



March 20, 2000

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
ATTN: Lisha Cordova
P. O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Application for Permit to Drill
Lone Tree 16-16-9-17
Section 16, T9S, R17E
Duchesne County, Utah

Dear Ms. Cordova:

Enclosed please find an Application for Permit to Drill the above captioned well, which is being submitted in triplicate for your approval.

If you should require any additional information or if you have any questions, please contact me or Jon Holst at (303) 893-0102.

Sincerely,

A. L. Shipman
Operations Secretary

Enclosures

cc: Roosevelt Office

STATE OF UTAH
 DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NO.

ML-3453B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

APPLICATION FOR PERMIT TO DRILL, DEEPEN

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

1b. TYPE OF WELL

OIL GAS OTHER SINGLE ZONE MULTIPLE ZONE

7. UNIT AGREEMENT NAME

Beluga/Lone Tree

8. FARM OR LEASE NAME

Lone Tree

2. NAME OF OPERATOR

Inland Production Company

9. WELL NO.

#16-16-9-17

3. ADDRESS AND TELEPHONE NUMBER:

410 - 17th Street, Suite 700, Denver, CO 80202

Phone: (303) 893-0102

10. FIELD AND POOL OR WILDCAT

Monument Butte

4. LOCATION OF WELL (FOOTAGE)

At Surface **SESE 660' FSL & 660' FEL**

*4430856N
584995E*

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

**SESE
Sec. 16, T9S, R17E**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approx 14.9 Miles southeast of Myton, UT

12. County

Duchesne

13. STATE

UT

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

Approx 660' FLL & 1980' f/unit line

16. NO. OF ACRES IN LEASE

560

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 1269'

19. PROPOSED DEPTH

6500'

20. ROTARY OR CABLE TOOLS

Rotary

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

5299.2 GR

22. APPROX. DATE WORK WILL START*

2nd Quarter 2000

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#	300'	120 sx * back to surface
7 7/8	5 1/2	15.5#	TD	400 sx followed by 330 sx
				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 - Class G Cement, w/ 2% CaCl₂ & 1/4#/sk Cello-flake

Weight: 14.8 PPG YIELD: 1.37 Cu Ft/sk H2O Req: 6.4 gal/sk

LONG STRING - Lead: Premium Lite w/3% KCl & 10% gel

Weight: 11.0 PPG YIELD: 3.43 Cu Ft/sk H2O Req: 21.04 gal/sk

Tail: 50-50 POZ w/2% gel & 3% KCl

Weight: 14.2 PPG YIELD: 1.24 Cu Ft/sk H2O Req: 5.5 gal/sk

24.

Name & Signature

Jon Holst

Title: **Counsel**

Date: **3/6/00**

(This space for State use only)

API Number Assigned:

43013-32150

APPROVAL:

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

Date: **5/15/00**

By: *[Signature]*

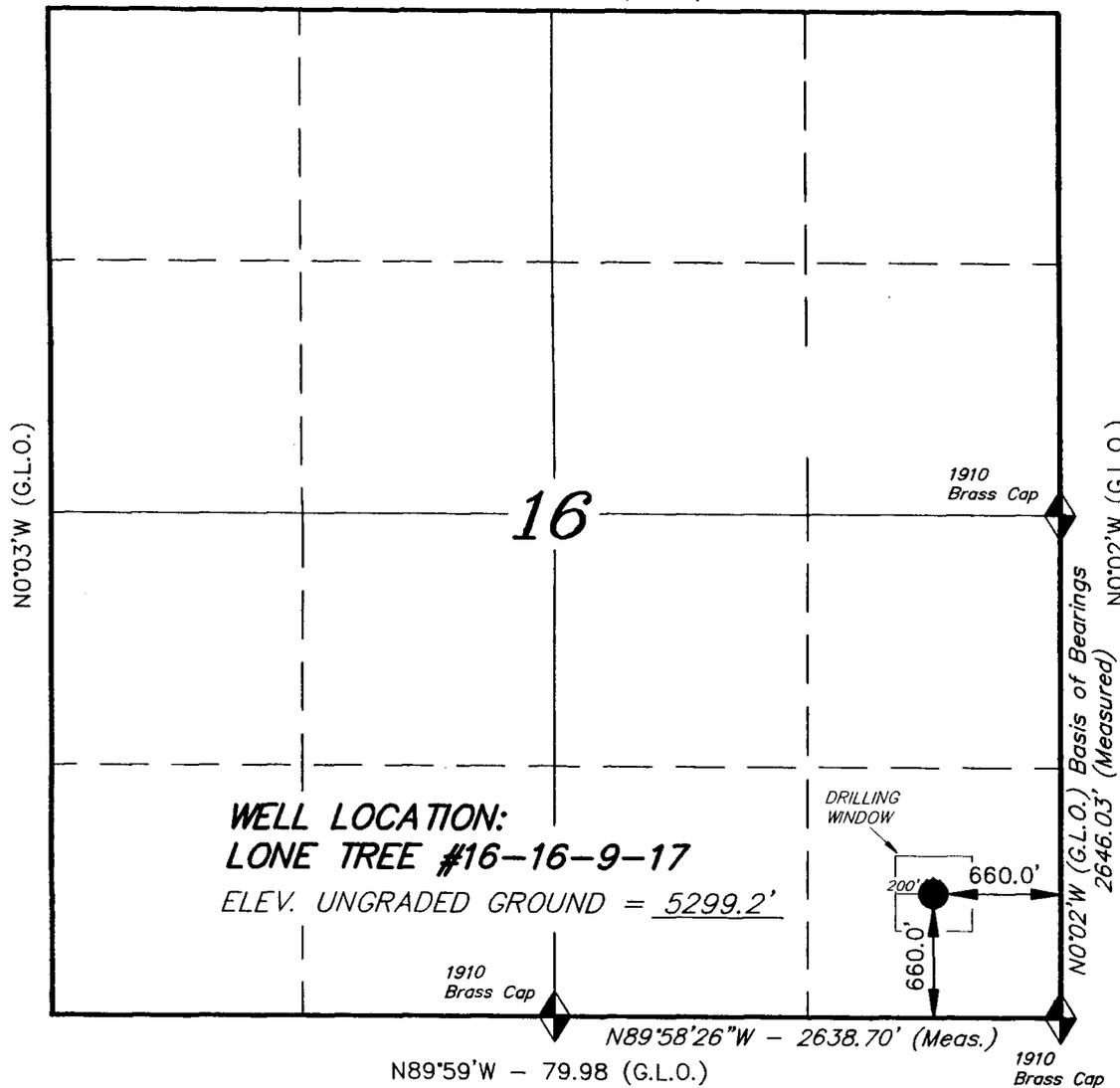
*See Instructions On Reverse Side

T9S, R17E, S.L.B.&M.

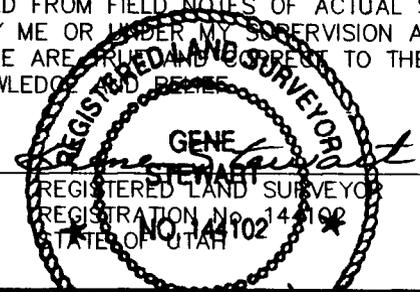
INLAND PRODUCTION COMPANY

N89°58'W - 79.94 (G.L.O.)

WELL LOCATION, LONE TREE #16-16-9-17,
 LOCATED AS SHOWN IN THE SE 1/4 SE 1/4
 OF SECTION 16, T9S, R17E, S.L.B.&M.
 DUCHESNE COUNTY, UTAH.



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



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

SCALE: 1" = 1000'	SURVEYED BY: D.S.
DATE: 12-28-99	WEATHER: FAIR
NOTES:	FILE #

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

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)

May 12, 2000

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2000 Plan of Development Lone Tree 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 2000 within the Lone Tree Unit, Duchesne County, Utah.

