and lithic debitage in all stages of lithic tool manufacture. The dominant lithic material type is Parachute Creek chert debitage.

Nat. Register Status: Significant

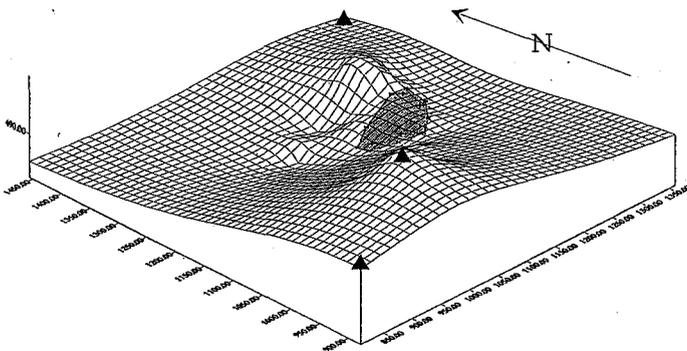
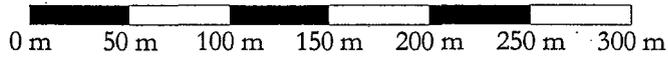
Justification: Site contains depth potential and context integrity. This site meets the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance during any surface development related to Unit 9-3.

MAP 13: SITE 42DC 1159



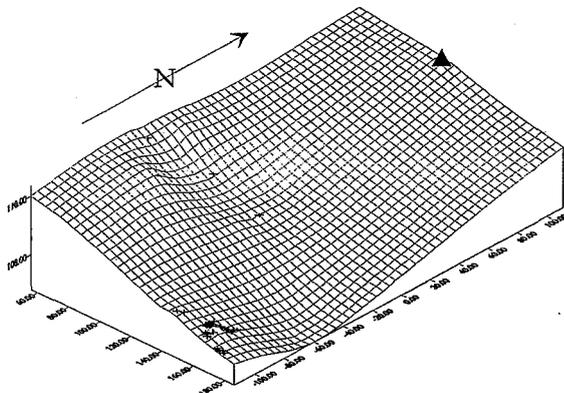
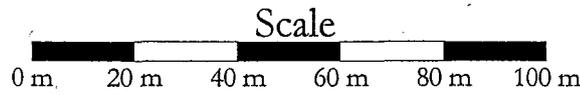
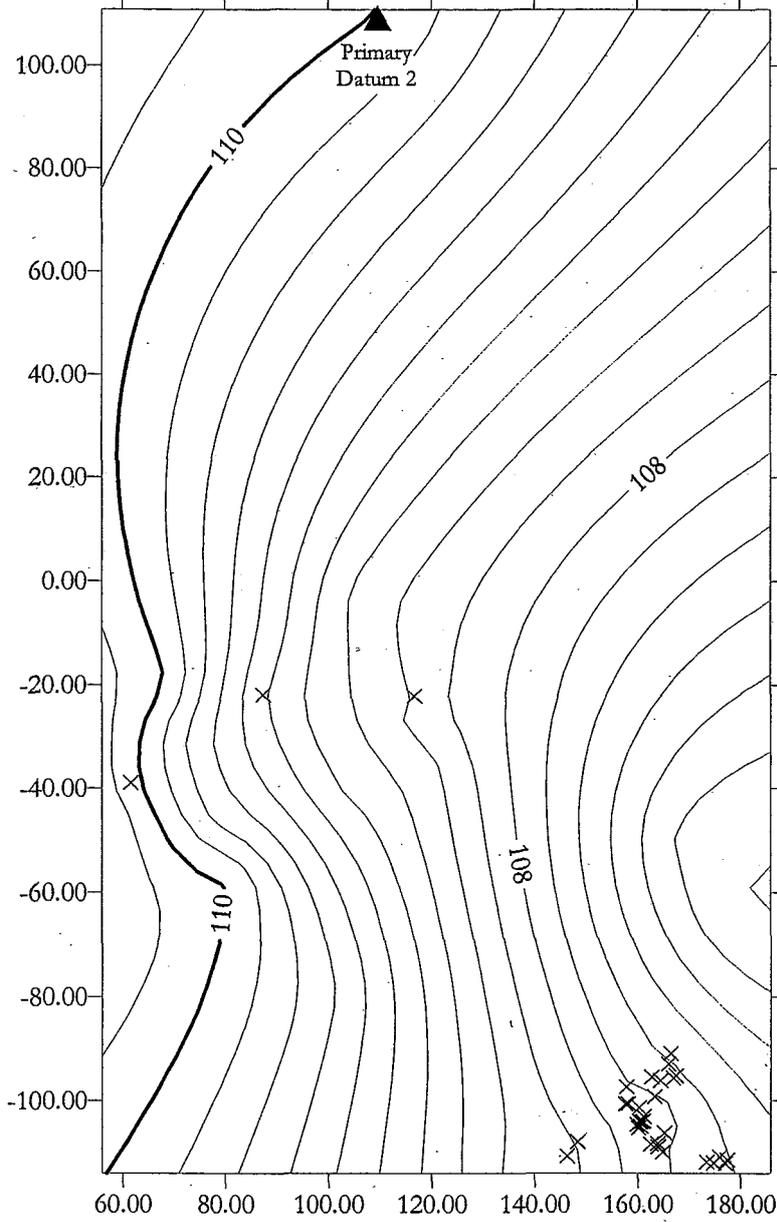
Scale



Legend

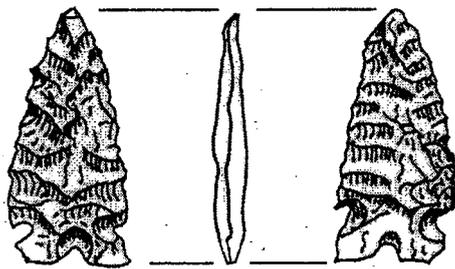
- ▲ Datum Location
- × Artifact Location
- Extent of Site

MAP 14: SITE 42DC 1160



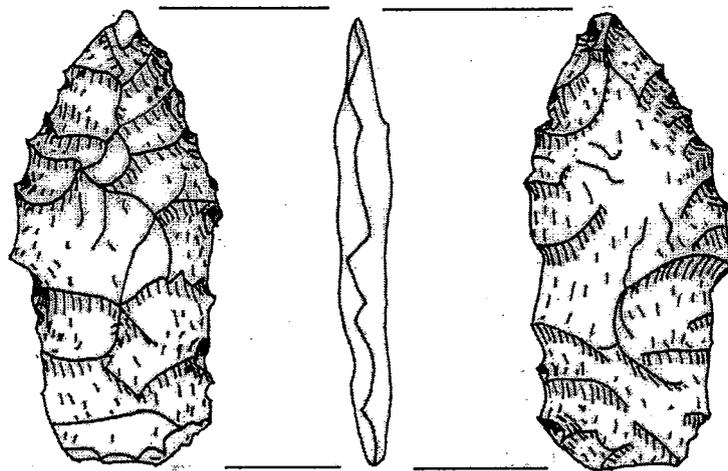
Legend

- ▲ Datum Location
- × Artifact Location



A

**42DC 1160
(FS-1031)**

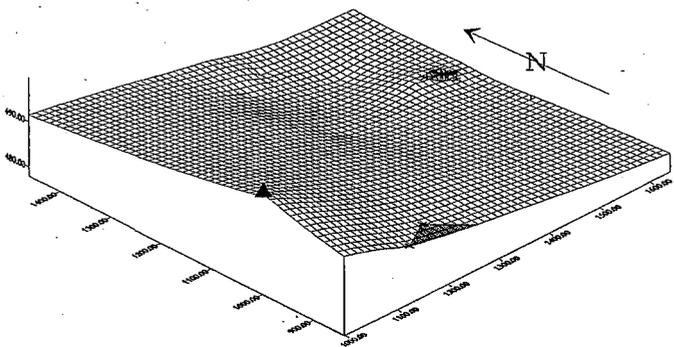
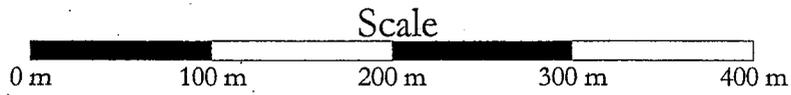
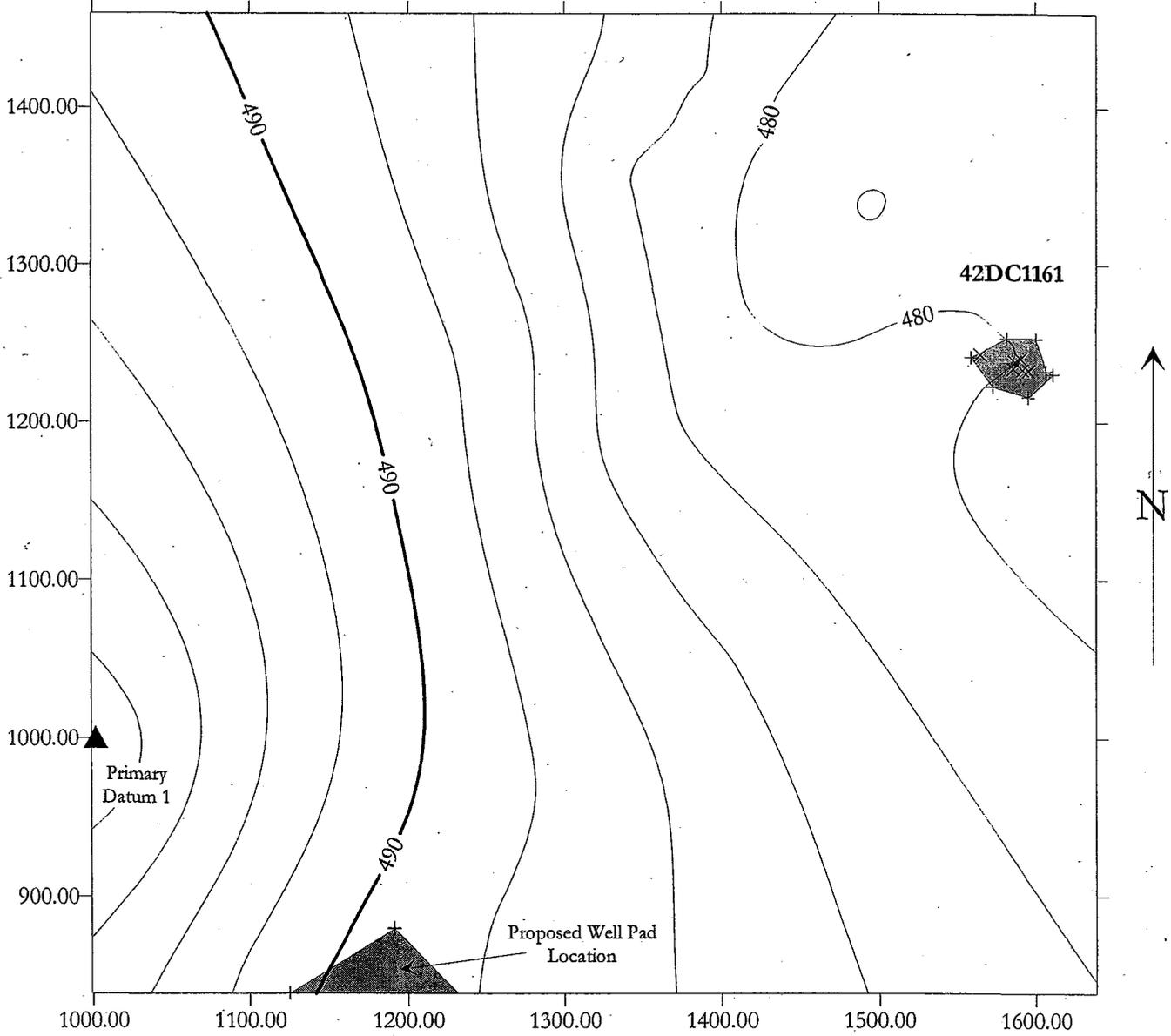


B

42DC 1161

FIGURE 2

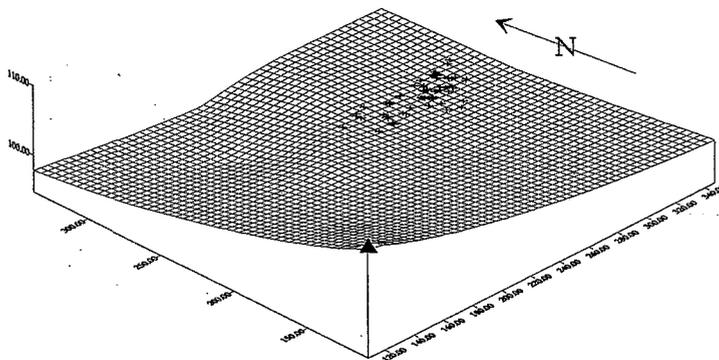
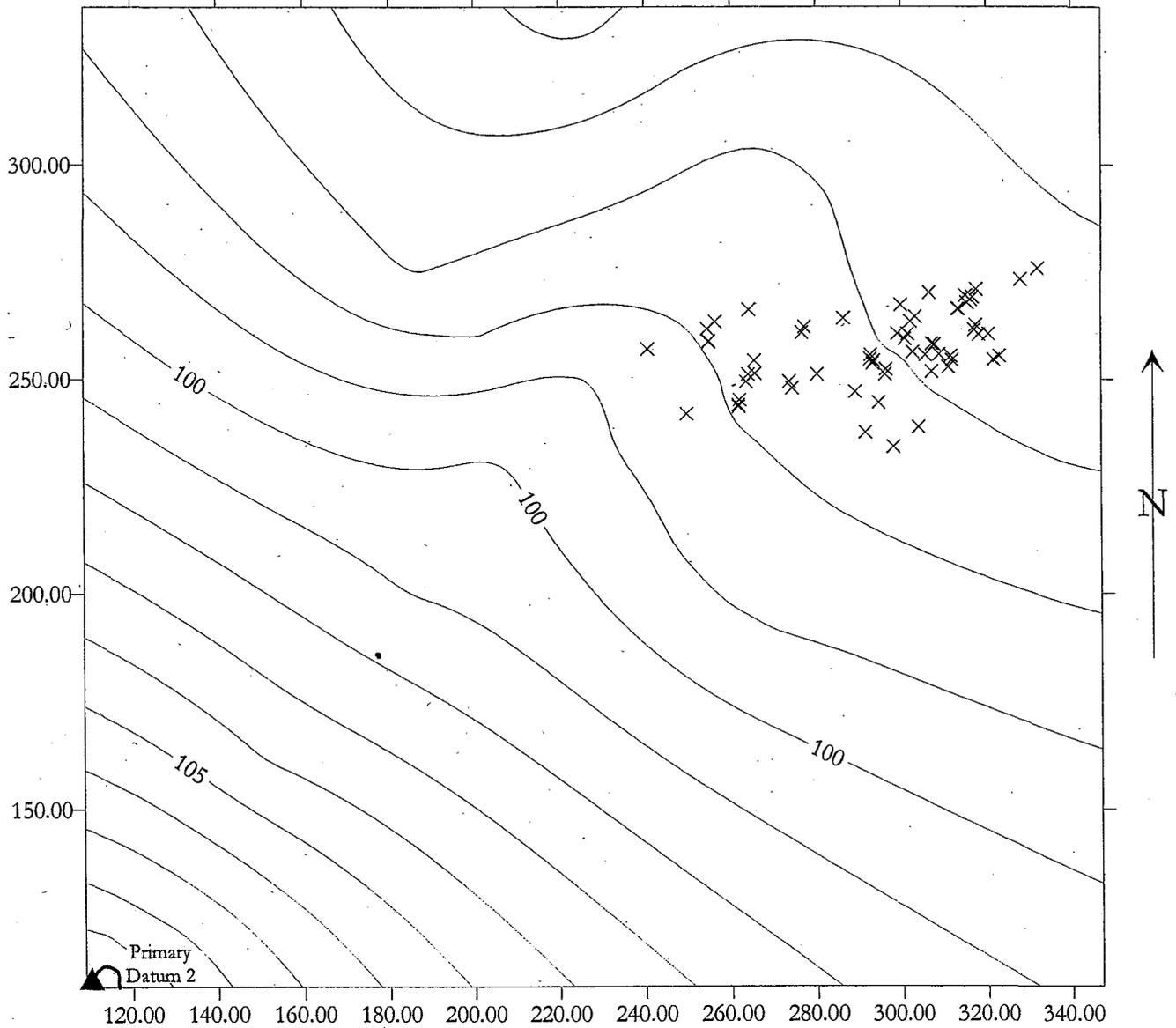
MAP 15: SITE 42DC 1161



Legend

- ▲ Datum Location
- × Artifact Location
- Proposed Well Pad Location
- Extent of Site

MAP 16: SITE 42DC 1162



Legend

- ▲ Datum Location
- × Artifact Location

Site 42DC 1163 (see Maps 3 and 17)

Site consists of a lithic scatter located on a sandy plain with a gradual slope on and around an isolated outcrop. Artifacts are limited to Parachute Creek chert debitage in all stages of lithic tool reduction and manufacture.

Nat. Register Status: Not Significant

Justification: Site lacks depth potential and context integrity. This site does not meet the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance.

Site 42DC 1164 (see Maps 3 and 18)

Site consists of a dispersed lithic scatter located in and near a shallow drainage at the bottom of a steep hill. Artifacts include Parachute Creek chert debitage in all stages of lithic tool manufacture and several choppers and scrapers.

Nat. Register Status: Not Significant

Justification: Site lacks depth potential and context integrity. This site does not meet the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance.

Site 42DC 1165 (see Maps 3 and 19)

Site consists of a dispersed scatter of lithic debitage, tools, ground stone and several deflated hearth scatters located on a ledge near the bottom of a slope. Ledges run westward from the site with scattered artifacts along the top and bottom of the ledge complex. Parachute Creek chert is predominate on the site.

Nat. Register Status: Not Significant

Justification: Site lacks depth potential and context integrity. This site does not meet the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance.

Site 42DC 1166 (see Maps 3 and 20)

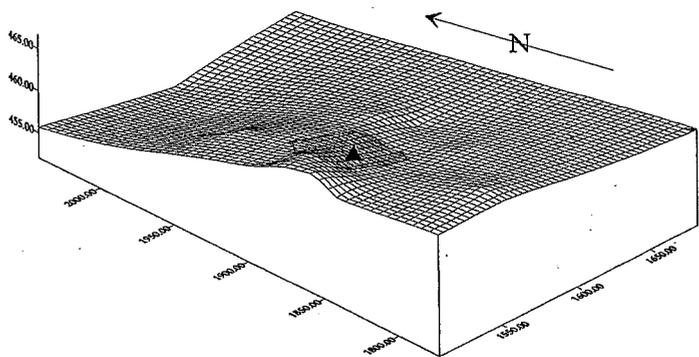
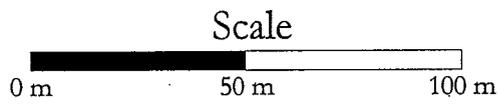
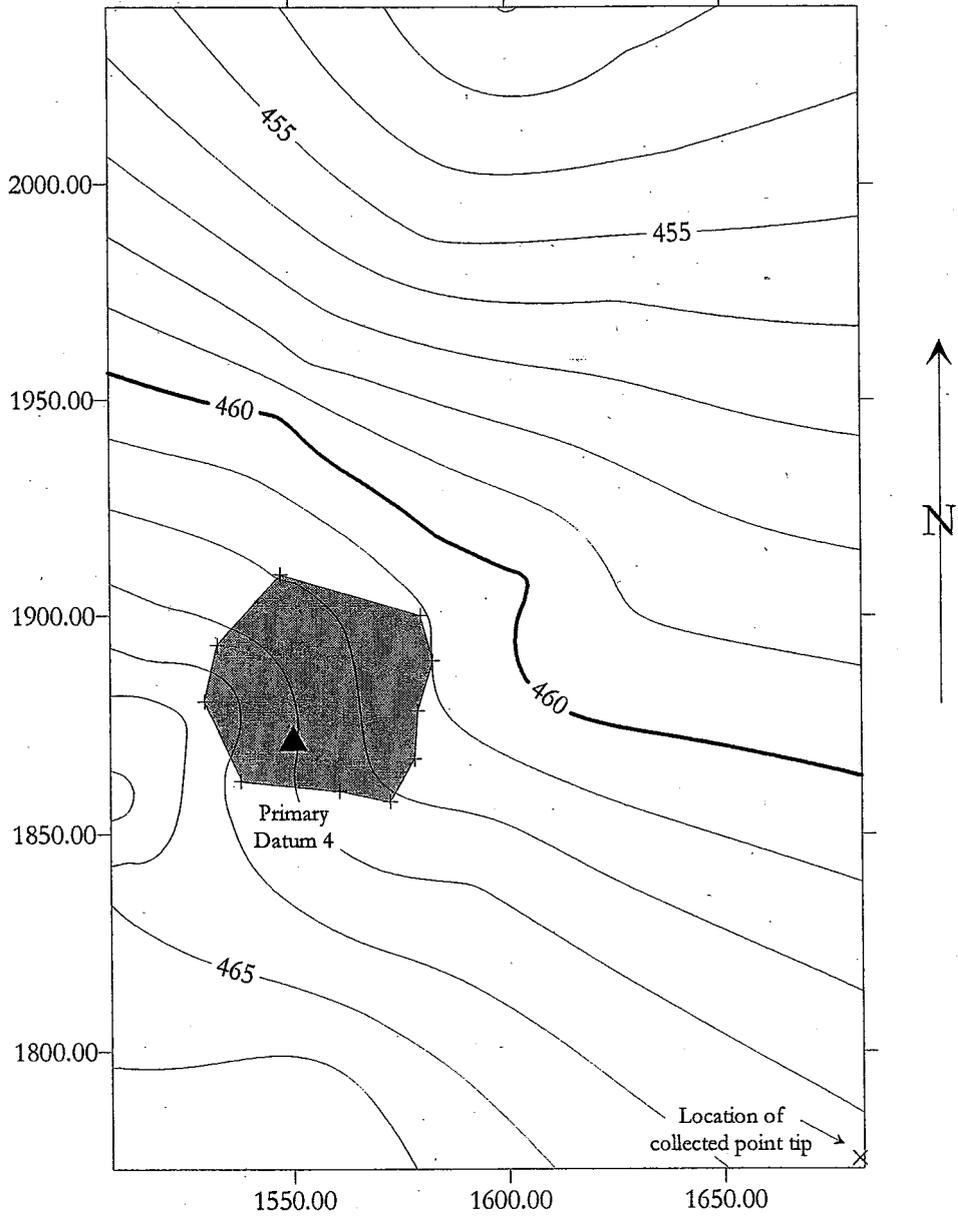
Site consists of a dispersed lithic scatter located in and near a shallow drainage at the bottom of a steep hill. Artifacts include Parachute Creek chert debitage in all stages of lithic tool manufacture and several choppers and scrapers.

Nat. Register Status: Not Significant

Justification: Site lacks depth potential and context integrity. This site does not meet the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance.

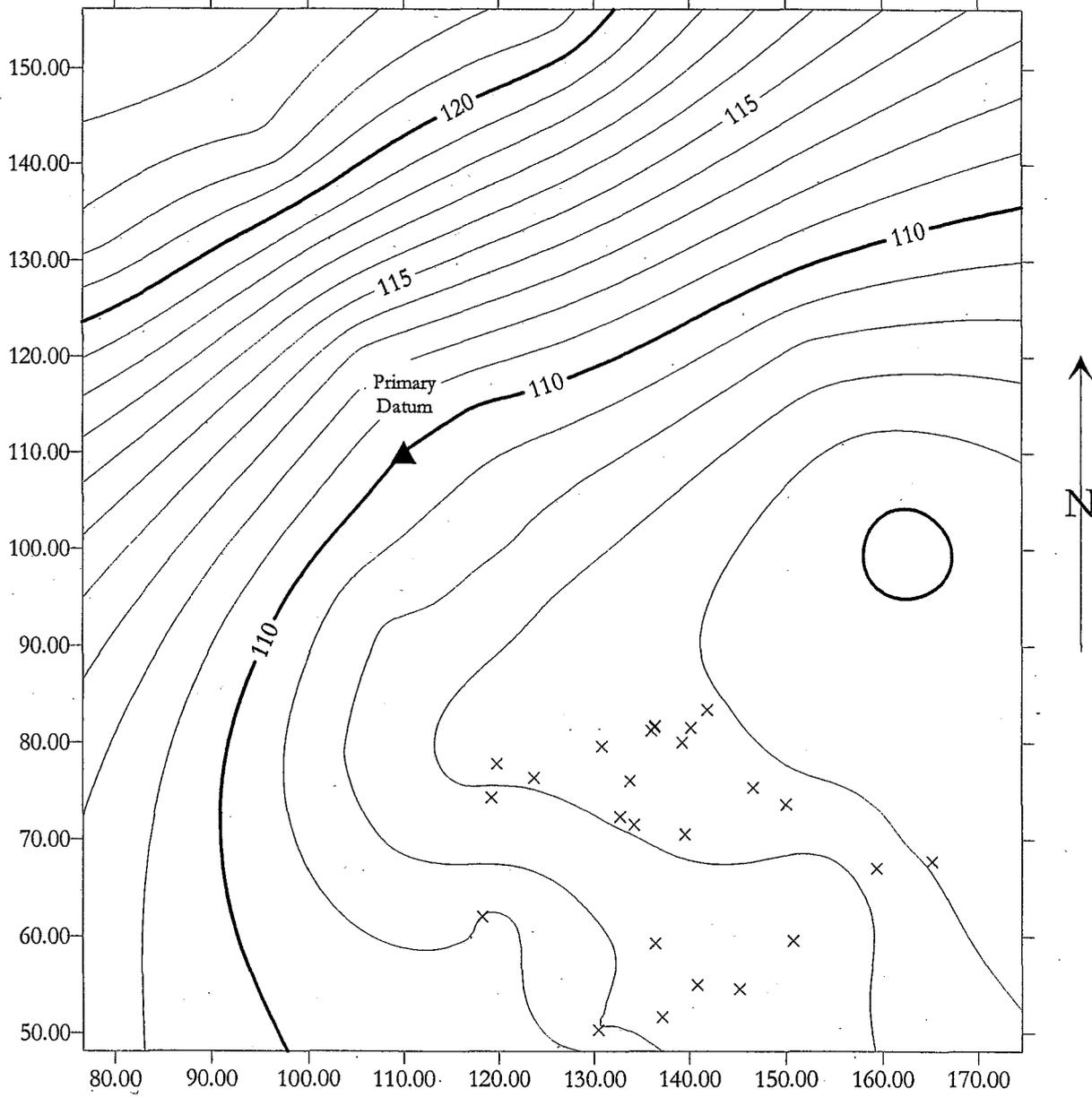
MAP 17: SITE 42DC 1163



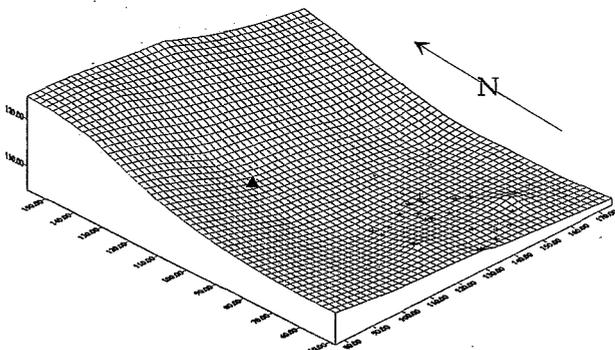
Legend

- ▲ Datum Location
- × Artifact Location
- Extent of Site

MAP 18: SITE 42DC 1164



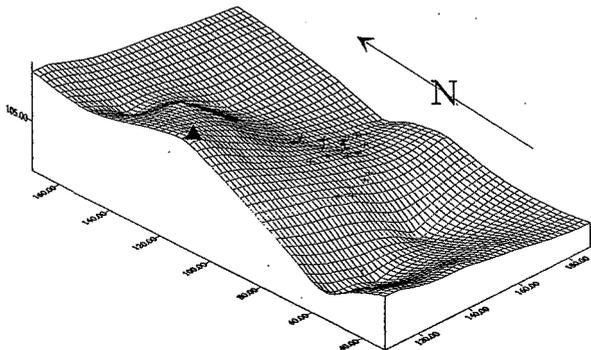
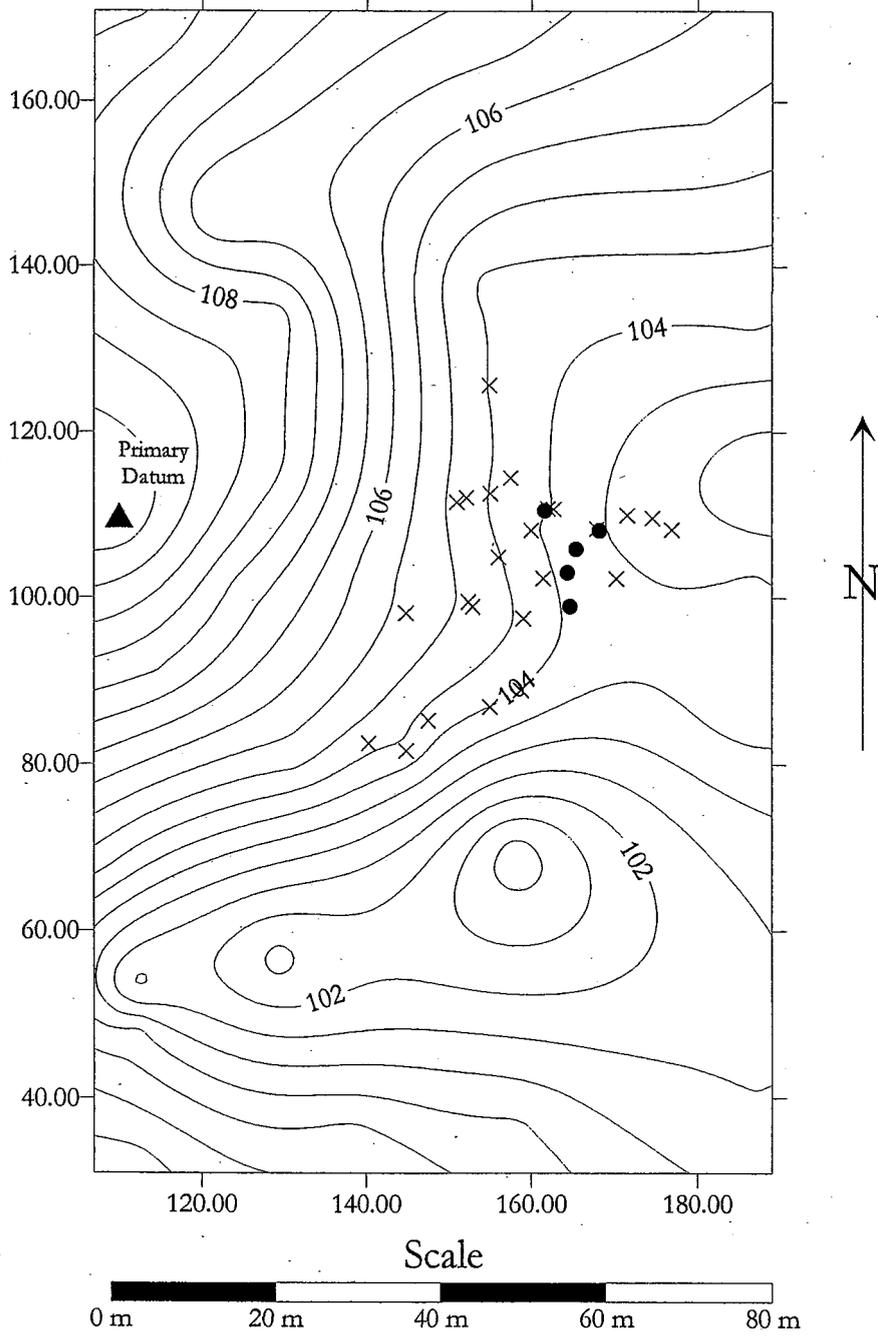
Scale



Legend

- ▲ Primary Datum
- × Artifact Location

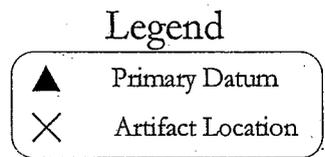
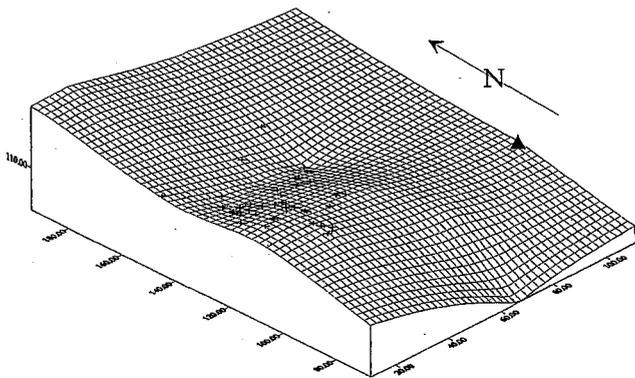
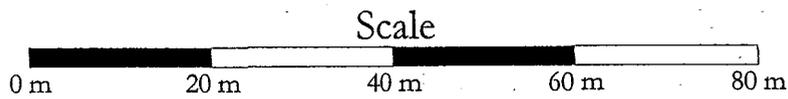
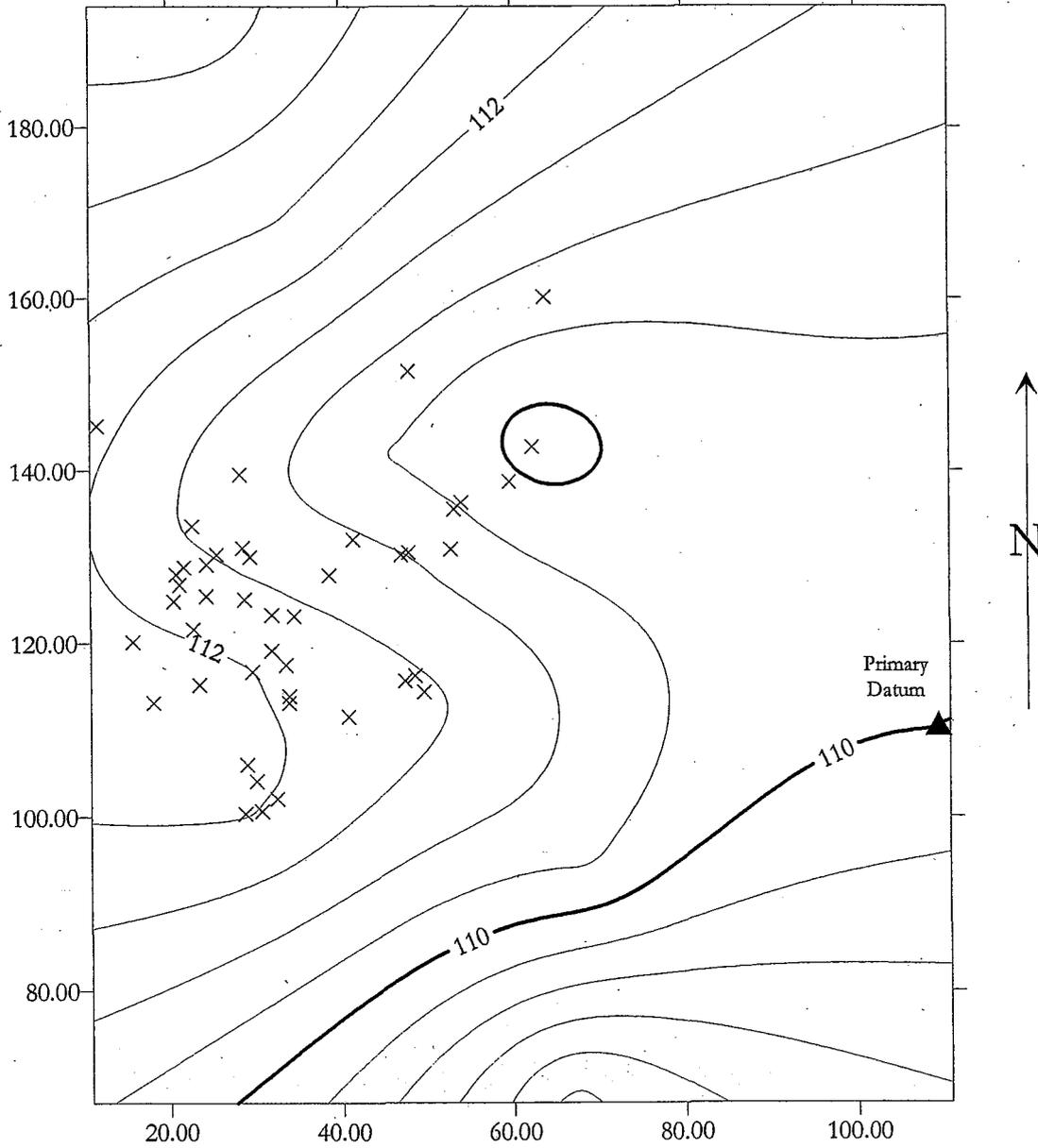
MAP 19: SITE 42DC 1165



Legend

- ▲ Primary Datum
- × Artifact Location
- Feature

MAP 20: SITE 42DC 1166



Site 42DC 1171 (see Maps 2 and 21)

Site 42DC 1171 consists of a limited scatter of lithic around and below a low sandstone ledge on a hill slope. Artifacts recorded at the site consist a few flakes of lithic debitage and two discrete concentrations of oxidized sandstone fragments. The site possesses marginal depth potential. No diagnostic artifacts were observed on the site.

Nat. Register Status: Not Significant

Justification: Site lacks depth potential and context integrity. This site does not meet the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance.

Site 42DC 1174 (see Maps 5 and 22)

Site consists of an open occupation and lithic scatter located on a low bench. Artifacts include an Elko Eared or Pinto dart point (see Figure 3B) and a number of unifaces, bifaces (see Figure 3A), preforms and other tools. Lithic debitage includes waste from all stages of tool manufacture and reduction. The dominant lithic material type is parachute creek chert, which is commonly found in this locality as float. Site 42DC 1174 is probably related with nearby Site 42DC 1175.

Nat. Register Status: Significant

Justification: Site contains depth potential and context integrity. This site meets the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance during any surface development related to Unit 5-22.

Site 42DC 1175 (see Maps 6 and 23)

Site consists of a prehistoric lithic scatter located in a sandy swale above the drainage and flood plain. The scatter is roughly elliptical in configuration and very large occupying an area about 200 meters in length. A Rocker Side-notched dart point (see Figure 3C) was collected from the site. This variety of dart point was utilized during the Middle Archaic stage of occupation on the Colorado Plateau and Wasatch Plateau. No features were observed or recorded on this site. Isolate 1598R/x1 (see Figure 5D), an early Paleoindian projectile point probably of the Midland variety, was collected outside this site's northern periphery. Site 42DC 1175 is probably related with nearby Site 42DC 1174.

Nat. Register Status: Significant

Justification: Site contains depth potential and context integrity. This site meets the standards for significance under criterion d established in 36 FR 60.6.

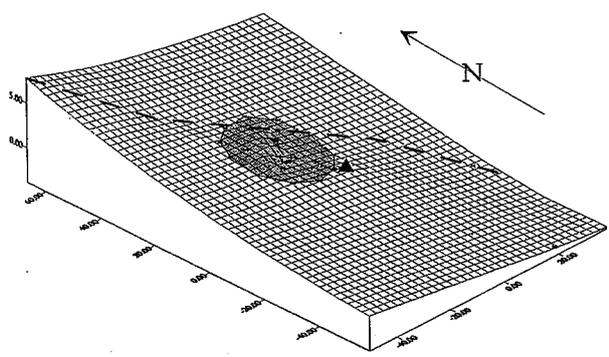
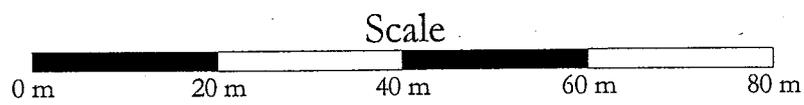
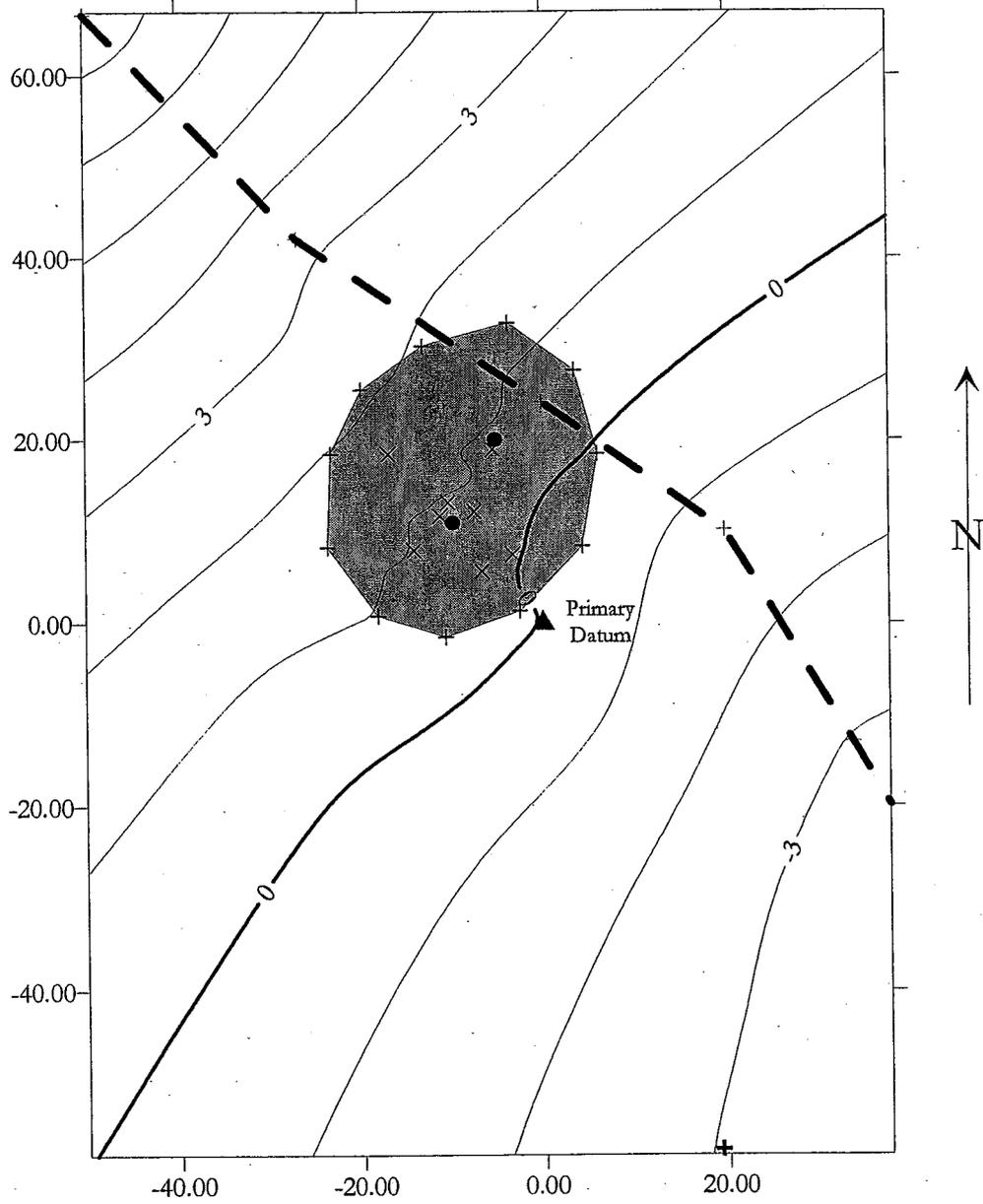
Recommendation: Avoidance during any surface development related to Unit 5-22.

Site 42DC 1176 (see Map 6)

Site consists of a small lithic scatter situated on the south bench above a large ephemeral drainage. The scatter is composed of five flakes and four expediency tools all of which probably represent a single use locus. No features were noted.

Nat. Register Status: Not Significant

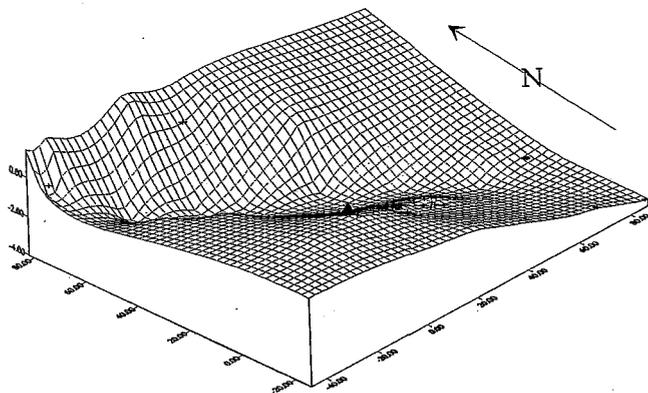
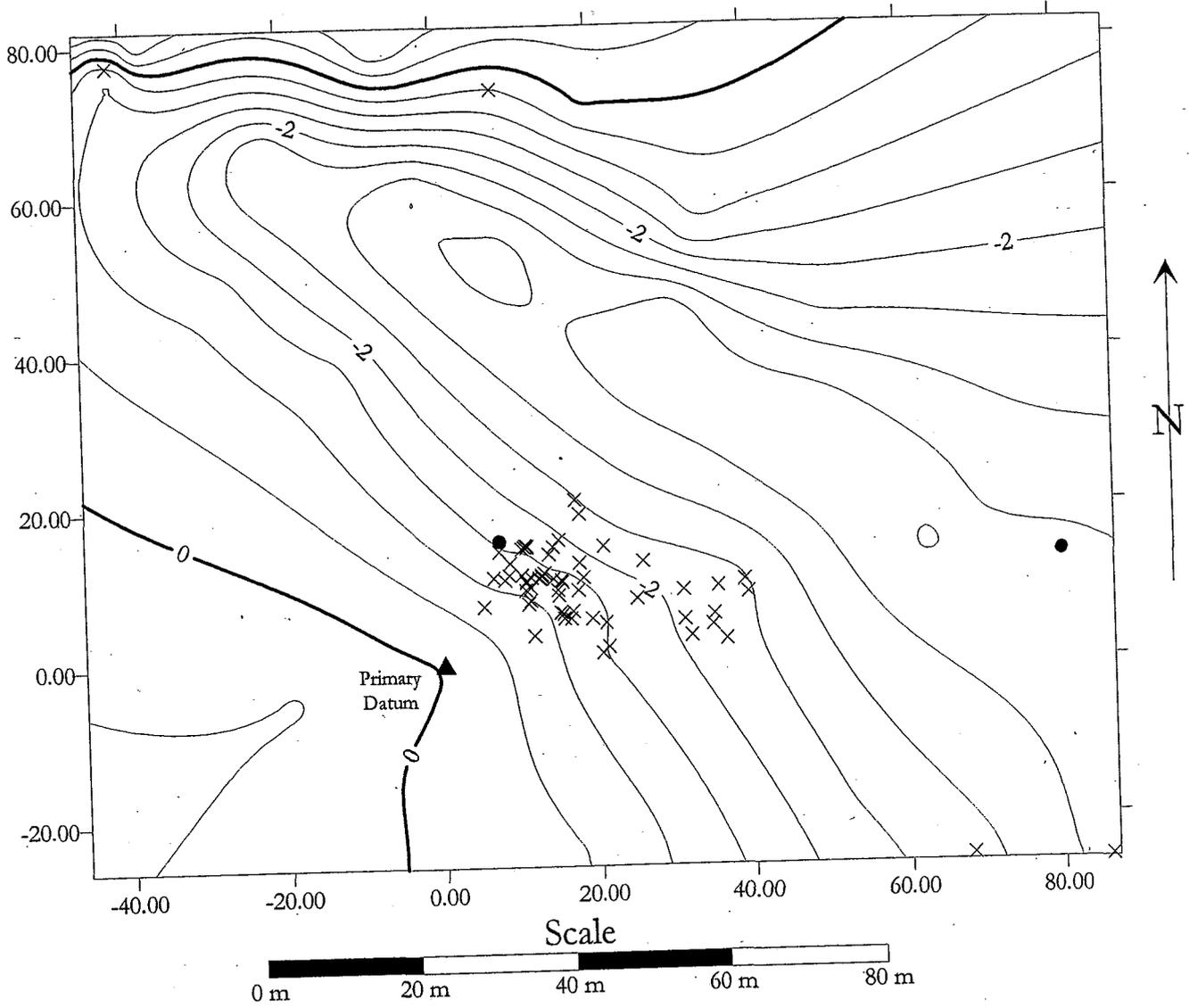
MAP 21: SITE 42DC 1171



Legend

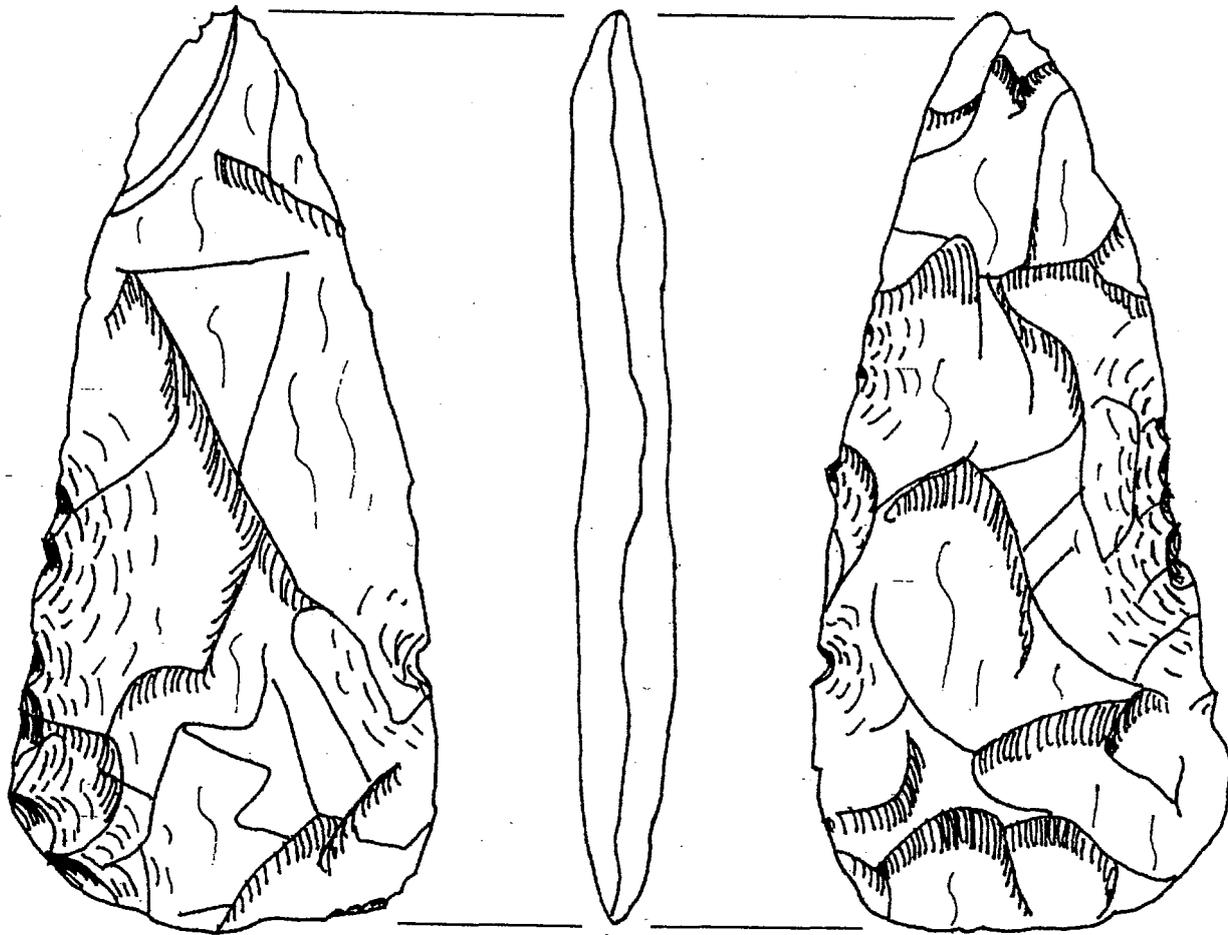
- ▲ Primary Datum
- × Artifact Location
- Hearth
- ⊕ Well-head Location
- - - Access Road
- Extent of Site

MAP 22: SITE 42DC 1174



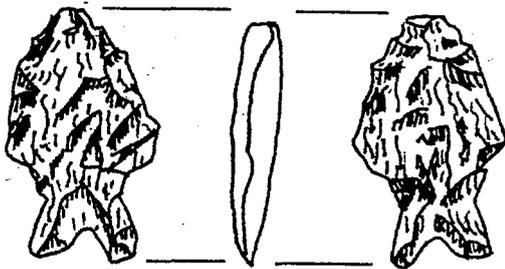
Legend

- ▲ Primary Datum
- × Artifact Location
- Hearth



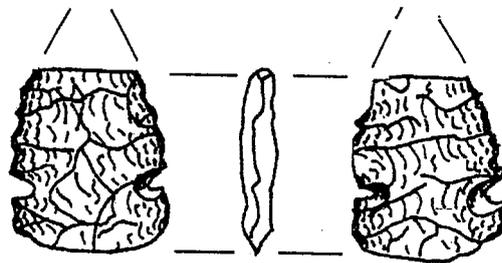
A

42DC 1174
(FS-1033)



B

42DC 1174
(FS-1002)

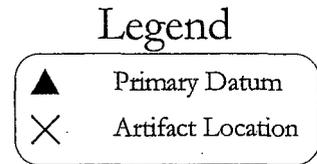
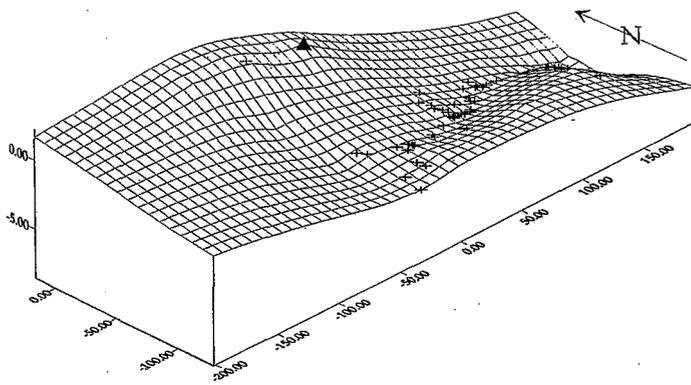
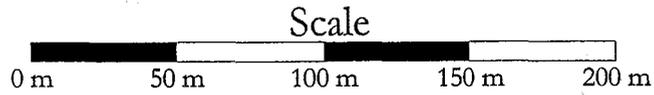
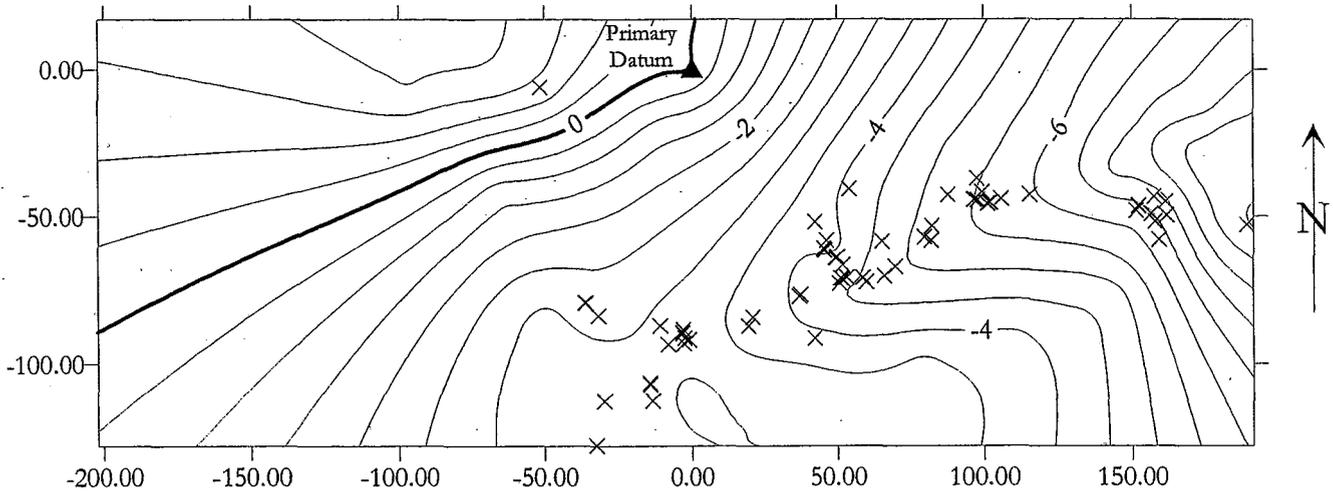


C

42DC 1175
(FS-1038)

FIGURE 3

MAP 23: SITE 42DC 1175



Justification: Site lacks depth potential and context integrity. This site does not meet the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance.

Site 42DC 1177 (see Maps 4 and 24)

This site consists of a dispersed lithic scatter of Parachute Creek Chert flakes, all highly patinated, lying on an eroded, hardpan clay, surface between a major drainage on the north and the stabilized dune complex associated with the mesa above and to the south. Debitage is mainly primary and secondary flakes of the tap and test or expediency tool manufacture variety.

Nat. Register Status: Not Significant

Justification: Site lacks depth potential and context integrity. This site does not meet the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance.

Site 42UN 2532 (see Map 4)

The site consists of a diffuse scatter of lithic debitage, cores and bifaces or choppers. The majority of artifacts are of the tap-and-test variety of cores and primary flakes. The entire site area, which covers about 50 to 60 acres, is littered with artifacts and lithic materials and may have served as a lithic resource locus for the area.

Nat. Register Status: Not Significant

Justification: Site lacks depth potential and context integrity. This site does not meet the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance.

Site 42UN 2533 (see Maps 4 and 25)

This site consists of a diffuse scatter of lithic debitage, cores, one biface and numerous scatters of oxidized and fire cracked rock. Two discreet, deflated hearth scatters were noted. Most debitage was noted in blowouts in thin sand deposits over bedrock. Some artifacts appear to be in original context, but little depth was noted.

Nat. Register Status: Not Significant

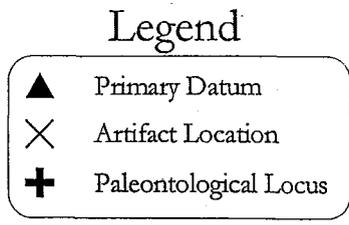
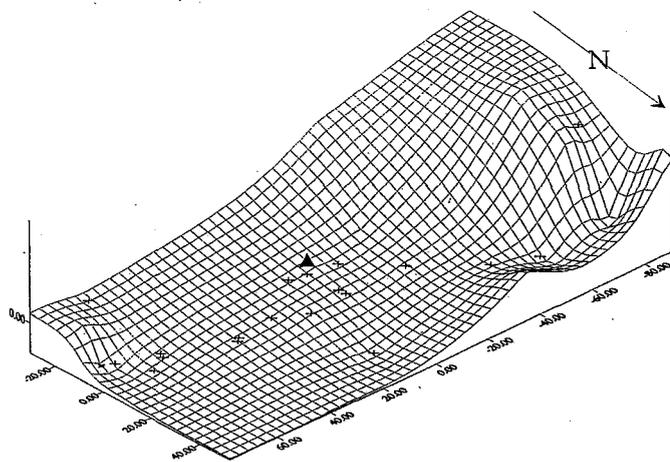
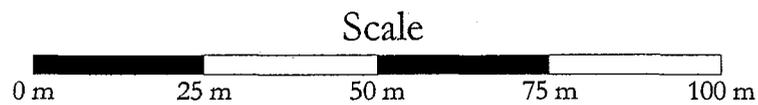
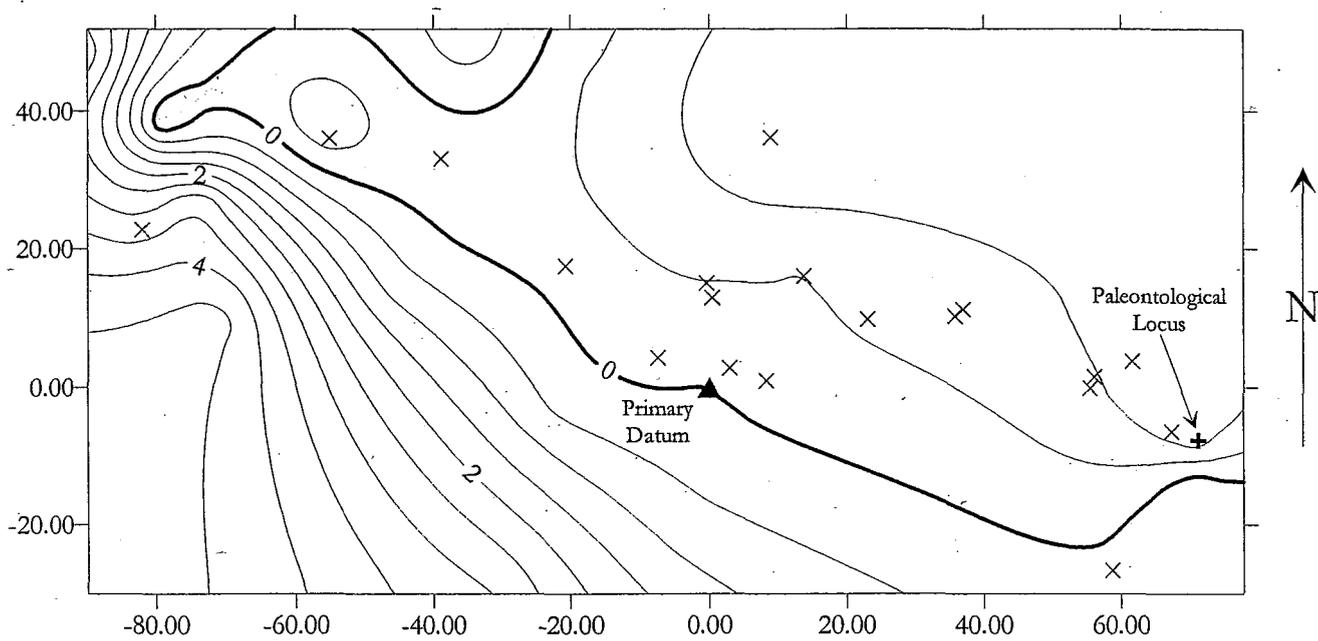
Justification: Site lacks depth potential and context integrity. This site does not meet the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance.

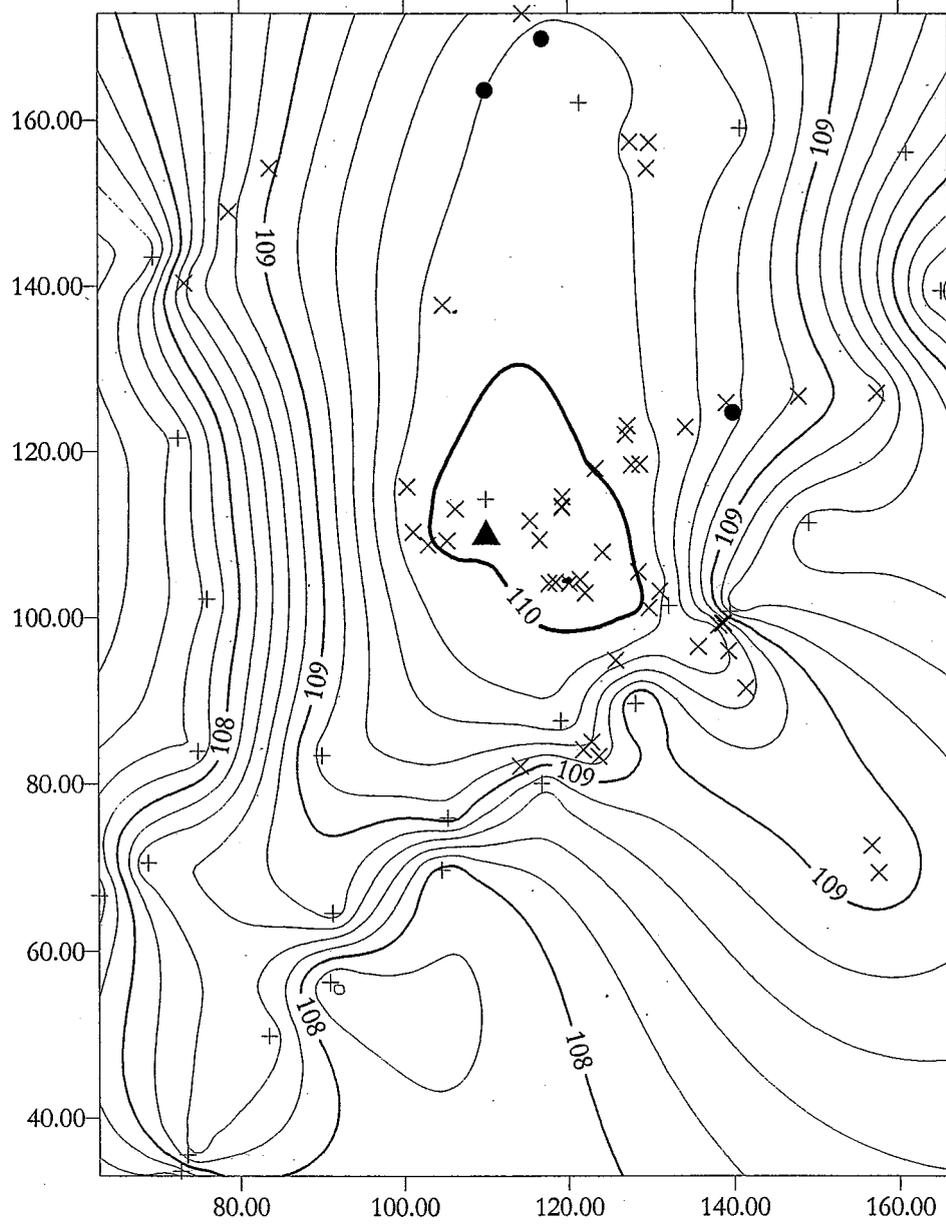
Site 42UN 2534 (see Maps 4 and 26)

The site consists of a shallow rock shelter/alcove with a scatter of oxidized stone leading from the shelter across a sandstone ledge bench. A diffuse scatter of lithic debitage, cores and bifaces or choppers also extends from the shelter area to the lip of the ledge. Erosion has removed all of the shelter deposits, and little of the bench contexts are intact. This site is part of an Archaic

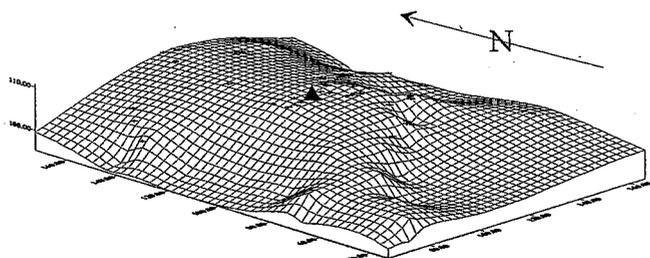
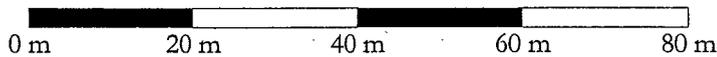
MAP 24: SITE 42DC 1177



MAP 25: SITE 42UN 2533



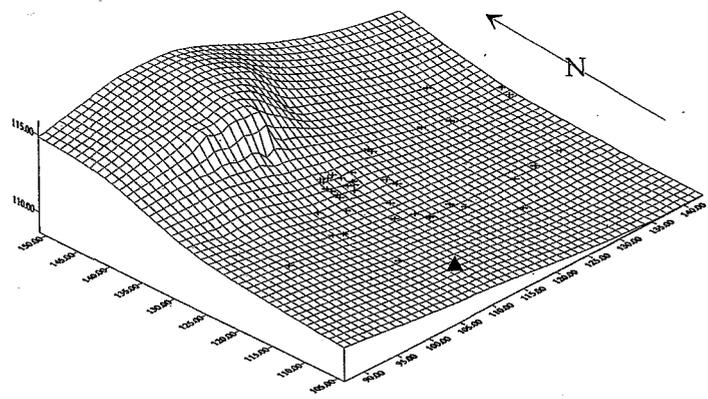
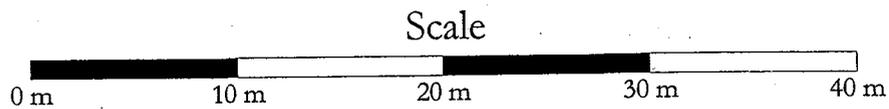
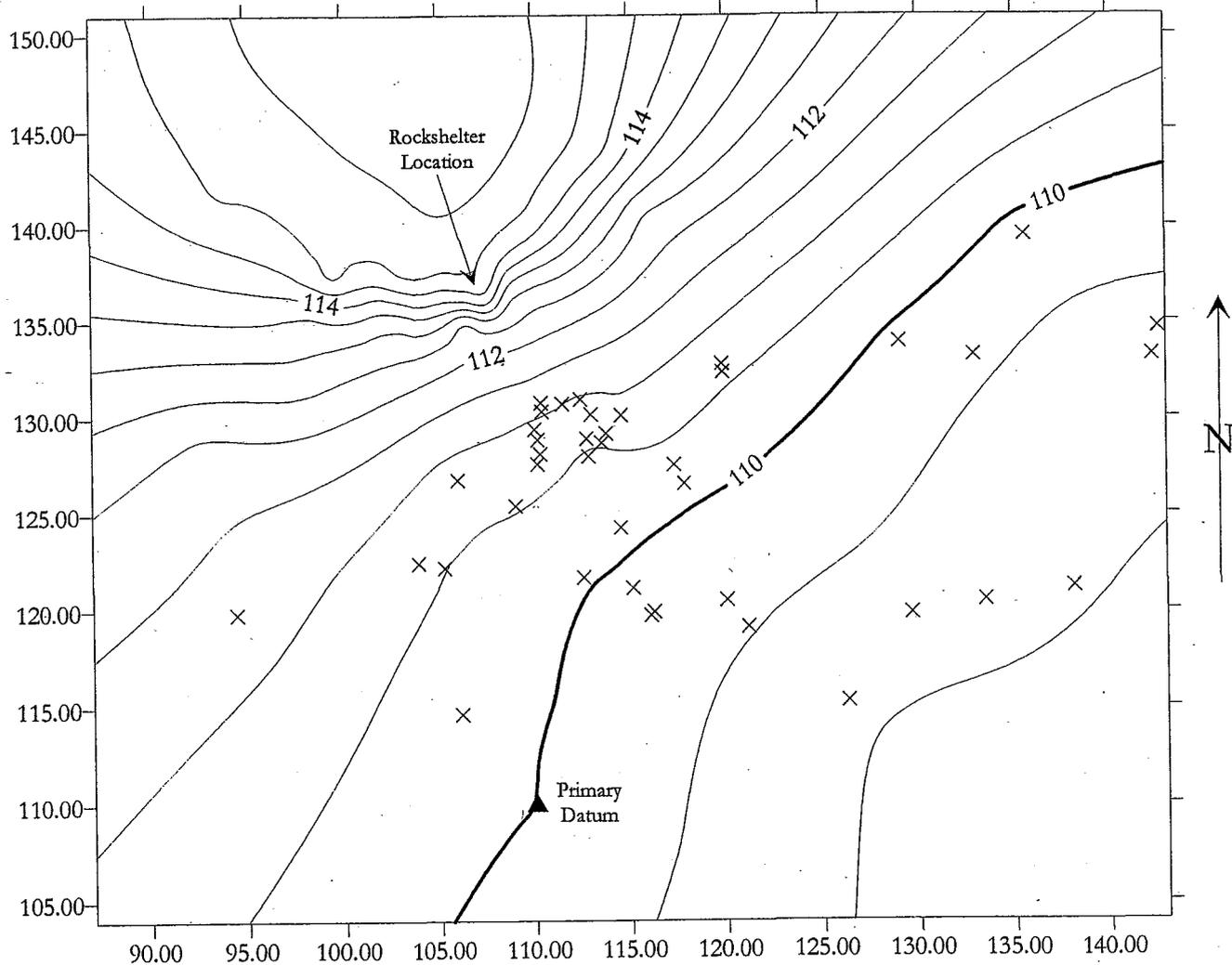
Scale



Legend

-  Primary Datum
-  Artifact Location
-  Hearth

MAP 26: SITE 42UN 2534



Legend

- ▲ Primary Datum
- × Artifact Location

large game hunting/kill/butchering/roasting complex that includes 42UN 2535, 2536, and 2537.

Nat. Register Status: Not Significant

Justification: Site lacks depth potential and context integrity. This site does not meet the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance.

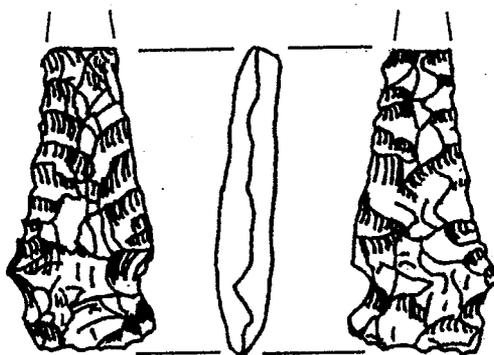
Site 42UN 2535 (see Maps 4 and 27)

The site consists of a lithic scatter containing chipped stone tools and debitage. There are spatially delimited concentrations of tools, secondary flakes and tertiary flakes, while decortication flakes, cores and choppers are diffuse throughout the site. The primary lithic material is Parachute Creek chert with some quartzite and a fine grained grey chert. Most artifacts are heavily patinated, suggesting great age. Preliminary evaluations suggest that this is a special use site such as a kill/butcher locus since artifacts are so tightly clustered with most of the bifaces concentrated in a small (2 x 2 meter) areas. This site is part of an Archaic large game hunting/kill/butchering/roasting complex that includes 42UN 2534, 2536, and 2537.

Nat. Register Status: Significant

Justification: Site contains depth potential and context integrity. This site meets the standards for significance under criterion d established in 36-FR 60.6.

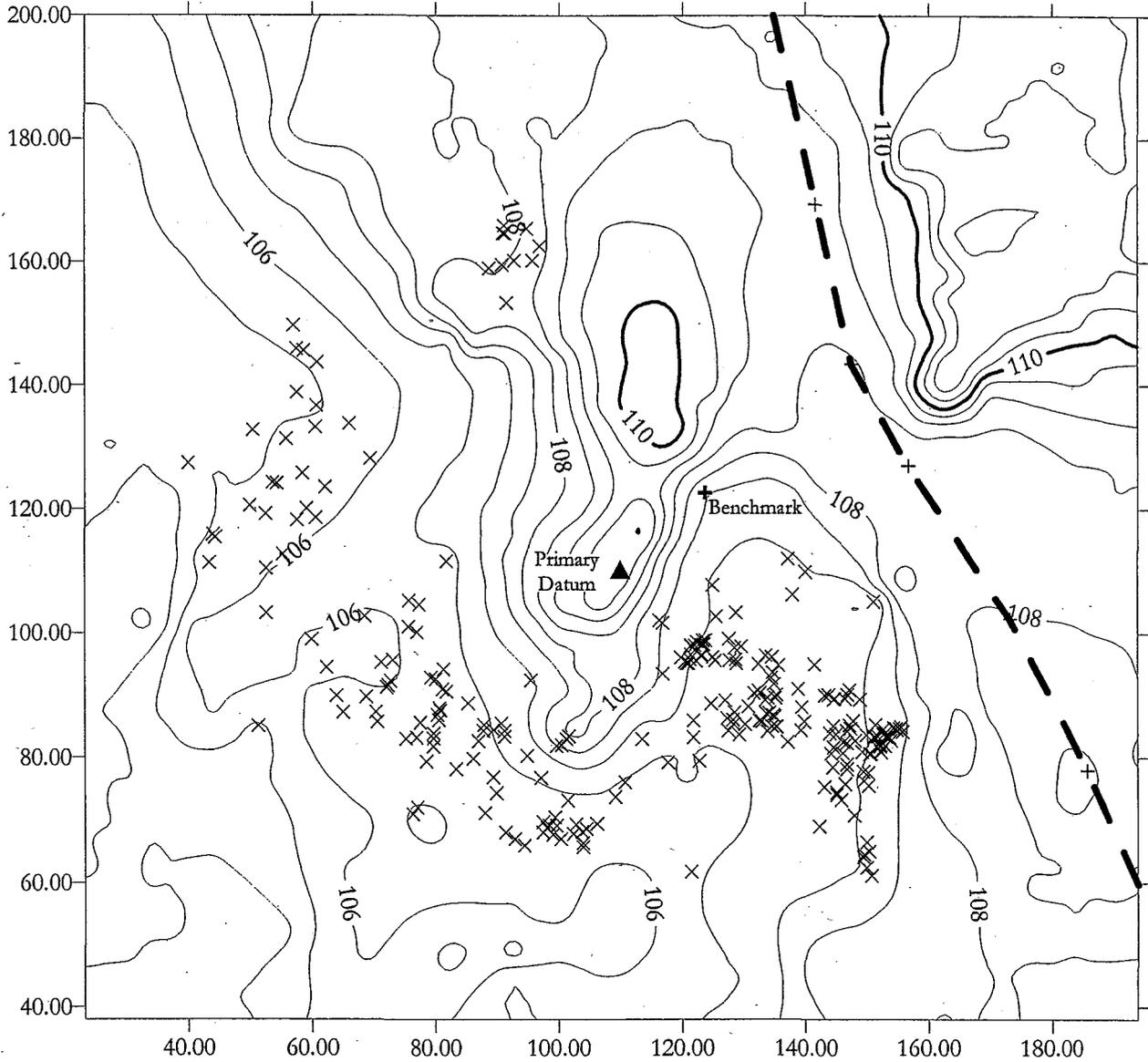
Recommendation: Avoidance during any surface development related to Unit 7-35.



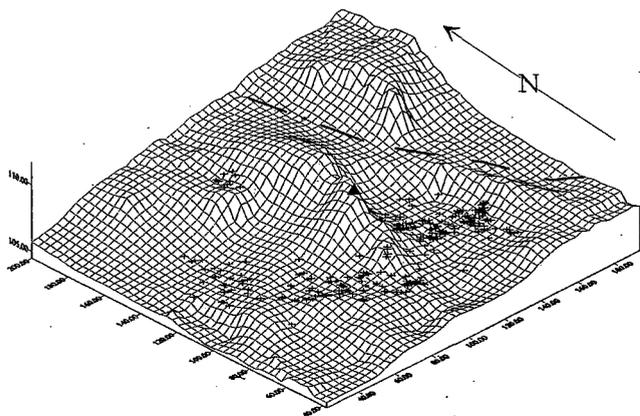
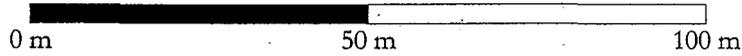
42UN 2535

FIGURE 4

MAP 27: SITE 42UN 2535



Scale



Legend

- ▲ Datum Location
- × Artifact Location
- ⊕ Benchmark
- - - Access Road

Site 42UN 2536 (see Maps 4 and 28)

The site consists of a lithic scatter containing chipped stone tools and debitage. The primary lithic material is Parachute Creek chert with some quartzite and a fine grained brown chert. Several chopping tools are present, but no diagnostics were observed. This site is part of an Archaic large game hunting/kill/butchering/roasting complex that includes 42UN 2534, 2535, and 2537.

Nat. Register Status: Not Significant

Justification: Site lacks depth potential and context integrity. This site does not meet the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance.

Site 42UN 2537 (see Maps 4 and 29)

This site is an open occupation and lithic scatter consisting of several concentrations of oxidized stone, one intact roasting hearth, and a diffuse scatter of lithic debitage, cores and bifaces or choppers. Occupational debris is revealed in a linear pattern in blowouts within and alongside a large dune field. This site is part of an Archaic large game hunting/kill/butchering/roasting complex that includes 42UN 2534, 2535, and 2536.

Nat. Register Status: Significant

Justification: Site contains depth potential and context integrity. This site meets the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance during any surface development related to Units 1-35, 2-35, and 7-35.

Site 42UN 2538 (see Maps 4 and 30)

This site consists of a shallow two chambered rock shelter in a sandstone outcrop overlooking a broad drainage to the south. Erosional activity has scoured the shelter, but plenty of debitage, tools and oxidized, heat-cracked rock are visible on the slope and eroding from the sand dunes below.