43-013-32087 Lone Tree 10-16-9-17 1830 FSL 1863 FEL Sec. 16, T9S, R17E Prop PZ-Grrv
43-013-32089 Lone Tree 15-16-9-17 575 FSL 1929 FEL Sec. 16, T9S, R17E Prop PZ-Grrv
43-013-32150 Lone Tree 16-16-9-17 660 FSL 660 FEL Sec. 16, T9S, R17E Prop PZ-Grrv

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

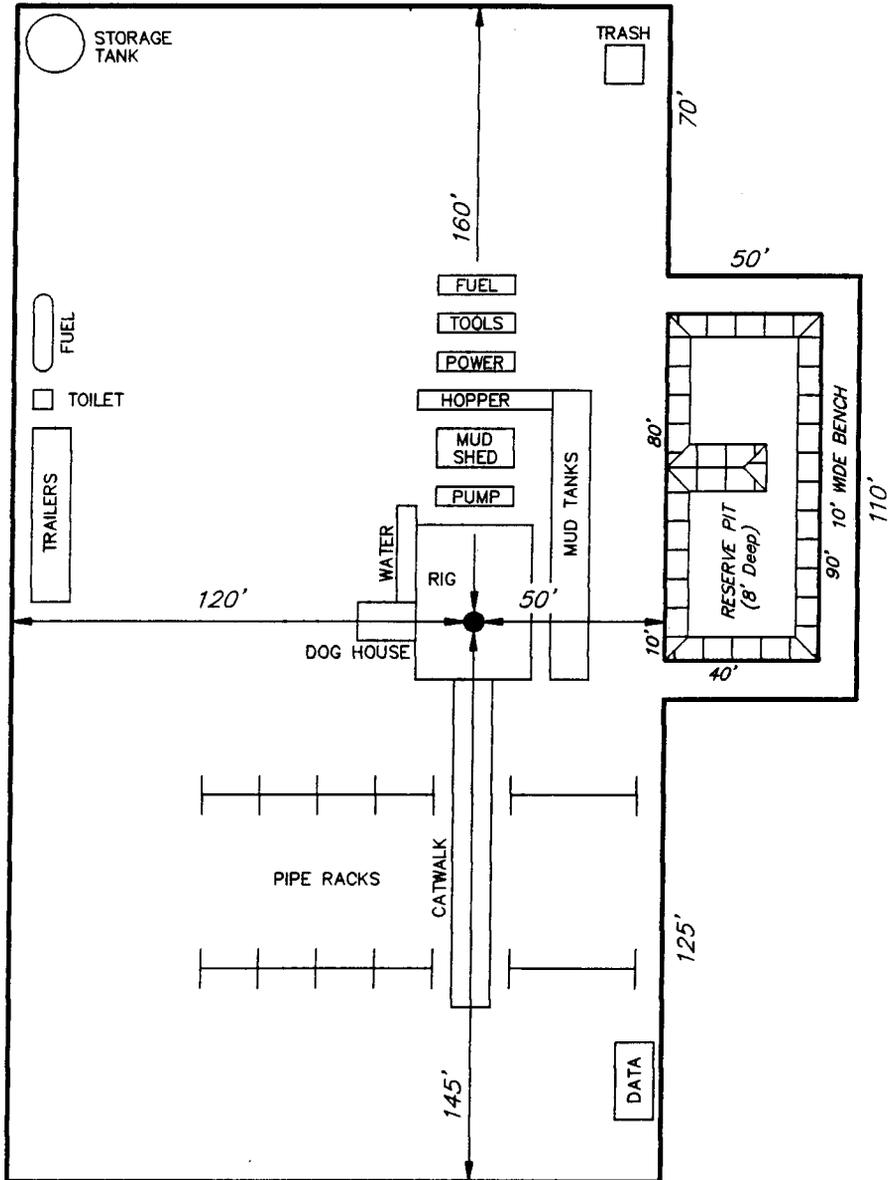
/s/ Michael L. Coulthard

bcc: File - Greater Boundary
Division of Oil Gas and Mining
Agr. Sec. Chron
Fluid Chron

Mcoulthard:mc:5-12-0

TYPICAL RIG LAYOUT

LONE TREE #16-16-9-17



Tri State
Land Surveying, Inc.
(801) 781-2501
38 WEST 100 NORTH, VERNAL, UTAH 84078

INLAND PRODUCTION COMPANY
LONE TREE 16-16-9-17
SESE SECTION 16, T9S, R17E
DUCHESNE COUNTY, UTAH

TEN POINT WELL PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

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

Uinta	0 – 1225'
Green River	1225'
Wasatch	6500'

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

Green River Formation 1225' – 6500' – Oil

4. **PROPOSED CASING PROGRAM:**

Surface Casing: 8-5/8" J-55 24# w/ST&C collars; set at 300' (New)
Production Casing: 5-1/2" J-55, 15.5# w/LT&C collars; set at TD (New or used, inspected); or
4-1/2" J-55 11.6# 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.

(See Exhibit F)

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

The well will be drilled with fresh water through the Uinta Formation. From the top of the Green River Formation @ 1225' +/- 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 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

MUD TYPE

Surface – 320'

Air

320' – 3800'

Air/Mist & Foam

3800' – TD

The well will be drilled with fresh water through the Green River Formation @ 4200' +/-, 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. Clay inhibition will be achieved with additions or by adding DAP (Di-Ammonium Phosphate, commonly known as fertilizer). Typically, this fresh water/polymer system 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.

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 @ 300' +/-, 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 second quarter of 2000, and take approximately eight (8) days from spud to rig release.

INLAND PRODUCTION COMPANY
LONE TREE 16-16-9-17
SESE SECTION 16, T9S, R17E
DUCHESNE COUNTY, UTAH

THIRTEEN POINT WELL PROGRAM

1. **EXISTING ROADS**

See attached **Topographic Map "A"**

To reach Inland Production Company well location site Lone Tree 16-16-9-17 located in the SESE Section 16, T9S, R17E S.L.B. & M., Duchesne County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 approximately 1.6 miles to the junction of this highway and Utah State Highway 53; proceed southerly along Utah State Highway 53 approximately 1.6 miles to its junction with Sandwash Road and continue southeast on Sandwash Road for approximately 8 miles where it junctions with Eight Mile Flat Road. Turn right to continue in a southwesterly direction on Sandwash Road for approximately 2.7 miles, turn left and proceed east for approximately 9/10 of a mile to the beginning of the proposed access road.

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 0.4 miles of access road is proposed.
See **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 D**.

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 the entire contents of the largest tank 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 water supply line from the Johnson Water District, or trucked from Inland Production Company's water supply line.

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

See Location Layout Sheet – **Exhibit E**.

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**

See Location Layout Sheet - See **Exhibit E**.

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. A water-processing unit may be employed to continuously recycle the drilling fluid as it is used, returning the fluid component to the drilling rig's steel tanks. The reserve pit will primarily 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, the operator may use a liner for the purpose of reducing water loss through percolation.

All completion fluids, frac gels, etc., will be contained in steel tanks and hauled away to approved commercial disposal, as necessary.

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 – **Exhibit E**.

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 Lone Tree 16-16-9-17, 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 Lone Tree 16-16-9-17 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

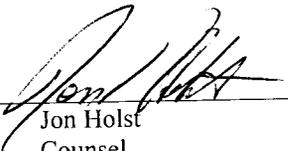
Name: Jon Holst
Address: 410 Seventeenth Street
Suite 700
Denver, CO 80202
Telephone: (303) 893-0102

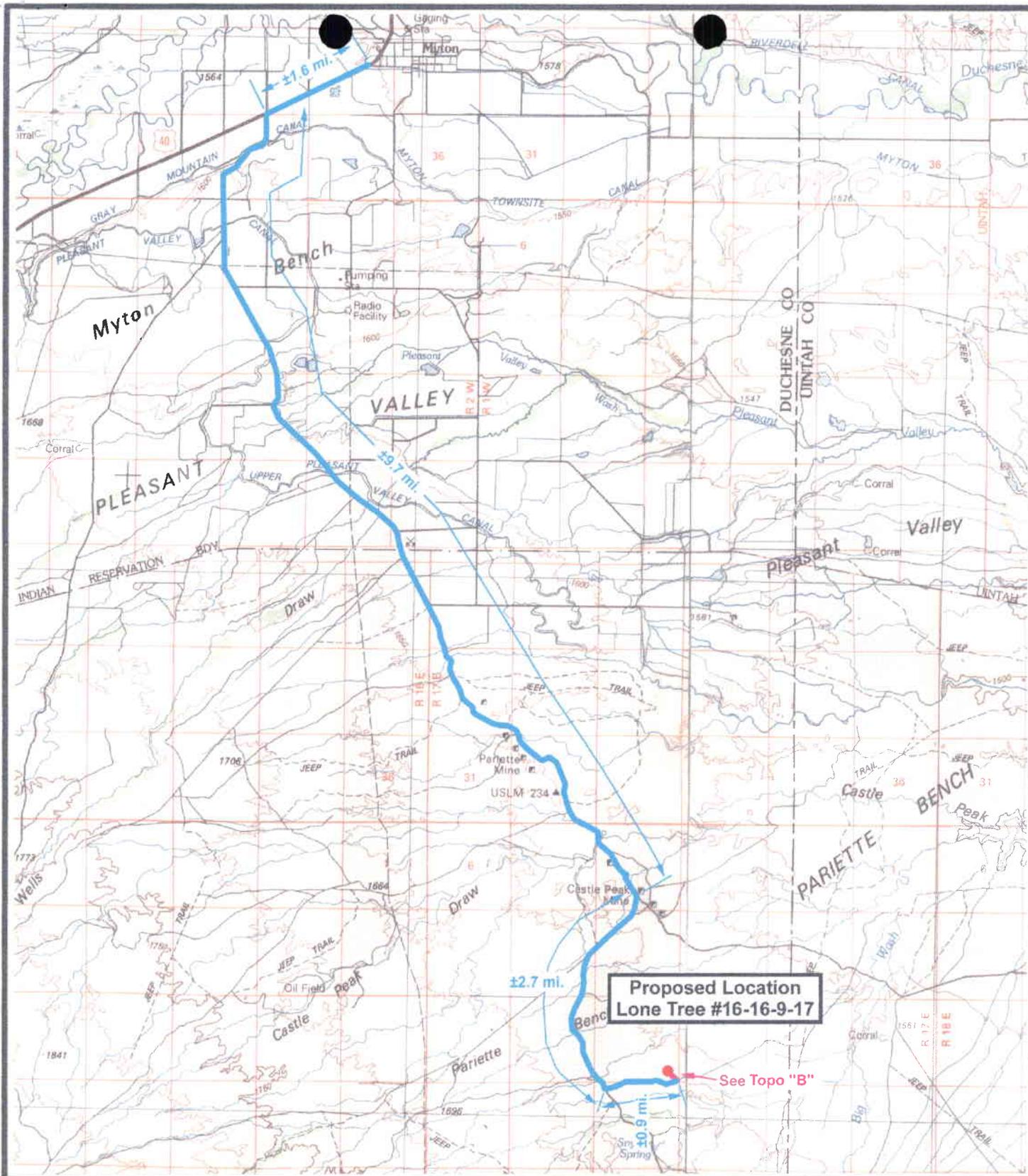
Certification

Please be advised that INLAND RESOURCES, INC. is considered to be the operator of well #16-16-9-17, SESE Section 16, T9S, R17E, Lease #ML-3453B, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4471291.