Nat. Register Status: Significant

Justification: Site contains depth potential and context integrity. This site meets the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance during any surface development related to Unit 9-35.

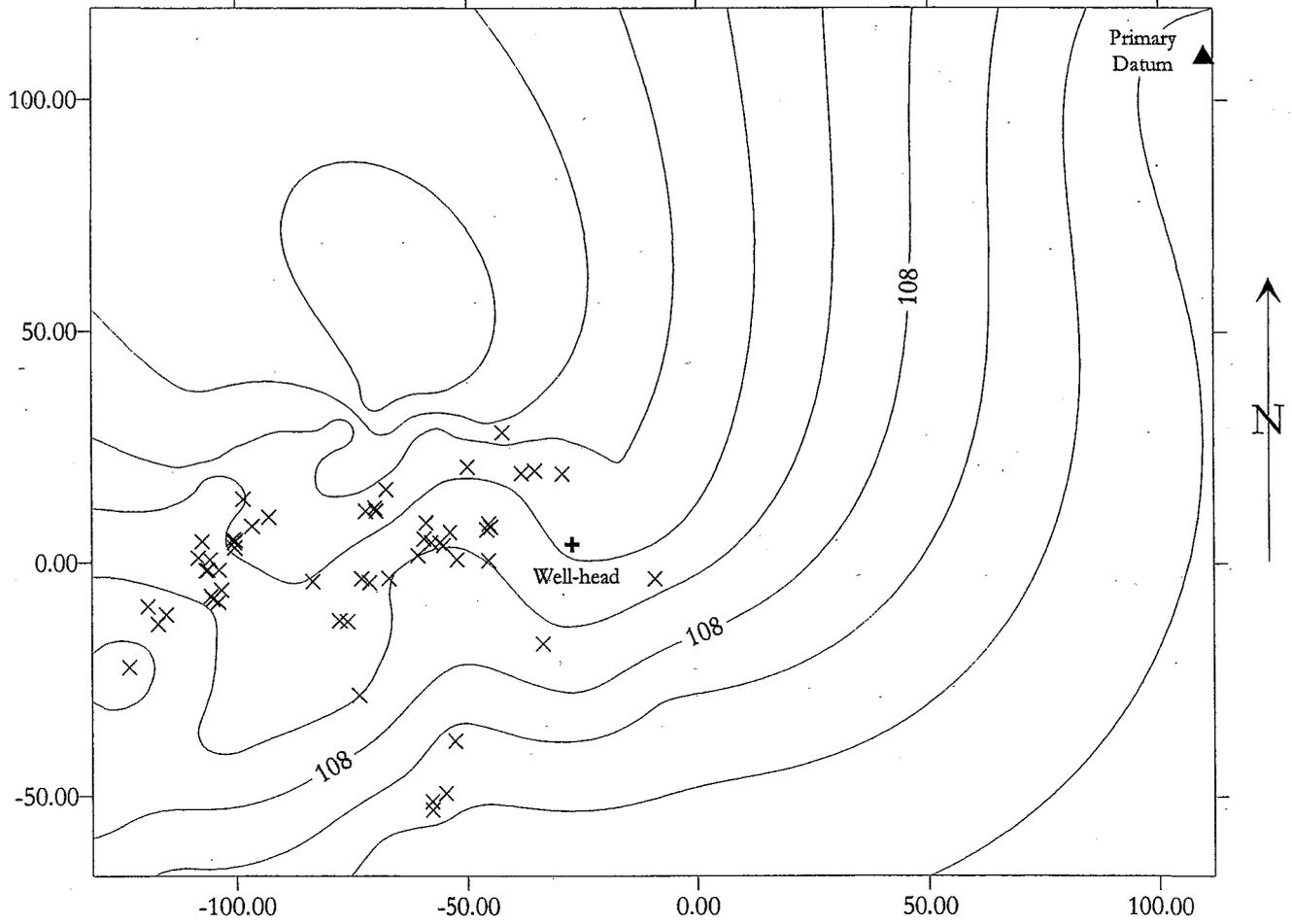
Site 42UN 2552 (see Maps 4 and 31)

This site consists of a rock shelter in a sandstone ledge complex overlooking a broad drainage to the south. Erosional activity has resulted in the collapse of much of the roof over the shelter effectively sealing the context. Reduction debitage and tools are being exposed within the rock shelter and its associated deposition area.

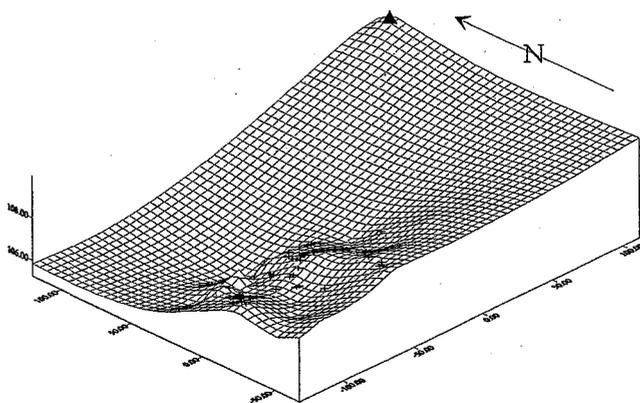
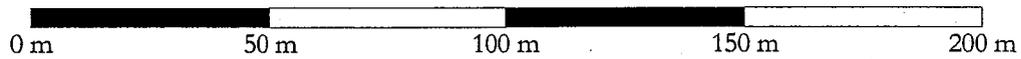
Nat. Register Status: Significant

Justification: Site contains depth potential and context integrity. This site meets the

MAP 28: SITE 42UN 2536



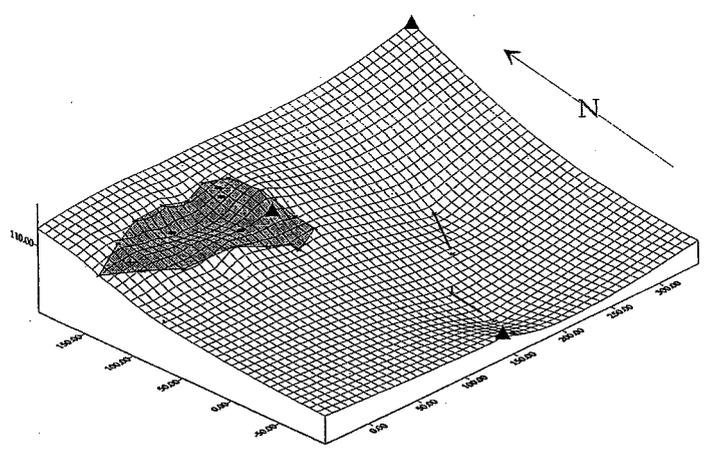
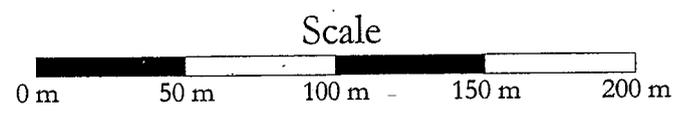
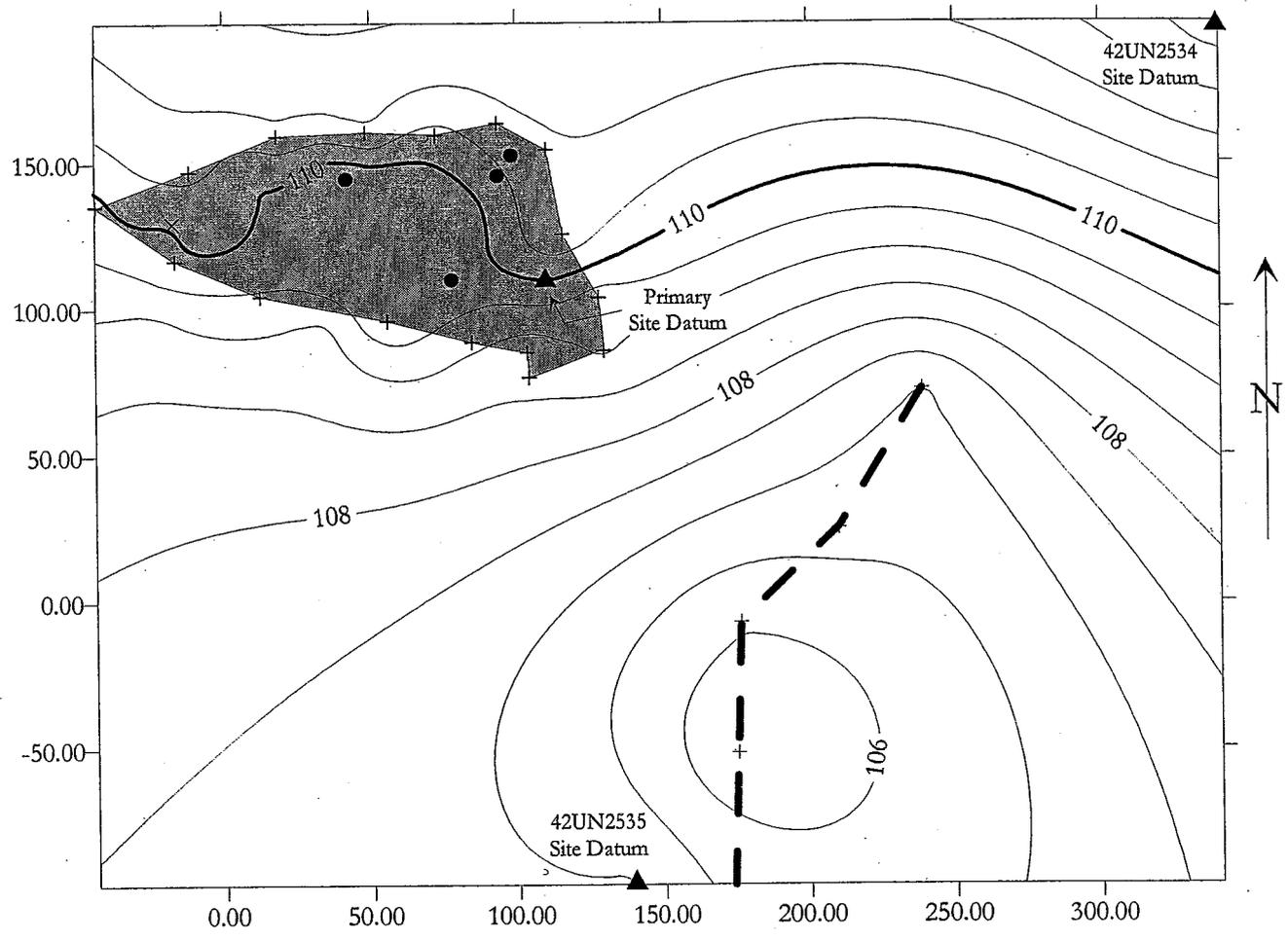
Scale



Legend

- ▲ Primary Datum
- × Artifact Location
- + Well-head Location

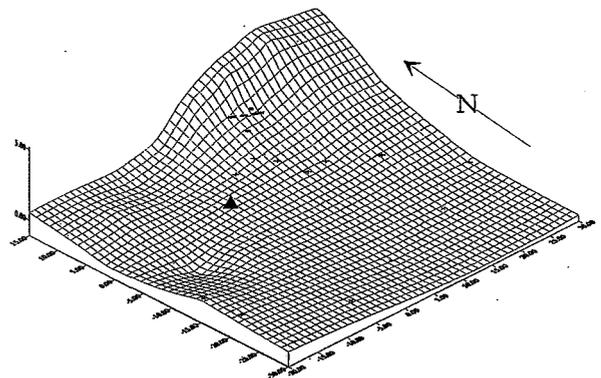
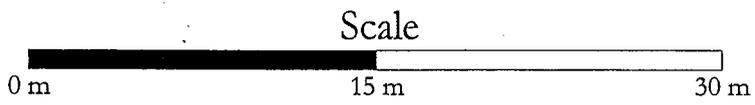
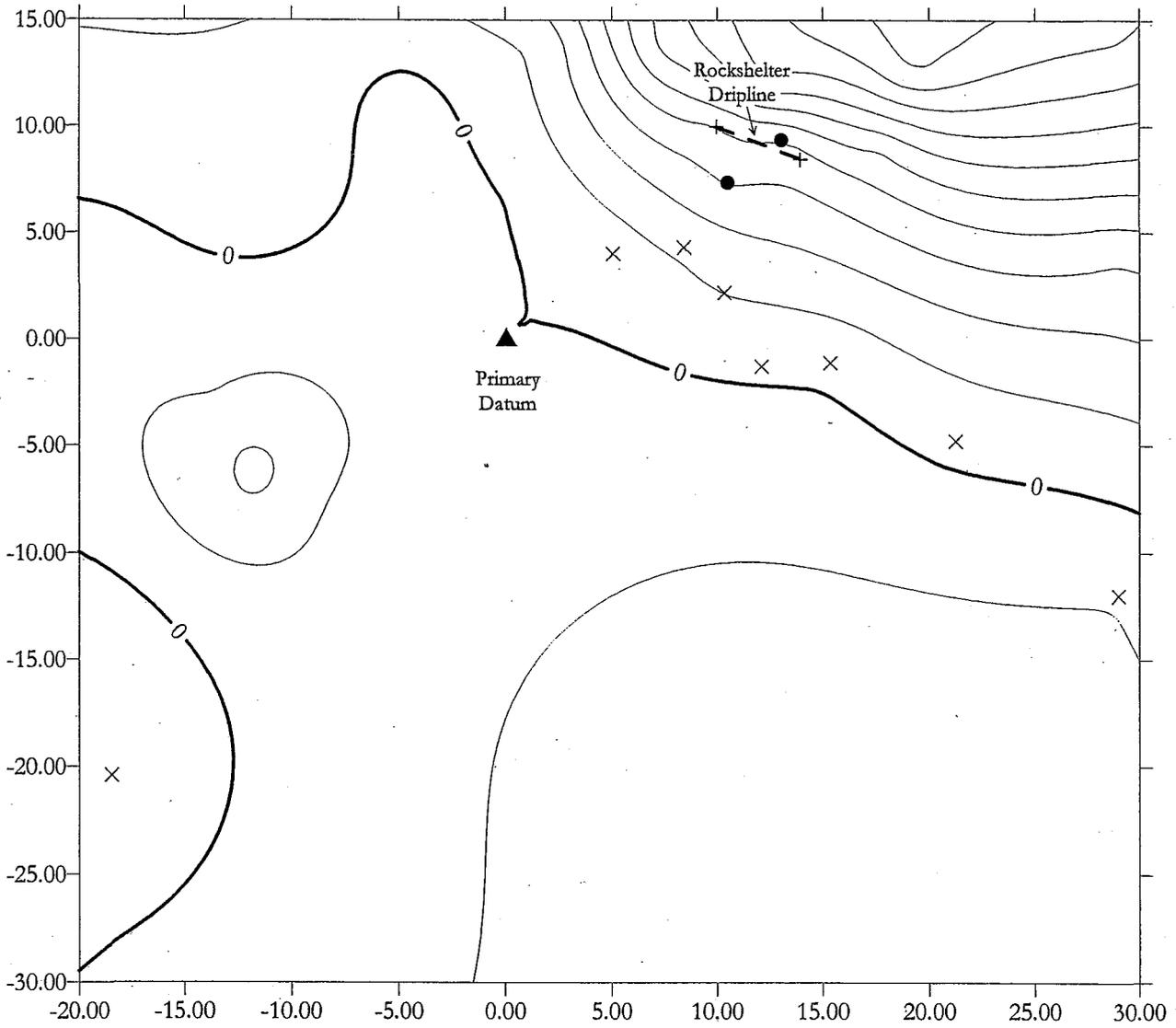
MAP 29: SITE 42UN 2537



Legend

- ▲ Datum Location
- × Artifact Location
- Hearth Location
- Extent of Site
- Access Road

MAP 30: SITE 42UN 2538

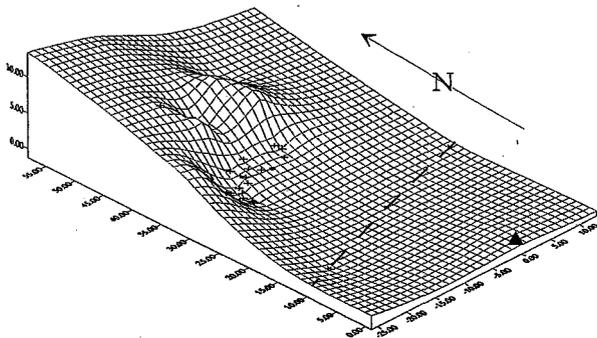
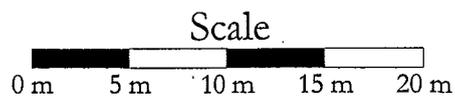
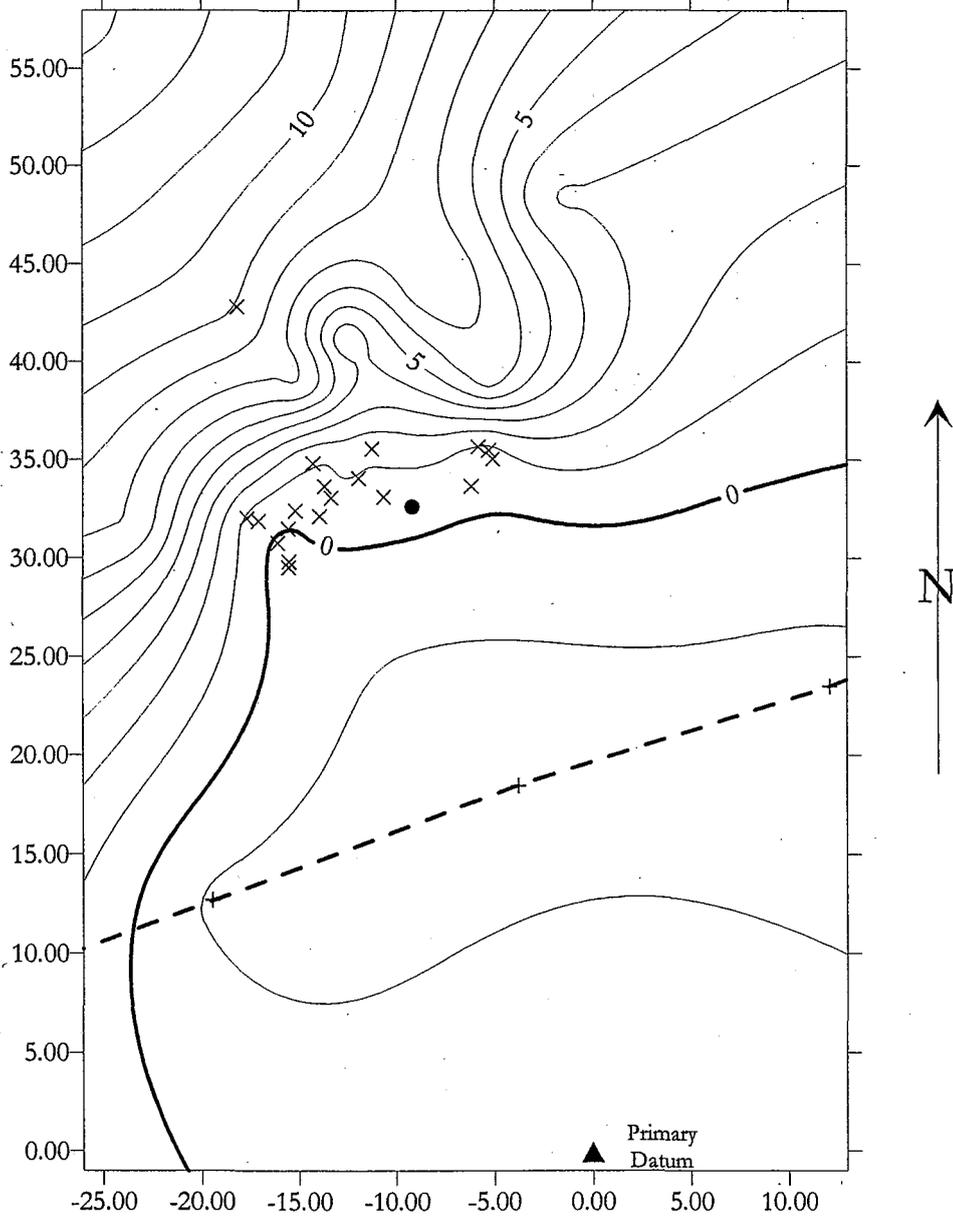


Legend

- ▲ Primary Datum
- × Artifact Location
- Hearth Location

MAP 31: SITE 42UN 2552

47



Legend

- ▲ Primary Datum
- × Artifact Location
- Hearth
- - - Drainage Channel

standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance during any surface development related to Unit 2-2.

Site 42UN 2566 (see Maps 4 and 32)

This site is situated on a bench overlooking a wide drainage to the north. The site consists of a small scatter of lithic debitage, comprised mostly of Parachute Creek Chert, and three tools, also composed of Parachute Creek Chert. A fragment of oxidized sandstone was also noted at the site.

Nat. Register Status: Not Significant

Justification: Site lacks depth potential and context integrity. This site does not meet the standards for significance under criterion d established in 36 FR 60.6.

Recommendation: Avoidance.

Isolated Artifacts

A total of four isolated diagnostic artifacts was observed and recorded during the evaluations within these seven acreage tracts. A number of isolated tap and test flakes and discarded bifaces probably related to butchering episodes was also observed during the inventories; these artifacts were too numerous to warrant reporting.

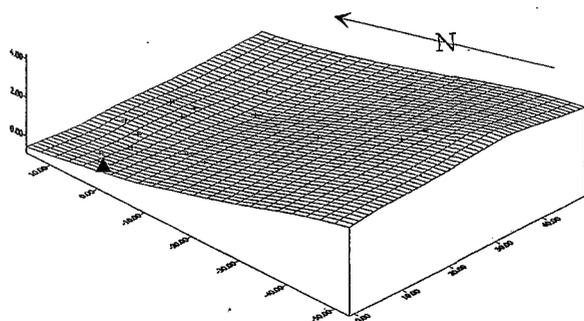
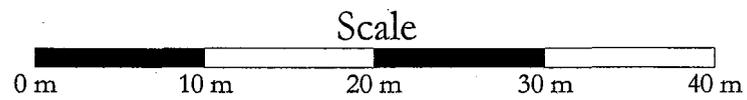
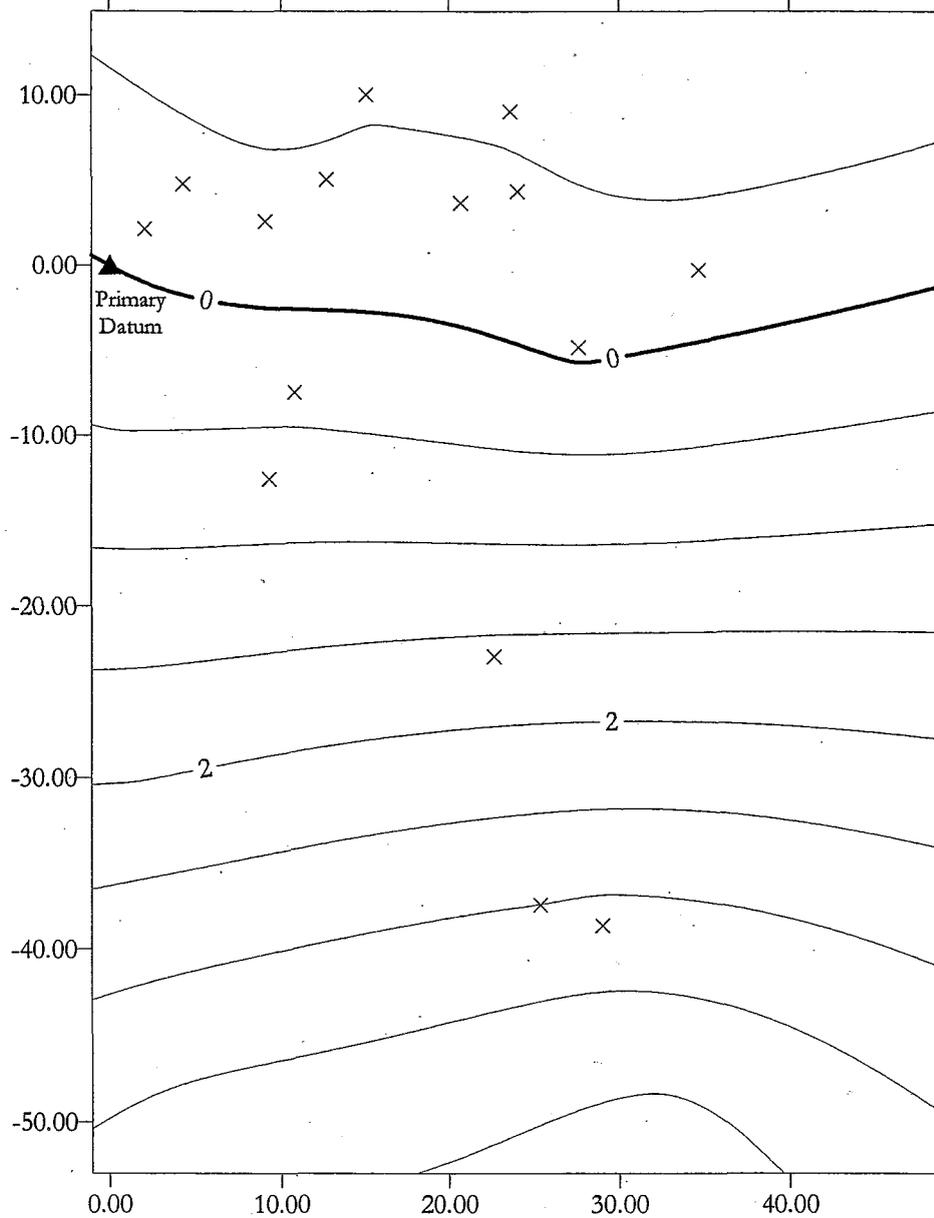
Isolated artifact **1598B/x1** (see Figure 5A) was collected in the southeast quarter of Section 3, Township 9 South, Range 16 East (see Map 3). It consists of a fragmented Paleoindian projectile point possibly of the Plainview variety. The base is missing so that it is not possible to determine the most pertinent diagnostics for this artifact. It was constructed from tan chert of unknown geological origin.

Isolated artifact **1598K/x2** (see Figure 5B) was collected in the southwest quarter of Section 2, Township 9 South, Range 16 East (see Map 3). It consists of a complete Archaic or late Paleoindian dart point manufactured from dark gray oolitic chert of unknown geological origin.

Isolated artifact **1598R/x1** (see Figure 5D) was collected in the northwest quarter of Section 22, Township 9 South, Range 17 East (see Map 6). It consists of the proximal fragment of a highly patinated bifacially prepared tool which may be a Paleoindian projectile point of the Midland type. It was manufactured from locally available Parachute Creek Chert.

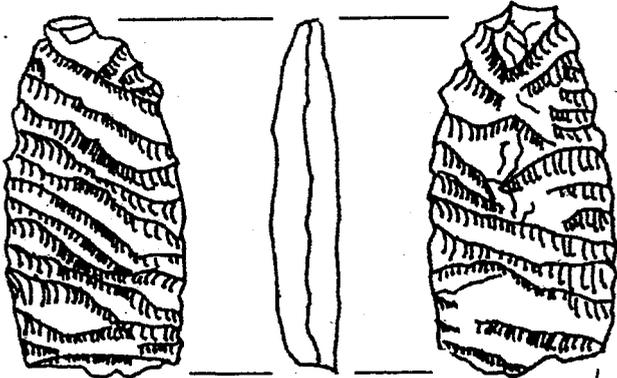
Isolated artifact **1598R/x2** (see Figure 5C) was collected in the northeast quarter of Section 22, Township 9 South, Range 17 East (see Map 6). It consists of a nearly intact Pinto dart point of Early Archaic origin. This tool was prepared from either a variant of Parachute Creek Chert or is a type of chert derived from an unknown geological origin.

MAP 32: SITE 42UN 2566



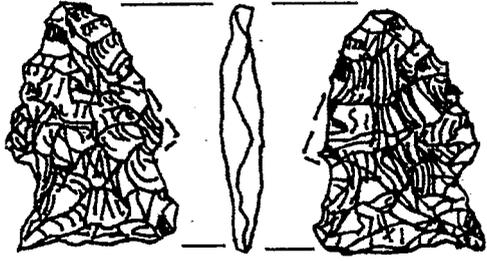
Legend

- ▲ Primary Datum
- × Artifact Location



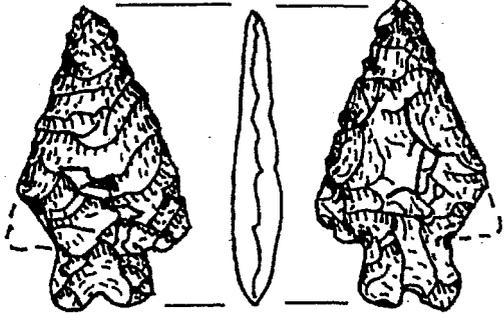
A

1598B/x1

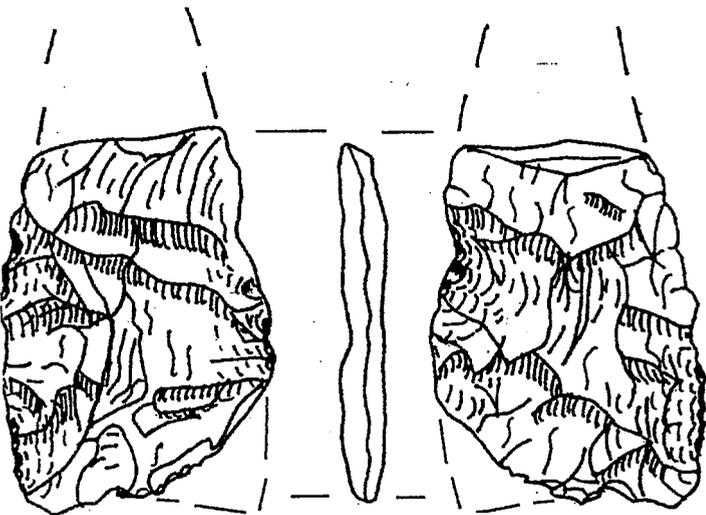


B

1598K/x2



1598R/x2



D

1598R/x1

FIGURE 5

Paleontological Assessments

Three paleontological loci were observed during the survey. These loci include an intact turtle, mandible fragments from an oreodont, and an intact crocodile mandible. A separate report on these loci has been prepared by Rod Sheetz, consulting paleontologist (see Sheetz 1998).

DISCUSSION

In any assessment of this type, it is useful to identify the site densities that are apparent in the data. In *ARCHAEOLOGICAL EVALUATIONS OF THE NORTHERN COLORADO PLATEAU* (AERC Paper No. 45), a basic ratio of sites per acre is used to quantify observed densities (cf., Hauck 1991:45). The site:acre ratios noted for Uinta Basin studies in that report begin at 1:050 as recorded during the Texas-Missouri Creek study conducted by Gordon and Kranzush (Gordon, et al. 1983). The high end of the spectrum is a ratio of 1:850 recorded during the U-a and U-b Oil shale lease study (Berry and Berry 1976). These various ratios were ranked as I, II, III, and IV. The rank density of I ranged between 1:32 and 1:78 ratios. Rank II ratios ranged between the ratios 1:97 and 1:132. Rank III ratios were between 1:201 and 1:273. Finally, the rank IV ratios were between 1:327 and 1:540.

With 28 sites reported in the 3,919 acres reported herein, a basic ratio of 1 site per 139.9 acres is identified, or 1:140, for the entire project area. This ratio is associated with the low end of rank II densities. It is comparable with the 1:152 ratio generated during AERC's 1989 inventory in the Red Wash locality to the east (Hauck, et al. 1990) but less dense than the 1:110 ratio defined during AERC's Mapco sample inventories in this general locality (Hauck and Norman 1980).

The site density within the Inland study varies from tract to tract. For instance, in the 689 acres evaluated in the Ashley Unit west of Wells Draw, one site is reported. This locality thus exhibits a low density ratio of 1:689 (falling in low end of rank IV) which is significantly less dense than the rank II ratio of 1:103 identified in the South Wells Draw Unit where 12 sites are reported in 1,240 acres. The two other Units provided ratios closer to the general project mean of 1:140: the Odekirk Springs Unit (12 sites in 1,529 acres) has a ratio of 1:127(rank II), while the South Pleasant Valley Unit (3 sites in 461 acres) exhibits a ratio of 1:154(lower end of rank II).

The site density ratios registered throughout the Inland project area are not the only interesting factor revealed during this study. The number of Paleoindian projectile points recovered from sites and as isolated finds is also very significant. Points having a definite Paleoindian origin are shown as Figures 1A, 1C, 1D, 2B, 5A and 5D. Possible Plano-Early Archaic transitional points include those shown in Figures 1B, 4, and 5B. The remaining diagnostics are mostly derived from Early Archaic contexts and include Figures 2A, 3B, and 5C. Figure 3C is thought to be an Elko Rocker side-notch of Middle Archaic derivation.

If our assessment of these diagnostic artifacts is correct, 46% of the diagnostic points recovered are Paleoindian, and 69% are both definite and possible Paleoindian. Only 30% of the diagnostics are definitely of Archaic derivation--and these are all of Early to Middle Archaic origin. The lack of Late Archaic, Formative (with the exception of the Late Formative pot-drop site, 42DC 1155), and Late Prehistoric (Shoshonean/Ute) in the project area is also very significant. Our assessment is that water and associated flora and fauna were readily available from the late Pleistocene into the early Holocene within this Castle Peak Draw to Pariette Bench locality. Those resources began to diminish by 7,000 years B.P. (before present) during the Early Archaic and were definitely lost by the end of the Middle Archaic or ca. 4,600 years B.P. accounting for the rapid reduction of hunting occupations and sites in this locality after that date. Further research needs to be initiated to address the viability of this hypothesis.

CONCLUSION AND RECOMMENDATIONS

AERC recommends that a cultural resource clearance be granted to Inland Resources, Inc. relative to the development within these various land parcels based upon adherence to the following stipulations:

1. Sites 42DC 1149, 1150, 1158, 1159, 1161, 1162, 1174, 1175 and 42UN 2535, 2537, 2538, and 2552 should be avoided during any development within the Inland tracts. These sites are significant resources and should be protected from disturbance and vandalism.
2. all vehicular traffic, personnel movement, construction and restoration operations should be confined to the surveyed zones and to the existing roadways;
3. all personnel should refrain from collecting artifacts and from disturbing any cultural resources in the area; and
4. 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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- 1994b Cultural Resource Evaluation of Proposed Water Injection Line Lateral Segments in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-94-4, Archeological-Environmental Research Corporation, Bountiful.
- 1994c Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Pariette Draw - Castle Peak Draw - Eight Mile Flat Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-94-9, Archeological-Environmental Research Corporation, Bountiful.
- 1994d Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Castle Peak Draw and Eight Mile Flat Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-94-10, Archeological-Environmental Research Corporation, Bountiful.
- 1994e Cultural Resource Evaluation of Two Proposed Balcron Monument State Well Locations and Access Routed in the Castle Draw Locality of Uintah County, Utah. Report prepared for Balcron Oil Company, BLCR-94-10b, Archeological-Environmental Research Corporation, Bountiful.

- 1994f Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Monument Buttes and Pleasant Valley Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-94-11, Archeological-Environmental Research Corporation, Bountiful.
- 1995a Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-95-1 & 2, Archeological-Environmental Research Corporation, Bountiful.
- 1995b Cultural Resource Evaluation of Nine Proposed Well Locations and Access Routes in the Castle Peak Draw and Eight Mile Flat Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-95-5, Archeological-Environmental Research Corporation, Bountiful.
- 1995c Cultural Resource Evaluation of a Series of Proposed Water Return Pipeline Routes in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-95-7, Archeological-Environmental Research Company, Bountiful.
- 1997 Cultural Resource Evaluation of the Ashley Unit, South Wells Draw Unit and South Pleasant Valley Unit Lease Areas in the Wells Draw & Pleasant Valley Localities in Duchesne County, Utah Report prepared for Inland Production Company, IPC-97-5A, Archeological-Environmental Research Corporation, Bountiful.
- Hauck, F.R. and G. Norman
1980 Final Report on the Mapco River Bend Cultural Mitigation Study, AERC Paper No. 18 of the Archeological-Environmental Research Corporation, Bountiful.
- Hauck, F.R. and Dennis Weder
1989 Pariette Overlook -- A Paleo-Indian Quarry Site in the Pariette Draw Locality of Uintah County, Utah. AERC Paper No. 42 of the Archeological-Environmental Research Corporation, Bountiful.
- Sheetz, Rod
1998 Locality-Specific Paleontological Assessment. Report prepared for Inland Production Company, Museum of Western Colorado, Grand Junction.
- Stokes, W.L.
1977 Physiographic Subdivisions of Utah. Map 43, Utah Geological and Mineral Survey, Salt Lake City.
- Stokes, W.L. and James H. Madsen
1961 Geologic Map of Utah. College of Mines and Mineral Industries, University of Utah, Salt Lake City.

U.S. Department of the Interior
Bureau of Land Management
Utah State Office
(AERC FORMAT)

PROJECT
Authorization No UT-98-AF-0164bs

Report Acceptable Yes ___ No ___

Mitigation Acceptable Yes ___ No ___

Summary Report of
Inspection for Cultural Resources

Comments: _____

Cultural Resource Evaluation of Various Large Tracts in the
Wells Draw to Pariette Bench Locality of Duchesne & Uintah
Counties, Utah

1. Report Title
Inland Resources, Inc.

2. Development Company _____

7 25 1998

UT-98-54937

3. Report Date 4. Antiquities Permit No. _____

A E R C

IPC - 98 - 4

Uintah &

5. Responsible Institution County Duchesne

6. Fieldwork

Location: TWN 0 9 S . RNG 15 E Sections 12
TWN 0 9 S . RNG 16 E Sections 2, 3, 4, 7, 9, 10
TWN 0 8 S . RNG 17 E Sections 35, 36
TWN 0 9 S . RNG 17 E Sections 2, 15, 18, 22

7. Resource Area Diamond Mountain

8. Description of Examination Procedures: The archeologists directed by R. Hauck, or Glade Hadden, conducted intensive cultural resource evaluations of 7 project tracts situated in the Wells Draw to Pariette Bench locality. The survey was conducted by walking 15 to 20 meter-wide transects in the parcels.

9. Linear Miles Surveyed
and/or 3,919
Definable Acres Surveyed
and/or
Legally Undefinable
Acres Surveyed

10. Inventory Type I
R = Reconnaissance
I = Intensive
S = Statistical Sample

11. Description of Findings: A total of 28 archaeological sites was recorded during this inventory. These sites include 42DC1149, 42DC1150, 42DC 1155-1166, 1171, 1174-1177, and 42Un 2532-2538, 2552 and 2566. Sites 42DC 1149, 1150, 1158, 1159, 1161, 1162, 1174, 1175 and 42UN 2535, 2537, 2538 and 2552 are considered significant resources.

12. Number Sites Found .2.8 (No sites = 0)

13. Collection: .Y.
(Y = Yes, N = No)

14. Actual/Potential National Register Properties Affected:
The National Register of Historic Places (NRHP) has been consulted and no registered properties will be affected by the proposed development.

15. Literature Search, Location/ Date: Utah SHPO 11-6-97 Vernal BLM 3-18-98

16. Conclusion/ Recommendations:

AERC recommends that a cultural resource clearance be granted to Inland Resources, Inc. for the proposed developments based on the following stipulations:

1. All significant sites (42DC 1149, 1150, 1158, 1159, 1161, 1162, 1174, 1175 and 42UN 2535, 2537, 2538 and 2552) should be avoided during any surface disturbance or development in their vicinities.
2. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the surveyed zones and to the existing roadways;
3. All personnel should refrain from collecting artifacts and from disturbing any cultural resources in the area; and
4. 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.