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

3/16/00
Date


Jon Holst
Counsel



**Proposed Location
Lone Tree #16-16-9-17**

See Topo "B"



**LONE TREE #16-16-9-17
SEC. 16, T9S, R17E, S.L.B.&M.
TOPOGRAPHIC MAP "A"**

RECEIVED
MAR 22 2000
DIVISION OF OIL GAS AND MINES



Drawn By: SS

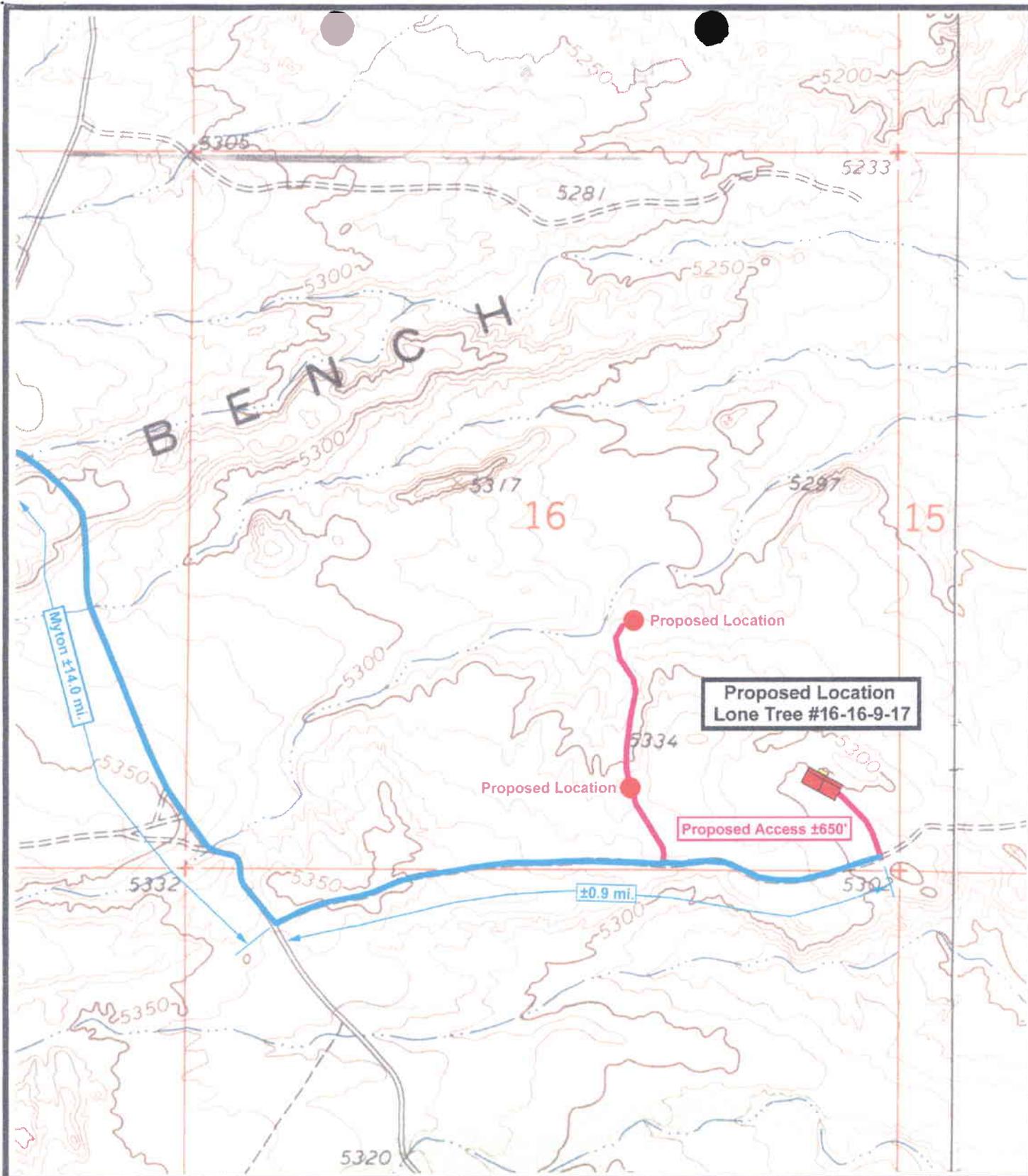
Revision:

Scale: 1 : 100,000

File:

Date: 1-3-00

**Tri-State Land Surveying Inc.
P.O. Box 533, Vernal, UT 84078
435-781-2501 Fax 435-781-2518**



**LONE TREE #16-16-9-17
 SEC. 16, T9S, R17E, S.L.B.&M.
 TOPOGRAPHIC MAP "B"**

RECEIVED

MAR 22 2000

DIVISION OF
 OIL, GAS AND MINING



Drawn By: SS

Revision:

Scale: 1" = 1000'

File:

Date: 12-28-99

**Tri-State Land Surveying Inc.
 P.O. Box 533, Vernal, UT 84078
 435-781-2501 Fax 435-781-2518**

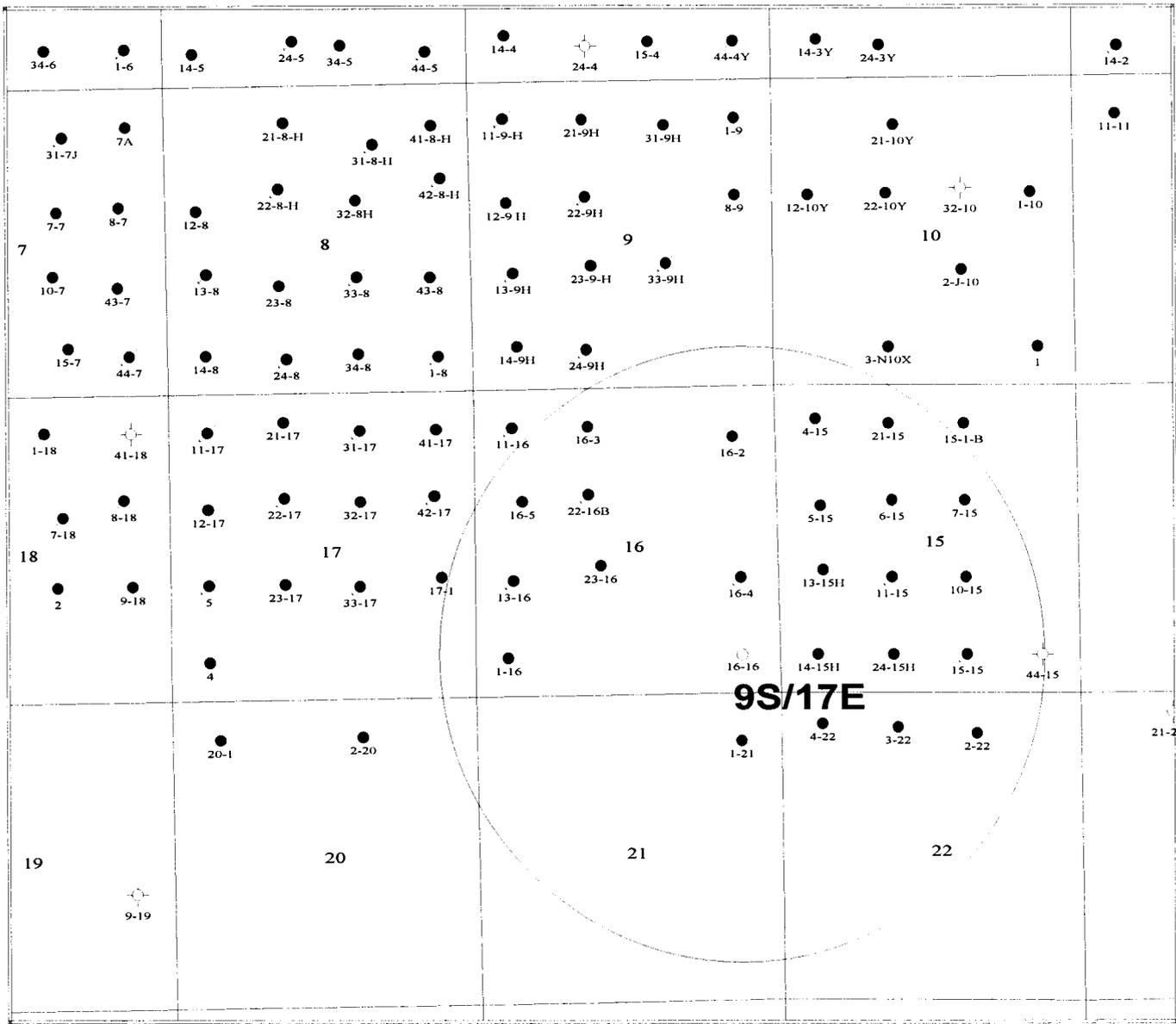
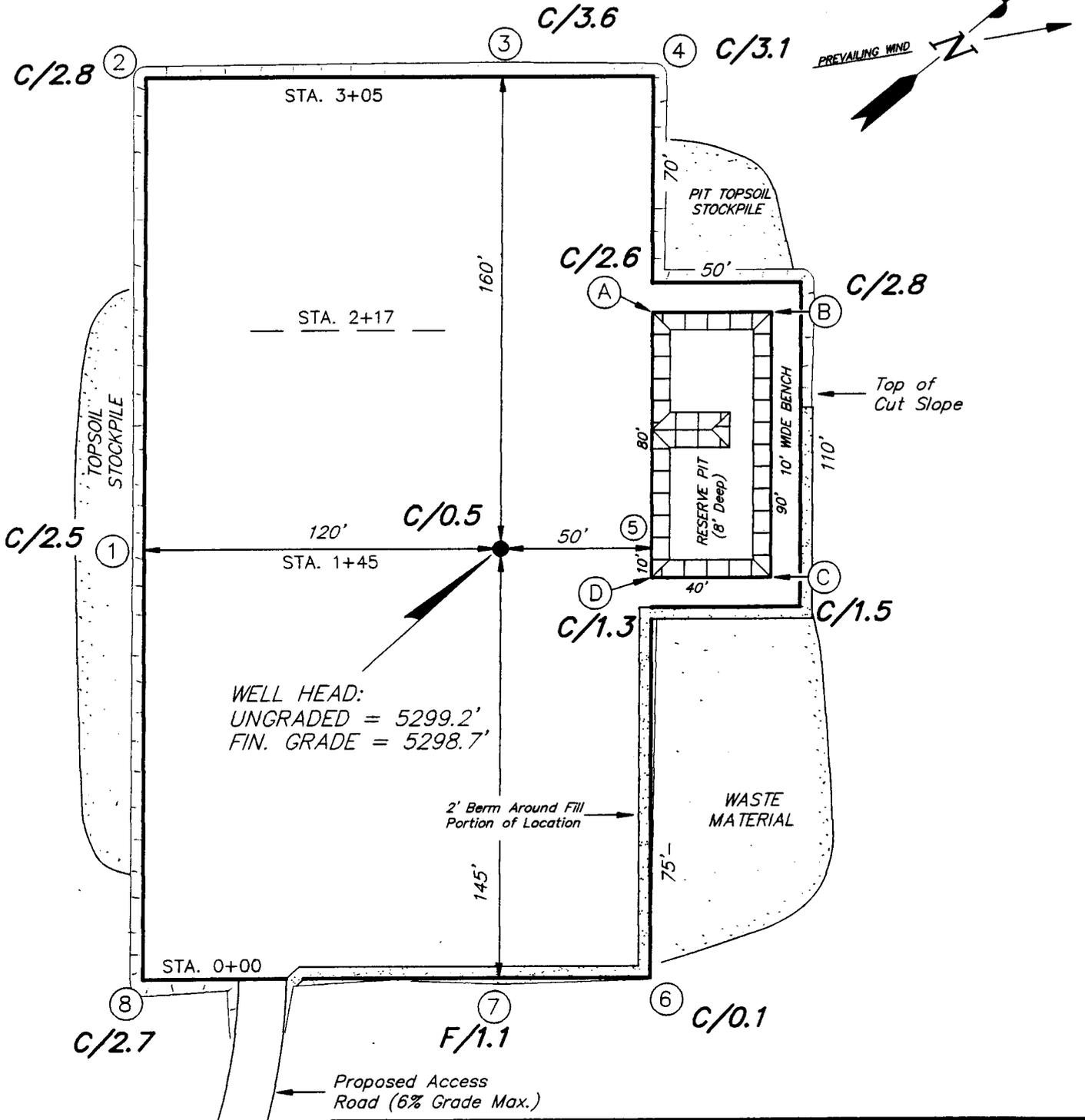


EXHIBIT D

INLAND PRODUCTION COMPANY		
One Mile Radius Lone Tree #16-16		
Well Section		1/25/2000
	Scale 1:34567.83	

INLAND PRODUCTION COMPANY

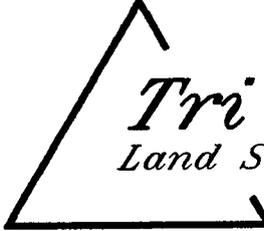
LONE TREE #16-16-9-17
SEC. 16, T9S, R17E, S.L.B.&M.



REFERENCE POINTS

- 170' SOUTHWEST = 5302.0'
- 220' SOUTHWEST = 5303.6'
- 195' NORTHWEST = 5303.7'
- 245' NORTHWEST = 5304.8'

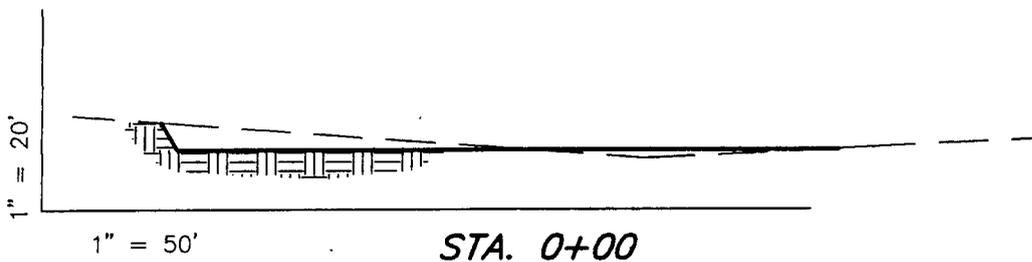
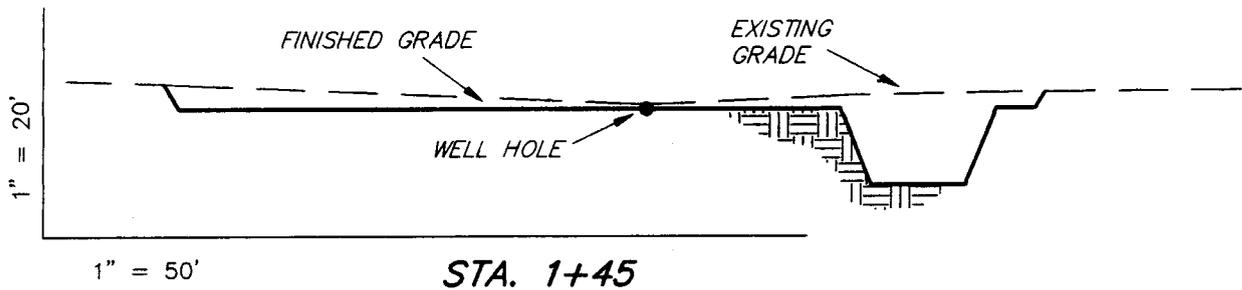
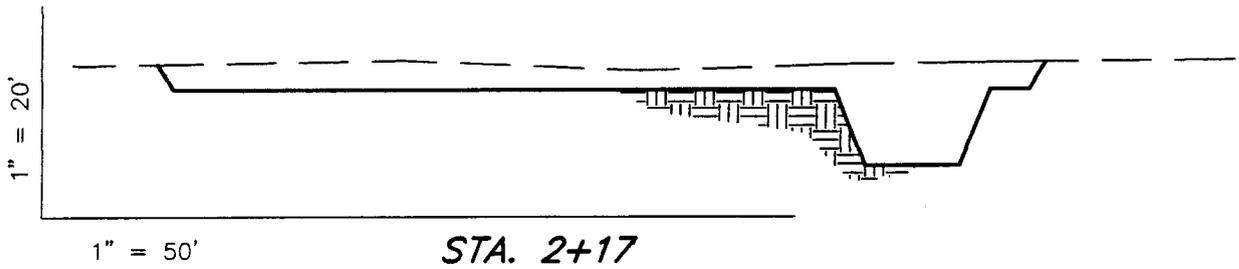
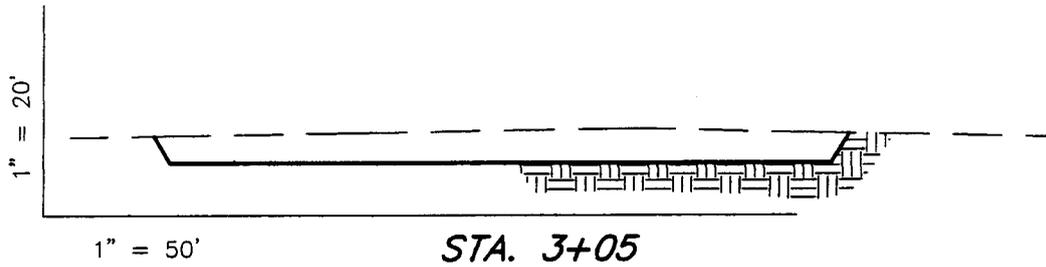
SURVEYED BY:	D.S.
DRAWN BY:	J.R.S.
DATE:	1-14-00
SCALE:	1" = 50'
REVISIONS:	