17. Signature of Administrator & Field Supervisor

Administrator:



Field
Supervisor:

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 10/23/2001

API NO. ASSIGNED: 43-013-32315

WELL NAME: MON BUTTE 4-2-9-16
 OPERATOR: INLAND PRODUCTION (N5160)
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NWNW 02 090S 160E
 SURFACE: 0587 FNL 0640 FWL
 BOTTOM: 0587 FNL 0640 FWL
 DUCHESNE
 MONUMENT BUTTE (105)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKD	11/30/01
Geology		
Surface		

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

PROPOSED FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[3] Fee[]
(No. 4471291)
- 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)

LOCATION AND SITING:

- R649-2-3. Unit MONUMENT BUTTE GR "D"
- R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
Board Cause No: 213-1
Eff Date: 8-14-87
Siting: *Gen. Siting
- R649-3-11. Directional Drill

COMMENTS: Need presite. (10-31-01)

STIPULATIONS: 1-Statement of Basis

Casing Schematic

Surface

Intake
8-5/8"
MW 8.4
Frac 19.3

TOC @ 1.
TOC @ 0.
Surface
290. MD

w/12" washout

1700' -
Green River

BOP
BHP

$(0.052)(8.4)(6500) = 2839 \text{ psi}$
Anticipated = 2000 psi

$\frac{Q_{-5}}{0.12}(6500) = 780 \text{ psi}$

MASP = 2059 psi

$\frac{Q_{gas/mud}}{0.22}(6500) = 1430 \text{ psi}$
MASP = 1409 psi

2m BOPE proposed

Adequate

PRD 11/29/01

w/11" washout

Washout
5-1/2"
MW 8.4

Production
6500. MD

Well name:	11-01 Inland Monument Butte 4-2-9-16	
Operator:	Inland Production Company	Project ID:
String type:	Surface	43-013-32315
Location:	Duchesne Co.	

Design parameters:

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

Minimum design factors:

Collapse:
 Design factor 1.125

Burst:
 Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 65 °F
 Bottom hole temperature: 69 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 290 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 0 psi
 Internal gradient: 0.436 psi/ft
 Calculated BHP 127 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: 253 ft

Non-directional string.

Re subsequent strings:
 Next setting depth: 6,500 ft
 Next mud weight: 8.400 ppg
 Next setting BHP: 2,836 psi
 Fracture mud wt: 19,250 ppg
 Fracture depth: 290 ft
 Injection pressure 290 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	290	8.625	24.00	J-55	ST&C	290	290	7.972	14

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	127	1370	10.83	127	2950	23.31	6	244	40.12 J

Prepared by: Dustin K. Doucet
 Utah Dept. of Natural Resources

Phone: 801-538-5281
 FAX: 801-359-3940

Date: November 29, 2001
 Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE
 Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
 Collapse is based on a vertical depth of 290 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.
 Burst strength is not adjusted for tension.

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

Well name:	11-01 Inland Monument Butte 4-2-9-16	
Operator:	Inland Production Company	Project ID:
String type:	Production	43-013-32315
Location:	Duchesne Co.	

Design parameters:

Collapse

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

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 65 °F
 Bottom hole temperature: 156 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 300 ft

Cement top:

1 ft

Burst

Max anticipated surface pressure: 0 psi
 Internal gradient: 0.436 psi/ft
 Calculated BHP: 2,836 psi

No backup mud specified.

Tension:

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

Non-directional string.

Tension is based on air weight.
 Neutral point: 5,674 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	6500	5.5	15.50	J-55	LT&C	6500	6500	4.825	203.8

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	2836	4040	1.42	2836	4810	1.70	101	217	2.15 J

Prepared by: Dustin K. Doucet
 Utah Dept. of Natural Resources

Phone: 801-538-5281
 FAX: 801-359-3940

Date: November 29, 2001
 Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
 Collapse is based on a vertical depth of 6500 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.
 Burst strength is not adjusted for tension.

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

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

Operator Name: Inland Production Company
Well Name & Number: Monument Butte 4-2-9-16
API Number: 43-013-32315
Location: 1/4,1/4 NW/NW Sec. 02 T. 09S R. 16E

Geology/Ground Water:

Inland has proposed setting 290' of surface casing at this location. The depth to the base of the moderately saline ground water is estimated to be at around 600'. A search of Division of Water Rights records indicates that no water wells are located within a 10,000 foot radius of the center of Section 2 . The surface formation at this location is the Uinta Formation. The Uinta Formation is made up of interbedded sandstones and shales. The Sandstones are of a discontinuous nature and probably don't represent a significant aquifer. The existing casing should adequately protect any useable ground water.

Reviewer: Brad Hill
Date: 11/14/2001

Surface:

An onsite of the surface area was done by the division to take comment and address issues related to the surface area. SITLA was shown as the surface owner and invited to the onsite meeting on 10/31/01 by telephone; the Division of Wildlife Resources was also invited to the onsite meeting. The operator has proposed the existing roadway through northern portion of location be re-routed or rap around location to the north. An adjacent drainage to the south appears dry at surface, however, if blasting is done to construct reserve pit or if found to leak or sub from hillside the operator shall take immediate actions to line or empty and discontinue usage of same. No other issues were noted during meeting.

Reviewer: Dennis L. Ingram
Date: 11/07/2001

Conditions of Approval/Application for Permit to Drill:

None.

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

OPERATOR: Inland Production Company
WELL NAME & NUMBER: Monument Butte 4-2-9-16
API NUMBER: 43-013-32315
LEASE: U-16535 **FIELD/UNIT:** Monument Butte
LOCATION: 1/4, 1/4 NW/NW Sec: 02 TWP: 09S RNG: 16E
640' F W L 587' F N L
LEGAL WELL SITING: Statewide 400 foot window in center of 40
acre tract and no closer than 920 feet from
another well.
GPS COORD (UTM): 12 577279E; 4435429N
SURFACE OWNER: SITLA (State Lands)

PARTICIPANTS:

Brad Mecham (Inland Production Company); Dennis L. Ingram (DOGM)

REGIONAL/LOCAL SETTING & TOPOGRAPHY:

Well proposed approximately 9.0 miles south of Highway 40 off
Well Draw/Pleasant Valley access on southern edge of east/west
bench overlooking a broad series of east sloping drainages in
tabletop-desert type habitat.

SURFACE USE PLAN:

CURRENT SURFACE USE: Livestock grazing, recreational
hunting, and wildlife use.

PROPOSED SURFACE DISTURBANCE: At present, a two-track lease
road runs through proposed location just north of wellbore
and shall be re-routed or rap around location to north.
Location proposed as 305'x 142' plus reserve pit and
additional surface use for surface soil and reserve pit
storage.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: See map
generated from GIS data base

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: All
equipment shall remain onsite, such as tanks, pump jack,
etc. with gas lines connected to existing pipelines in
immediate area.

SOURCE OF CONSTRUCTION MATERIAL: Native cut and fill using

borrowed material.

ANCILLARY FACILITIES: None planned or requested during onsite

WASTE MANAGEMENT PLAN:

Was attached and submitted to the division with APD under Thirteen Point Surface Program, item 7.

ENVIRONMENTAL PARAMETERS:

AFFECTED FLOODPLAINS AND/OR WETLANDS: Dry wash immediately to south

FLORA/FAUNA: Shadscale community typical of desert region with good ground cover (grasses, shadscale, prickly-pear cactus, etc.). Primary antelope range with mule deer and mountain plover potential, having coyotes, rabbit, bobcat, mountain lion, owl, raptures and smaller birds and insects.

SOIL TYPE AND CHARACTERISTICS: Fine-grained light tan sandy loam with some clays present.

EROSION/SEDIMENTATION/STABILITY: active but minor erosion, some sedimentation, no stability problems anticipated.

PALEONTOLOGICAL POTENTIAL: None observed during onsite visit

RESERVE PIT:

CHARACTERISTICS: Proposed in cut on south/southwest side of location and keeping the wellbore and reserve pit parallel to prevailing winds and measuring 40'x 80'x 8' deep

LINER REQUIREMENTS (Site Ranking Form attached): 15 points

SURFACE RESTORATION/RECLAMATION PLAN:

According to SITLA at time of reclamation

SURFACE AGREEMENT: Yes

CULTURAL RESOURCES/ARCHAEOLOGY: Attached to APD and submitted to the Division.

OTHER OBSERVATIONS/COMMENTS:

Surface area slopes or dips north and east across location.
Surface drops off sharply to the south into drainage beyond
reserve pit. No surface water was noted during onsite or from
map but has sub-surface ground water potential in drainage to
south. Existing road through northern side of location,
existing plastic gas gathering pipelines.

ATTACHMENTS:

Photos of surface area in predrill status

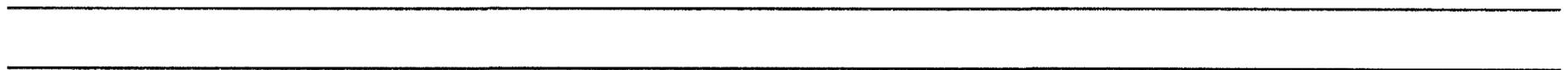
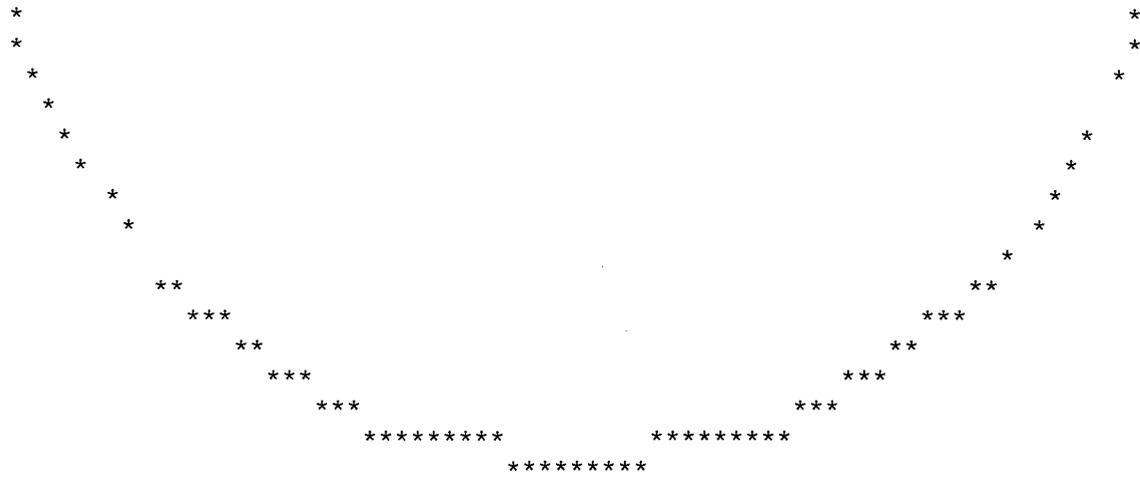
Dennis L. Ingram
DOGM REPRESENTATIVE

11/06/01 2:30 PM
DATE/TIME

**Evaluation Ranking Criteria and Ranking Score
For Reserve and On-site Pit Liner Requirements**

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







State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1694 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

December 3, 2001

Inland Production Company
Route 3 Box 3630
Myton, UT 84052

Re: Monument Butte 4-2-9-16 Well, 587' FNL, 640' FWL, NW NW, 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.

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 43-013-32315.

Sincerely,

for

John R. Baza
Associate Director

er

Enclosures

cc: Duchesne County Assessor
SITLA

Operator: Inland Production Company
Well Name & Number Monument Butte 4-2-9-16
API Number: 43-013-32315
Lease: ML 21839

Location: NW NW 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 actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

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

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

3. **Reporting Requirements**

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

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: INLAND PRODUCTION COMPANY

Well Name: MON BUTTE 4-2-9-16

Api No: 43-013-32315 Lease Type: STATE

Section 02 Township 09S Range 16E County DUCHESNE

Drilling Contractor STUBBS Rig # 111

SPUDDED:

Date 08/30/02

Time 10:30 AM

How DRY

Drilling will commence: _____

Reported by PAT WISENER

Telephone # 1-435-823-7468

Date 08/30/2002 Signed: CHD

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

5. LEASE DESIGNATION AND SERIAL NO. ML - 21839	
6. IF INDIAN, ALLOTTEE OR TRIBAL NAME N/A	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME Monument Butte Gr "D"	
9. M. B. 4-2-9-16 #	
10. FIELD AND POOL, OR WILDCAT Monument Butte	
11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA Sec 2, T9s, R16E	
12. COUNTY OR PARISH Duchesne	13. STATE UT

1. SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.)

OIL GAS
WELL WELL OTHER

2. NAME OF OPERATOR
INLAND PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
**Route 3, Box 3630 Myton, Utah 84052
(435) 646-3721**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
640' FWL & 587' FNL NW/NW

14. API NUMBER
43-013-32315

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5576' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
11.1. WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>	(OTHER) <u>Spud</u> <input checked="" type="checkbox"/>	
(OTHER) _____ <input type="checkbox"/>			

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*
MIRU Stubb's rig # 111. Spud well @ 10:30am on 8/29/02. Drill 12 1/4" hole to a depth of 305'. PU & MU 7 jt's. 85/8" J-55 24# csgn set depth of 311.6'/KB. On 8/30/02 Cement with 145 sks of Class "G" w/ 2% CaCL2 + 1/4# sk Cello-Flake Mixed @ 15.8 ppg > 1.17 cf/sk yeild. 4 bbls cement returned to surface.

18. I hereby certify that the foregoing is true and correct
SIGNED Pat Wisen TITLE Drilling Foreman DATE 09/01/2002

(This space for Federal or State office use)
APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY.

DATE
RECEIVED
SEP 04 2002
DIVISION OF
OIL, GAS AND MINING

* See Instructions On Reverse Side

INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8" CASING SET AT 311.6'

LAST CASING 8 5/8" SET AT 311.6'
 DATUM 10' KB
 DATUM TO CUT OFF CASING _____
 DATUM TO BRADENHEAD FLANGE _____
 TD DRILLER 305 LOGGER _____
 HOLE SIZE 12 1/4

OPERATOR Inland Production Company
 WELL Monument Butte 4-2-9-16
 FIELD/PROSPECT Monument Butte
 CONTRACTOR & RIG # Stubbs # 111

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		41.75' SH JT					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	301.75
		GUIDE shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			303.6
TOTAL LENGTH OF STRING		303.6	7	LESS CUT OFF PIECE			2
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			10
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			311.6
TOTAL		301.75	7	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		301.75	7				
TIMING		1ST STAGE		GOOD CIRC THRU JOB			Yes
BEGIN RUN CSG.		SPUD	08/29/2002	Bbls CMT CIRC TO SURFACE			4
CSG. IN HOLE			10:30am	RECIPROCATED PIPE FOR			THRU FT STROKE
BEGIN CIRC				DID BACK PRES. VALVE HOLD ?			N/A
BEGIN PUMP CMT				BUMPED PLUG TO			98 PSI
BEGIN DSPL. CMT							
PLUG DOWN		Cemented	08/30/2002				
CEMENT USED		CEMENT COMPANY- B. J.					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	145	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield					
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING					
Centralizers - Middle first, top second & third for 3							

RECEIVED

SEP 04 2002

COMPANY REPRESENTATIVE Pat Wisener DIVISION OF OIL, GAS AND MINING DATE 08/30/2002

STATE OF UTAH
 DIVISION OF OIL, GAS AND MINING
 ENTITY ACTION FORM - FORM 6

OPERATOR: INLAND PRODUCTION COMPANY
 ADDRESS: RT. 3 BOX 3630
MYTON, UT 84052

OPERATOR ACCT. NO. N5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPLD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12276	43-013-32330	Wells Draw #14A-34-8-16	SE/SW	34	8S	16E	Duchesne	August 16, 2002	9-5-02 08/16/02

WELL 1 COMMENTS:

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPLD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	10835	43-013-32313	MBS #1A-2-9-16	NE/NE	2	9S	16E	Duchesne	August 19, 2002	9-5-02 08/19/02

WELL 2 COMMENTS:

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPLD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	10835	43-013-32314	MB #2-2-9-16	NW/NE	2	9S	16E	Duchesne	August 28, 2002	9-5-02 08/28/02

WELL 3 COMMENTS:

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPLD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	10835	43-013-32315	MB #4-2-9-16	NW/NW	2	9S	16E	Duchesne	August 29, 2002	9-5-02 08/29/02

WELL 4 COMMENTS:

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPLD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		

WELL 5 COMMENTS:

- ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well or y)
 - B - Add new well to existing entity (group or unit well)
 - C - Re-assign well from one existing entity to another existing entity
 - D - Re-assign well from one existing entity to a new entity
 - E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Ketbia S. Jones
 Signature
 Production Clerk
 September 5, 2002
 Date

P. 02
 FAX NO. 435 846 3031
 INLAND PRODUCTION CO
 SEP-05-02 THU 09:03 AM

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

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NO. ML - 21839	
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)		6. IF INDIAN, ALLOTTEE OR TRIBAL NAME N/A	
OIL <input type="checkbox"/> GAS <input type="checkbox"/> WELL <input checked="" type="checkbox"/> WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR INLAND PRODUCTION COMPANY		8. FARM OR LEASE NAME Monument Butte Gr "D"	
3. ADDRESS OF OPERATOR Route 3, Box 3630 Myton, Utah 84052 (435) 646-3721		9. M. B. 4-2-9-16 #	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 640' FWL & 587' FNL NW/NW		10. FIELD AND POOL, OR WILDCAT Monument Butte	
		11. SEC. T. R. M. OR BLK. AND SURVEY OR AREA Sec 2, T9s, R16E	
14. API NUMBER 43-013-32315	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5576' GR	12. COUNTY OR PARISH Duchesne	13. STATE UT

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

<p>NOTICE OF INTENTION TO:</p> <p>TEST WATER SHUT-OFF <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/></p> <p>FRACTURE TREAT <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/></p> <p>SHOOT OR ACIDIZE <input type="checkbox"/> ABANDON* <input type="checkbox"/></p> <p>REPAIR WELL <input type="checkbox"/> <input type="checkbox"/></p> <p>(OTHER) <input type="checkbox"/></p>	<p>SUBSEQUENT REPORT OF:</p> <p>WATER SHUT-OFF <input type="checkbox"/> REPAIRING WELL <input type="checkbox"/></p> <p>FRACTURE TREATMENT <input type="checkbox"/> ALTERING CASING <input type="checkbox"/></p> <p>SHOOTING OR ACIDIZING <input type="checkbox"/> ABANDONMENT* <input type="checkbox"/></p> <p>(OTHER) <u>Weekly Status report</u> <input checked="" type="checkbox"/></p> <p>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</p>
--	--

17 DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On December 12, 2002. BOP testing was initiated. Bop's, Kelly, TIW, Choke manifold, to 2,000 psi. 85/8" surface csgn was tested to 1,500 psi. Test was witnessed by Dennis Ingram from the Roosevelt office of DOGM. PU & MU 77/8" bit, MM, & BHA. TIH with same. Tag cement @ 260'. Drill out cement & shoe. Drill 77/8" hole with fresh water to a depth of 4535'.

18 I hereby certify that the foregoing is true and correct

SIGNED Pat Wiseman TITLE Drilling Foreman DATE 12/15/2002

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

* See Instructions On Reverse Side

RECEIVED
DEC 20 2002
DIV. OF OIL, GAS & MINING

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

1. SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT-" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NO. <p style="text-align: center;">ML - 21839</p>	
OIL <input type="checkbox"/> GAS <input type="checkbox"/> WELL <input checked="" type="checkbox"/> WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBAL NAME <p style="text-align: center;">N/A</p>	
2. NAME OF OPERATOR <p style="text-align: center;">INLAND PRODUCTION COMPANY</p>		7. UNIT AGREEMENT NAME 	
3. ADDRESS OF OPERATOR <p style="text-align: center;">Route 3, Box 3630 Myton, Utah 84052 (435) 646-3721</p>		8. FARM OR LEASE NAME <p style="text-align: center;">Monument Butte Gr "D"</p>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <p style="text-align: center;">640' FWL & 587' FNL NW/NW</p>		9. <p style="text-align: center;">M. B. 4-2-9-16 #</p>	
10. FIELD AND POOL OR WILDCAT <p style="text-align: center;">Monument Butte</p>		11. SEC. T., R., M. OR BLK. AND SURVEY OR AREA <p style="text-align: center;">Sec 2, T9s, R16E</p>	
14. API NUMBER <p style="text-align: center;">43-013-32315</p>	15. ELEVATIONS (Show whether DF, RT, GR, etc.) <p style="text-align: center;">5576' GR</p>	12. COUNTY OR PARISH <p style="text-align: center;">Duchesne</p>	13. STATE <p style="text-align: center;">UT</p>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	(OTHER) <input type="checkbox"/>
(OTHER) <input type="checkbox"/>	

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(OTHER) <u>Weekly Status report</u> <input checked="" type="checkbox"/>	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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DEC 27 2002

DIV. OF OIL, GAS & MINING

17 DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Weekly Status Report for the period of Dec. 16 thru 22nd.
 Con't to drill 77/8" hole with fresh water to a depth of 6221'. Lay down drill string. Open hole log. PU & MU Guide shoe, 1 jt 5 1/2" csg. Float collar & 143 jt's J-55 15.5 # 5 1/2" csgn. Set @ 6215'/KB. Cement with 550 sks. 50/50 POZ w/3% KCL, 1/4#sk Cello-Flake, 2% Gel, .3%SMS, .05#sk Static free, Mixed @ 14.4PPG >1.24 YLD. Then 300 sks Premlite II w/10% GEL. & 3% KCL mixed to 11.ppg >3.43 YLD. *20 bbls cement to surface. Bump plug to 1862 psi. Nipple down BOP's. Drop slips with 74,000#. Release rig @ 6:00 pm on 12-20-02.

18 I hereby certify that the foregoing is true and correct

SIGNED Pat Wisen TITLE Drilling Foreman DATE 12/23/2002

(This space for Federal or State office use)
 APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 6215.59

Flt cllr @ 6175'

LAST CASING 8 5/8" SET AT 311.6'

OPERATOR Inland Production Company

DATUM 12' KB

WELL Monument Butte 4-2-9-16

DATUM TO CUT OFF CASING _____

FIELD/PROSPECT Monument Butte

DATUM TO BRADENHEAD FLANGE _____

CONTRACTOR & RIG # Eagle # 1

TO DRILLER 6221' LOGGER 6219'

HOLE SIZE 7 7/8"

LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14
		39' @ 4458'					
143	5 1/2"	Newport LT & C casing	15.5#	J-55	8rd	A	6163.3
		Float collar					0.6
1	5 1/2"	Newport LT&C csg	15.5#	J-55	8rd	A	39.04
		GUIDE shoe			8rd	A	0.65

CASING INVENTORY BAL.	FEET	JTS	TOTAL LENGTH OF STRING	6217.59
TOTAL LENGTH OF STRING	6217.59	144	LESS CUT OFF PIECE	14
LESS NON CSG. ITEMS	15.25		PLUS DATUM TO T/CUT OFF CSG	12
PLUS FULL JTS. LEFT OUT			CASING SET DEPTH	6215.59

TOTAL	6202.34	144	} COMPARE
TOTAL CSG. DEL. (W/O THRDS)	6202.34	144	
TIMING	1ST STAGE	2nd STAGE	
BEGIN RUN CSG.	7:30am		GOOD CIRC THRU JOB <u>YES</u>
CSG. IN HOLE	10:30am		Bbls CMT CIRC TO SURFACE <u>20 bbls cement</u>
BEGIN CIRC	11:00am	11:am	RECIPROCATED PIPE FOR <u>THRUSTROKE</u>
BEGIN PUMP CMT	11:55am	12:22pm	DID BACK PRES. VALVE HOLD ? <u>Yes</u>
BEGIN DSPL. CMT	12:46pm		BUMPED PLUG TO <u>1862</u> PSI
PLUG DOWN		1:13pm	

CEMENT USED	CEMENT COMPANY- B. J.		
STAGE	# SX	CEMENT TYPE & ADDITIVES	
1	300	Premlite II w/ 10% gel + 3% KCL, 3#s /sk CSE + 2# sk/kolseal + 1/4#s/sk Cello Flake	
		mixed @ 11.0 ppg W / 3.43 cf/sk yield	
2	550	50/50 poz W/ 2% Gel + 3% KCL, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD	

CENTRALIZER & SCRATCHER PLACEMENT	SHOW MAKE & SPACING
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.	
RECEIVED	
DEC 27 2002	

DIV. OF OIL, GAS & MINING

COMPANY REPRESENTATIVE Pat Wisener DATE 12/21/2002

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

587 FNL 640 FWL NW/NW Section 2, T9S R16E

5. Lease Designation and Serial No.

ML-21839

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

MONUMENT BUTTE 4-2-9-16

9. API Well No.

43-013-32315

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE COUNTY, UTA

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other **Weekly status**

Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Status report for time period 1/6/03 through 1/12/03.

Subject well had completion procedures initiated in the Green River formation on 1/9/03 without use of a service rig over the well. A cement bond log was ran and three intervals were perforated and hydraulically fracture treated using composite flow-through frac plugs between stages. A service rig was moved on well on 1/11/03 and is in the process of drilling out bridge plugs.

RECEIVED

JAN 15 2003

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Gary Dietz Title Completion Foreman Date 1/13/2003

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

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

1. SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NO. ML-21839	
OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBAL NAME N/A	
2. NAME OF OPERATOR INLAND PRODUCTION COMPANY		7. UNIT AGREEMENT NAME NA	
3. ADDRESS OF OPERATOR Rt. 3 Box 3630, Myton Utah 84052 435-646-3721		8. FARM OR LEASE NAME MONUMENT BUTTE 4-2-9-16	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW/NW Section 2, T9S R16E 587 FNL 640 FWL		9. WELL NO. MONUMENT BUTTE 4-2-9-16	
14. API NUMBER 43-013-32315		10. FIELD AND POOL, OR WILDCAT MONUMENT BUTTE	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5576 GR		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW/NW Section 2, T9S R16E	
12. COUNTY OR PARISH DUCHESNE		13. STATE UT	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	(OTHER) <input checked="" type="checkbox"/> Status report
(OTHER) <input type="checkbox"/>	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17 DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Status report for time period 1/13/03 through 1/19/03.

Subject well had completion procedures initiated in the Green River formation on 1/9/02 without use of a service rig over the well. A CBL was ran and three intervals were perforated and hydraulically fracture treated using composite flow-through frac plugs between stages. Fracs were flowed back through chokes. A service rig was moved on well on 1/11/03. Plugs were drilled out and well was cleaned out to PBTD @ 6162'. Zones were swab tested for sand cleanup. A production tbg string was ran in and anchored in well. A 1 1/2" bore rod pump was ran in well on sucker rods. Well was placed on production via rod pump on 1/16/03.

18. I hereby certify that the foregoing is true and correct

SIGNED *Gary Dietz* TITLE Completion Foreman DATE 1/19/2003
 Gary Dietz

cc: BLM
 (This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

* See Instructions On Reverse Side

RECEIVED
 JAN 22 2003
 DIV. OF OIL, GAS & MINING



February 10, 2003

State of Utah, Division of Oil, Gas and Mining
Attn: Ms. Carol Daniels
P.O. Box 145801
Salt Lake City, Utah 84144-5801

Attn: Ms. Carol Daniels

Monument Butte 4-2-9-16 (43-013-32315)
Duchesne County, UT

Dear Ms. Carol Daniels

Enclosed is a Well Completion or Recompletion Report and Log form (Form 3160-4). We are no longer sending Log copies since Dave Jull of Phoenix Surveys is already doing so.

If you should have any questions, please contact me at (303) 382-4449.

Sincerely,

Brian Harris
Engineering Tech

Enclosures

cc: Bureau of Land Management
Vernal District Office, Division of Minerals
Attn: Edwin I. Forsman
170 South 500 East
Vernal, Utah 84078

Well File – Denver
Well File – Roosevelt
Patsy Barreau/Denver
Bob Jewett/Denver
Tara Eisler/Denver

RECEIVED
FEB 12 2003
DIV. OF OIL, GAS & MINING

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

(See other instructions on reverse side)

OMB NO. 1004-0137

Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.

ML-21839

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

Monument Butte GR "D"

8. FARM OR LEASE NAME, WELL NO.

MB 4-2-9-16

9. WELL NO.

43-013-32315

10. FIELD AND POOL OR WILDCAT

Monument Butte

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 2 Twp. 9S Rng. 16E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WORK

OIL WELL [X] GAS WELL [] DRY [] Other []

1b. TYPE OF WELL

NEW WELL [X] WORK OVER [] DEEPEN [] PLUG BACK [] DIFF RESVR. [] Other []

2. NAME OF OPERATOR

INLAND RESOURCES INC.

3. ADDRESS AND TELEPHONE NO.

410 17th St. Suite 700 Denver, CO 80202

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)*

At Surface 640' FWL & 640' FNL (NWNW) Sec. 2 Twp. 9S Rng. 16E

At top prod. Interval reported below

At total depth

14. API NO. 43-013-32315 DATE ISSUED 12/03/01

12. COUNTY OR PARISH

Duchesne

13. STATE

UT

15. DATE SPURRED

8/29/02

16. DATE T.D. REACHED

12/19/02

17. DATE COMPL. (Ready to prod.)

1/16/03

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

5576' GR

19. ELEV. CASINGHEAD

5588' KB

20. TOTAL DEPTH, MD & TVD

6221'

21. PLUG BACK T.D., MD & TVD

6128'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

----->

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)*

Green River 4313'-5450'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIGL/SP/CDL/GR/Cal. 1-13-03

27. WAS WELL CORED

No

23. CASING RECORD (Report all strings set in well)

Table with 6 columns: CASING SIZE/GRADE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, TOP OF CEMENT, CEMENTING RECORD, AMOUNT PULLED. Rows include 8-5/8" - J-55 and 5-1/2" - J-55.

29. LINER RECORD

Table with 5 columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT*, SCREEN (MD). Rows include 2-7/8" size.

30. TUBING RECORD

Table with 3 columns: SIZE, DEPTH SET (MD), PACKER SET (MD). Rows include EOT @ and TA @.

31. PERFORATION RECORD (Interval, size and number)

Table with 4 columns: INTERVAL, SIZE, SPF / NUMBER, DEPTH INTERVAL (MD), AMOUNT AND KIND OF MATERIAL USED. Rows include (B2.A3) 5241-48', (D1) 4909-11', and (GB, PB11) 4712-20'.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

33.* PRODUCTION

Table with 8 columns: DATE FIRST PRODUCTION, PRODUCTION METHOD, WELL STATUS, DATE OF TEST, HOURS TESTED, CHOKER SIZE, PROD'N FOR TEST PERIOD, OIL-BBLS, GAS-MCF, WATER-BBL, GAS-OIL RATIO, FLOW, TUBING PRESS., CASING PRESSURE, CALCULATED 24-HOUR RATE, OIL-BBL., GAS-MCF, WATER-BBL., OIL GRAVITY-API (CORR.).

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold & Used for Fuel

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED

Brian Harris

TITLE

Engineering Technician

DATE 2/10/2003

RECEIVED

BDH

*(See Instructions and Spaces for Additional Data on Reverse Side)

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

FEB 12 2003

DIV. OF OIL, GAS & MINING

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			Monument Butte State 4-2-9-16	Garden Gulch Mkr	4213'	
				Garden Gulch 2	-	
				Point 3 Mkr	4478'	
				X Mkr	4734'	
				Y-Mkr	4769'	
				Douglas Creek Mkr	4891'	
				BiCarbonate Mkr	5137'	
				B Limestone Mkr	5268'	
				Castle Peak	5752'	
				Basal Carbonate	6180'	
				Total Depth (LOGGERS)	6221'	

STATE OF UTAH

DIVISION OF OIL, GAS, AND MINING

<p>1. SUNDRY NOTICES AND REPORTS ON WELLS</p> <p>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use "APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.</p> <p>OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/></p> <p>2. NAME OF OPERATOR INLAND PRODUCTION COMPANY</p> <p>3. ADDRESS AND TELEPHONE NUMBER Rt. 3 Box 3630, Myton Utah 84052 435-646-3721</p> <p>4. LOCATION OF WELL Footages 587 FNL 640 FWL QQ, SEC, T, R, M: NW/NW Section 2, T9S R16E</p>	<p>5. LEASE DESIGNATION AND SERIAL NO. ML-21839</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBAL NAME N/A</p> <p>7. UNIT AGREEMENT NAME MONUMENT BUTTE</p> <p>8. WELL NAME and NUMBER MONUMENT BUTTE 4-2-9-16</p> <p>9. API NUMBER 43-013-32315</p> <p>10. FIELD AND POOL, OR WILDCAT MONUMENT BUTTE</p> <p>COUNTY DUCHESNE STATE UTAH</p>
---	---

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

<p>NOTICE OF INTENT: (Submit in Duplicate)</p> <p><input type="checkbox"/> ABANDON <input type="checkbox"/> NEW CONSTRUCTION</p> <p><input type="checkbox"/> REPAIR CASING <input type="checkbox"/> PULL OR ALTER CASING</p> <p><input type="checkbox"/> CHANGE OF PLANS <input type="checkbox"/> RECOMPLETE</p> <p><input type="checkbox"/> CONVERT TO INJECTION <input type="checkbox"/> REPERFORATE</p> <p><input type="checkbox"/> FRACTURE TREAT OR ACIDIZE <input type="checkbox"/> VENT OR FLARE</p> <p><input type="checkbox"/> MULTIPLE COMPLETION <input type="checkbox"/> WATER SHUT OFF</p> <p><input checked="" type="checkbox"/> OTHER <u>Dispose Water</u></p>	<p>SUBSEQUENT REPORT OF: (Submit Original Form Only)</p> <p><input type="checkbox"/> ABANDON* <input type="checkbox"/> NEW CONSTRUCTION</p> <p><input type="checkbox"/> REPAIR CASING <input type="checkbox"/> PULL OR ALTER CASING</p> <p><input type="checkbox"/> CHANGE OF PLANS <input type="checkbox"/> RECOMPLETE</p> <p><input type="checkbox"/> CONVERT TO INJECTION <input type="checkbox"/> REPERFORATE</p> <p><input type="checkbox"/> FRACTURE TREAT OR ACIDIZE <input type="checkbox"/> VENT OR FLARE</p> <p><input type="checkbox"/> OTHER _____</p> <p>DATE WORK COMPLETED _____</p> <p>Report results of Multiple Completion and Re Completions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.</p> <p>*Must be accompanied by a cement verification report.</p>
---	---

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depth for all markers and zones pertinent to this work.

Formation water is produced 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 Inland's secondary recovery project.

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

13. NAME & SIGNATURE: Mandie Crozier TITLE Regulatory Specialist DATE 11/13/2003
Mandie Crozier

(This space for State use only)

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

RECEIVED
NOV 17 2003
DIV. OF OIL, GAS & MINING

Corporations Section
P.O.Box 13697
Austin, Texas 78711-3697



Geoffrey S. Connor
Secretary of State

Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

Come visit us on the internet at <http://www.sos.state.tx.us/>

PHONE(512) 463-5555
Prepared by: SOS-WEB

FAX(512) 463-5709

TTY7-1-1

ARTICLES OF AMENDMENT
TO THE
ARTICLES OF INCORPORATION
OF
INLAND PRODUCTION COMPANY

FILED
In the Office of the
Secretary of State of Texas
SEP 02 2004
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

“ARTICLE ONE – The name of the corporation is Newfield Production Company.”

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1st day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs
Susan G. Riggs, Treasurer

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

9/1/2004

FROM: (Old Operator): N5160-Inland Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721	TO: (New Operator): N2695-Newfield Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721
---	--

CA No.

Unit:

MONUMENT BUTTE (GR D)

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
MONUMENT FED 7-34	34	080S	160E	4301331471	10835	Federal	WI	A
MONUMENT BUTTE 2-34	34	080S	160E	4301331745	10835	Federal	OW	S
MONUMENT BUTTE UNIT 16-34	34	080S	160E	4301331913	10835	Federal	OW	P
MONUMENT FED 2A-35	35	080S	160E	4301331437	10835	Federal	OW	P
MON FED 1A-35	35	080S	160E	4301331514	10835	Federal	WI	A
MONUMENT BUTTE FED 4A-35R	35	080S	160E	4301331585	10835	Federal	OW	P
MONUMENT BUTTE 3A-35	35	080S	160E	4301331738	10835	Federal	OW	P
MONUMENT BUTTE ST 6-36	36	080S	160E	4301331571	10835	State	OW	P
MONUMENT BUTTE 4-36	36	080S	160E	4301331573	10835	State	OW	P
MON BUTTE ST 1A-36	36	080S	160E	4301331599	10835	State	WI	A
MON BUTTE 1A-2-9-16	02	090S	160E	4301332313	10835	State	OW	P
MON BUTTE 2-2-9-16	02	090S	160E	4301332314	10835	State	OW	P
MON BUTTE 4-2-9-16	02	090S	160E	4301332315	10835	State	OW	P
MON BUTTE 6-2-9-16	02	090S	160E	4301332316	10835	State	OW	P

K
K
K

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/2004
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/2004
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/2005
- Is the new operator registered in the State of Utah: YES Business Number: 755627-0143
- If **NO**, the operator was contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 2/28/2005
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2005
3. Bond information entered in RBDMS on: 2/28/2005
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005
5. Injection Projects to new operator in RBDMS on: 2/28/2005
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT 0056

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 61BSBDH2912

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919
2. The **FORMER** operator has requested a release of liability from their bond on: n/a*
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05



September 28, 2009

Mr. Dan Jarvis
State of Utah
Division of Oil, Gas and Mining
Post Office Box 145801
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well
Monument Butte #4-2-9-16
Monument Butte Field, Monument Butte Unit, Lease #ML-21839
Section 2-Township 9S-Range 16E
Duchesne County, Utah

Dear Mr. Jarvis:

Newfield Production Company herein requests approval to convert the Monument Butte #4-2-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Sundberg", with a long horizontal line extending to the right.

Eric Sundberg
Regulatory Analyst

RECEIVED
OCT 12 2009
DIV. OF OIL, GAS & MINING

7

NEWFIELD PRODUCTION COMPANY
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL
MONUMENT BUTTE #4-2-9-16
MONUMENT BUTTE FIELD (GREEN RIVER) FIELD
MONUMENT BUTTE UNIT
LEASE #ML-21839
SEPTEMBER 28, 2009

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STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Newfield Production Company
ADDRESS 1001 17th Street, Suite 2000
Denver, Colorado 80202

Well Name and number: Monument Butte #4-2-9-16
Field or Unit name: Monument Butte (Green River), Monument Butte Unit Lease No. ML-21839
Well Location: QQ NW/NW section 2 township 9S range 16E county Duchesne

Is this application for expansion of an existing project? Yes [X] No []
Will the proposed well be used for: Enhanced Recovery? Yes [X] No []
Disposal? Yes [] No [X]
Storage? Yes [] No [X]
Is this application for a new well to be drilled? Yes [] No [X]
If this application is for an existing well,
has a casing test been performed on the well? Yes [] No [X]
Date of test: _____
API number: 43-013-32315

Proposed injection interval: from 4212 to 6180
Proposed maximum injection: rate 500 bpd pressure 1806 psig
Proposed injection zone contains [x] oil, [] gas, and/or [] fresh water within 1/2
mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should accompany this form.

List of Attachments: Attachments "A" through "H-1"

I certify that this report is true and complete to the best of my knowledge.