Tri State
Land Surveying, Inc.
 (801) 781-2501
 38 WEST 100 NORTH VERNAL, UTAH 84078

EXHIBIT E-1
CROSS SECTIONS

LONE TREE #16-16-9-17



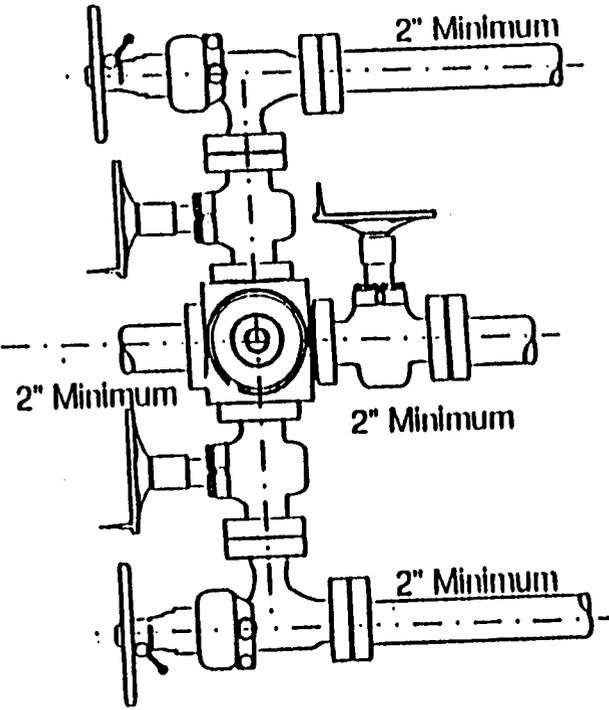
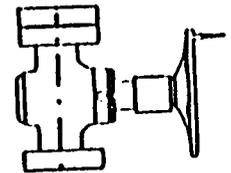
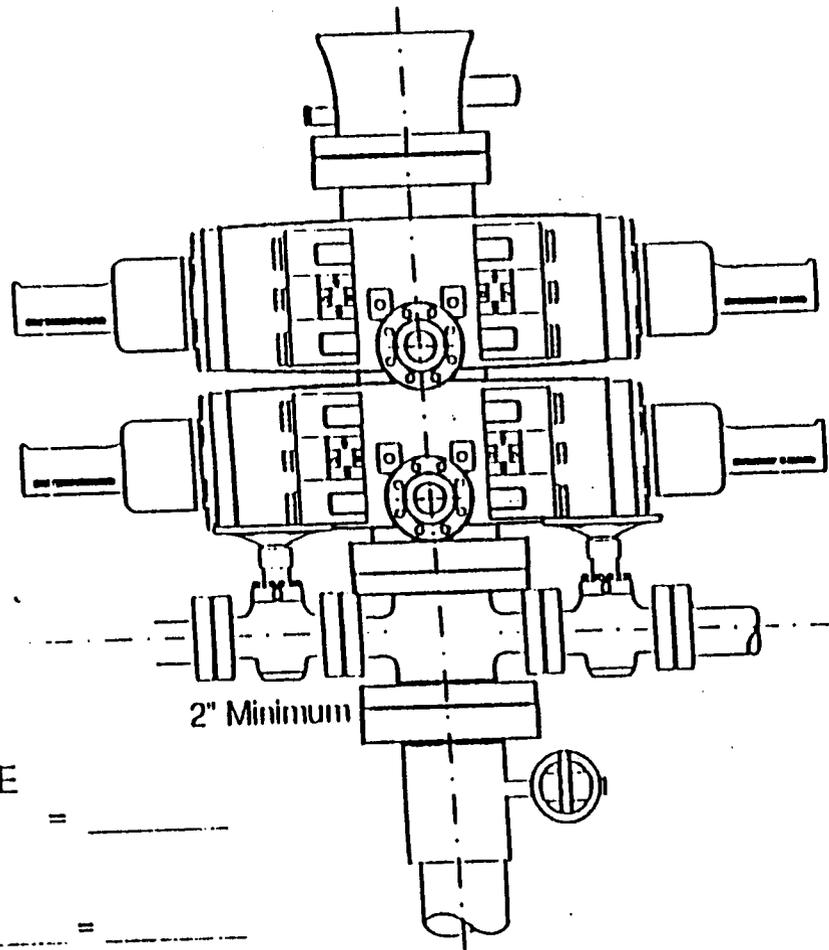
APPROXIMATE YARDAGES

- CUT = 2,910 Cu. Yds.
- FILL = 150 Cu. Yds.
- PIT = 920 Cu. Yds.
- 6" TOPSOIL = 1,060 Cu. Yds.

Tri State
Land Surveying, Inc.
(801) 781-2501
38 WEST 100 NORTH VERNAL, UTAH 84078

2-M SYSTEM

TYPE B.O.P.



GAL TO CLOSE
 annular BOP = _____
 ram type BOP
 Rams x _____ = _____
 = _____ Gal.
 _____ x 2 = _____ Total Gal.

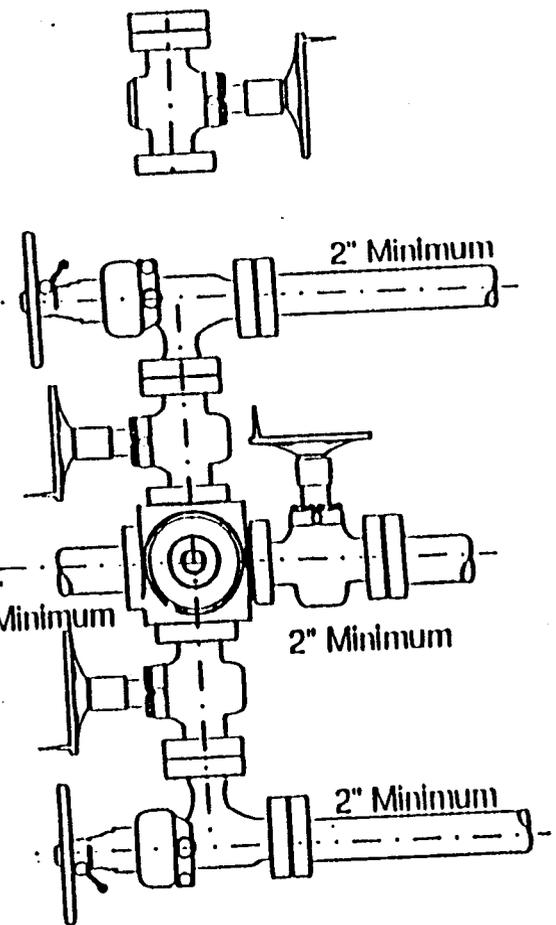
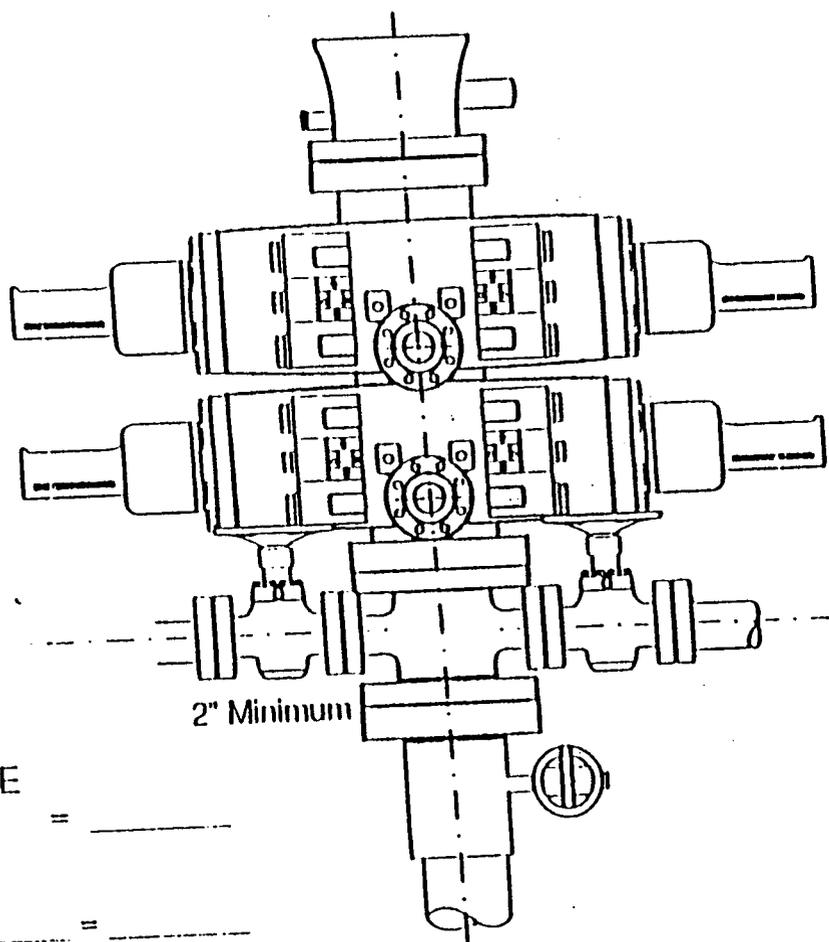
Rounding off to the next higher
 increment of 10 gal. would require
 _____ Gal. (total fluid & nitro volume)

EXHIBIT F

2-M SYSTEM

TYPE B.O.P.

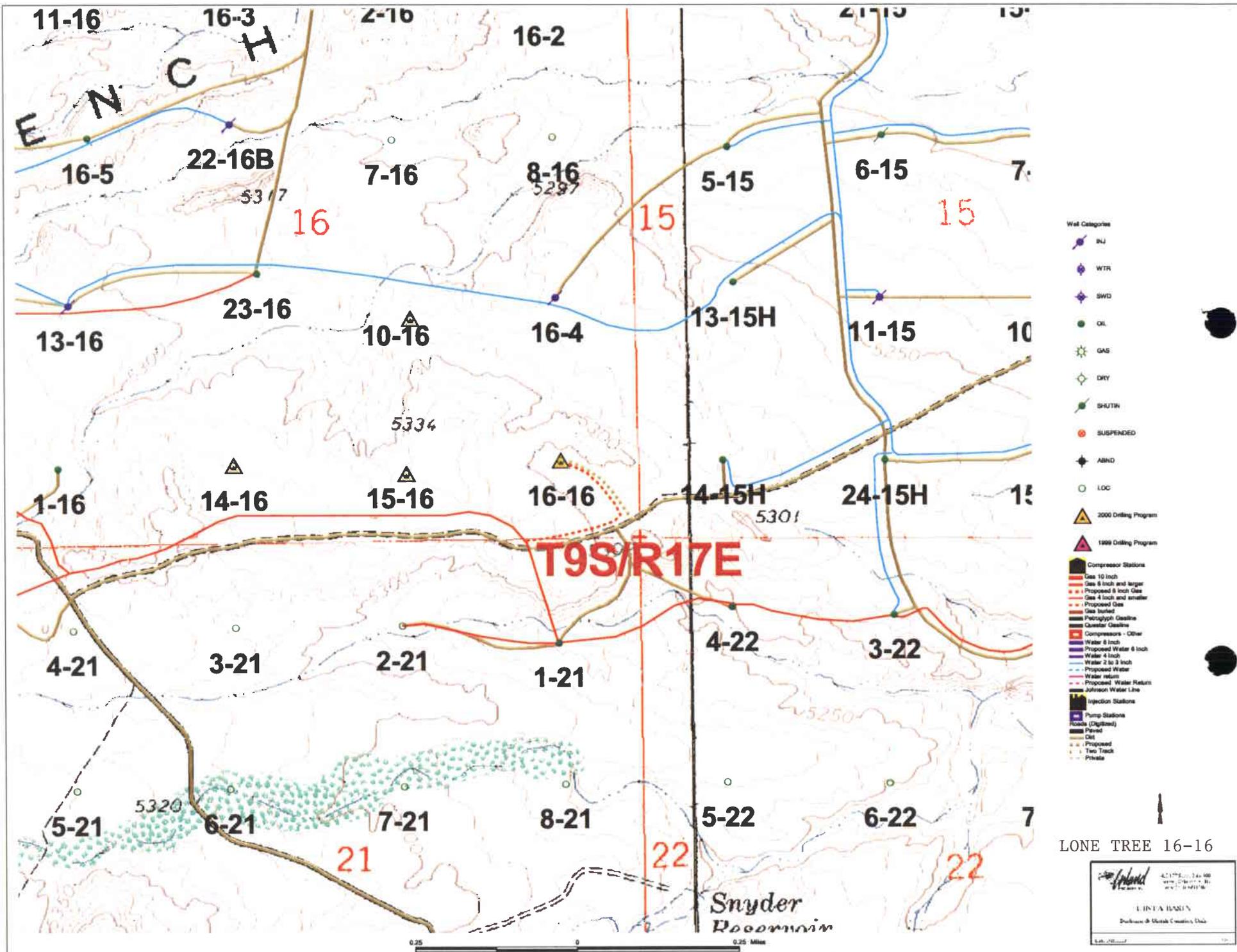
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Rounding off to the next higher
 increment of 10 gal. would require
 _____ Gal. (total fluid & nitro volume)

EXHIBIT F



LONE TREE 16-16


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LINTA BASIN
 Production & Utility Creation Study

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**CULTURAL RESOURCE INVENTORY OF
NINE WELL PADS AND IN-FILL
LOCATIONS IN THE ASHLEY, LONE TREE,
BLACK JACK, WELLS DRAW EXPANSION,
AND CASTLE DRAW UNITS
DUCHESNE AND Uintah COUNTIES, UTAH**

JBR Cultural Resource Report 99-26

by
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prepared for
Inland Resources Inc.
Denver, Colorado

submitted by
JBR Environmental Consultants Inc.
Springville, UT

July 12, 1999

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Federal BLM Permit No. 99UT55134
Utah State Project Authorization No. U-99-JB-0331bs

MANAGEMENT SUMMARY

Agencies: School and Institutional Trust Lands Administration, Bureau of Land Management, Vernal District and Utah State Historic Preservation Office.

Project Number: Utah State Project Authorization No. U-99-JB-0331bs

Project Description: The project consists of a cultural resource inventory nine 40 acre well pads and an additional 75 acres of in-fill around existing wells. The well pads included in the survey consist of 1-2 and 8-2 in the Ashley Unit; 9-32, 15-32, and 16-32 in the Wells Draw Expansion; 10-16 in the Lone Tree Unit; 1A-10, and 9-10 in the Castle Draw Unit; 15-10 in the Black Jack units. In-fill acreage is located in the Castle Draw and the Black Jack Unit. A total of 435 acres are included in the project, of which 250 acres are administered by SITLA and 185 acres by the Vernal District, Diamond Mountain Resource Area, BLM.

Location: Inventoried well pads in the Ashley Unit and Wells Draw Expansion are located approximately 11 miles southwest of Myton, Utah, in Duchesne County. Inventoried well pads and in-fill areas are in the Lone Tree, Castle Draw, and Black Jack units are located approximately 12 miles southeast of Myton, Utah, in Duchesne County .

Cultural Resources: The Class III inventory identified one previously recorded site, four newly recorded sites, and six isolated artifacts. All five sites are prehistoric in nature.

TABLE OF CONTENTS

MANAGEMENT SUMMARY	i
TABLE OF CONTENTS	ii
LIST OF FIGURES AND TABLES	iii
1.0 INTRODUCTION	1
2.0 PROJECT LOCATION	1
3.0 NATURE OF PROPOSED IMPACTS	4
4.0 ENVIRONMENTAL SETTING	4
4.1 Geology	4
4.2 Flora/Fauna	5
5.0 PREVIOUS RESEARCH	5
6.0 CULTURE HISTORY	7
6.1 Prehistoric Overview	7
6.2 History	10
7.0 ARCHAEOLOGICAL METHODS	11
7.1 Archaeological Expectations	11
8.0 INVENTORY RESULTS	12
8.1 Cultural Resource Inventory	12
8.2 Site Summaries	17
9.0 SUMMARY AND RECOMMENDATIONS	27
10.0 REFERENCES	28

LIST OF FIGURES AND TABLES

Figure 1. General Project Location Map - Duchesne, UT 1:100,000 scale	2
Figure 2. General Project Location Map - Vernal and Duchesne, UT 1:100,000 scale.....	3
Figure 3. Ashley Unit Well Pads - Myton SW, UT 7.5	13
Figure 4. Wells Draw Expansion Well Pads with Site and Isolate Locations - Myton SW, UT 7.5	14
Figure 5. Lone Tree Unit Well Pads - Myton SE, UT 7.5	15
Figure 6. Castle Draw and Black Jack Unit Well Pads with Site and Isolate Locations - Pariette Draw SW, UT 7.5.	16
Figure 7. Plan Map of Site 42DC795	18
Figure 8. Plan Map of Site 42DC1247	20
Figure 9. Plan Map of Site 42DC1248	22
Figure 10. Plan Map of Site 42DC1249	24
Figure 11. Plan Map of Site 42DC1250	26
Table 1. Project Area Legal Locations	1
Table 2. Previous Cultural Inventories	5
Table 3. Cultural Resource Sites within ¼ Mile of Current Project.	7
Table 4. Summary of Cultural Resource Sites	12
Table 5. Summary of Isolated Finds	12

1.0 INTRODUCTION

JBR Environmental Consultants, Inc. of Springville, Utah, completed a cultural resource inventory of nine well pad locations and an additional 75 acres of in-fill surrounding existing well pads. The well pad locations surveyed for the present project consist of 1-2 and 8-2 in the Ashley Unit; 9-32, 15-32, and 16-32 in the Wells Draw Expansion; 10-16 in the Lone Tree Unit; 1A-10, and 9-10 in the Castle Draw Unit; 15-10 in the Black Jack Unit. In-fill acreage is located in the Castle Draw and the Black Jack units.