Name: Eric Sundberg Signature 
Title Regulatory Analyst Date 10/2/09
Phone No. (303) 893-0102

(State use only)
Application approved by _____ Title _____
Approval Date _____

Comments:

Monument Butte #4-2-9-16

Spud Date: 8/29/02
 Put on Production: 1/16/03
 GL: 5576' KB: 5586'

Initial Production: 44 BOPD,
 103 MCFD, 14 BWPD

Proposed Injection Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (303.6')
 DEPTH LANDED: 311.6' KB
 HOLE SIZE: 12 1/4"
 CEMENT DATA: 145 sxs Class "G" mixed cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

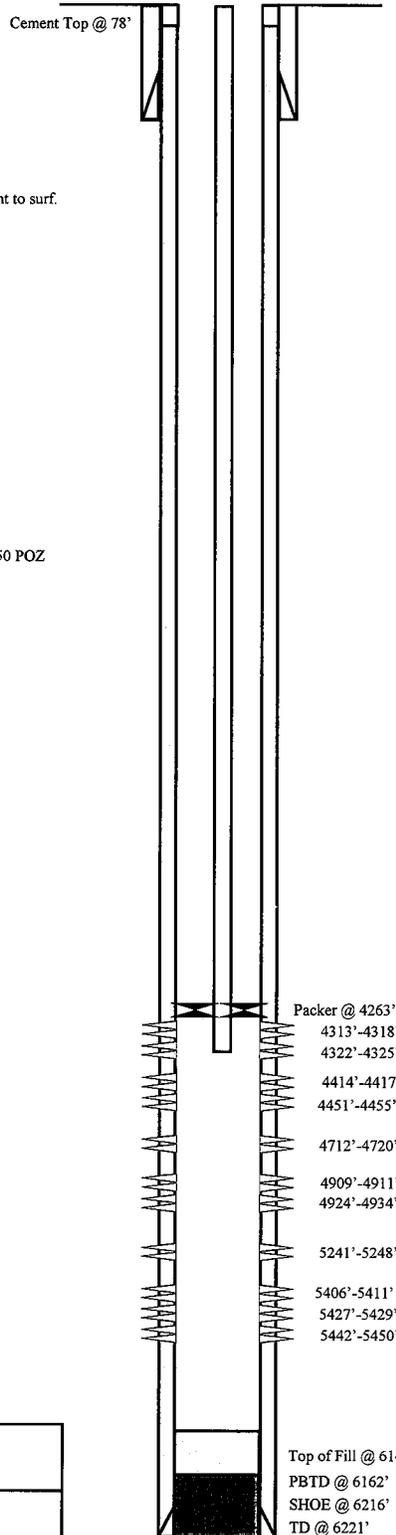
CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 144 jts. (6217.59')
 DEPTH LANDED: 6217.59' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 550 sxs 50/50 POZ mixed.
 CEMENT TOP AT: 78'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 171 jts (5371.06')
 TUBING ANCHOR: 5383.06' KB
 NO. OF JOINTS: 2 jts (62.88')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 5448.69' KB
 NO. OF JOINTS: 2 jts (62.78')
 TOTAL STRING LENGTH: EOT @ 5513.02' w/12' KB

FRAC JOB

1/10/03	5241'-5450'	Frac B2, A3 sands as follows: 79,500# 20/40 sand in 600 bbls Viking I-25 fluid. Treated @ avg press of 1875 psi w/avg rate of 24.6 BPM. ISIP 1840 psi. Calc flush: 5241 gal. Actual flush: 5030 gal.
1/10/03	4909'-4934'	Frac D1 sand as follows: 41,000# 20/40 sand in 429 bbls Viking I-25 fluid. Treated @ avg press of 1829 psi w/avg rate of 24.3 BPM. ISIP 2130 psi. Calc flush: 4909 gal. Actual flush: 4698 gal.
1/10/03	4313'-4720'	Frac GB 2,4,6/ PB11 sands as follows: 100,680# 20/40 sand in 670 bbls Viking I-25 fluid. Treated @ avg press of 2043 psi w/avg rate of 24.3 BPM. ISIP 2230 psi. Calc flush: 4313 gal. Actual flush: 4311 gal.
06/13/03		Pump Change
03/13/06		Pump Change. Update rod and tubing details.
7/1/08		pump change. Updated rod and tubing detail.



PERFORATION RECORD

Date	Depth Range	Perforation Type	Holes
1/9/03	5442'-5450'	4 JSPF	32 holes
1/9/03	5427'-5429'	4 JSPF	8 holes
1/9/03	5406'-5411'	4 JSPF	20 holes
1/9/03	5241'-5248'	4 JSPF	28 holes
1/10/03	4924'-4934'	4 JSPF	40 holes
1/10/03	4909'-4911'	4 JSPF	8 holes
1/10/03	4712'-4720'	4 JSPF	32 holes
1/10/03	4451'-4455'	4 JSPF	16 holes
1/10/03	4414'-4417'	4 JSPF	12 holes
1/10/03	4322'-4325'	4 JSPF	12 holes
1/10/03	4313'-4318'	4 JSPF	20 holes

NEWFIELD

Monument Butte 4-2-9-16
 587' FNL & 640' FWL
 NW/NW Section 2-T9S-R16E
 Duchesne Co, Utah
 API #43-013-32315; Lease #ML-21839

WORK PROCEDURE FOR INJECTION CONVERSION

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
3. Test casing and packer.
4. Rig down and move out.

**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS
RULE R615-5-1**

1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.

2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:

2.1 The name and address of the operator of the project.

Newfield Production Company
1001 17th Street, Suite 2000
Denver, Colorado 80202

2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.

See Attachment A.

2.3 A full description of the particular operation for approval is requested.

Approval is requested to convert the Monument Butte #4-2-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.

2.4 A description of the pools from which the identified wells are producing or have produced.

The proposed injection well will inject into the Green River Formation.

2.5 The names, description and depth of the pool or pools to be affected.

The injection zone is in the Green River Formation. For the Monument Butte #4-2-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (4212' - 6180'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, which ever is shallower. The Garden Gulch Marker top is at 3880' and the TD is at 6221'.

2.6 A copy of a log of a representative well completed in the pool.

The referenced log for the Monument Butte #4-2-9-16 is on file with the Utah Division of Oil, Gas and Mining.

- 2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

- 2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.**

See Attachment B.

- 2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

- 2.10 Any additional information the Board may determine is necessary to adequately review the petition.**

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

- 4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a State lease (Lease #ML-21839) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,
STORAGE AND ENHANCED RECOVERY WELLS
SECTION V – RULE R615-5-2**

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**
 - 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and B.
 - 2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.
 - 2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.
 - 2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.
 - 2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24# surface casing run to 312' KB, and 5-1/2", 15.5# casing run from surface to 6218' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.
 - 2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.
 - 2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.

The proposed average and maximum injection pressures.

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1806 psig.

- 2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.**

The minimum fracture gradient for the Monument Butte #4-2-9-16, for existing perforations (4313' - 5450') calculates at 0.78 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 2254 psig. We may add additional perforations between 3880' and 6221'. See Attachments G and G-1.

- 2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.**

In the Monument Butte #4-2-9-16, the proposed injection zone (4212' - 6180') is in the Garden Gulch to Basal Carbonate of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

- 2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.**

See Attachments E through E-14.

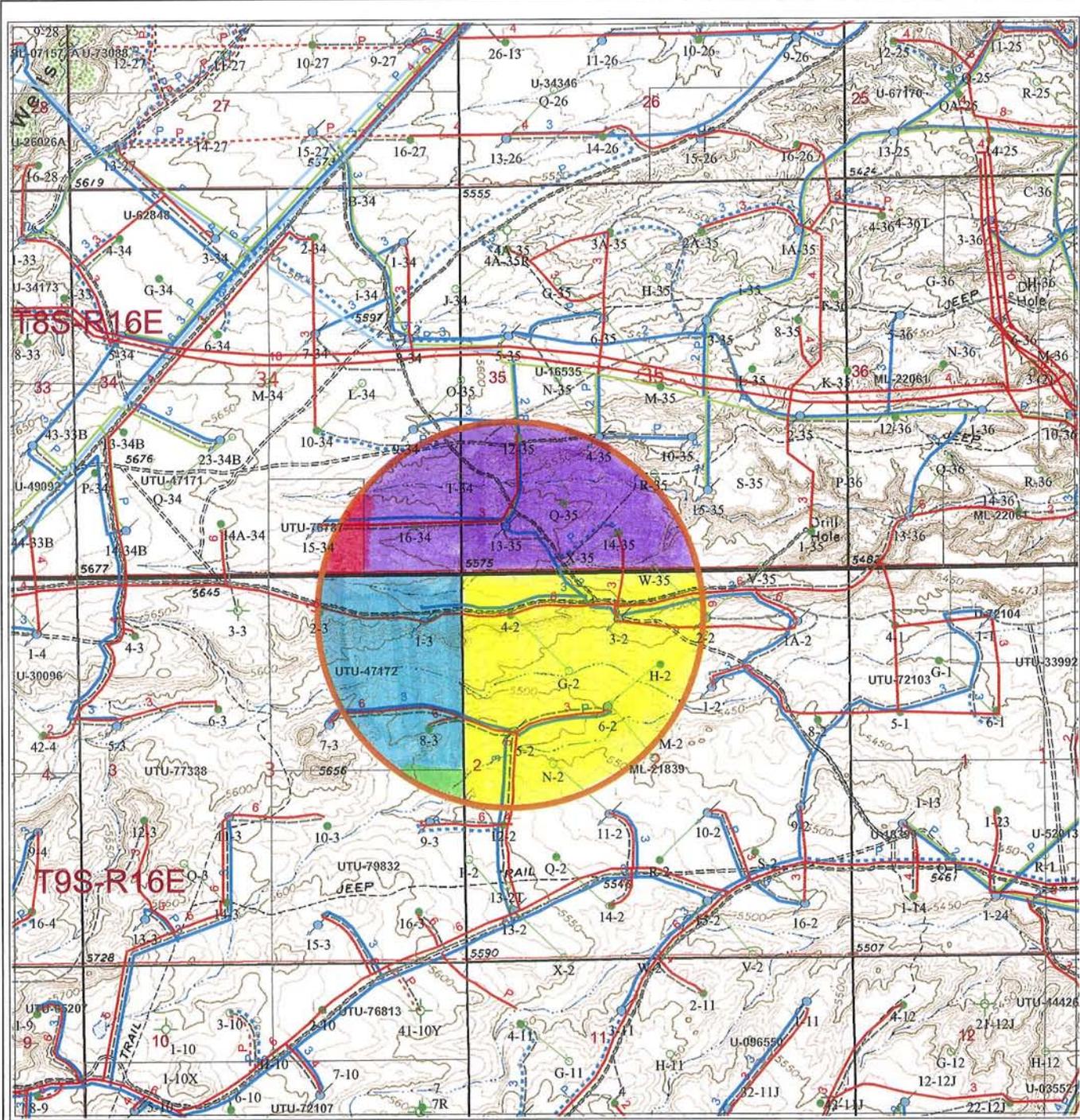
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

- 2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.**

See Attachment C.

- 2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.**

Newfield Production Company will supply any requested information to the Board or Division.



ML-21839
 U-16535
 UTU-74787
 UTU-47172
 UTU-79832

- Well Status**
- Location
 - CTI
 - Surface Spud
 - Drilling
 - Waiting on Completion
 - Producing Oil Well
 - ★ Producing Gas Well
 - Water Injection Well
 - ⊕ Dry Hole
 - ⊖ Temporarily Abandoned
 - ⊖ Plugged & Abandoned
 - ⊖ Shut In
- Injection system**
- high pressure
 - low pressure
 - - - proposed
 - return
 - - - return proposed
- Gas Pipelines**
- Gathering lines
 - - - Proposed lines
 - Leases
 - Mining tracts
 - 4-2-9-16 1/2mile radius

Attachment A

Mon Butte 4-2-9-16
 Section 2, T9S-R16E



NEWFIELD
ROCKY MOUNTAINS

1" = 2000'

1/2 Mile Radius Map
Duchesne & Uintah Counties

1001 17th Street Suite 2000
Denver, Colorado 80202
Phone: (303) 893-0102

September 3, 2009

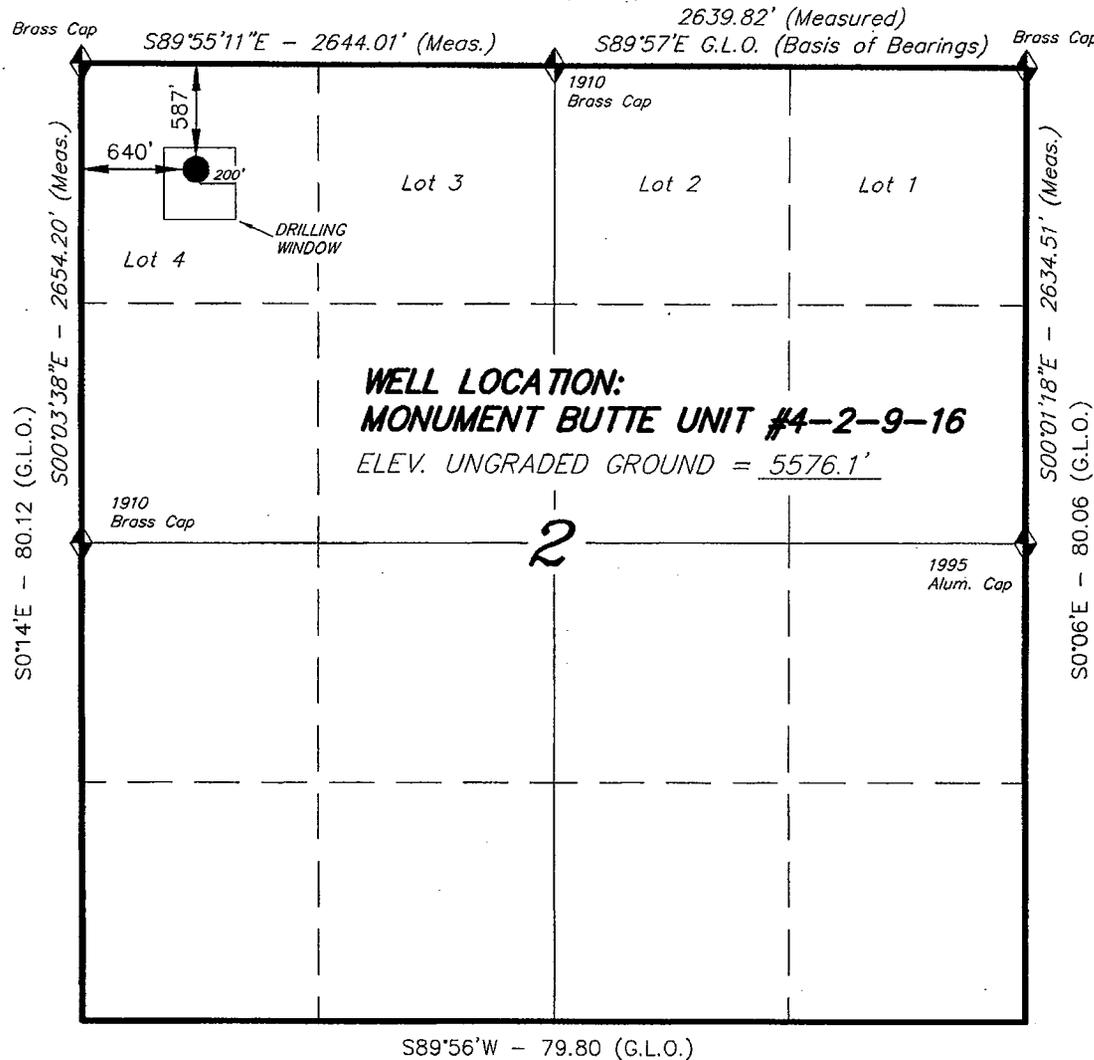
T9S, R16E, S.L.B.&M.

S89°57'E (G.L.O.)

INLAND PRODUCTION COMPANY

WELL LOCATION, MONUMENT BUTTE UNIT #4-2-9-16, LOCATED AS SHOWN IN LOT 4 OF SECTION 2, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

Attachment A-1



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



◆ = SECTION CORNERS LOCATED

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

TRI STATE LAND SURVEYING & CONSULTING

38 WEST 100 NORTH - VERNAL, UTAH 84078
(435) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: G.S. D.J.S.
DATE: 10-3-01	DRAWN BY: J.R.S.
NOTES:	FILE #

EXHIBIT B

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
1.	<u>Township 9 South, Range 16 East</u> Section 2: Lots 1-4, S2N2, S2	ML-21839 HBP	Newfield Production Company 1001 17 th St. Suite 2000 Denver, CO 80202 Davis Brothers Davis Resources 320 S. Boston #1000 Tulsa, OK 74103-3703 AGK Energy LLC 38 Nonohe Pl Paia, HI 96779 Marian Brennan Raymond Brennan 104 Lee Lane Bellville, TX 77418 Deer Valley, LTD 800 Bering Drive, Suite 305 Houston, TX 77057 International Drilling Services 7710 T Cherry Park PMB 503 Houston, TX 77095 Thomas Jackson 7710 T Cherry Park PMB 503 Houston, TX 77095 Beverly Sommer 1025 North Crescent Drive Beverly Hills, CA 90210 Texas General Offshore, Inc 7710 T Cherry Park PMB 503 Houston, TX 77095	(Surface Rights) STATE

EXHIBIT B

Page 2 of 4

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
			Jasper Warren 17350 St Hwy 249 Suite 140 Houston, TX 77064-1140	
2.	<u>Township 8 South, Range 16 East</u> Section 35: ALL Section 34: NE, N2SE, SESE	U-16535 HBP	Newfield Production Company 1001 17 th St Suite 2000 Denver, Co 80202 AGK Energy LLC. 38 Nonohe Pl Paia, HI 96779 Raymond H. Brennan 104 Lee Lane Bellville, TX 77418 Marian Brennan 104 Lee Lane Bellville, TX 77418 Davis Bros LLC Davis Resources 110 West 7 th St. Suite 1000 Tulsa, OK 74119 Deer Valley Ltd. 800 Bering Drive #305 Houston TX 77057 International Drilling Inc 7710-T Cherry Park PMB 503 Houston, TX 77095 Thomas I Jackson 7710-T Cherry Park PMB 503	(Surface Rights) USA

EXHIBIT B

Page 3 of 4

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
			Houston, TX 77095 Beverly Sommer 1025 Crescent Drive Beverly Hills, CA 90210 Texas General Offshore Inc 7710-T Cherry Park PMB 503 Houston, TX 77095 Jasper Warren 17350 State Highway 249 Suite 140 Houston, TX 77064-1140 Whitehall Energy Corp 104 Lee Lane Bellville, TX 77418	
3.	<u>Township 8 South, Range 16 East</u> Section 34: SWSE	UTU-76787 HBP	Newfield Production Company 1001 17 th Street Denver, Co. 80202 Beverly Sommer 1025 North Crescent Drive Beverly Hills, CA 90210 King Oil and Gas of Texas C/O Allan C King 800 Bering Dr. Houston, TX 77057	(Surface Rights) USA
4.	<u>Township 9 South, Range 16 East</u> Section 3: Lots 1, 2, S2NE	UTU-47172 HBP	Newfield Production Company 1001 17 th St. Suite 2000 Denver, CO 80202	(Surface Rights) USA

EXHIBIT B

Page 4 of 4

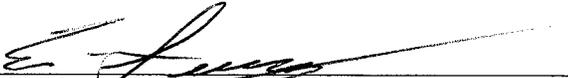
#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
5.	<u>Township 9 South, Range 16 East</u> Section 3: SE Section 4: SESW	UTU-79832 HBP	Newfield Production Company 1001 17 th St. Suite 2000 Denver, CO 80202 Yates Petroleum Corporation 105 South 4 th Street Artesia, NM 88210	(Surface Rights) USA

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well
Monument Butte #4-2-9-16

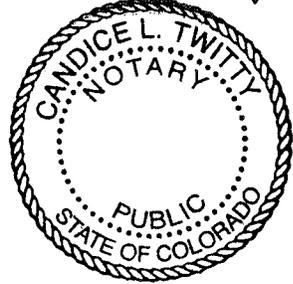
I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed: 
Newfield Production Company
Eric Sundberg
Regulatory Analyst

Sworn to and subscribed before me this 2nd day of October, 2009.

Notary Public in and for the State of Colorado: 

My Commission Expires: 02/10/2013



Monument Butte #4-2-9-16

Spud Date: 8/29/02
 Put on Production: 1/16/03
 GL:5576' KB:5586'

Initial Production: 44 BOPD,
 103 MCFD, 14 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (303.6')
 DEPTH LANDED: 311.6' KB
 HOLE SIZE: 12 1/4"
 CEMENT DATA: 145 sxs Class "G" mixed cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 144 jts. (6217.59')
 DEPTH LANDED: 6217.59' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 550 sxs 50/50 POZ mixed.
 CEMENT TOP AT: 78'

TUBING

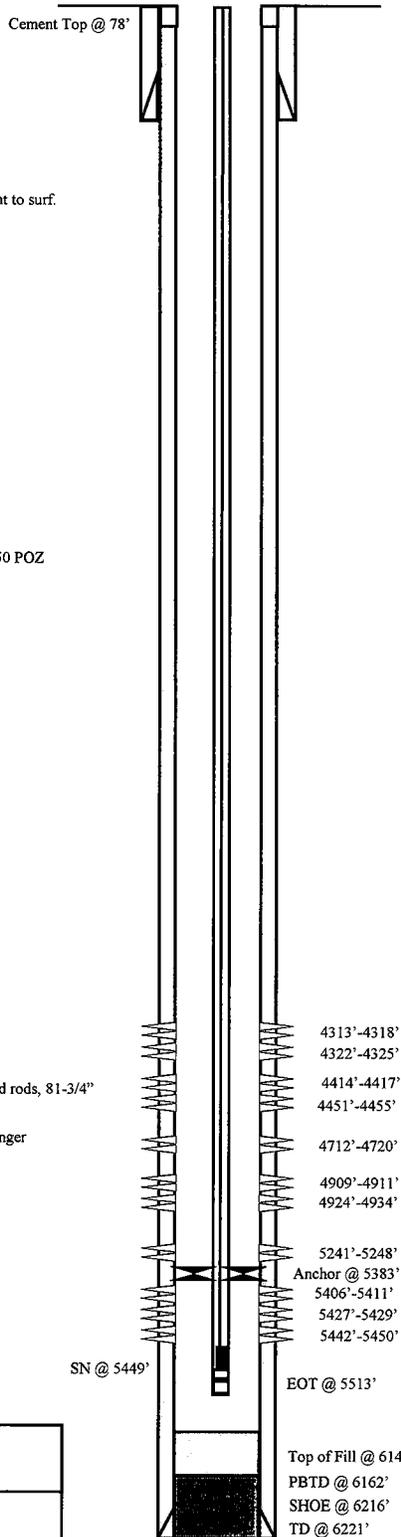
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 171 jts (5371.06')
 TUBING ANCHOR: 5383.06' KB
 NO. OF JOINTS: 2 jts (62.88')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 5448.69' KB
 NO. OF JOINTS: 2 jts (62.78')
 TOTAL STRING LENGTH: EOT @ 5513.02' w/12'KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod
 SUCKER RODS: 1-2", 1-8" X3/4" pony rods, 100-3/4" scraped rods, 81-3/4" plain rods, 30-3/4" scraped rods, 6-1 1/2" weight rods
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 15' RHAC pump w/sm plunger
 STROKE LENGTH: 74"
 PUMP SPEED, SPM: 5 SPM

FRAC JOB

1/10/03	5241'-5450'	Frac B2, A3 sands as follows: 79,500# 20/40 sand in 600 bbls Viking I-25 fluid. Treated @ avg press of 1875 psi w/avg rate of 24.6 BPM. ISIP 1840 psi. Calc flush: 5241 gal. Actual flush: 5030 gal.
1/10/03	4909'-4934'	Frac D1 sand as follows: 41,000# 20/40 sand in 429 bbls Viking I-25 fluid. Treated @ avg press of 1829 psi w/avg rate of 24.3 BPM. ISIP 2130 psi. Calc flush: 4909 gal. Actual flush: 4698 gal.
1/10/03	4313'-4720'	Frac GB 2,4,6/ PB11 sands as follows: 100,680# 20/40 sand in 670 bbls Viking I-25 fluid. Treated @ avg press of 2043 psi w/avg rate of 24.3 BPM. ISIP 2230 psi. Calc flush: 4313 gal. Actual flush: 4311 gal.
06/13/03		Pump Change
03/13/06		Pump Change. Update rod and tubing details.
7/1/08		pump change. Updated rod and tubing detail.



PERFORATION RECORD

Date	Interval	Type	Holes
1/9/03	5442'-5450'	4 JSPF	32 holes
1/9/03	5427'-5429'	4 JSPF	8 holes
1/9/03	5406'-5411'	4 JSPF	20 holes
1/9/03	5241'-5248'	4 JSPF	28 holes
1/10/03	4924'-4934'	4 JSPF	40 holes
1/10/03	4909'-4911'	4 JSPF	8 holes
1/10/03	4712'-4720'	4 JSPF	32 holes
1/10/03	4451'-4455'	4 JSPF	16 holes
1/10/03	4414'-4417'	4 JSPF	12 holes
1/10/03	4322'-4325'	4 JSPF	12 holes
1/10/03	4313'-4318'	4 JSPF	20 holes

NEWFIELD

Monument Butte 4-2-9-16
 587' FNL & 640' FWL
 NW/NW Section 2-T9S-R16E
 Duchesne Co, Utah
 API #43-013-32315; Lease #ML-21839

Monument Butte Fed. #12-35

Spud Date: 6/5/1983
 Put on Production: 11/19/1988
 GL: 5586' KB: 5597'

Initial Production: 33 BOPD,
 80 MCFD, NM BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts.
 DEPTH LANDED: 304'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 210 sxs Class "G" cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 140 jts.
 DEPTH LANDED: 5677'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 300 sxs LoDense & 300 sxs Gypseal
 CEMENT TOP AT: 1144' per CBL

TUBING

SIZE/GRADE/WT.: 2 7/8" / J-55 / 6.5#
 NO. OF JOINTS: 153 jts (4949.24')
 TUBING ANCHOR: 4964.82'
 NO. OF JOINTS: 3 jts
 SEATING NIPPLE: 2 7/8" (1.10')
 SN LANDED AT: 5044.81' KB
 NO. OF JOINTS: 1 jts (32.46')
 TOTAL STRING LENGTH: EOT @ 5078.82'

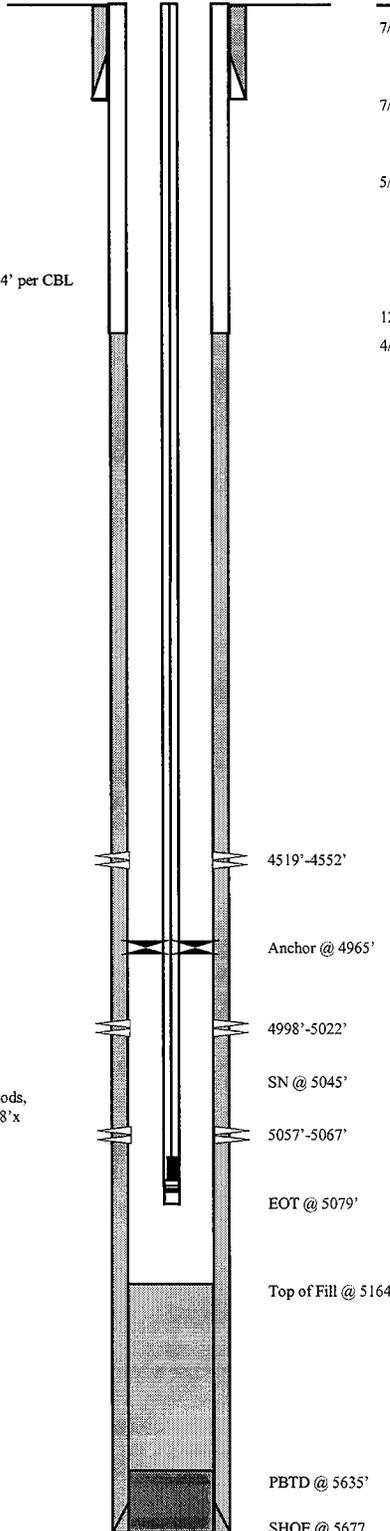
SUCKER RODS

POLISHED ROD: 1 1/2" x 22' SM
 SUCKER RODS: 6-1 1/2" K-bars; 12-3/4" scraped rods; 37-3/4" plain rods,
 6-3/4" scraped rods, 48- 3/4" plain rods, 91- 3/4" scraped rods, 2', 4', 8' x
 3/4 pony rods
 PUMP SIZE: 2 1/2" x 1 1/2" x 12'x16' RHAC
 STROKE LENGTH: 74"
 PUMP SPEED, SPM: 6 SPM
 LOGS: DIGL/SP/GR/CAL

FRAC JOB

7/13/83 5000'-5022' **Frac D-1 sand as follows:**
 124,300# 20/40 sand in 858 bbls Viking I-25 fluid.
 7/13/83 4998'-5022' **Break zones as follows:**
 5057'-5067' 164 bbl. 3% KCl, max press. 2500#, ISIP 1800#.
 5/18/01 4519'-4552' **Frac GB-6 sand as follows:**
 146,000# 20/40 sand in 910 bbls Viking I-25 fluid. Treat @ avg. pressure of 2100 psi at 29.8 BPM. ISIP 2430 psi. Calc. Flush: 4519 bbl. Act. Flush: 4326 bbl. Flow 7 hrs. then died.
 12/26/01 Rod job. Update rod and tubing details.
 4/18/03 Tubing leak. Update rod and tubing details.

Cement Top @ 1144' per CBL



PERFORATION RECORD

Date	Interval	Method	Holes
7/12/83	4998'-5022'	4 JSPF	96 holes
7/13/83	5057'-5067'	4 JSPF	40 holes
5/17/01	4519'-4552'	4 JSPF	132 holes



Monument Butte Fed. #12-35
 779' FWL & 1839' FSL
 NWSW Section 35-T8S-R16E
 Duchesne Co, Utah
 API #43-013-30744; Lease #U-16535

Monument Butte Fed. 4-35-8-16

Spud Date: 6/18/1982
 Put on Production: 8/11/1982
 Put on Injection: 2/05/89
 GL: 5565' KB: 5577'

Initial Production: 191 BOPD,
 NM MCFD, 2 BWPD

Injection Wellbore
 Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 6 jts.
 DEPTH LANDED: 236' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: Cement to surface.

PRODUCTION CASING

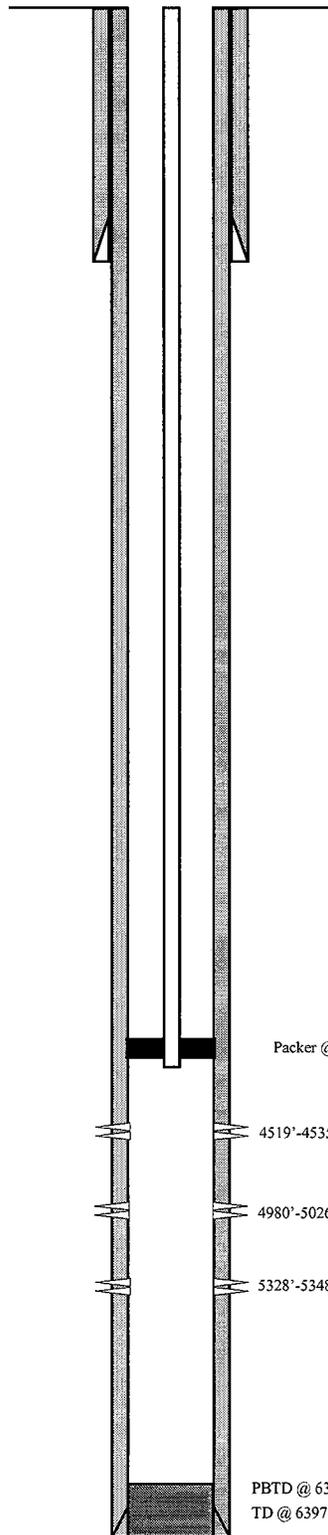
CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 17#
 LENGTH: 141 jts.
 DEPTH LANDED: 5643' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 265 sxs Lite & 280 sxs 50/50 POZ.
 CEMENT TOP AT: ? per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 140 jts
 SEATING NIPPLE: 2-7/8" (1.10")
 SN LANDED AT: 4412' KB
 PACKER AT: 4413' KB
 TOTAL STRING LENGTH: EOT @ 4420' KB

FRAC JOB

7/27/82	5328'-5348'	Frac zone as follows: 84,500# 20/40 sand in 845 bbls gelled frac fluid. Treated @ avg press of 2100 psi w/avg rate of 30 BPM. ISIP 2000 psi. Calc flush: 5328 gal. Actual flush: 5328 gal.
8/01/82	4992'-5026'	Frac zone as follows: 104,000# 20/40 sand in 1142 bbls gelled frac fluid. Treated @ avg press of 2000 psi w/avg rate of 30 BPM. ISIP 2500 psi. Calc flush: 4992 gal. Actual flush: 4992 gal.
2/14/85	4519'-4535'	Frac zone as follows: 46,800# 20/40 sand in 488 bbls gelled frac fluid. Treated @ avg press of 2800 psi w/avg rate of 30 BPM. ISIP 2830 psi. Calc flush: 4519 gal. Actual flush: 3450 gal.
2/2/89		Convert to injector.
6/18/08		5 Year MIT completed and submitted.



PERFORATION RECORD

7/25/82	5328'-5348'	1 JSPF	20 holes
7/31/82	5005'-5026'	1 JSPF	21 holes
7/31/82	4992'-5005'	1 JSPF	14 holes
2/14/85	4519'-4535'	4 JSPF	64 holes
2/02/89	4992'-5026'	3 JSPF	102 holes
2/02/89	4980'-4992'	4 JSPF	48 holes



Monument Butte Fed. 4-35
 1836' FSL & 1883' FWL
 NESW Section 35-T8S-R17E
 Duchesne Co, Utah
 API #43-013-30605; Lease #U-16535

Monument Butte Q-35-8-16

Spud Date: 5-18-08
Put on Production: 6-23-08

GL: 5591' KB: 5603'

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (310.30')
DEPTH LANDED: 322.15'
HOLE SIZE: 12-1/4"
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 3 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 143 jts (6517.91)
DEPTH LANDED: 6531.16'
HOLE SIZE: 7-7/8"
CEMENT DATA: 300 sx Premlite II and 450 sx 50/50 Poz
CEMENT TOP AT: 190'

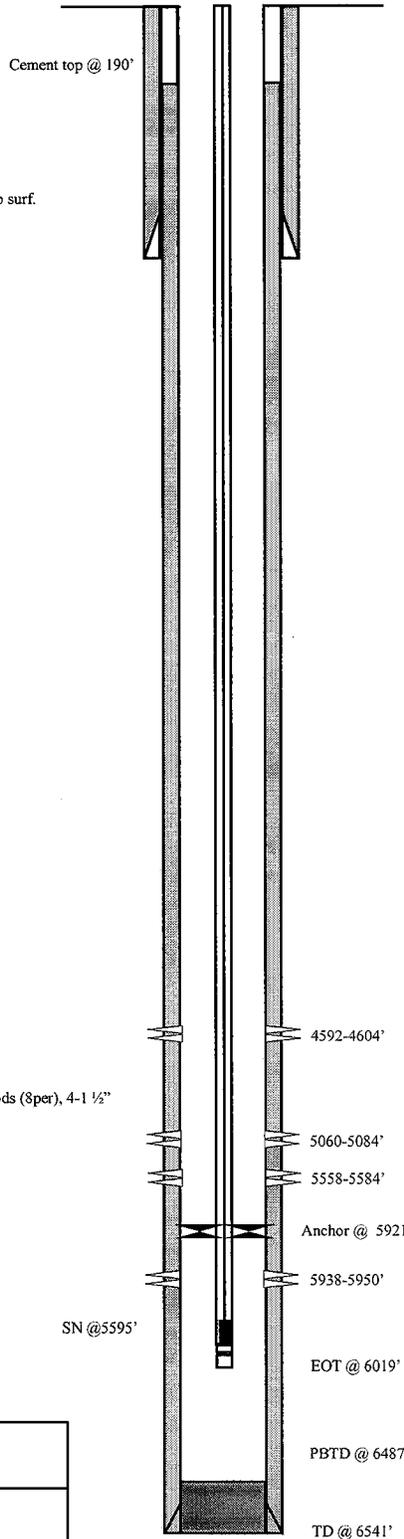
TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 188 jts (5908.84')
TUBING ANCHOR: 5920.84'kb
NO. OF JOINTS: 1jt (31.30')
SEATING NIPPLE: 1.10'
SN LANDED AT: 5954.94'
NO. OF JOINTS: 2jts (62.92')
TOTAL STRING LENGTH: EOT @ 6019.41'

SUCKER RODS

POLISHED ROD: 1-1/2" x 26'
SUCKER RODS: 1-2', 6'x7/8" pony rods, 233-7/8" guided rods (8per), 4-1 1/2" weight bars.
PUMP SIZE: 1-1/2" x 2 1/2" x 16 x 20' RHAC rod pump
STROKE LENGTH:
PUMP SPEED, SPM: 5

Wellbore Diagram



Initial Production: BOPD,
MCFD, BWPD

FRAC JOB

6-17-08 5938-5950' **Frac CP.5 sds as follows:**
19,945# 20/40 sand in 339 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2264 psi @ ave rate of 23.3 BPM. ISIP 1981 psi. Actual flush: 5418 gals.

6-17-08 5558-5584' **Frac A1 sds as follows:**
160,780# 20/40 sand in 1113 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1421 psi @ ave rate of 26.2 BPM. ISIP 2010 psi. Actual flush: 5040 gals.

6-17-08 5060-5084' **Frac D1 sds as follows:**
40,231# 20/40 sand in 412 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1962 psi @ ave rate of 23.3 BPM. ISIP 2408 psi. Actual flush: 4540 gals.

6-17-08 4592-4604' **Frac GB6 sds as follows:**
46,614# 20/40 sand in 434 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2016 psi @ ave rate of 23.2 BPM. ISIP 2278 psi. Actual flush: 4498 gals.

PERFORATION RECORD

4592-4604'	4 JSPF	48 holes
5060-5084'	4 JSPF	96 holes
5558-5584'	4 JSPF	104 holes
5938-5950'	4 JSPF	48 holes

NEWFIELD

Monument Butte Q-35-8-16

1821' FSL & 764' FWL

NE/SW Section 35-T8S-R16E

Duchesne Co, Utah

API # 43-013-33752; Lease # UTU-16535

Monument Butte Federal 16-34-8-16

Spud Date: 10/1/97
 Put on Production: 11/15/97
 GL: 5605.7' KB: 5617.7'

Initial Production: 65 BOPD,
 85 MCFPD, 46 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (299')
 DEPTH LANDED: 298'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 120 sxs Premium cement, est 5 bbls to surface

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 140 jts. (6006')
 DEPTH LANDED: 5999'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 420 sk Hibond mixed & 390 sxs Thixotropic
 CEMENT TOP AT: 1100'

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#
 NO. OF JOINTS: 174 jts. (5432.13')
 TUBING ANCHOR: 5446.13'
 NO. OF JOINTS: 3 jts. (91.88)
 SEATING NIPPLE: 2-7/8"
 SN LANDED AT: 5542.81'
 NO. OF JOINTS: 2 jts. (62.64')
 TOTAL STRING LENGTH: 5611.00'

SUCKER RODS

POLISHED ROD: 1 1/2" X 22' polish
 SUCKER RODS: 4-1 1/2" wt rods; 4-3/4" scraped; 120-3/4" plain; 93-3/4" scraped; 1-6" x3/4" pony rod
 PUMP SIZE: 2-1/2 x 1-1/2" x 16' RHAC
 STROKE LENGTH: 74"
 PUMP SPEED, SPM: 5 SPM

FRAC JOB

11/5/97 5488'-5527' **Frac A sand as follows:**
 97,300# 20/40 sand in 509 bbls Boragel. Breakdown @ 3396 psi. Treated @ avg press of 1800 psi w/avg rate of 26.3 BPM. ISIP-2336 psi, 5 min 2104 psi. Flowback on 12/64" ck for 3-1/2 hrs & died.

11/7/97 5294'-5300' **Frac B sand as follows:**
 88,400# 20/40 sand in 482 bbls Boragel. Breakdown @ 3450 psi. Treated @ avg press of 2550 psi w/avg rate of 24 BPM. ISIP-2383, 5 min 2315. Flowback on 12/64" ck for 3-1/2 hrs & died.

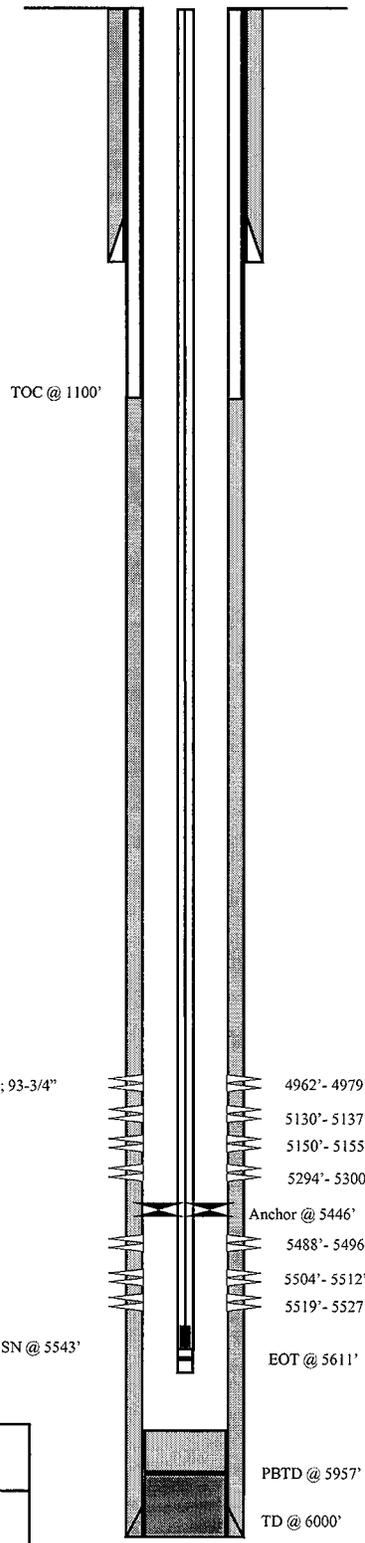
11/9/97 5130'-5155' **Frac C sand as follows:**
 97,300# 20/40 sand in 498 bbls Boragel. Breakdown @ 2719 psi. Treated @ avg press of 2200 psi w/avg rate of 24 BPM. ISIP-2586 psi, 5 min 2536 psi. Flowback on 12/64" ck for 3-1/2 hrs & died.

11/12/97 4962'-4979' **Frac D sand as follows:**
 88,300# 20/40 sand in 474 bbls Boragel. Breakdown @ 2844 psi. Treated @ avg press of 2000 psi w/avg rate of 24 BPM. ISIP-2534 psi, 5 min 2460 psi. Flowback on 12/64" ck for 4 hrs & died.

8/23/01 Rod job. Updated rod and tubing details.

02/27/06 Pump Change. Update rod and tubing details.

5/19/09 Tubing Leak. Updated r & t details.



PERFORATION RECORD

Date	Interval	Holes	Notes
11/5/97	5488'-5496'	4 JSPF	32 holes
11/5/97	5504'-5512'	4 JSPF	32 holes
11/5/97	5519'-5527'	4 JSPF	32 holes
11/6/97	5294'-5300'	4 JSPF	24 holes
11/8/97	5130'-5137'	4 JSPF	28 holes
11/8/97	5150'-5155'	4 JSPF	20 holes
11/11/97	4962'-4979'	4 JSPF	68 holes

NEWFIELD

Federal 16-34-8-16
 660 FSL & 660 FEL
 SE/SE Section 34-T8S-R16E
 Duchesne Co, Utah
 API #43-013-31913; Lease #UTU-16535

Monument Butte Fed. #13-35

Spud Date: 3/28/84
 Put on Production: 5/08/84
 Put on Injection: 1/13/89
 GL: 5586' KB: 5602'

Initial Production: 64 BOPD,
 119 MCFG, NM BWPD

Injection
 Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts 271' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 210 sxs Class "G" cmt, cmt to surface.

PRODUCTION CASING

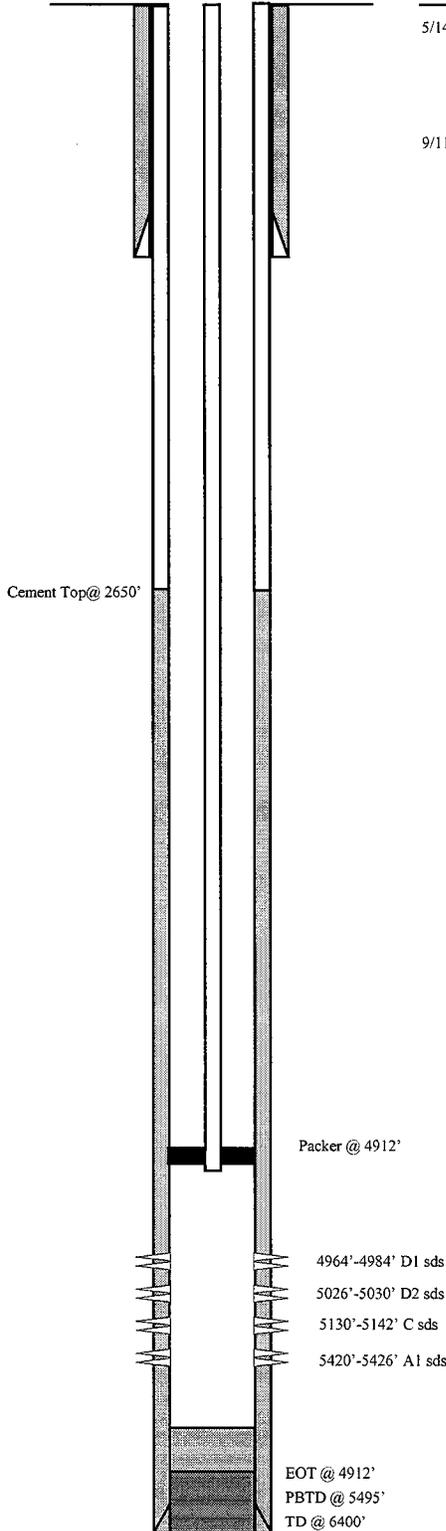
CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 17#
 LENGTH: 133 jts 5539.92'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 300 sxs Gypseal & 150 sxs Lodense.
 CEMENT TOP AT: 2650' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55
 NO. OF JOINTS: 151 jts (4888')
 2 7/8" x 2 3/8" CROSS-OVER
 ARROWSET PACKER: 4905' KB
 TOTAL STRING LENGTH: EOT @ 4912' KB

FRAC JOB

5/14/84 4966'-4982' **Frac D1 sandas follows:**
 80,900# 20/40 sand in 620 bbls. of gelled
 water. Avg. treating pressure 1800 psi @ 30
 BPM. ISIP- 1690 psi. Flush to top perf.
 9/11/08 Tubing leak. Updated tubing details.



PERFORATION RECORD

4/14/84	4966'-4970'	2 SPF	08 holes
4/14/84	4974'-4982'	2 SPF	16 holes
1/31/98	4964'-4984'	2 SPF	40 holes



Monument Butte Fed. #13-35
 592' FWL & 640' FSL
 SW SW Section 35-T8S-R16E
 Duchesne Co, Utah
 API #43-013-30745; Lease #ML-16535

Monument Butte Fed. #14-35-8-16

Spud Date: 10/26/83
Put on Production: 3/27/84

GL: 5524' KB: 5537'

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
DEPTH LANDED: 292'
HOLE SIZE: 12-1/4"
CEMENT DATA: 210 sxs Class "G" cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 17#
DEPTH LANDED: 5771'
HOLE SIZE: 7-7/8"
CEMENT DATA: 250 sxs Lodense & 275 sxs Thixotropic.
CEMENT TOP AT: 1510' per CBL

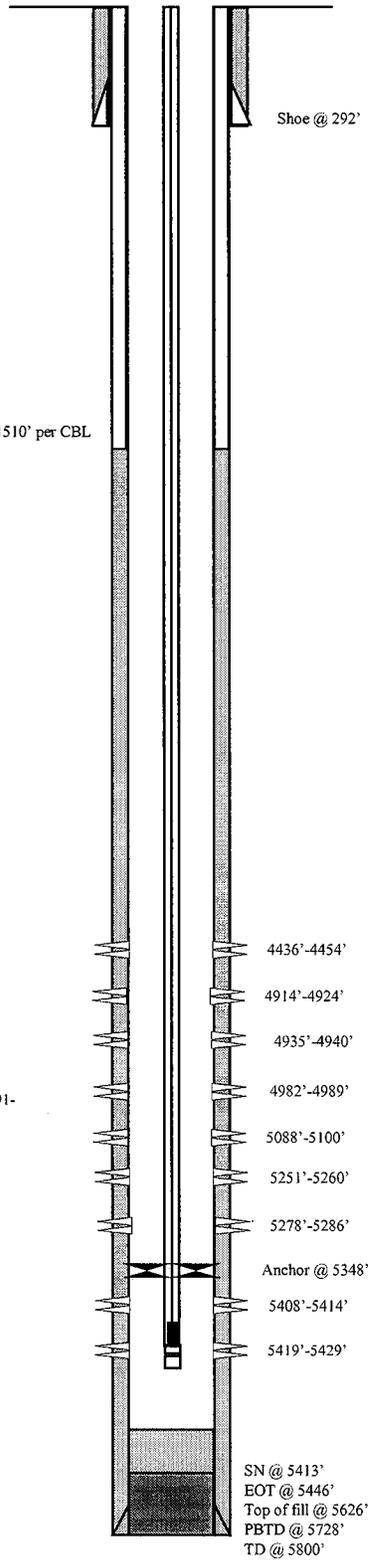
TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55
NO. OF JOINTS: 163 jts (5335.23')
TUBING ANCHOR: 5348.23'
NO. OF JOINTS: 2 jts (62.00')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 5413.03' KB
NO. OF JOINTS: 1 jts (30.97')
TOTAL STRING LENGTH: EOT @ 5445.55'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod
SUCKER RODS: 2-3/4x2'-1-3/4x8' pony rods, 101-3/4" scraped rods, 91-3/4" plain rods, 20-3/4" scraped rods, 4-1 1/2" weight rods
PUMP SIZE: CDI 2-1/2" x 1-1/2" x 12" x 16' RHAC pump
STROKE LENGTH: 72"
PUMP SPEED, SPM: 4 SPM

Wellbore Diagram



Initial Production: 43 BOPD,
70 MCFD, 0 BWPD

FRAC JOB

11/10/83	5408'-5429'	Frac A1 sand as follows: 146,440# 20/40 sand in 980 bbls frac fluid. Treated @ avg press of 2500 psi w/avg rate of 41.5 BPM. ISIP 1820 psi. Calc. flush: 5408 gal., Actual flush: 5400 gal. 3/24/84
4914'-4940'		Frac D1 sand as follows: 83,500# 20/40 sand in 619 bbls frac fluid. Treated @ avg press of 2100 psi w/avg rate of 30 BPM. ISIP 1900 psi. Calc. flush: 4914 gal., Actual flush: 4800 gal. 8/28/90
5251'-5286'		Frac B2 sand as follows: 13,000# 20/40 sand + 17,000# 16/30 sand in 642 bbls frac fluid. Treated @ avg press of 3350 psi, ISIP 1710 psi. Calc. flush: 1336 gal., Actual flush: 1335 gal. 8/30/90
5088'-5100'		Frac C-sd as follows: 34,000# 20/40 sand in 680 bbls frac fluid. Treated @ avg press of 3450 psi, ISIP 2220 psi. Calc. flush: 1284 gal., Actual flush: 1281 gal.
8/31/90	4914'-4989'	Frac D1 & D2 as follows: 24,000# 20/40 sand + 45,000# 16/30 sand in 497 bbls frac fluid. Treated @ avg press of 3400 psi, ISIP 2000 psi. Calc. flush: 1235 gal., Actual flush: 1386 gal. 5/24/01
4436'-4454'		Frac GB-6 sand as follows: 101,440# 20/40 sand in 426 bbls Viking I-25 fluid. Treated @ avg press of 2560 psi w/avg rate of 32 BPM. ISIP 2530 psi. Calc. flush: 4436 gal., Actual flush: 4326 gal.
05/29/08		pump change. Updated tubing and rod detail
10-1-08		Tubing Leak. Updated rod & tubing details.
6/17/09		Pump Change. Updated r & t details.

PERFORATION RECORD

Date	Depth Range	SPF	Holes
11/09/83	5419'-5429'	1 SPF	10 holes
11/09/83	5408'-5414'	1 SPF	06 holes
3/21/84	4935'-4940'	1 SPF	11 holes
3/21/84	4914'-4924'	1 SPF	06 holes
8/25/90	5278'-5286'	4 SPF	32 holes
8/25/90	5251'-5260'	4 SPF	36 holes
8/25/90	5088'-5100'	4 SPF	48 holes
8/25/90	4982'-4989'	4 SPF	28 holes
8/25/90	4935'-4940'	4 SPF	20 holes
8/25/90	4914'-4924'	4 SPF	40 holes
5/25/01	4436'-4454'	4 SPF	72 holes



Monument Butte Fed. #14-35-8-16
511' FSL & 2134' FWL
SESW Section 35-T8S-R16E
Duchesne Co, Utah
API #43-013-30812; Lease #U-16535

SN @ 5413'
EOT @ 5446'
Top of fill @ 5626'
PBTD @ 5728'
TD @ 5800'

South Wells Draw 2-3-9-16

Spud Date: 10-18-2006
 Put on Production: 2-26-2007
 GL: 5621' KB: 5633'

Initial Production: BOPD,
 MCFD, BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts (310.28')
 DEPTH LANDED: 314.77' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 144 jts. (6284.59')
 DEPTH LANDED: 6297.84' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.
 CEMENT TOP AT: 104'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 192 jts (6066.48')
 TUBING ANCHOR: 6078.48' KB
 NO. OF JOINTS: 1 jts (31.64')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 6112.92' KB
 NO. OF JOINTS: 2 jts (63.14')
 TOTAL STRING LENGTH: EOT @ 6177.61' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 1-2" X 3/4" pony rods, 99- 3/4" guided rods, 129- 3/4" plain rods, 10- 3/4" guided rods, 6- 1 1/2" weighted rods.
 PUMP SIZE: 2-1/2" x 1-1/2" x 14.5" RHAC w/SM plunger
 STROKE LENGTH: 86"
 PUMP SPEED, SPM: 5 SPM

FRAC JOB

02-16-07 6102-6125' **Frac CP5 sands as follows:**
 29892# 20/40 sand in 381 bbls Lightning 17 frac fluid. Treated @ avg press of 2343 psi w/avg rate of 24.4 BPM. ISIP 2080 psi. Calc flush: 6100 gal. Actual flush: 5628 gal.

02-16-07 5860-5870' **Frac CP2, & CP1 sands as follows:**
 24890# 20/40 sand in 336 bbls Lightning 17 frac fluid. Treated @ avg press of 1964 psi w/avg rate of 24.4 BPM. ISIP 1850 psi. Calc flush: 5858 gal. Actual flush: 5334 gal.

02-16-07 5464-5470' **Frac A 3 sands as follows:**
 24472# 20/40 sand in 329 bbls Lightning 17 frac fluid. Treated @ avg press of 2464 psi w/avg rate of 24.4 BPM. ISIP 2140 psi. Calc flush: 5462 gal. Actual flush: 5418 gal.

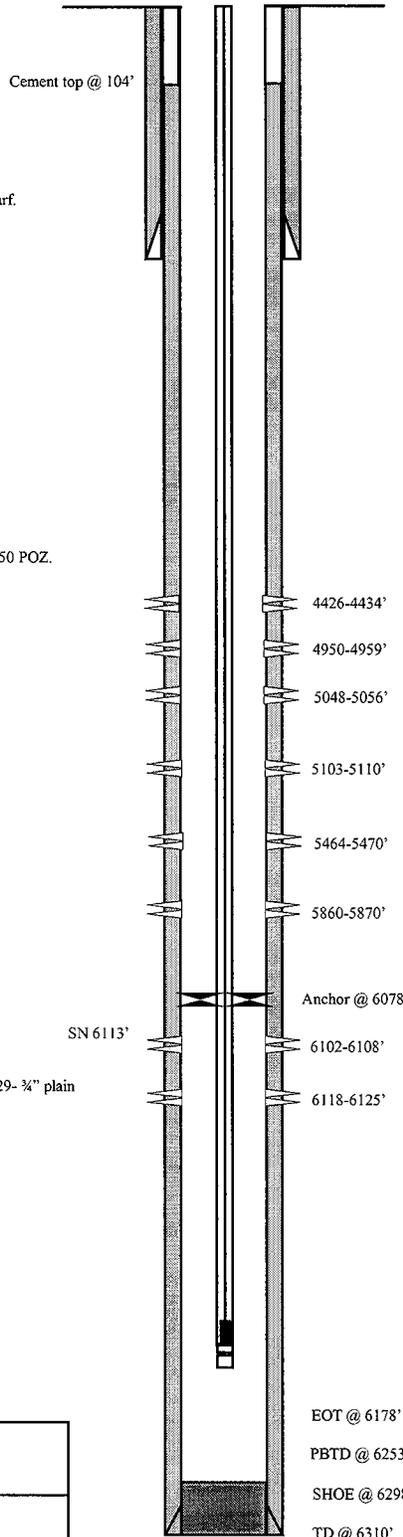
02-20-07 5048-5110' **Frac C, D3 sands as follows:**
 59650# 20/40 sand in 487 bbls Lightning 17 frac fluid. Treated @ avg press of 2067 w/ avg rate of 24.6 BPM. ISIP 2175 psi. Calc flush: 5046 gal. Actual flush: 4578 gal.

02-20-07 4950-4959' **Frac D1 sands as follows:**
 45245# 20/40 sand in 408 bbls Lightning 17 frac fluid. Treated @ avg press of 2190 w/ avg rate of 24.7 BPM. ISIP 2320 psi. Calc flush: 4948 gal. Actual flush: 4410 gal.

02-20-07 4426-4434' **Frac GB4 sands as follows:**
 37352# 20/40 sand in 335 bbls Lightning 17 frac fluid. Treated @ avg press of 2155 w/ avg rate of 25 BPM. ISIP 2300 psi. Calc flush: 4424 gal. Actual flush: 4326 gal.

PERFORATION RECORD

Date	Interval	Tool	Holes
01-07-07	6118-6125'	4 JSPF	28 holes
01-07-07	6102-6108'	4 JSPF	24 holes
02-16-07	5860-5870'	4 JSPF	40 holes
02-16-07	5464-5470'	4 JSPF	24 holes
02-16-07	5103-5110'	4 JSPF	28 holes
02-16-07	5048-5056'	4 JSPF	28 holes
02-20-07	4950-4959'	4 JSPF	36 holes
02-20-07	4426-4434'	4 JSPF	32 holes



NEWFIELD

South Wells Draw 2-3-9-16

516' FNL & 1975' FEL

NW/NE Section 3-T9S-R16E

Duchesne Co, Utah

API # 43-013-32963; Lease # UTU-47172

Castle Peak #1-3-9-16

Spud Date: 10/14/83
 Put on Production: 11/20/83
 GL: 5597' KB: 5613'

Initial Production: 12 BOPD,
 2 MCFD, 3 BWPD

Injection Wellbore
 Diagram

SURFACE CASING

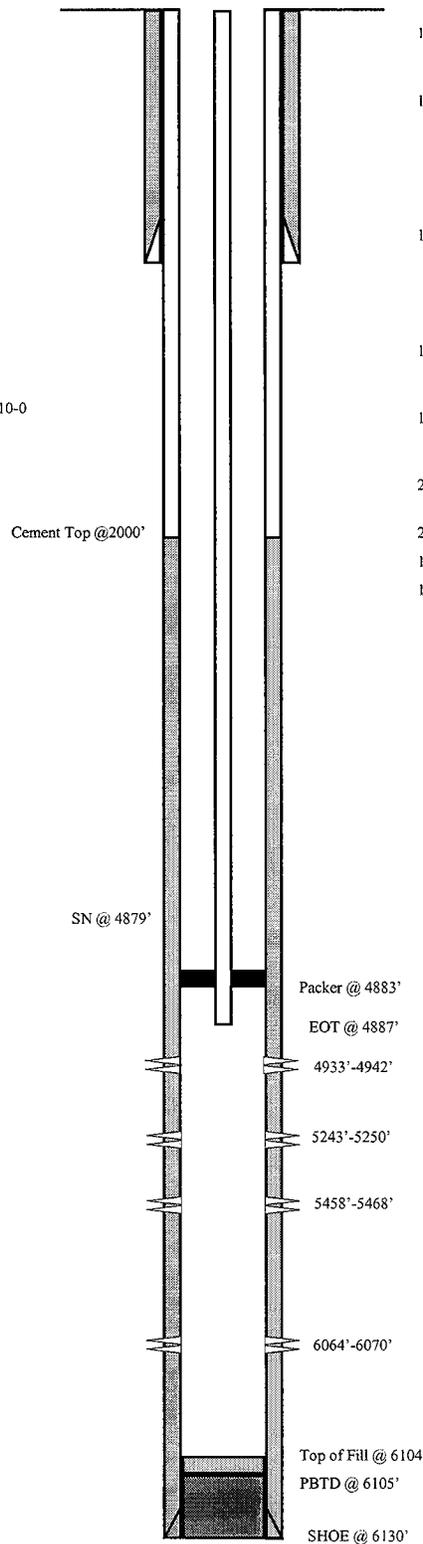
SIZE/GRADE/WT: 8-5/8" / K-55 / 24#
 LENGTH: 8 jts. (303.1')
 DEPTH LANDED: 320' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 220 sx Class G with additives

PRODUCTION CASING

SIZE/GRADE/WT: 5-1/2" / K-55 / 15.5#
 LENGTH: 149 jts (5909')
 SET AT: 6130' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 224 sx High-Lift followed by 560 sx RFC 10-0
 TOP OF CEMENT: 2000' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5# /
 NO. OF JOINTS: 158 jts (4862.19')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 4879.29' KB
 PACKER: 4882.5'
 TOTAL STRING LENGTH: EOT @ 4886.6'



Stimulations

10/29/83	6064'-6070'	Break zone w/ 1000 gal 5% KCl Average tubing press. 3600 psi @ 5.5 BPM, ISIP 1900psi.
11/03/83	5458'-5468'	Frac as follows: 100,000# 20/40 sand in 952 bbl GWX-07 Gel. Average tubing press. 2350 psi @ 23.5 BPM. ISIP 2450 psi. Screened out w/ 90,000# in finfn. & 10,000# in tubing.
11/09/83	5243'-5250'	Frac as follows: 92,100# 20/40 sand in 1052 bbl GWX-07 Gel. Average tubing press. 2600 psi @ 24 BPM. ISIP 1700 psi. Calc. flush: 5243 gal. Actual flush: 5208 gal.
11/12/83	4933'-4942'	Break zone w/ 1000 gal 5% KCl Average tubing press. 2000 psi @ 5.5 BPM, ISIP 600psi.
10/25/89	4933'-4942'	Acidize w/ 1600 gal 7 1/2% HCl. Average tubing press. 200 psi @ 3.5 BPM, ISIP 0psi.
2/16/96		Hole in tubing. Update rod and tubing details.
2/08/00		Pump change.
12/24/02		Converted to Injector
12-10-07		5 Year MIT completed.

PERFORATION RECORD

10/29/83	6064'-6070'	2 JHPF	14 holes
10/31/83	5458'-5468'	2 SPF	22 holes
11/07/83	5243'-5250'	2 SPF	16 holes
11/12/83	4933'-4942'	2 SPF	20 holes



Castle Peak #1-3-9-16
 650' FNL & 545' FEL
 NENE Section 3-T9S-R16E
 Duchesne County, Utah
 API #43-013-30639 Lease #UTU-47172

Monument Butte St. #3-2-9-16

Spud Date: 11/25/82
 Put on Production: 1/12/83
 GL: 5519' KB:

Initial Production: 23 BOPD,
 23 MCFD, 3 BWPD

Injection Wellbore
 Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (286')
 DEPTH LANDED : 283' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 210 sxs Class "G" cmt. Returns to surface.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 17# & 15.5#
 LENGTH: 131 jts. 17# & 16 jts. of 15.5#
 DEPTH LANDED: 5898'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 380 sxs Class "G" cement
 CEMENT TOP AT: 3208' per CBL

TUBING

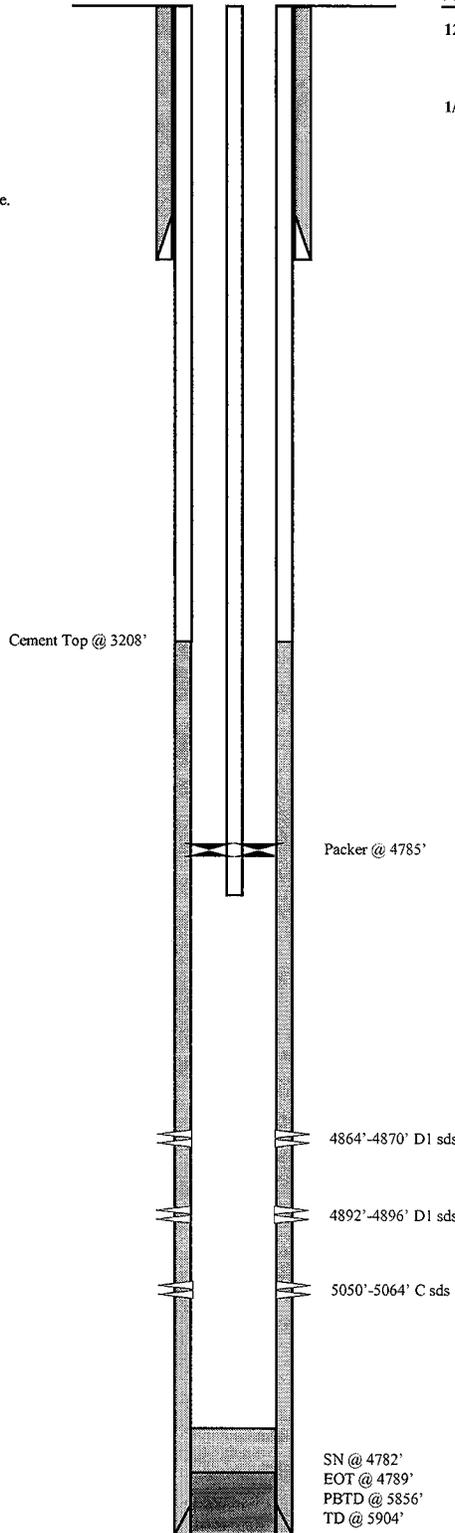
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 146 jts (4767.28')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 4782.38' KB
 TUBING PACKER: 4785.58'
 TOTAL STRING LENGTH: EOT @ 4789.70'

FRAC JOB

12/19/82 5050'-5064' Frac as follows:
 56,000# 20/40 sand in 345 frac fluid.
 Screened out.
 1/11/92 4864'-4896' Frac as follows:
 29,300# 16/30 sand in 261 bbls gelled
 diesel. Screened out with approx. 26,000# into
 formation.

PERFORATION RECORD

12/18/82	5050'-5064'	1 JSPF	14 holes
01/08/92	4864'-4870'	4 JSPF	28 holes
01/08/92	4892'-4896'	4 JSPF	20 holes



NEWFIELD

Monument Butte St. #3-2-9-16
 658' FNL & 2120' FWL
 NENW Section 2-T9S-R16E
 Duchesne Co, Utah
 API #43-013-30627; Lease #ML-21839

Monument Butte #2-2-9-16

Spud Date: 08/28/2002
 Put on Production: 01/21/2003
 GL: 5475' KB: 5487'

Initial Production: 79 BOPD,
 311 MCFD, 5 BWPD,

Injection Wellbore
 Diagram

SURFACE CASING

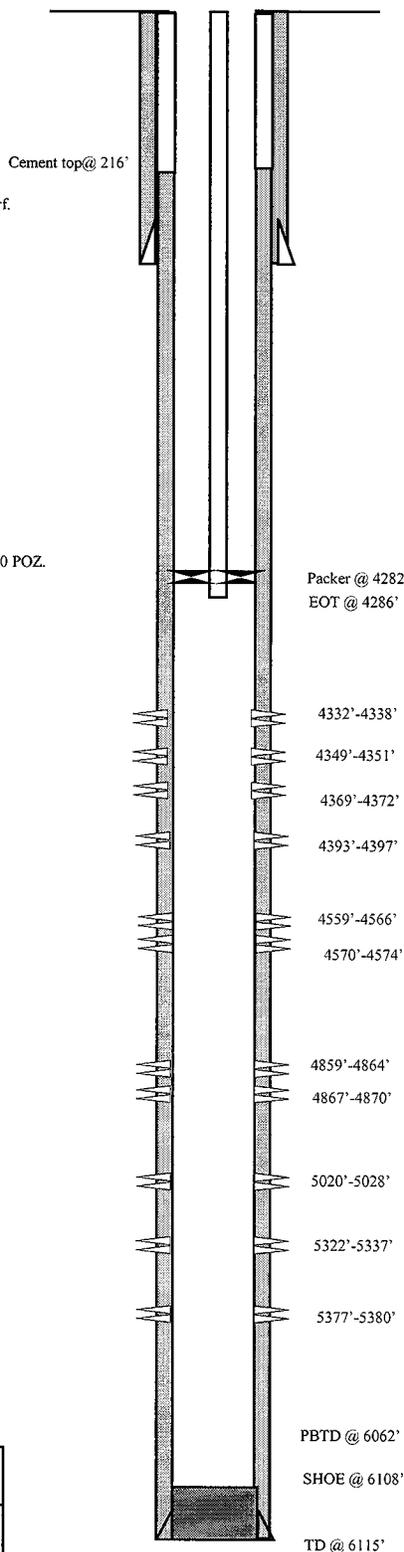
CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (290.39')
 DEPTH LANDED: 298.39' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 145 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 143 jts. (6109.91')
 DEPTH LANDED: 6107.91' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 275 sxs Prem. Lite II mixed & 500 sxs 50/50 POZ.
 CEMENT TOP AT: 216'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 137 jts (4265.23')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 4277.23' KB
 TOTAL STRING LENGTH: EOT @ 4285.73'



FRAC JOB

1/16/03 5322'-5380' **Frac A1 & A3 sands as follows:**
 88,884# 20/40 sand in 650 bbls Viking I-25 fluid. Treated @ avg press of 2243 psi w/avg rate of 24.5 BPM. ISIP- 2230 psi. Calc. Flush: 5322 gal. Actual Flush: 5250 gal.

1/16/03 4859'-5028' **Frac D1 & C sands as follows:**
 68,788# 20/40 sand in 540 bbls Viking I-25 fluid. Treated @ avg press of 2134 psi w/avg rate of 26.4 BPM. ISIP- 2200 psi. Calc flush: 4859 gal. Actual flush: 4767 gal.

1/16/03 4332'-4574' **Frac PB10, GB6 & GB4 sands as follows:**
 65,544# 20/40 sand in 519 bbls Viking I-25 fluid. Treated @ avg press of 2094 psi w/avg rate of 24.6 BPM. ISIP 2390 psi. Calc flush: 4332 gal. Actual flush: 4242 gal.

3/24/09 **Well converted to an Injection well.**

3/31/09 **MIT completed and submitted.**

PERFORATION RECORD

Date	Interval	Tool	Holes
1/15/03	5322'-5337'	2 JSPF	30 holes
1/15/03	5377'-5380'	4 JSPF	12 holes
1/16/03	4859'-4864'	4 JSPF	20 holes
1/16/03	4867'-4870'	4 JSPF	12 holes
1/16/03	5020'-5028'	4 JSPF	32 holes
1/16/03	4332'-4338'	4 JSPF	24 holes
1/16/03	4349'-4351'	4 JSPF	8 holes
1/16/03	4369'-4372'	4 JSPF	12 holes
1/16/03	4393'-4397'	4 JSPF	16 holes
1/16/03	4559'-4566'	4 JSPF	28 holes
1/16/03	4570'-4574'	4 JSPF	16 holes

NEWFIELD

Monument Butte
 660' FNL & 1980' FEL
 NWNE Section 02-T9S-R16E
 Duchesne Co, Utah
 API #43-013-32314; Lease #ML-21839

Spud Date: 2-7-07
 Put on Production: 4-9-07
 GL: 5491' KB: 5503'

S. Monument Butte H-2-9-16

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (312.82')
 DEPTH LANDED: 324.67'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: To surface with 160 sx Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 150 jts. (6631.67')
 DEPTH LANDED: 6333.22'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 350 sx Premilite II and 450 sx 50/50 Poz
 CEMENT TOP AT: Surface

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 177 jts (5583.61')
 TUBING ANCHOR: 5595.61'
 NO. OF JOINTS: 2 jts (63.06')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 5661.42' KB
 NO. OF JOINTS: 2 jts (63.12')
 TOTAL STRING LENGTH: EOT @ 5726.09'

SUCKER RODS

POLISHED ROD: 1- 1/2" x 26' Polished Rod
 SUCKER RODS: 239-7/8" (8per) scraped rod, 4-1 1/2" wt rods
 PUMP SIZE: CDI 2 1/2" x 1 1/2" x 20'
 STROKE LENGTH: 122"
 PUMP SPEED, SPM: 4

FRAC JOB

4/3/07 6074-6082 **Frac CP5 sds as follows:**
 19,231# 20/40 sand in 314 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2211 psi @ ave rate of 20.1 BPM. ISIP 2074 psi. Actual flush: 5557 gals.

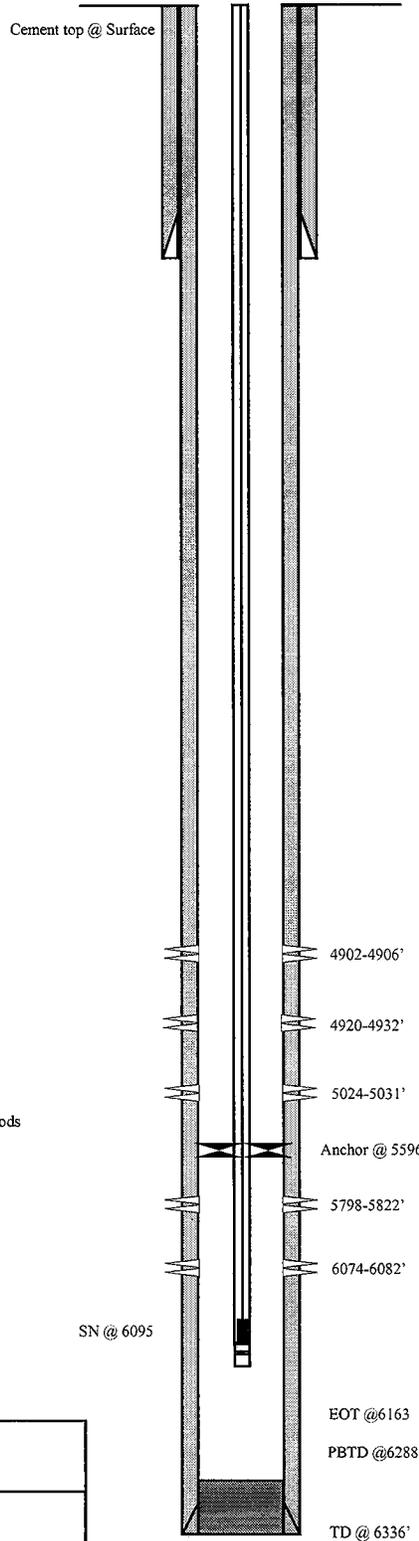
4/3/07 5798-5822 **Frac CP5 sds as follows:**
 80,287# 20/40 sand in 617 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1667 psi @ ave rate of 20 BPM. ISIP 1944 psi. Actual flush: 5292 gals.

4/3/07 5024-5031 **Frac D3 sds as follows:**
 19,903# 20/40 sand in 290 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2283 psi @ ave rate of 25.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 2091 psi. Actual flush: 4557 gals.

4/4/07 4920-4932 **Frac D1 sds as follows:**
 81,974# 20/40 sand in 618 bbls of Lightning 17 fluid.. Treated w/ ave pressure of 2070 psi @ ave rate of 25.1 BPM. ISIP 2280 psi. Actual flush: 4788 gals.

PERFORATION RECORD

4/3/07	4902-4906'	4 JSPF	16 holes
4/3/07	4920-4932'	4 JSPF	48 holes
4/3/07	5024-5031'	4 JSPF	28 holes
4/3/07	5798-5822'	4 JSPF	96 holes
4/3/07	6074-6082'	4 JSPF	32 holes





S Monument Butte H-2-9-16

1322' FSL & 2638' FEL
 SE/NW Section 2-T9S-R16E
 Duchesne Co, Utah
 API # 43-013-33218; Lease # ML-21839

Monument Butte 6-2-9-16

Spud Date: 10/16/2002
 Put on Production: 01/28/2003
 GL: 5495' KB: 5507'

Initial Production: BOPD,
 MCFD, BWPD

Injection Wellbore
 Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (301.37')
 DEPTH LANDED: 309.37' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 160 sxs Class "G" cmt mixed, est 2 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 135 jts. (6056.07')
 DEPTH LANDED: 6054.07' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.
 CEMENT TOP AT: 680'

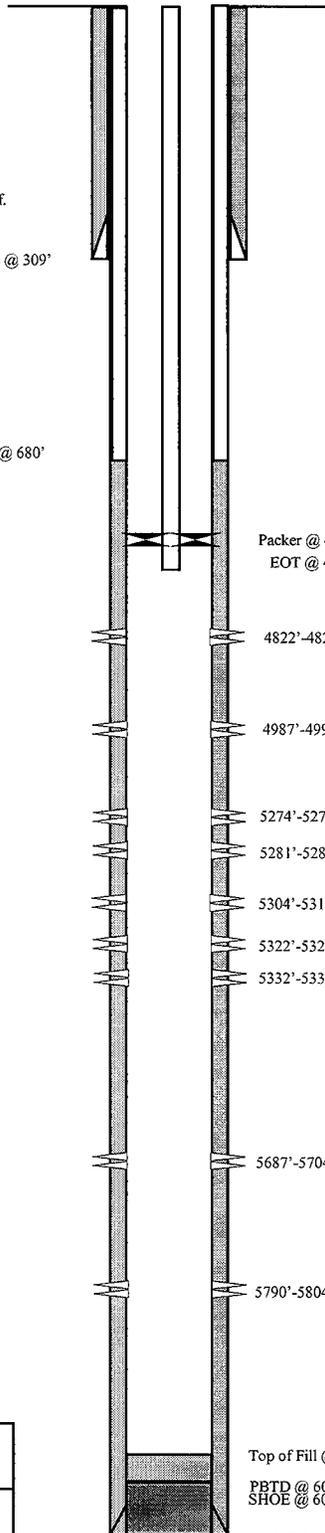
TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 151 jts (4741.99')
 TUBING ANCHOR: 4758.34' KB
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 4753.99' KB
 TOTAL STRING LENGTH: EOT @ 4762.44' w/ 12' KB

Casing Shoe @ 309'

Cement top @ 680'

Packer @ 4758'
 EOT @ 4762'



FRAC JOB

1/20/03 5687'-5804' **Frac CP1 and CP3 sands as follows:**
 100,781# 20/40 sand in 818 bbls YF 125 fluid. Treated @ avg press of 1741 psi w/avg rate of 28 BPM. ISIP 1940 psi. Calc flush: 5687 gal. Actual flush: 5636 gal.

1/20/03 5274'-5336' **Frac A sands as follows:**
 66,689# 20/40 sand in 559 bbls YF 125 fluid. Treated @ avg press of 1955 psi w/avg rate of 27.2 BPM. ISIP 2207 psi. Calc flush: 5274 gal. Actual flush: 5187 gal.

1/20/03 4822'-4994' **Frac C and D1 sands as follows:**
 47,951# 20/40 sand in 433 bbls YF 125 fluid. Treated @ avg press of 2126 psi w/avg rate of 26.5 BPM. ISIP 2027 psi. Calc flush: 4822 gal. Actual flush: 4692 gal.

08/15/06 Pump Change. Update rod and tubing details.
 10/20/08 Well converted to an injection well.
 10/28/08 MIT completed and submitted.

PERFORATION RECORD

Date	Interval	Number of Holes	Notes
1/18/03	5790'-5804'	4	JSPF 56 holes
1/18/03	5687'-5704'	4	JSPF 68 holes
1/20/03	5332'-5336'	4	JSPF 16 holes
1/20/03	5322'-5325'	4	JSPF 12 holes
1/20/03	5304'-5312'	4	JSPF 32 holes
1/20/03	5281'-5284'	4	JSPF 12 holes
1/20/03	5274'-5276'	4	JSPF 8 holes
1/20/03	4987'-4994'	4	JSPF 28 holes
1/20/03	4822'-4827'	4	JSPF 20 holes

NEWFIELD

Monument Butte 6-2-9-16
 1960' FWL & 1852' FNL
 SENW Section 2-T9S-R16E
 Duchesne Co, Utah
 API #43-013-32316; Lease #ML-21839

SO. WELL DRAW FED. 8-3-9-16

Spud Date: 02/20/07
Put on Production: 06/15/07

Initial Production: BOPD,
MCFD, BWPD

GL: 5538' KB: 5550'

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (311.37')
DEPTH LANDED: 323.54' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 140 jts. (6140.18')
DEPTH LANDED: 6153.43' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.
CEMENT TOP: 68'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55
NO. OF JOINTS: 190 jts (5950.83')
TUBING ANCHOR: 5962.83' KB
NO. OF JOINTS: 1 jts (31.48')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 5997.11' KB
NO. OF JOINTS: 1 jts (29.24')
TOTAL STRING LENGTH: EOT @ 6027.90' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM polished rods
SUCKER RODS: 101-3/4" guided rods, 103-3/4" slick rods, 30-3/4" guided rods, 6-1 1/2" weight bars.
PUMP SIZE: CDI 2-1/2" x 1-1/2" x 10' x 14' RHAC w/ sm plunger.
STROKE LENGTH: 86"
PUMP SPEED, 4 1/2 SPM:

FRAC JOB

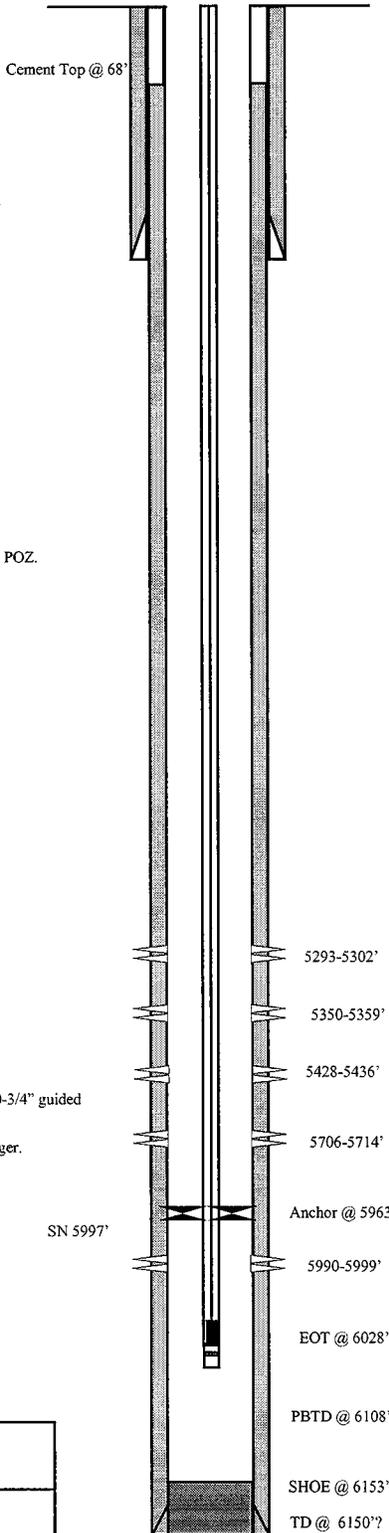
06/08/07 5990-5999' **Frac CP5 sands as follows:**
19879# 20/40 sand in 326 bbls Lightning 17 frac fluid. Treated @ avg press of 2175 psi w/avg rate of 25.1 BPM. ISIP 1925 psi. Calc flush: 5988 gal. Actual flush: 5544 gal.

06/08/07 5706-5714' **Frac CP2 sands as follows:**
14981# 20/40 sand in 283 bbls Lightning 17 frac fluid. Treated @ avg press of 1831 psi w/avg rate of 25.1 BPM. ISIP 1650 psi. Calc flush: 5704 gal. Actual flush: 5250 gal.

06/08/07 5428-5436' **Frac LODC sands as follows:**
40824# 20/40 sand in 321 bbls Lightning 17 frac fluid. Treated @ avg press of 2753 psi w/avg rate of 24.7 BPM. Screened out frac w/19,500#s in casing w/ 21,324#s in perfs w/ 6.5# snd on perfs w/ 84 bbls short on flush

06/13/07 5293-5302' **Frac A3 sands as follows:**
50714# 20/40 sand in 446 bbls Lightning 17 frac fluid. Treated @ avg press of 2246 psi w/avg rate of 24.9 BPM. ISIP 2146 psi. Calc flush: 5291 gal. Actual flush: 5292 gal

7/29/08 Tubing Leak. Updated rod & tubing details.



PERFORATION RECORD

Date	Interval	Tool	Holes
06/08/07	5990-5999'	4 JSPF	36 holes
06/08/07	5706-5714'	4 JSPF	32 holes
06/08/07	5428-5436'	4 JSPF	20 holes
06/08/07	5350-5359'	4 JSPF	36 holes (shot by mistake)
06/13/07	5293-5302'	4 JSPF	36 holes

NEWFIELD

S. Wells Draw Fed. 8-3-9-16

2127'FNL & 492' FEL
SE/NE Section 3-T9S-R16E
Duchesne Co, Utah
API #43-013-32965; Lease # UTU-47172

South Wells Draw #5-2-9-16

Spud Date: 10/30/2000
 Put on Production: 12/24/2000
 GL: 5524' KB: 5534'

Initial Production: 97.5 BOPD,
 143.3 MCFD, 18.3 BWPD

Injection Wellbore
 Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (317.52')
 CASING LANDED: 323.82' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 155 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 130 jts. (5835.28')
 LANDED @ 5828' KB
 HOLE SIZE: 7-7/8"
 TOTAL DEPTH: 5839'
 CEMENT DATA: 275 sk Prem. Lite II mixed & 500 sxs 50/50 POZ.
 CEMENT TOP AT: ? per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 177 jts (4759.37')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 4769.37' KB
 PACKER: 5381'
 TOTAL STRING LENGTH: EOT @ 4777.78'

FRAC JOB

12/18/00 5716'-5734' **Frac CP-1 sands as follows:**
 82,080# 20/40 sand in 603 bbbls Viking I-25 fluid. Perfs broke down @ 4413 psi. ISIP 2080 psi.

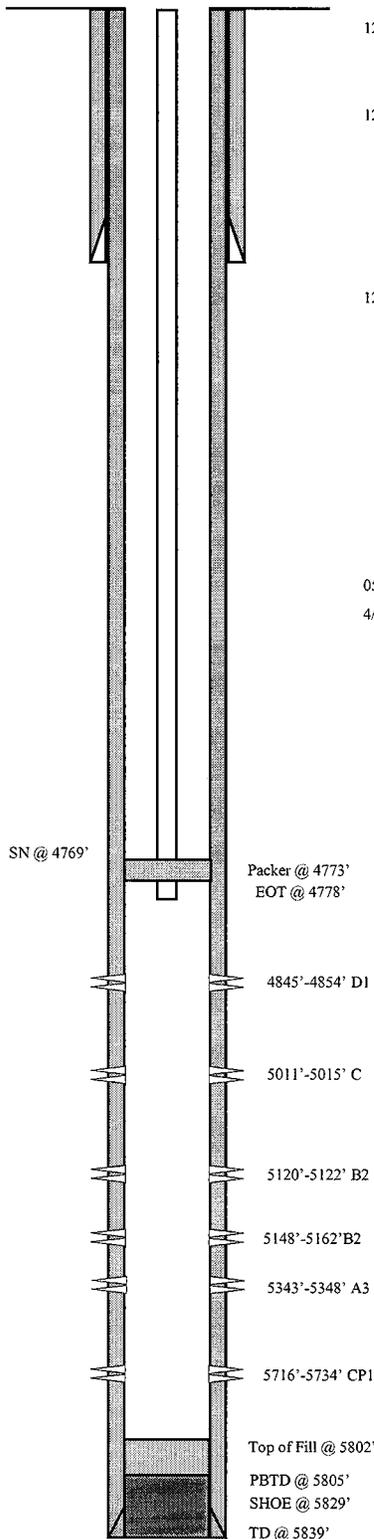
12/18/00 5148'-5162'
 5120'-5122'
 5011'-5015' **Frac B2 & C sands as follows:**
 Set plug at 5205'.
 91,660# 20/40 sand in 611 bbbls Viking I-25 fluid. ISIP 2125 psi, flow back on 12/64 choke @ 1 BPM.

12/19/00 4845'-4854' **Frac D-1 sands as follows:**
 Set plug at 4948'.
 Perfs won't break, so treat w/ 15 gal acid, try again, still won't break, dump 15 more gal acid, still won't break. Re-perf zone 4845'-4854'. Dump 15 gal acid, perfs break at 4800psi. Frac with 48,300# 20/40 sand in 403 bbbls Viking I-25 fluid. Perfs broke down @ 3653 psi. Treated @ 1850 psi at 26.5 BPM. ISIP 2160 psi. Flow back on 12/64" choke for 3 hrs. then died.

05/21/03 **Injection Conversion**
 4/23/08 5 Year MIT completed and submitted.

PERFORATION RECORD

2/18/00	5716'-5734'	4 JSPF	72 holes
2/18/00	5148'-5162'	4 JSPF	56 holes
2/18/00	5120'-5122'	4 JSPF	8 holes
2/18/00	5011'-5015'	4 JSPF	16 holes
2/19/00	4845'-4854'	4 JSPF	72 holes
5/19/03	5343'-5348'	4 JSPF	20 holes



South Wells Draw #5-2-9-16
 2170' FNL & 675' FWL
 SWNW Section 2-T9S-R16E
 Duchesne Co, Utah
 API #43-013-32124; Lease #ML-21839


Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

Water Analysis Report
Production Company: **NEWFIELD PRODUCTION (158)**Sample ID: **WA-29281**Well Name: **MON BT 4-2-9-16**Sample Point: **Tank**Sample Date: **7 /27/2009**Sales Rep: **Randy Huber**Lab Tech: **Peter Poulsen**

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	8/3/2009	Cations	mg/L	Anions	mg/L
Temperature (°F):	160	Calcium (Ca):	40.00	Chloride (Cl):	1891.00
Sample Pressure (psig):	0	Magnesium (Mg):	122.00	Sulfate (SO ₄):	106.00
Specific Gravity (g/cm ³):	1.0010	Barium (Ba):	194.00	Dissolved CO ₂ :	0.01
pH:	7.8	Strontium (Sr):	-	Bicarbonate (HCO ₃):	1415.00
Turbidity (NTU):	-	Sodium (Na):	1457.00	Carbonate (CO ₃):	-
		Potassium (K):	-	H ₂ S:	15.00
		Iron (Fe):	3.00	Phosphate (PO ₄):	-
		Manganese (Mn):	0.11	Silica (SiO ₂):	-
Calculated T.D.S. (mg/L)	5243	Lithium (Li):	-	Fluoride (F):	-
Molar Conductivity (µS/cm):	7944	Aluminum (Al):	-	Nitrate (NO ₃):	-
Resitivity (Mohm):	1.2588	Ammonia NH ₃ :	-	Lead (Pb):	-
				Zinc (Zn):	-
				Bromine (Br):	-
				Boron (B):	-

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl										
Temp °F	Gauge Press. psi	Calcium Carbonate CaCO ₃		Gypsum CaSO ₄ · 2H ₂ O		Calcium Sulfate CaSO ₄		Strontium Sulfate SrSO ₄		Barium Sulfate BaSO ₄		Calculated CO ₂ psi
		Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	
160	0	8.84	17.19	0.01	-1417.50	0.00	-1287.30	-	-	245.33	194.82	0.61
80	0	4.01	8.75	0.00	9.21	0.00	-2094.00	-	-	1141.60	213.90	0.29
100	0	5.29	11.29	0.00	11.43	0.00	-1956.00	-	-	746.55	207.69	0.36
120	0	6.52	13.43	0.00	13.32	0.00	-1757.50	-	-	501.80	202.23	0.40
140	0	7.73	15.42	0.00	15.09	0.00	-1526.60	-	-	346.48	197.90	0.45
160	0	8.84	17.19	0.01	16.71	0.00	-1287.30	-	-	245.33	194.82	0.50
180	0	9.81	18.68	0.01	18.12	0.01	-1057.20	-	-	177.82	192.99	0.55
200	0	10.61	19.83	0.01	19.27	0.01	-847.64	-	-	131.36	191.98	0.56
220	2.51	11.15	20.70	0.01	20.23	0.01	-670.76	-	-	97.12	191.88	0.56
240	10.3	11.54	21.02	0.01	20.63	0.02	-514.57	-	-	73.59	191.28	0.57
260	20.76	11.74	20.90	0.01	20.56	0.03	-385.21	-	-	56.29	190.31	0.58
280	34.54	11.75	20.40	0.01	20.05	0.05	-280.28	-	-	43.36	188.77	0.59
300	52.34	11.60	19.56	0.01	19.13	0.08	-196.55	-	-	33.55	186.44	0.61

Conclusions:

Calcium Carbonate scale is indicated at all temperatures from 80°F to 300°F

Gypsum Scaling Index is negative from 80°F to 300°F

Calcium Sulfate Scaling Index is negative from 80°F to 300°F

Strontium Sulfate scaling was not evaluated

Barium Sulfate scale is indicated at all temperatures from 80°F to 300°F

Notes:



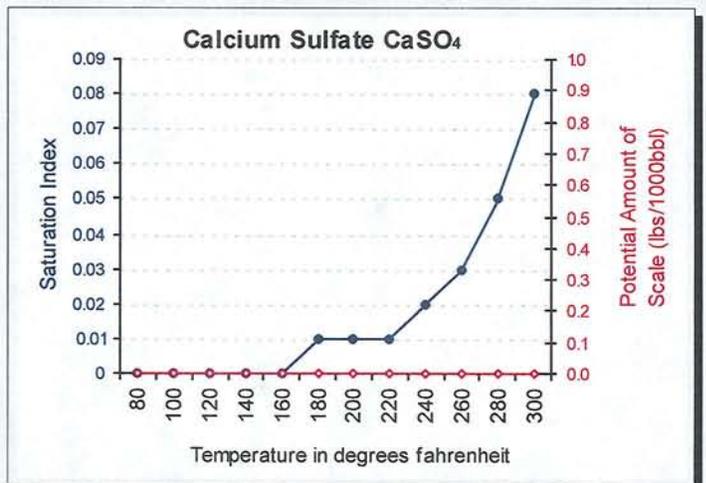
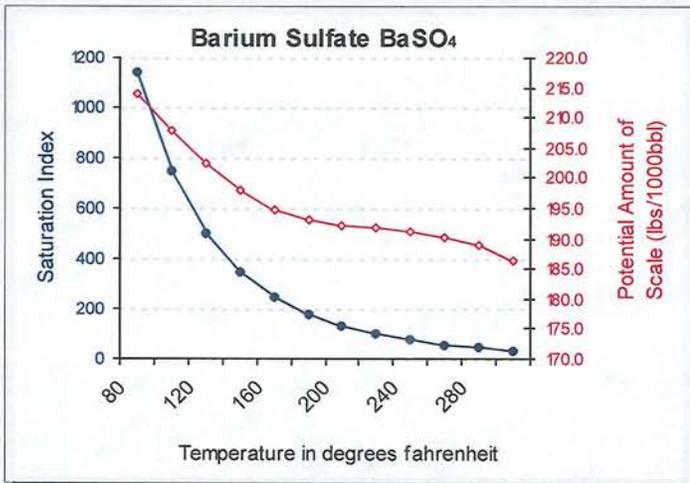
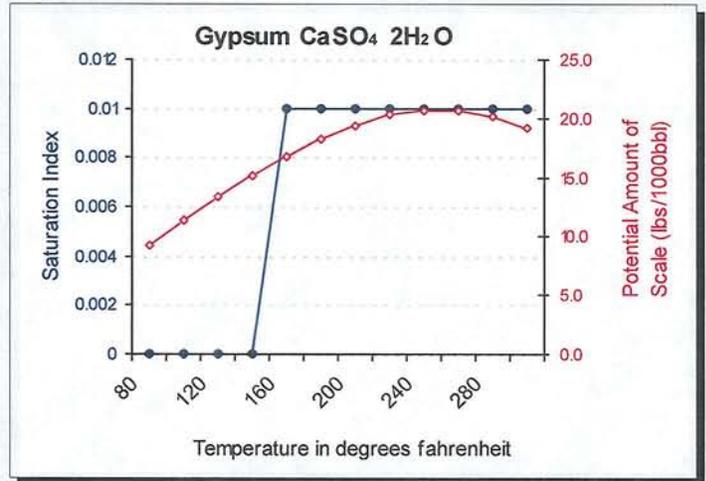
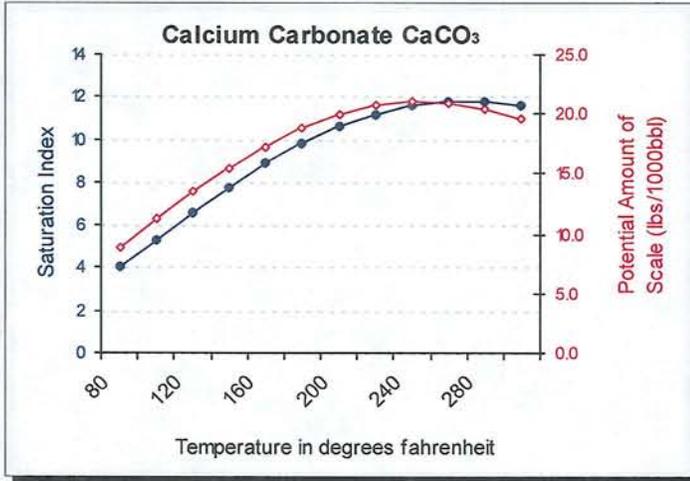
Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory
 1553 East Highway 40
 Vernal, UT 84078

Scale Prediction Graphs

Well Name: **MON BT 4-2-9-16**

Sample ID: **WA-29281**



Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078



Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**

Sample ID: **WA-19260**

Well Name: **Mon Butte Injection**

Sample Point: **Triplex Suction**

Sample Date: **1 /6 /2009**

Sales Rep: **Randy Huber**

Lab Tech: **Mike Chapman**

Sample Specifics	
Test Date:	1/7/2009
Temperature (°F):	80
Sample Pressure (psig):	0
Specific Gravity (g/cm³):	1.0000
pH:	7.1
Turbidity (NTU):	-
Calculated T.D.S. (mg/L)	1831
Molar Conductivity (µS/cm):	2774
Resitivity (Mohm):	3.6049

Analysis @ Properties in Sample Specifics			
Cations	mg/L	Anions	mg/L
Calcium (Ca):	120.00	Chloride (Cl):	500.00
Magnesium (Mg):	-	Sulfate (SO₄):	12.00
Barium (Ba):	206.00	Dissolved CO₂:	-
Strontium (Sr):	-	Bicarbonate (HCO₃):	634.00
Sodium (Na):	355.72	Carbonate (CO₃):	-
Potassium (K):	-	H₂S:	-
Iron (Fe):	3.00	Phosphate (PO₄):	-
Manganese (Mn):	0.20	Silica (SiO₂):	-
Lithium (Li):	-	Fluoride (F):	-
Aluminum (Al):	-	Nitrate (NO₃):	-
Ammonia NH₃:	-	Lead (Pb):	-
		Zinc (Zn):	-
		Bromine (Br):	-
		Boron (B):	-

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl										
Temp °F	Gauge Press. psi	Calcium Carbonate CaCO₃		Gypsum CaSO₄ · 2H₂O		Calcium Sulfate CaSO₄		Strontium Sulfate SrSO₄		Barium Sulfate BaSO₄		Calculated CO₂
		Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
80	0	1.61	0.31	0.00	-1252.30	0.00	-1459.70	-	-	258.58	24.59	1.48
80	0	1.61	0.31	0.00	-14.07	0.00	-1459.70	-	-	258.58	24.59	0.64
100	0	2.23	0.55	0.00	-11.68	0.00	-1354.10	-	-	174.02	24.35	0.80
120	0	2.88	0.75	0.00	-9.81	0.00	-1205.80	-	-	120.29	24.16	0.90
140	0	3.60	0.95	0.00	-8.32	0.00	-1036.00	-	-	85.13	23.99	1.02
160	0	4.34	1.14	0.00	-7.11	0.00	-862.65	-	-	61.59	23.85	1.16
180	0	5.09	1.32	0.00	-6.12	0.01	-698.06	-	-	45.41	23.72	1.28
200	0	5.79	1.49	0.01	-5.30	0.01	-550.22	-	-	34.05	23.60	1.31
220	2.51	6.40	1.65	0.01	-4.66	0.01	-425.85	-	-	25.63	23.47	1.33
240	10.3	6.95	1.79	0.01	-4.09	0.02	-319.21	-	-	19.73	23.26	1.37
260	20.76	7.40	1.91	0.01	-3.62	0.03	-232.59	-	-	15.35	22.98	1.40
280	34.54	7.74	1.99	0.01	-3.23	0.04	-163.93	-	-	12.05	22.61	1.44
300	52.34	7.95	2.02	0.01	-2.92	0.07	-110.69	-	-	9.54	22.10	1.48

Conclusions:

Calcium Carbonate scale is indicated at all temperatures from 80°F to 300°F

Gypsum Scaling Index is negative from 80°F to 300°F

Calcium Sulfate Scaling Index is negative from 80°F to 300°F

Strontium Sulfate scaling was not evaluated

Barium Sulfate scale is indicated at all temperatures from 80°F to 300°F

Notes:



Multi-Chem Group, LLC

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1553 East Highway 40

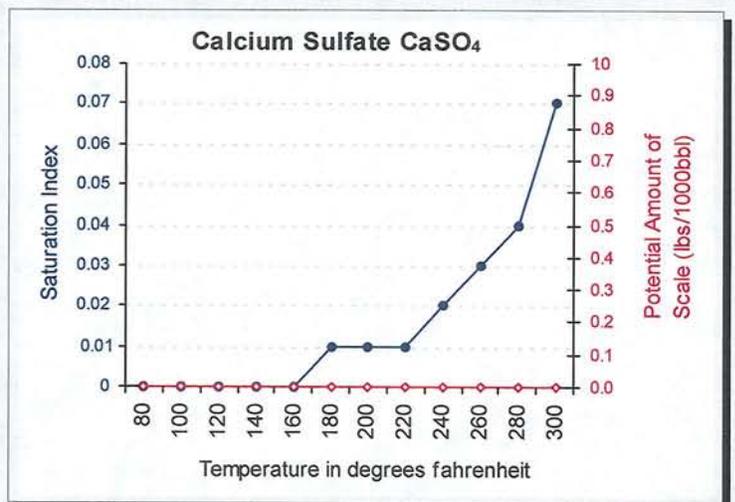
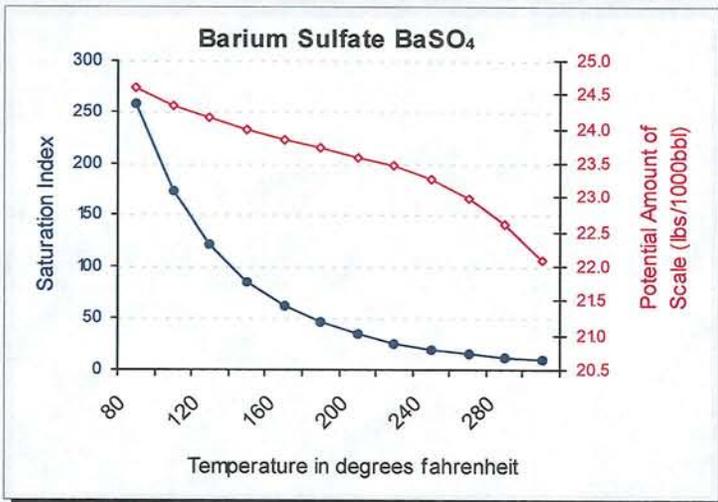
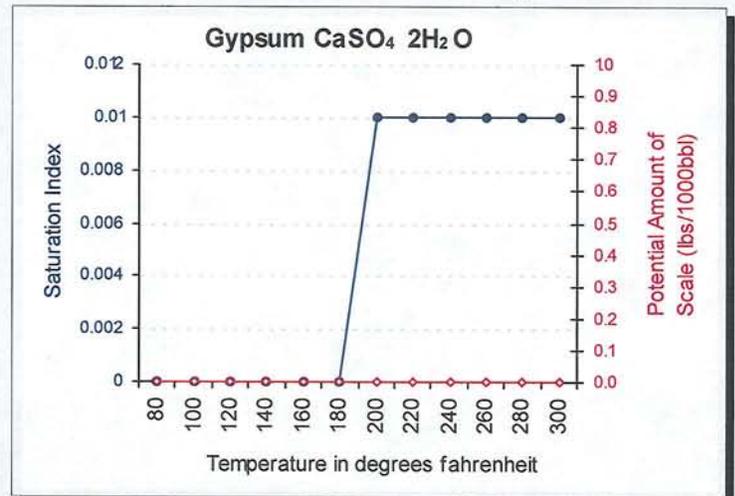
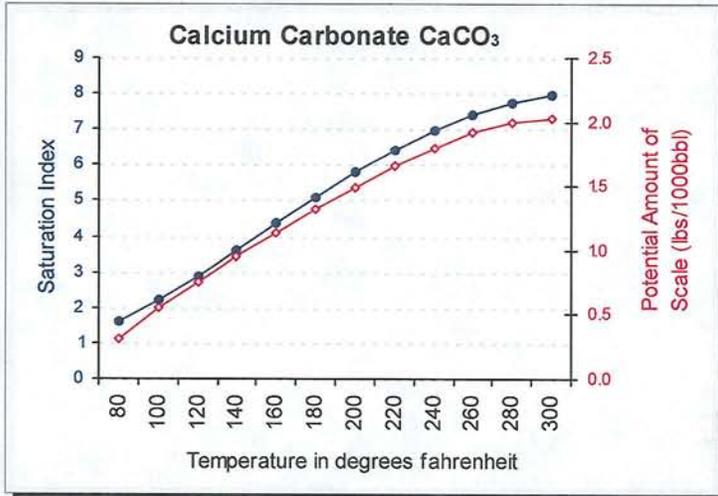
Vernal, UT 84078

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Scale Prediction Graphs

Well Name: **Mon Butte Injection**

Sample ID: **WA-19260**



Attachment "G"

**Monument Butte #4-2-9-16
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5241	5450	5346	1840	0.78	1806 ←
4909	4934	4922	2130	0.87	2098
4313	4720	4517	2230	0.95	2202
				Minimum	<u><u>1806</u></u>

Calculation of Maximum Surface Injection Pressure

$$P_{max} = (\text{Frac Grad} - (0.433 \times 1.015)) \times \text{Depth of Top Perf}$$
 where pressure gradient for the fresh water is .433 psi/ft and specific gravity of the injected water is 1.015.

$$\text{Frac Gradient} = (\text{ISIP} + (0.433 \times \text{Top Perf.})) / \text{Top Perf.}$$

Please note: These are existing perforations; additional perforations may be added during the actual conversion procedure.



Attachment G-1
1 of 9

DAILY COMPLETION REPORT

WELL NAME: Monument Butte State 4-2-9-16 **Report Date:** Jan 10,2003 **Completion Day:** 01
Present Operation: Completion **Rig:** Rigless

WELL STATUS

Surf Csg: 8 5/8 @ 312' **Prod Csg:** 5 1/2 **Wt:** 15.5# @ 6216' **Csg PBTD:** 6128' WL
Tbg: **Size:** _____ **Wt:** _____ **Grd:** _____ **Anchor @:** _____ **BP/Sand PBTD:** _____

PERFORATION RECORD

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
B2 sds	5241-5248'	4/28			
A3 sds	5406-5411'	4/20			
A3 sds	5427-5429'	4/8			
A3 sds	5442-5450'	4/32			

CHRONOLOGICAL OPERATIONS

Date Work Performed: Jan 9,2003 **SITP:** _____ **SICP:** 0

Install 5M frac head. NU 6" 5M cameron BOP. Pressure test casing, blind rams, frac head & casing valves to 3000 psi. RU Schlumberger WLT & run CBL f/ WL TD @ 6128' to sfc. Cement top @ 580'. Perf stage #1 W/ 4" guns as follows: A3 sds @ 5442-50', 5427-29' & 5406-11' and B2 sds @ 5241-48'. All 4 JSPF. 2 gun runs total. SIFN W/ 147 BWTR.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 147 **Starting oil rec to date:** 0
Fluid lost/recovered today: _____ **Oil lost/recovered today:** _____
Ending fluid to be recovered: 147 **Cum oil recovered:** 0
IFL: _____ **FFL:** _____ **FTP:** _____ **Choke:** _____ **Final Fluid Rate:** _____ **Final oil cut:** _____

STIMULATION DETAIL

COSTS

Base Fluid used: _____ **Job Type:** _____

Company: _____

Procedure or Equipment detail:

Weatherford BOP	\$130
IPC NU crew	\$300
IPC trucking	\$800
Schlumberger-CBL-B/A	\$6,151
Drilling cost	\$179,652
Zubiate HO trk	\$250
Location preparation	\$300
IPC wellhead	\$1,500
Deadman anchors	\$950
Admin. Overhead	\$2,700
IPC supervision	\$400

Max TP: _____ **Max Rate:** _____ **Total fluid pmpd:** _____

Avg TP: _____ **Avg Rate:** _____ **Total Prop pmpd:** _____

ISIP: _____ **5 min:** _____ **10 min:** _____ **FG:** _____

Completion Supervisor: Ray Herrera

DAILY COST: \$193,133

TOTAL WELL COST: \$193,133



DAILY COMPLETION REPORT

WELL NAME: Monument Butte State 4-2-9-16 **Report Date:** Jan 11,2003 **Completion Day:** 02

Present Operation: Completion **Rig:** Rigless

WELL STATUS

Surf Csg: 8 5/8 @ 312' **Prod Csg:** 5 1/2 **Wt:** 15.5# @ 6216' **Csg PBTD:** 6128' WL
Tbg: Size: Wt: Grd: Anchor @:

PERFORATION RECORD

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
<u>B2 sds</u>	<u>5241-5248'</u>	<u>4/28</u>			
<u>A3 sds</u>	<u>5406-5411'</u>	<u>4/20</u>			
<u>A3 sds</u>	<u>5427-5429'</u>	<u>4/8</u>			
<u>A3 sds</u>	<u>5442-5450'</u>	<u>4/32</u>			

CHRONOLOGICAL OPERATIONS

Date Work Performed: Jan 10,2003 **SITP:** 0 **SICP:** 0

NU BJ Services "Ram head" flange. RU BJ Services and frac A & B sds (5241' through 5450') w/ 79,500# 20/40 sand in 600 bbls Viking I-25 fluid. Perfs broke down @ 2347 psi. Treated @ ave press of 1875 psi w/ ave rate of 24.6 BPM. ISIP- 1840 psi. Leave pressure on well.

See day 2b

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 147 **Starting oil rec to date:** 0
Fluid lost/recovered today: 600 **Oil lost/recovered today:** 0
Ending fluid to be recovered: 747 **Cum oil recovered:** 0
IFL: FFL: FTP: **Choke:** Final Fluid Rate: Final oil cut:

STIMULATION DETAIL

COSTS

Base Fluid used: Viking I-25 **Job Type:** Sand frac
Company: BJ Services

Procedure or Equipment detail: B1, A3 sands
6,000 gals of pad
4000 gals W/ 1-3 ppg of 20/40 sand
8000 gals W/ 3-6 ppg of 20/40 sand
2000 gals W/ 8 ppg of 20/40 sand
Flush w/ 5030 gals of slick water

<u>Weatherford BOP</u>	<u>\$130</u>
<u>BJ Services A&B sds</u>	<u>\$22,029</u>
<u>IPC trucking</u>	<u>\$800</u>
<u>Betts trucking-frac water</u>	<u>\$1,000</u>
<u>IPC fuel</u>	<u>\$100</u>
<u>Zubiate HO trk</u>	<u>\$250</u>
<u>IPC supervision</u>	<u>\$300</u>

Max TP: 2347 **Max Rate:** 24.6 **Total fluid pmpd:** 600 bbls
Avg TP: 1875 **Avg Rate:** 24.6 **Total Prop pmpd:** 79,500#
ISIP: 1840 **5 min:** 10 min: **FG:** .78
Completion Supervisor: Ray Herrera

DAILY COST: \$24,609
TOTAL WELL COST: \$217,742



Attachment G-1
3 of 9

DAILY COMPLETION REPORT

WELL NAME: Monument Butte State 4-2-9-16 Report Date: Jan 11,2003 Completion Day: 02
Present Operation: Completion Rig: Rigless

WELL STATUS

Surf Csg: 8 5/8 @ 312' Prod Csg: 5 1/2 Wt: 15.5# @ 6216' Csg PBD: 6128' WL
Tbg: Size: Wt: Grd: Anchor @: BP/Sand PBTI 4985'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
			D1 sds	<u>4924 -4934'</u>	<u>4/40</u>
			B2 sds	<u>5241 -5248'</u>	<u>4/28</u>
			A3 sds	<u>5406 -5411'</u>	<u>4/20</u>
			A3 sds	<u>5427 -5429'</u>	<u>4/8</u>
D1 sds	<u>4909 -4911'</u>	<u>4/8</u>	A3 sds	<u>5442 -5450'</u>	<u>4/32</u>

CHRONOLOGICAL OPERATIONS

Date Work Performed: Jan 10,2003 SITP: SICP: 2000

Day 2 (b):

RU Schlumberger WLT, lubricator & crane. RIH W/ Weatherford 5 1/2" composite flow-through frac plug & 4" perf guns. Set plug @ 4985'. Perf as follows: D1 sds @ 4924-34', 4909 -11'. 4 JSPF. RU BJ and frac D-1 sds W/ 41,000# 20/40 sand in 429 bbls Viking I-25 fluid. Perfs broke down @ 2433 psi. Treated @ ave press of 1829 psi W/ ave rate of 24.3 BPM. ISIP -2130 psi. Leave pressure on well. Est 1176 BWTR.

See day 2 (c)

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 747 Starting oil rec to date: 0
Fluid lost/recovered today: 429 Oil lost/recovered today:
Ending fluid to be recovered: 1176 Cum oil recovered: 0
IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

STIMULATION DETAIL

COSTS

Base Fluid used: <u>Viking I-25</u> Job Type: <u>Sand frac</u>	<u>Weatherford services</u>	<u>\$550</u>
Company: <u>BJ Services</u>	<u>BJ Services D1 sds</u>	<u>\$9,689</u>
Procedure or Equipment detail: <u>D1 sands</u>	<u>IPC Supervision</u>	<u>\$100</u>
<u>3200 gals of pad</u>		
<u>2500 gals W/ 1-3 ppg of 20/40 sand</u>		
<u>5000 gals W/ 3-6 ppg of 20/40 sand</u>		
<u>Flush w/ 4698 gals of slick water</u>		
<u>Max TP: 2433</u> Max Rate: <u>24.3</u> Total fluid pmpd: <u>429 bbls</u>		
<u>Avg TP: 1829</u> Avg Rate: <u>24.3</u> Total Prop pmpd: <u>41,000#</u>		
<u>ISIP: 2130</u> 5 min: <u> </u> 10 min: <u> </u> FG: <u>.87</u>	DAILY COST:	<u>\$10,339</u>
Completion Supervisor: <u>Ray Herrera</u>	TOTAL WELL COST:	<u>\$228,081</u>



Attachment G-1
4 of 9

DAILY COMPLETION REPORT

WELL NAME: Monument Butte State 4-2-9-16 **Report Date:** Jan 11,2003 **Completion Day:** 02

Present Operation: Completion **Rig:** Rigless

WELL STATUS

Surf Csg: 8 5/8 @ 312' **Prod Csg:** 5 1/2 **Wt:** 15.5# @ 6216' **Csg PBTD:** 6128' WL
Tbg: Size: **Wt:** **Grd:** **Anchor @:** **BP/Sand PBTI:** 4985'
BP/Sand PBTD: 4770'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
			D1 sds	4909 -4911'	4/8
GB 2 sds	4313 -4318'	4/20	D1 sds	4924 -4934'	4/40
GB 2 sds	4322 -4325'	4/12	B2 sds	5241 -5248'	4/28
GB 4 sds	4414 -4417'	4/12	A3 sds	5406 -5411'	4/20
GB6 sds	4451 -4455'	4/16	A3 sds	5427 - 5429'	4/8
PB 11 sds	4712 -4720'	4/32	A3 sds	5442- 5450'	4/32

CHRONOLOGICAL OPERATIONS

Date Work Performed: Jan 10,2003 **SITP:** **SICP:**

Day 2 (c):

RU Schlumberger WLT, lubricator & crane. RIH W/ Weatherford 5 1/2" composite flow-through frac plug & 4" perf guns. Set plug @ 4770'. Perf as follows:PB 11 sds @ 4712 -20', GB 6 sds @ 4451-55',GB 4 sds @ 4414 -17',GB 2 sds @ 4322 -25', GB 2 sds @ 4313 -18'. 4 JSPF. 2 runs total. RU BJ and frac PB & GB sds W/ 100,680# 20/40 sand in 670 bbls Viking I-25 fluid. Perfs broke down @ 2695 psi. Treated @ ave press of 2043 psi W/ ave rate of 24.3 BPM. ISIP -2230 psi. RD BJ & WLT. Begin immediate flow back of fracs (B, A,D, PB, GB, sds) on 12/64 choke @ 1 BPM. Zone flowed 7 hrs & died. Rec 305 BTF (est 5 % of frac load). Est 1541 BWTR.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1176 **Starting oil rec to date:** 0
Fluid lost/recovered today: 365 **Oil lost/recovered today:**
Ending fluid to be recovered: 1541 **Cum oil recovered:** 0
IFL: **FFL:** **FTP:** **Choke:** **Final Fluid Rate:** **Final oil cut:**

STIMULATION DETAIL

Base Fluid used: Viking I-25 **Job Type:** Sand frac
Company: BJ Services

Procedure or Equipment detail: PB & GB sands

7500 gals of pad
5000 gals W/ 1-3 ppg of 20/40 sand
10000 gals W/ 3-6 ppg of 20/40 sand
2500 gals W/ 8.0 ppg of 20/40 sand
Flush w/ 4311 gals of slick water

COSTS

Weatherford plugs \$5,476
BJ Services PB & GB \$16,191
IPC Supervision \$100
IPC Flowback \$200
Schlumberger perf \$7,180
IPC frac tks(4x2 days) \$360
IPC Frac head rental \$300

Max TP: 2695 **Max Rate:** 25.2 **Total fluid pmpd:** 670 bbls
Avg TP: 2043 **Avg Rate:** 24.3 **Total Prop pmpd:** 100,680#
ISIP: 2230 **5 min:** **10 min:** **FG:** .93

Completion Supervisor: Ray Herrera

DAILY COST: \$29,807
TOTAL WELL COST: \$257,888



Attachment G-1
8 of 9

DAILY COMPLETION REPORT

WELL NAME: Monument Butte State 4-2-9-16 **Report Date:** Jan. 16, 2003 **Completion Day:** 06

Present Operation: Completion **Rig:** Pool # 822

WELL STATUS

Surf Csg: 8 5/8 @ 312' **Prod Csg:** 5 1/2 **Wt:** 15.5# @ 6216' **Csg PBDT:** 6162'
Tbg: **Size:** 2 7/8" **Wt:** 6.5# **Grd:** J-55 **Anchor @:** 5383' **BP/Sand PBDT:** 6148'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB 2 sds	4313 -4318'	4/20	D1 sds	4909 -4911'	4/8
GB 2 sds	4322 -4325'	4/12	D1 sds	4924 -4934'	4/40
GB 4 sds	4414 -4417'	4/12	B2 sds	5241 -5248'	4/28
GB6 sds	4451 -4455'	4/16	A3 sds	5406 -5411'	4/20
PB 11 sds	4712 -4720'	4/32	A3 sds	5427 -5429'	4/8
			A3 sds	5442 -5450'	4/32

CHRONOLOGICAL OPERATIONS

Date Work Performed: Jan. 15, 2003 **SITP:** 0 **SICP:** 0

Con't TOH W/ tbg f/ 5501'--LD bit. TIH W/ BHA & production tbg as follows: 2 7/8 NC, 2 jts tbg, new SN, 2 jts tbg, repaired Randys' 5 1/2" TA (45K) & 171 jts 2 7/8 8rd 6.5# J-55 tbg. ND BOP. Strip off 5M production tbg head & strip on 3M production tbg head. Set TA @ 5383' W/ SN @ 5449' & EOT @ 5513'. Land tbg W/ 13,000# tension. NU wellhead. PU & TIH W/ pump & rod string as follows: repaired Randys' 2 1/2" X 1 1/2" X 15' RHAC pump, 6-1 1/2" weight rods (A grade W/ 3/4" pins), 10-3/4" scraped rods (B grade), 101-3/4" plain rods (B grade), 100-3/4" scraped rods (B grade), 1-8' & 1-2' X 3/4" pony rods (A grade) & 1 1/2" X 22' polished rod (A grade). Seat pump & space out rod string. SIFN W/ est 1583 BWTR.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1583 **Starting oil rec to date:** 85
Fluid lost/recovered today: 0 **Oil lost/recovered today:** 0
Ending fluid to be recovered: 1583 **Cum oil recovered:** 85
IFL: _____ **FFL:** _____ **FTP:** _____ **Choke:** _____ **Final Fluid Rate:** _____ **Final oil cut:** _____

STIMULATION DETAIL

COSTS

TUBING DETAIL		ROD DETAIL		COSTS	
				Pool rig	\$2,582
				Weatherford BOP	\$130
KB	12.00'	1 1/2" X 22' polished rod		Randys SN	\$70
171	2 7/8 J-55 tbg (5371.06')	1-2', 1-8' X 3/4" pony rods		Zubiate HO trk	\$445
	TA (2.75' @ 5383.06' KB)	100-3/4" scraped rods		Randys rod pump	\$1,200
2	2 7/8 J-55 tbg (62.88')	101-3/4" plain rods		Randys TA	\$350
	SN (1.10' @ 5448.69' KB)	10-3/4" scraped rods		A & B grade rod string	\$8,544
2	2 7/8 J-55 tbg (62.78')	6-1 1/2" weight rods		RNI wtr disposal (pit)	\$1,500
	2 7/8 NC (.45')	Randys' 2 1/2" X 1 1/2" X 15'		IPC supervision	\$300
EOT	5513.02' W/ 12' KB	RHAC pump W/ SM plunger			

DAILY COST: \$15,121
TOTAL WELL COST: \$381,673

Workover Supervisor: Gary Dietz

ATTACHMENT H

WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4457'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 151' balance plug using 18 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14 sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Plug #4 Pump 42 sx Class "G" Cement down 5-1/2" casing to 362'

The approximate cost to plug and abandon this well is \$59,344.

Monument Butte #4-2-9-16

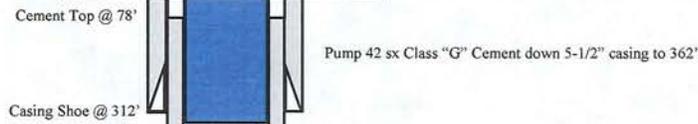
Spud Date: 8/29/02
 Put on Production: 1/16/03
 GL:5576' KB:5586'

Initial Production: 44 BOPD,
 103 MCFD, 14 BWPD

Proposed P & A Wellbore Diagram

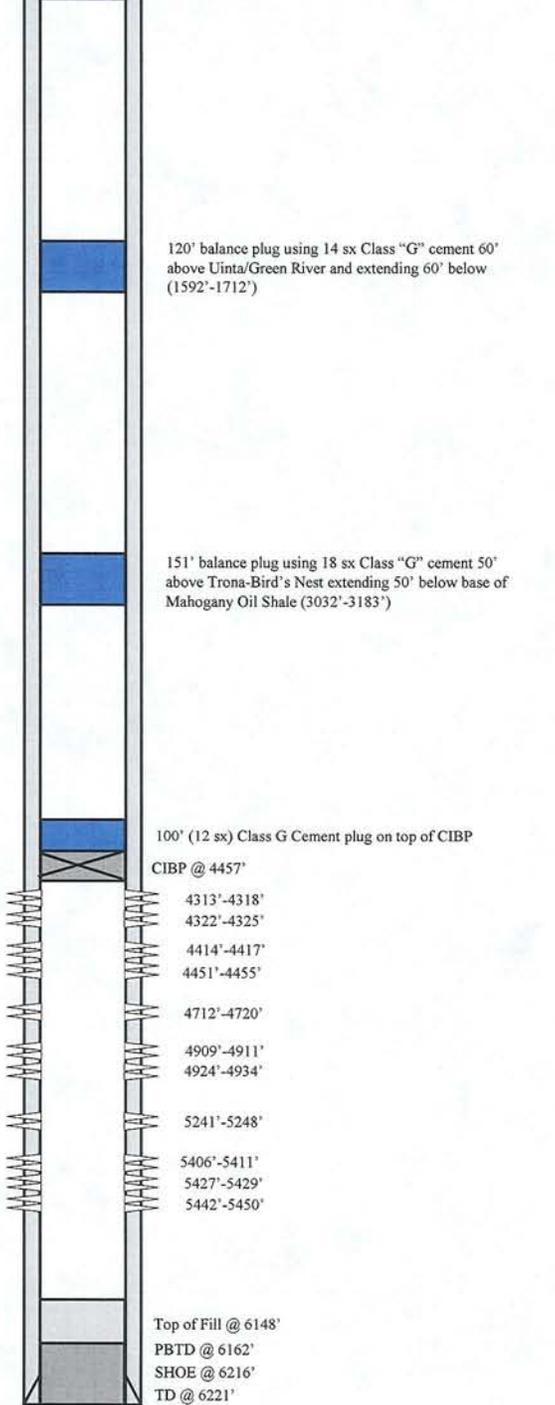
SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (303.6')
 DEPTH LANDED: 311.6' KB
 HOLE SIZE: 12 1/4"
 CEMENT DATA: 145 sxs Class "G" mixed cmt, est 4 bbls cmt to surf.



PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 144 jts. (6217.59')
 DEPTH LANDED: 6217.59' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 550 sxs 50/50 POZ mixed.
 CEMENT TOP AT: 78'





Monument Butte 4-2-9-16
 587' FNL & 640' FWL
 NW/NW Section 2-T9S-R16E
 Duchesne Co, Utah
 API #43-013-32315; Lease #ML-21839

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

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTAH STATE ML-21839

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
MON BUTTE UNIT

8. WELL NAME and NUMBER:
MONUMENT BUTTE 4-2-9-16

9. API NUMBER:
4301332315

10. FIELD AND POOL, OR WILDCAT:
MONUMENT BUTTE

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

1. TYPE OF WELL: OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL:
FOOTAGES AT SURFACE: 587 FNL 640 FWL COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWNW, 2, T9S, R16E STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will <u>09/28/2009</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: -
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
Newfield Production proposes to convert the above mentioned well from a producing oil well to an injection well.

NAME (PLEASE PRINT) Eric Sundberg TITLE Regulatory Analyst
SIGNATURE  DATE 10/2/09

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH
NOTICE OF AGENCY ACTION
CAUSE NO. UIC-356

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 35, TOWNSHIP 8 SOUTH, RANGE 16 EAST, AND IN SECTIONS 1, 2, TOWNSHIP 9 SOUTH, RANGE 16 EAST; DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company for administrative approval of the following wells in Duchesne County, Utah, for conversion to Class II injection wells:

Jonah Unit:

Monument Butte Federal 31-1J-9-16 well located in NW/4 NE/4, Section 1, Township 9 South, Range 16 East

Monument Butte Unit:

Monument Butte 4-2-9-16 well located in NW/4 NW/4, Section 2, Township 9 South, Range 16 East

Monument Butte Federal 4A-35R-8-16 well located in NW/4 NW/4, Section 35, Township 8 South, Range 16 East

S. Monument Butte Unit:

Monument Butte State 8-2-9-16 well located in SE/4 NE/4, Section 2, Township 9 South, Range 16 East

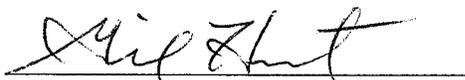
The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Gil Hunt, Associate Director, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 15th day of October, 2009.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING



Gil Hunt
Associate Director

Newfield Production Company

**MONUMENT FEDERAL 31-1J-9-16, MONUMENT BUTTE 4-2-9-16, MONUMENT BUTTE
FEDERAL 4A-35R-8-16, MONUMENT BUTTE STATE 8-2-9-16**

Cause No. UIC-356

Publication Notices were sent to the following:

Newfield Production Company
1001 17th Street, Suite 2000
Denver, CO 80202

Uintah Basin Standard
268 South 200 East
Roosevelt, UT 84066
via Email ubs@ubstandard.com

Salt Lake Tribune
P.O. Box 45838
Salt Lake City, UT 84145
via Email naclegal@mediaoneutah.com

Vernal Office
Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Michael Hyde
Duchesne County Planning
P O Box 317
Duchesne, UT 84021-0317

Bruce Suchomel
US EPA Region 8
MS 8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129

Newfield Production Company
Rt 3 Box 3630
Myton UT 84052

SITLA
675 East 500 South
Salt Lake City, UT 84102-2818



Jean Sweet

October 15, 2009

Via e-mail: ubs@ubstandard.com

Uintah Basin Standard
268 South 200 East
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-356

To whom it may concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing to:

Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, UT 84114-5801

Sincerely,



Jean Sweet
Executive Secretary

Enclosure

October 15, 2009

VIA E-MAIL naclegal@mediaoneutah.com

Salt Lake Tribune
P. O. Box 45838
Salt Lake City, UT 84145

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-356

To whom it may concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing for **account #9001402352** to:

Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, UT 84114-5801

Sincerely,



Jean Sweet
Executive Secretary

Enclosure

Jean Sweet - RE: Notice of Agency Action - Newfield Production Company Cause No. UIC-356

From: "NAC Legal" <naclegal@mediaoneutah.com>
To: "Jean Sweet" <jsweet@utah.gov>
Date: 10/16/2009 8:23 AM
Subject: RE: Notice of Agency Action - Newfield Production Company Cause No. UIC-356

Ad #508998 is scheduled to run October 20.
Total charge is \$162.50. Please check the ad in the paper.

Thank you,

Lynn Valdez
MediaOne of Utah,
a Newspaper Agency Company
4770 South 5600 West
West Valley City, Utah 84118
Ph.: 801-237-2720
Email: naclegal@mediaoneutah.com

From: Jean Sweet [mailto:jsweet@utah.gov]
Sent: Thursday, October 15, 2009 11:26 AM
To: naclegal@mediaoneutah.com
Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-356

To whom it may concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing for **account #9001402352** to:

Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet, Executive Secretary
Utah Div. of Oil, Gas & Mining
1594 West Temple, Suite 1210
Salt Lake City, UT
801-538-5329
jsweet@utah.gov

From: Bonnie <bonnie@ubstandard.com>
To: <jsweet@utah.gov>
Date: 10/19/2009 8:19 AM
Subject: Legal Notices

Jean,
UIC-356 and UIC 213 will publish on October 20, 2009.
Thank you,

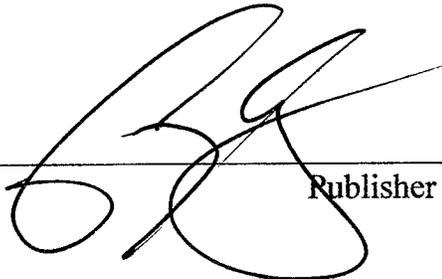
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Bonnie Parrish
Uintah Basin Standard
268 South 200 East
Roosevelt, UT 84066
(435) 722-5131
(435) 722-4140 Fax
bonnie@ubstandard.com

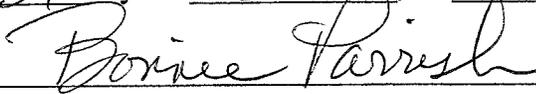
AFFIDAVIT OF PUBLICATION

County of Duchesne,
STATE OF UTAH

I, Craig L. Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 20 day of October, 2009, and that the last publication of such notice was in the issue of such newspaper dated the 20 day of October, 2009.



Publisher

Subscribed and sworn to before me this
21 day of October, 2009


Notary Public



**BEFORE
THE
DIVISION
OF OIL,
GAS AND
MINING
DEPARTMENT
OF
NATURAL
RESOURCES
STATE OF
UTAH
NOTICE OF
AGENCY
ACTION
CAUSE NO.
UIC-356**

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 35, TOWNSHIP 8 SOUTH, RANGE 16 EAST, AND IN SECTIONS 1, 2, TOWNSHIP 9 SOUTH, RANGE 16 EAST; DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company for administrative approval of the following wells in Duchesne County, Utah, for conversion to Class II injection wells:

Jonah Unit:

Monument Butte Federal 31-1J-9-16 well located in NW/4 NE/4, Section 1, Township 9 South, Range 16 East

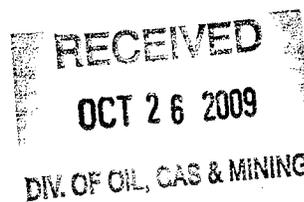
Monument Butte Unit:

Monument Butte 4-2-9-16 well located in NW/4 NW/4, Section 2, Township 9 South, Range 16 East

Monument Butte Federal 4A-35R-8-16 well located in NW/4 NW/4, Section 35, Township 8 South, Range 16 East

S. Monument Butte Unit:

Monument Butte State 8-2-9-16 well located



eral 4A-35R-8-16 well located in NW/4 NW/4, Section 35, Township 8 South, Range 16 East

S. Monument Butte Unit:

Monument Butte State 8-2-9-16 well located in SE/4 NE/4, Section 2, Township 9 South, Range 16 East

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Gil Hunt,

Associate Director, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 15th day of October, 2009.

STATE OF UTAH
DIVISION OF OIL,
GAS & MINING

/s/ Gil Hunt

Associate Director

Published in the Uintah
Basin Standard October
20, 2009.

4770 S. 5600 W.
P.O. POX 704005
WEST VALLEY CITY, UTAH 84170
FED.TAX I.D.# 87-0217663

PROOF OF PUBLICATION

CUSTOMER'S COPY

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING, 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	9001402352	10/21/2009

ACCOUNT NAME	
DIV OF OIL-GAS & MINING,	
TELEPHONE	ADORDER# / INVOICE NUMBER
8015385340	0000508998 /
SCHEDULE	
Start 10/20/2009	End 10/20/2009
CUST. REF. NO.	
356	
CAPTION	
BEFORE THE DIVISION OF OIL, GAS AND MINI	
SIZE	
63 Lines	2.00 COLUMN
TIMES	RATE
2	
MISC. CHARGES	AD CHARGES
TOTAL COST	
162.50	

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH
NOTICE OF AGENCY ACTION
CAUSE NO. UIC-356

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 35, TOWNSHIP 8 SOUTH, RANGE 16 EAST, AND IN SECTIONS 1, 2, TOWNSHIP 9 SOUTH, RANGE 16 EAST; DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company for administrative approval of the following wells in Duchesne County, Utah, for conversion to Class II injection wells:

Jonah Unit:
Monument Butte Federal 31-JJ-9-16 well located in NW/4 NE/4, Section 1, Township 9 South, Range 16 East
Monument Butte Unit:
Monument Butte 4-2-9-16 well located in NW/4 NW/4, Section 2, Township 9 South, Range 16 East
Monument Butte Federal 4A-35R-8-16 well located in NW/4 NW/4, Section 35, Township 8 South, Range 16 East
S. Monument Butte Unit:
Monument Butte State 8-2-9-16 well located in SE/4 NE/4, Section 2, Township 9 South, Range 16 East

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Gil Hunt, Associate Director, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 15th day of October, 2009.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
s/ Gil Hunt
Gil Hunt
Associate Director UPA:LP
508998

RECEIVED
OCT 27 2009

DIV. OF OIL, GAS & MINING

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF BEFORE THE DIVISION OF OIL, GAS AND MINI FOR DIV OF OIL-GAS & MINING WAS PUBLISHED BY THE NEWSPAPER AGENCY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON Start 10/20/2009 End 10/20/2009

SIGNATURE *Senny Craft*

DATE 10/21/2009

Notary Public
ELIZABETH G. CORDOVA
6402 West 4200 South
West Valley City, Utah 84120
My Commission Expires
January 18, 2010
State of Utah

Elizabeth Cordova

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
PLEASE PAY FROM BILLING STATEMENT

**DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM
PERMIT
STATEMENT OF BASIS**

Applicant: Newfield Production Company **Well:** Monument Butte 4-2-9-16

Location: 2/9S/16E **API:** 43-013-32315

Ownership Issues: The proposed well is located on State of Utah land. The well is located in the Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM and the State of Utah. The Federal Government and the State of Utah are the mineral owners within the area of review. Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

Well Integrity: The proposed well has surface casing set at 312 feet and has a cement top at the surface. A 5½ inch production casing is set at 6,218 feet. Although the cement bond log is inconclusive, calculations based on the cement reported in the well completion report indicate adequate bond in this well up to about 2,340 feet (calculated top of “lite” cement). A 2 7/8 inch tubing with a packer will be set at 4,263. Higher perforations will be opened at a later date. A mechanical integrity test will be run on the well prior to injection. There are 7 producing wells and 5 injection wells in the area of review. All of the wells have evidence of adequate casing and cement. Inasmuch as several logs are of dubious quality or do not exhibit conclusive cement tops, it has been necessary to calculate approximate tops for “lite” cement, based on the cement indicated in the well completion report. Furthermore, it is desirable to demonstrate that cement tops are significantly higher than the top (3,450 feet) of the injection interval in the previously permitted, active injection well, Castle Peak 1-3, located approximately ¼ mile east of the Monument Butte 4-2 well.

Ground Water Protection: According to Technical Publication No. 92 the base of moderately saline water is at a depth of approximately 800 feet. Injection shall be limited to the interval between 4,212 feet and 6,180 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 4-2-9-16 well is 0.78 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,806 psig. The requested maximum pressure is 1,806 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any groundwater present should be adequately protected.

Monument Butte 4-2-9-16
page 2

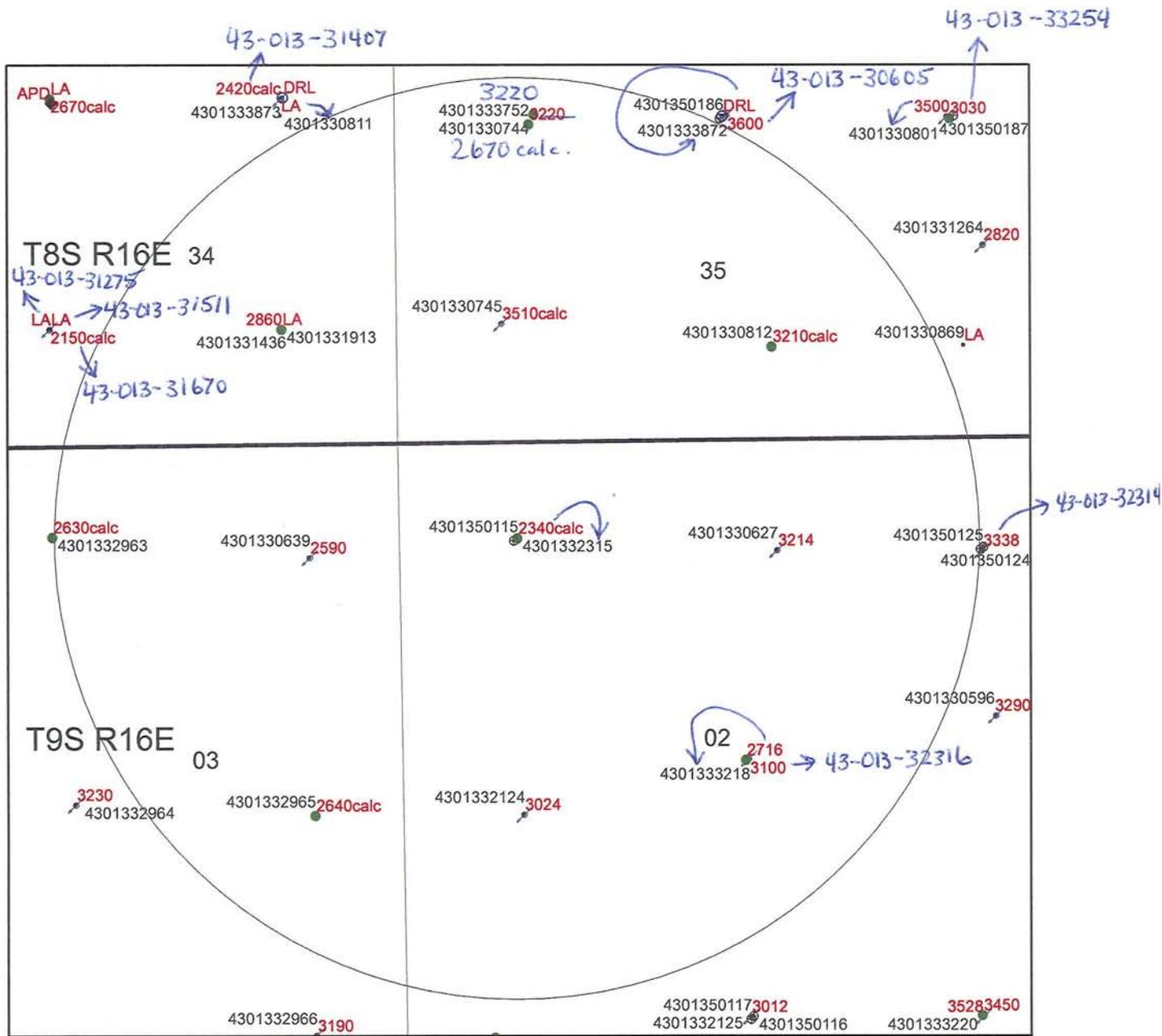
Oil/Gas& Other Mineral Resources Protection: The Board of Oil, Gas & Mining approved the Monument Butte Unit on August 14, 1987. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

Bonding: Bonded with the State of Utah.

Actions Taken and Further Approvals Needed: A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Mark Reinbold Date 10/27/2009



MONUMENT BUTTE 4-2-9-16

API #43-013-32315

UIC-356.2

Legend

OGM Database View Events

X <all other values>

Status

◆ APD - Approved Permit

⊙ DRL - Spudded (Drilling Commenced)

★ GIW - Gas Injection

★ GS - Gas Storage

△ LA - Location Abandoned

⊕ LOC - New Location

△ OPS - Operation Suspended

⊕ PA - Plugged Abandoned

★ PGW - Producing Gas Well

● POW - Producing Oil Well

⊙ RET - Returned APD

★ SGW - Shut-in Gas Well

● SOW - Shut-in Oil Well

⊙ TA - Temp. Abandoned

○ TW - Test Well

⊙ WDW - Water Disposal

⊙ WIW - Water Injection Well

● WSW - Water Supply Well

1870calc = approx cement top calculated from well completion report



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

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTAH STATE ML-21839

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME:
GMBU

1. TYPE OF WELL: OIL WELL GAS WELL OTHER

8. WELL NAME and NUMBER:
MONUMENT BUTTE 4-2-9-16

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
4301332315

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

10. FIELD AND POOL, OR WILDCAT:
GREATER MB UNIT

4. LOCATION OF WELL:
FOOTAGES AT SURFACE: 587 FNL 640 FWL

COUNTY: DUCHESNE

OTR/TR. SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW, 2, T9S, R16E

STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 08/31/2010	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: -
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

The subject well has been converted from a producing oil well to an injection well on 08/17/2010. On 08/26/2010 Dennis Ingram with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. Permission was given at that time to perform the test on 08/26/2010. On 08/31/2010 the casing was pressured up to 1120 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 608 psig during the test. There was not a State representative available to witness the test.

API# 43-013-32315

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE 

DATE 09/07/2010

(This space for State use only)

RECEIVED

SEP 20 2010

DIV. OF OIL, GAS & MINING

Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company

Rt. 3 Box 3630
Myton, UT 84052
435-646-3721

Witness: _____ Date 8 / 31 / 10 Time 12:00 am pm

Test Conducted by: NEWFIELD Exploration

Others Present: _____

Well: <u>MONUMENT BUTTE 4-2-9-16</u>	Field: <u>MONUMENT BUTTE</u>
Well Location: <u>NW/NW, Sec. 2, T9S, R16E</u>	API No: <u>43-013-32315</u>

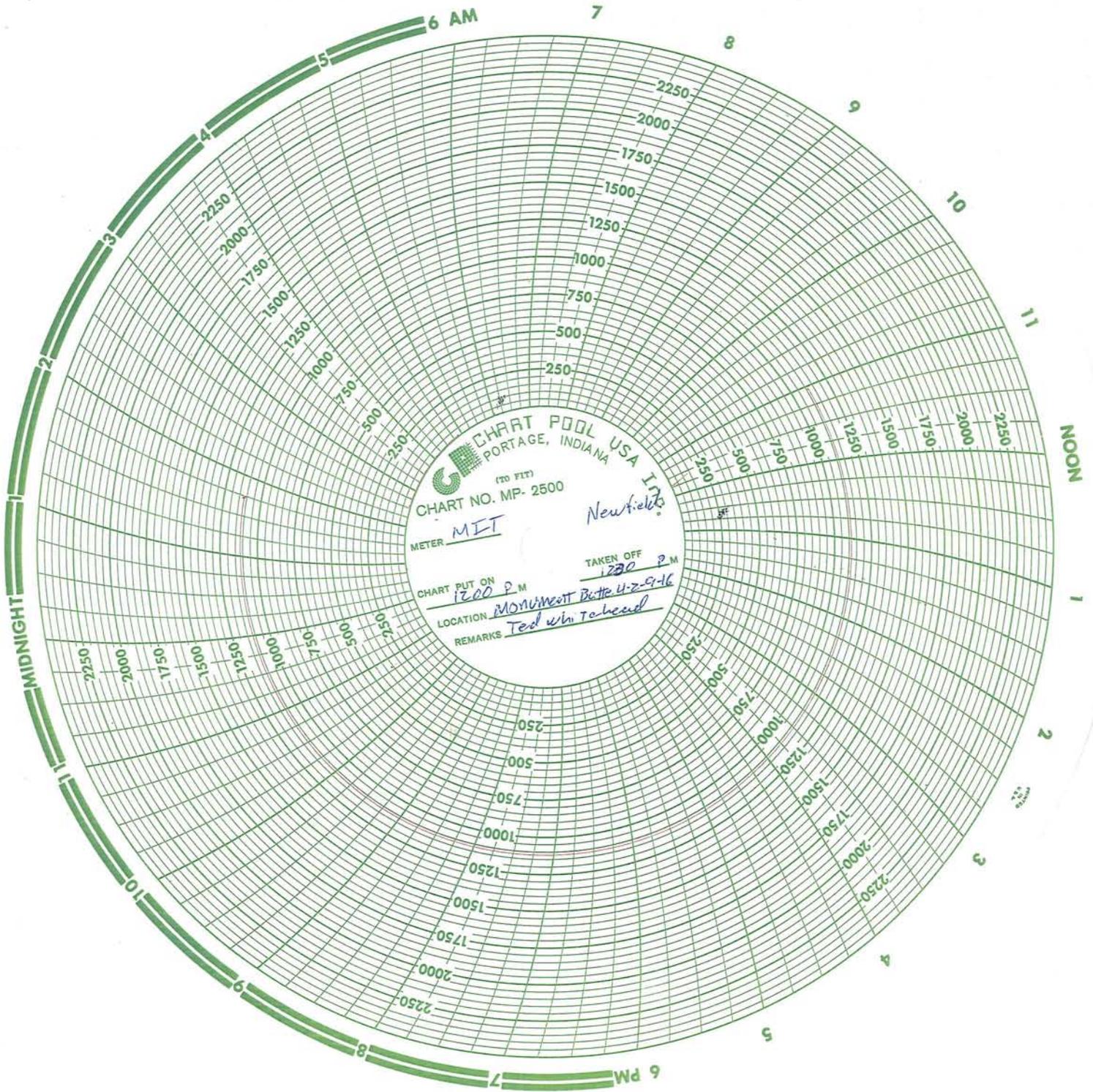
<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1120</u>	psig
5	<u>1120</u>	psig
10	<u>1120</u>	psig
15	<u>1120</u>	psig
20	<u>1120</u>	psig
25	<u>1120</u>	psig
30 min	<u>1120</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

Tubing pressure: 608 psig

Result: Pass Fail

Signature of Witness: _____

Signature of Person Conducting Test: Bob Whitehead



Daily Activity Report

Format For Sundry

MON BT 4-2-9-16

6/1/2010 To 10/30/2010

8/14/2010 Day: 1

Conversion

Nabors #809 on 8/14/2010 - MIRU. Unseat rods. Flush w/ 45 BW. Soft seat & pressure test to 3000 psi. Unseat rod pump. LD 25 3/4" rods. SIWFN. - MIRU. Unhang head. Hot oiler pumped 60 BW down csg. Unseat rod pump. Flush tbg & rods w/ 45 BW. Soft seat rods. Pressure test to 3000 psi. Good test. Unseat rod pump. LD 25- 3/4" guided rods. SIWFN. - MIRU. Unhang head. Hot oiler pumped 60 BW down csg. Unseat rod pump. Flush tbg & rods w/ 45 BW. Soft seat rods. Pressure test to 3000 psi. Good test. Unseat rod pump. LD 25- 3/4" guided rods. SIWFN. **Finalized**

Daily Cost: \$0

Cumulative Cost: (\$8,009)

8/17/2010 Day: 2

Conversion

Nabors #809 on 8/17/2010 - Finish LD rods. TOH w/ tbg breaking & doping. 136 jts out. SWIFN w/ EOT @ 1210'. - Flush tbg & rods w/ 20 BW. Continue LD rods. ND WH. Release TA. NU BOP. TOH w/ 136 jts tbg. Breaking, Doping & inspecting every connection. Flushed 4 times on TOH. TA was dragging on TOH. SIWFN w/ EOT @ 1210'. - Flush tbg & rods w/ 20 BW. Continue LD rods. ND WH. Release TA. NU BOP. TOH w/ 136 jts tbg. Breaking, Doping & inspecting every connection. Flushed 4 times on TOH. TA was dragging on TOH. SIWFN w/ EOT @ 1210'. **Finalized**

Daily Cost: \$0

Cumulative Cost: \$79

8/18/2010 Day: 3

Conversion

Nabors #809 on 8/18/2010 - LD extra tbg. TIH w/ pkr & tbg. Pressure test tbg. Fish SV. ND BOP. Pumped pkr fluid. Set pkr. NU WH. Pressure test csg to 1400 psi. RDMOSU. - Hot oiler flushed tbg w/ 20 BW. LD 35 jts, TA, 2 jts, SN, 2 jts, NC. PU & RIH w/ WLEG, 5 1/2" AS1 pkr, SN & 136 jts of 2 7/8" J-55 tbg. Flush tbg w/ 30 BW. Drop SV. Fill tbg w/ 20 BW. Pressure test tbg to 3000 psi. Final pressure test held 3000 psi w/ no pressure lose in 30 min. Fish SV. ND BOP. Land tbg on flange. Pumped 65 bbls of fresh water w/ pkr fluid. Unland tbg. Set pkr w/ 15,000#'s of tension. NU WH. Pressure test csg & pkr to 1400 psi. No pressure lose in 30 mins. RDMOSU. READY FOR MIT. - Hot oiler flushed tbg w/ 20 BW. LD 35 jts, TA, 2 jts, SN, 2 jts, NC. PU & RIH w/ WLEG, 5 1/2" AS1 pkr, SN & 136 jts of 2 7/8" J-55 tbg. Flush tbg w/ 30 BW. Drop SV. Fill tbg w/ 20 BW. Pressure test tbg to 3000 psi. Final pressure test held 3000 psi w/ no pressure lose in 30 min. Fish SV. ND BOP. Land tbg on flange. Pumped 65 bbls of fresh water w/ pkr fluid. Unland tbg. Set pkr w/ 15,000#'s of tension. NU WH. Pressure test csg & pkr to 1400 psi. No pressure lose in 30 mins. RDMOSU. READY FOR MIT.

Daily Cost: \$0

Cumulative Cost: \$6,399

9/2/2010 Day: 4

Conversion

Rigless on 9/2/2010 - Conversion MIT. - On 8/26/2010 Dennis Ingram with the State of Utah DOGM was contacted concerning the Conversion MIT on the above listed well (Monument Butte 4-2-9-16). Permission was given at that time to perform the test on 8/26/2010. On

8/31/2010 the csg was pressured up to 1120 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test . The tbg pressure was 608 psig during the test. There was not a State representative available to witness the test. API # 43-013-32315 - On 8/26/2010 Dennis Ingram with the State of Utah DOGM was contacted concerning the Conversion MIT on the above listed well (Monument Butte 4-2-9-16). Permission was given at that time to perform the test on 8/26/2010. On 8/31/2010 the csg was pressured up to 1120 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test . The tbg pressure was 608 psig during the test. There was not a State representative available to witness the test. API # 43-013-32315 **Finalized**

Daily Cost: \$0

Cumulative Cost: \$31,719

Pertinent Files: Go to File List



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

November 24, 2009

Newfield Production Company
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

Subject: Monument Butte Unit Well: Monument Butte 4-2-9-16, Section 2, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing\tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.

A final approval to commence injection will be issued upon satisfactory completion of the listed stipulations. If you have any questions regarding this approval or the necessary requirements, please contact Mark Reinbold 801-538-5333 or Brad Hill at 801-538-5315.

Sincerely,

for Gil Hunt
Associate Director

GLH/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency
Bureau of Land Management, Vernal
SITLA
Duchesne County
Newfield Production Company, Myton
Well File

N:\O&G Reviewed Docs\ChronFile\UIC





GARY R. HERBERT
Governor

GREG 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

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-356

Operator: Newfield Production Company

Well: Monument Butte 4-2-9-16

Location: Section 2, Township 9 South, Range 16 East

County: Duchesne

API No.: 43-013-32315

Well Type: Enhanced Recovery (waterflood)

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on November 24, 2009.
2. Maximum Allowable Injection Pressure: 1,806 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (4,212' – 6,180')
5. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by:

Dan Jarvis
Acting Associate Director

Date

9/27/10

DJJ/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency
 Bureau of Land Management, Vernal
 Eric Sundberg, Newfield Production Company, Denver
 Newfield Production Company, Myton
 Duchesne County
 Well File

N:\O&G Reviewed Docs\ChronFile\UIC\Newfield



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

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTAH STATE ML-21839

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME:
GMBU

1. TYPE OF WELL: OIL WELL GAS WELL OTHER

8. WELL NAME and NUMBER:
MONUMENT BUTTE 4-2-9-16

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
4301332315

3. ADDRESS OF OPERATOR:
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER:
435.646.3721

10. FIELD AND POOL, OR WILDCAT:
GREATER MB UNIT

4. LOCATION OF WELL:
FOOTAGES AT SURFACE: 587 FNL 640 FWL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWNW, 2, T9S, R16E

STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will <u>10/06/2010</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Put on Injection
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
The above reference well was put on injection at 10:00 AM on 10/06/2010.

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant

SIGNATURE  DATE 10/06/2010

(This space for State use only)

RECEIVED
OCT 12 2010
DIV. OF OIL, GAS & MINING

Monument Butte 4-2-9-16

Spud Date: 8/29/02
 Put on Production: 1/16/03
 GL:5576' KB:5586'

Initial Production: 44 BOPD,
 103 MCFD, 14 BWPD

Injection Wellbore
 Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (303.6')
 DEPTH LANDED: 311.6' KB
 HOLE SIZE: 12 1/4"
 CEMENT DATA: 145 sxs Class "G" mixed cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 144 jts. (6217.59')
 DEPTH LANDED: 6217.59' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 550 sxs 50/50 POZ mixed.
 CEMENT TOP AT: 78'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 136 jts (4270.5')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 4282.5' KB
 CE @ 4286.83
 TOTAL STRING LENGTH: EOT @ 4291' w/12"KB

FRAC JOB

1/10/03 5241'-5450' **Frac B2, A3 sands as follows:**
 79,500# 20/40 sand in 600 bbls Viking I-25 fluid. Treated @ avg press of 1875 psi w/avg rate of 24.6 BPM. ISIP 1840 psi. Calc flush: 5241 gal. Actual flush: 5030 gal.

1/10/03 4909'-4934' **Frac D1 sand as follows:**
 41,000# 20/40 sand in 429 bbls Viking I-25 fluid. Treated @ avg press of 1829 psi w/avg rate of 24.3 BPM. ISIP 2130 psi. Calc flush: 4909 gal. Actual flush: 4698 gal.

1/10/03 4313'-4720' **Frac GB 2,4,6/ PB11 sands as follows:**
 100,680# 20/40 sand in 670 bbls Viking I-25 fluid. Treated @ avg press of 2043 psi w/avg rate of 24.3 BPM. ISIP 2230 psi. Calc flush: 4313 gal. Actual flush: 4311 gal.

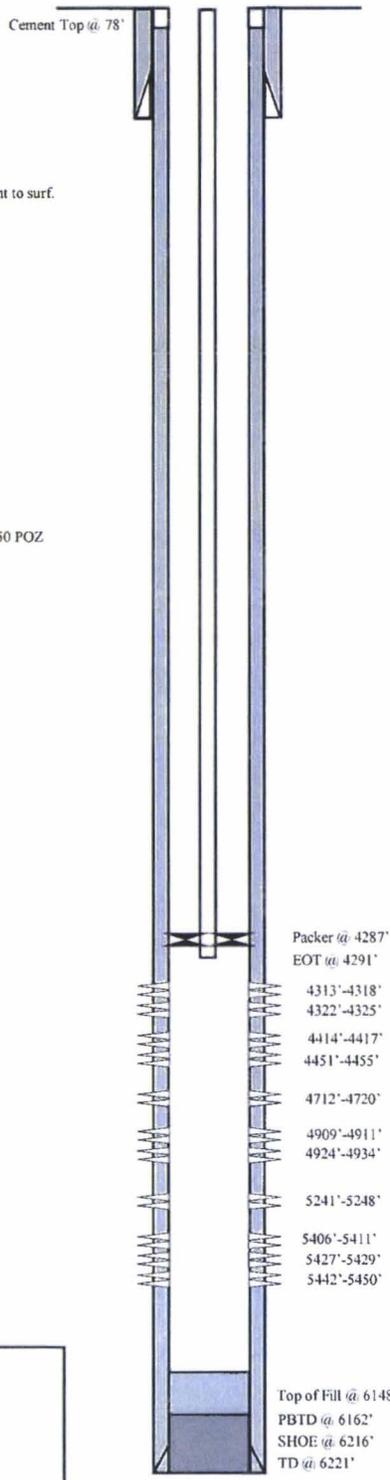
06/13/03 **Pump Change**

03/13/06 **Pump Change. Update rod and tubing details.**

7/1/08 **Pump Change. Updated rod and tubing detail.**

08-17-10 **Convert to Injection well**

08-31-10 **MIT Completed - tbg detail updated**



PERFORATION RECORD

Date	Interval	Type	Holes
1/9/03	5442'-5450'	4 JSPF	32 holes
1/9/03	5427'-5429'	4 JSPF	8 holes
1/9/03	5406'-5411'	4 JSPF	20 holes
1/9/03	5241'-5248'	4 JSPF	28 holes
1/10/03	4924'-4934'	4 JSPF	40 holes
1/10/03	4909'-4911'	4 JSPF	8 holes
1/10/03	4712'-4720'	4 JSPF	32 holes
1/10/03	4451'-4455'	4 JSPF	16 holes
1/10/03	4414'-4417'	4 JSPF	12 holes
1/10/03	4322'-4325'	4 JSPF	12 holes
1/10/03	4313'-4318'	4 JSPF	20 holes



Monument Butte 4-2-9-16
 587' FNL & 640' FWL
 NW/NW Section 2-T9S-R16E
 Duchesne Co, Utah
 API #43-013-32315; Lease #ML-21839

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-21839
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Water Injection Well		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		8. WELL NAME and NUMBER: MON BUTTE 4-2-9-16
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052		9. API NUMBER: 43013323150000
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0587 FNL 0640 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 02 Township: 09.0S Range: 16.0E Meridian: S		COUNTY: DUCHESNE
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/30/2015	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="5 YR MIT"/>

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

On 07/27/2015 Richard Powell with the State of Utah DOGM was contacted concerning the 5 Year MIT on the above listed well. On 07/30/2015 the casing was pressured up to 1495 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 1754 psig during the test. There was a State representative available to witness the test - Richard Powell.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
August 03, 2015**

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 7/31/2015	

Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company

Rt. 3 Box 3630
Myton, UT 84052
435-646-3721

Witness: _____ Date 7/30/15 Time 8:30 am pm

Test Conducted by: INAKI LASA

Others Present: _____

5 YEAR MIT

Well: MB 4-2-9-16
NW/4 SEC 2, T9S, R16E
ML-21839, UTV-37538X, UEL-151211
Well Location: Duchesne County, UTAH API No: 430133 2315
Field: Monument Butte

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>0</u>	psig
5	<u>1,496</u>	psig
10	<u>1,496</u>	psig
15	<u>1,495</u>	psig
20	<u>1,495</u>	psig
25	_____	psig
30 min	_____	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

Tubing pressure: 1,754 psig

Result: Pass Fail

Signature of Witness: _____

Signature of Person Conducting Test: Inaki Lasas

MB 4-2-9 16 5 Year MIT
7/30/2015 8:31:22 AM