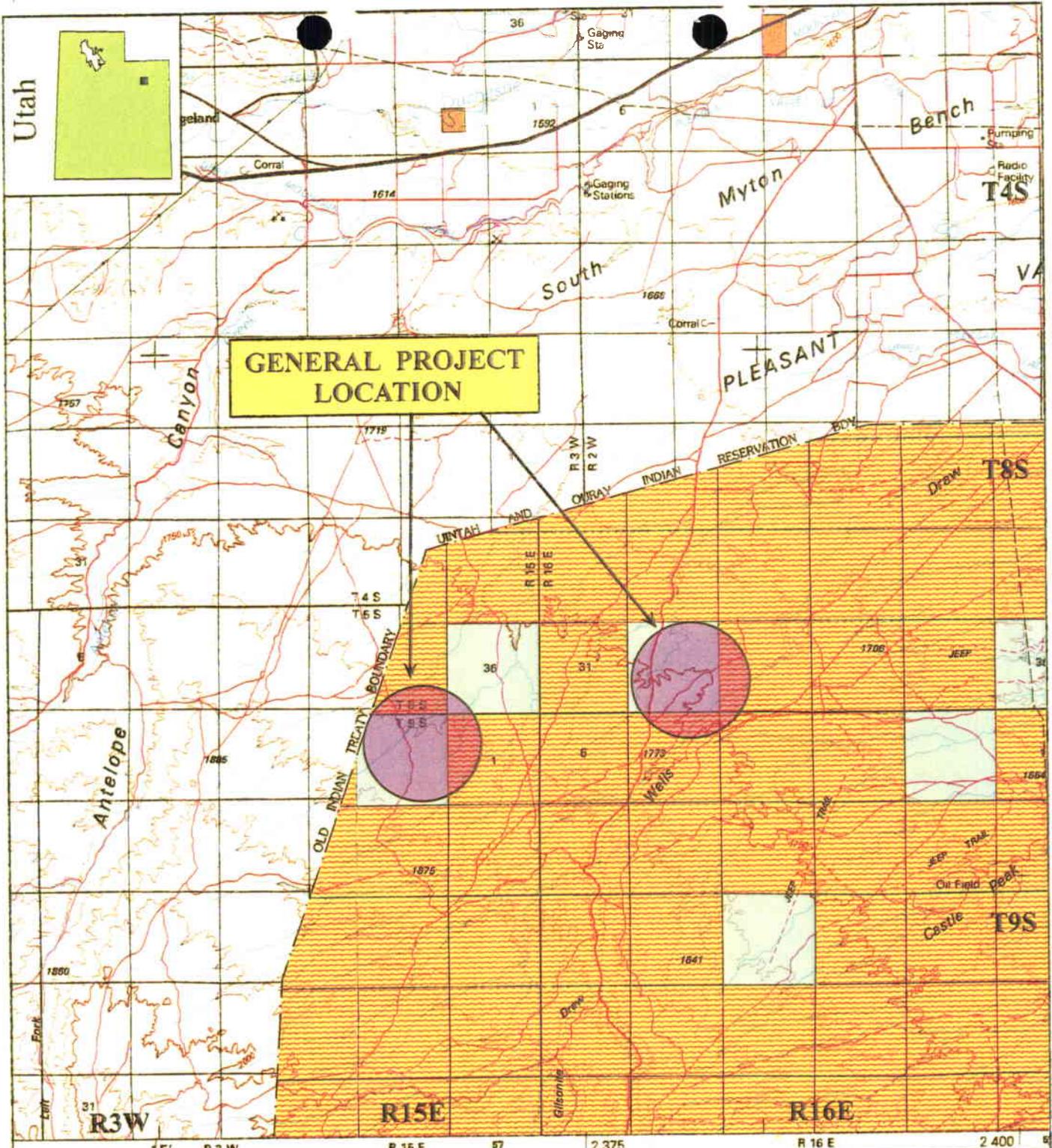
The cultural resource inventory of the nine well pad locations and in-fill acreage encountered five prehistoric sites and six isolated finds. The project inventory was conducted on June 24 and 25, 1999, by JBR personnel Richard Crosland, Jeffrey Rust, Steve Ice, and Tuula Rose.

2.0 PROJECT LOCATION

The proposed project area is located on lands administered by the School and Institutional Trust Lands Administration (SITLA) and the Bureau of Land Management (BLM) Vernal District. Well pads located on State Lands include 1-2 and 8-2 (Ashley Unit); 9-32, 15-32, and 16-32 (Wells Draw Expansion); 10-16 (Lone Tree Unit) and in-fill location 14-2 (Castle Draw Unit) for a total of 250 acres. Well pads located on BLM lands include well pads 1A-10, 9-10, and 15-10 (Black Jack Unit) and in-fill locations in the Black Jack Unit for a total of 185 acres (Figure 1). The legal locations for the project acreage are listed in Table 1.

Table 1. Project Area Legal Locations

Well Locations	Township/Range Section	Legal Locations	Ownership	USGS Quad
1-2 and 8-2 Ashley Unit	T. 9S R.15E, Sec. 2	E½ NE¼	SITLA	Myton SW, UT
9-32, 15-32 and 16-32 Wells Draw Expansion	T. 8S R.16E, Sec. 32	E½ SE¼; SW¼ SE¼	SITLA	Myton SW, UT
10-16 Lone Tree Unit	T. 9S R.17E, Sec. 16	NW¼ SE¼	SITLA	Myton SE, UT
1A-10, 9-10 In-fill 1-10, 1 (Castle Draw Unit) 15-10, In- fill 3-N10 (Black Jack Unit)	T. 9S R.17E, Sec. 10	E½ E½; SW¼ SE¼; S½ SE¼ SE¼ SW¼;	BLM	Pariette Draw SW, UT
In-fill 14-2 (Castle Draw Unit)	T. 9S R.17E, Sec. 2	SW¼ SW¼ SW¼	SITLA	Pariette Draw SW, UT



KEY:

BASE FROM DUCHESNE, UT - 1:100,000 MAP

1 0 1 2 3 4 KILOMETERS

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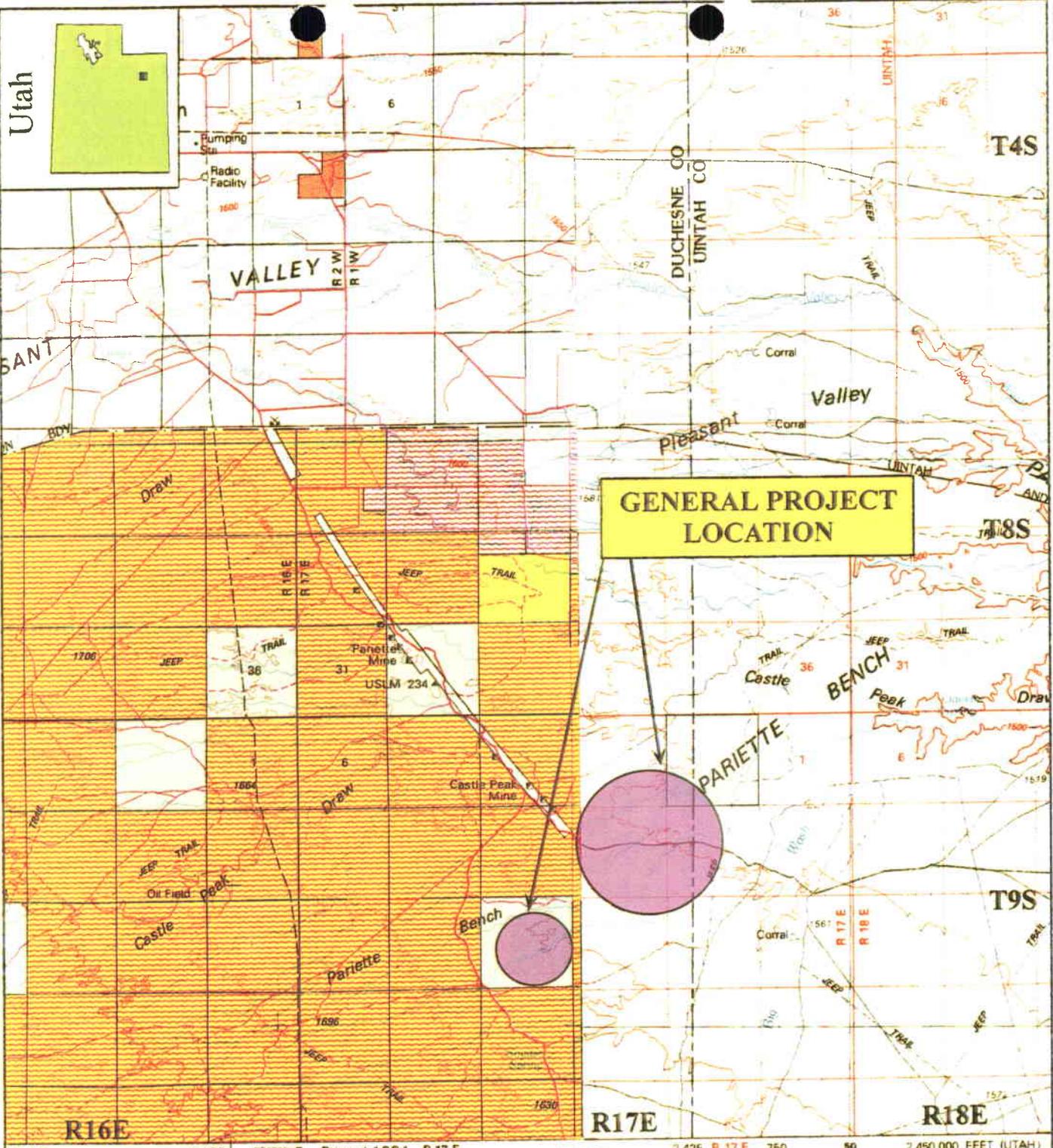
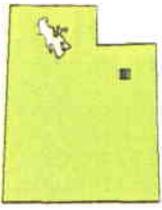
N

**INLAND RESOURCES -
NINE WELLS WITHIN FIVE UNITS**

**FIGURE 1
GENERAL PROJECT LOCATION**

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Utah



GENERAL PROJECT LOCATION

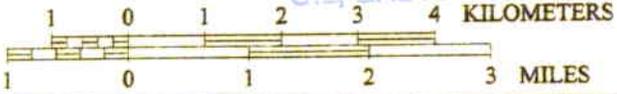
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DIVISION OF OIL, GAS AND MINES



INLAND RESOURCES - NINE WELLS WITHIN FIVE UNITS

FIGURE 2 GENERAL PROJECT LOCATION

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3.0 NATURE OF PROPOSED IMPACTS

Inland Resources proposes to develop nine well locations within the identified project area. Less than 10 acres per well pad will be impacted by Inland during drilling operations. The completion of 40 acre well tracts will give Inland an area to situate the final well placement and associated facilities during development. Also, access roads can be adjusted into the 40 acre well tracts. Many of these proposed wells will be accessed from existing wells roads. The in-fill acreage will complete 40 acre pads which had only 10 acres previously completed, to allow development of access roads and other facilities.

4.0 ENVIRONMENTAL SETTING

The well pads in the Ashley Unit are located approximately two miles west of Wells Draw and two miles east of Antelope Canyon. The terrain consists of dissected tableland with a large intermittent drainage located along the north end. The three well pads located in the Wells Draw Expansion are found partially within the Wells Draw drainage system. The draw runs through the southeast portion of the area while the northern area of the well pads on tableland areas. The well pad in the Lone Tree Unit is located immediately south of the Pariette Bench. The remaining survey area in the Castle Draw Unit and the Black Jack Unit are located approximately one mile west of Big Wash along Pariette Bench. A drainage which feeds in to Big Wash runs through the northern portion of the survey area. Aeolian sand deposits are located north of this drainage. The land slopes gradually to the south with one small butte feature located near the center of the survey area.

4.1 Geology

The area is characterized by low rolling tablelands dissected by deep draws and low eroding bedrock outcrops of sandstone and limestone. Soils in the area are a fine light tan to medium brown silty sands. The surface sediments consist of an inter-fingering of fluvial deposits and thinly bedded Pleistocene lake bed deposits. Sediments contain a moderate amount of Pleistocene gravels and some small areas of Eocene Green River Formation are visible in eroded areas. Aeolian sand deposits are also present in some areas.

4.2 Flora/Fauna

The project area is within the Upper Sonoran Life Zone. Vegetation within the project area includes four-wing saltbrush, winterfat, narrow leafed yucca, greasewood, and a variety of forbs and low grasses. Fauna noted in the project area includes antelope, jackrabbit, cottontail rabbit, and ground squirrel.

5.0 PREVIOUS RESEARCH

A Class I file search was conducted at the State Historic Preservation Office and at the Vernal District Bureau of Land Management on June 25, 1999. Over 150 cultural resource inventories have been completed in areas surrounding the current project blocks. The majority of these inventories have been associated with the gas and oil industry and include well pads, access roads, and pipeline projects. Over fifty cultural resource projects were located within or immediately adjacent to the current project blocks. A select listing of these projects is incorporated below in Table 2.

No historic GLO maps or historic indices are available for the area and could not be reviewed for existing historic properties.

Table 2. Previous Cultural Inventories Near the Current Project Areas

Report No.	Project	Date	Firm	Sites
013-92	Inventory of a well pad	1983	Grand River Consultants	None
013-160	Inventory of a well pad	1984	Grand River Consultants	None
013-177	Inventory of a pipeline	1984	Grand River Consultants	None
013-208	Inventory of a well pad and access road	1994	Senco-Phoenix	None
013-241	Inventory of three well pads	1984	Archaeological- Environmental Research Corp. (AERC)	1 site
013-232	Inventory of two well pads	1985	Sagebrush Archaeological Consult.	None

Report No.	Project	Date	Firm	Sites
81-UT-181	Inventory of two well pads	1981	Utah Archaeological Research Corp. (UARC)	None
82-UT-358	Inventory of a well pad and access road	1982	Environmental Consultants	None
82-UT-373	Inventory of a well pad and access road	1982	UARC	None
U86-AF-770s	Inventory of a well pad	1986	AERC	None
U89-SJ-097b	Inventory of 2 well pads	1989	Sagebrush	None
U93--SJ-720b	1,160 acre block survey	1994	Sagebrush	11 sites
U94-SJ-448b	Inventory of three well pads	1994	Sagebrush	2 sites
U95-SJ-658b	Inventory of a well pad and access road	1995	Sagebrush	None
U95-AF-664b,s	Inventory of four well pads and access roads	1996	AERC	None
U95-AF-773b	Inventory of 13 well pads and access roads	1996	AERC	None
U95-CH-0776b	Inventory of eight power lines	1996	Complete Archaeological Service Assoc. (CASA)	2 Paleontological sites
U96-SJ-0075b	Inventory of a pipeline	1996	Sagebrush	None
U98-AF-0164b,s	3,919 acre block survey	1998	AERC	28 sites
U98-JB-0659b	Inventory of three well pads	1998	JBR Environmental Consultants	8 sites
U-98-JB-0681b	50 acre well pad inventory	1998	JBR Environmental Consultants	1 site

The majority of the projects located near the current project encountered few if any cultural resource sites. Only eight sites were located within ¼ mile of the project areas and are listed below in Table 3. The sites include five lithic scatters, a lithic quarry, a prehistoric campsite, and an historic trash scatter. Only one of the sites (42DC795) was located within the current project area.

Table 3. Cultural Resource Sites within ¼ Mile of Current Project.

Site #	Site Type	Cultural Affiliation	Eligibility	Location
42DC586	Lithic Scatter	Unknown Aboriginal	Ineligible	Near Block 2
42DC587	Lithic Quarry	Unknown Aboriginal	Ineligible	Near Block 2
42DC782	Lithic Scatter	Unknown Aboriginal	Ineligible	Near Block 2
42DC794	Historic Trash Scatter	Euro-American	Ineligible	Near Block 2
42DC795	Lithic Scatter	Unknown Aboriginal	Ineligible	Inside Block 2
42DC796	Prehistoric Campsite	Archaic	Eligible	Near Block 2
42DC942	Lithic Scatter	Unknown Aboriginal	Ineligible	Near Block 4
42DC1192	Lithic Scatter	Unknown Aboriginal	Ineligible	Near Block 4

6.0 CULTURE HISTORY

A number of overviews have been written for the region and adjacent regions including Jennings (1974, 1978, 1986), Aikens (1970), Madsen (1980), and Aikens and Madsen (1986).

6.1 Prehistoric Overview

Jennings (1986) and Aikens and Madsen (1986), proposed a chronology for the eastern Great Basin that divides the cultural sequence into three periods that are somewhat equivalent to the general Basin-wide chronological sequence: Bonneville period (11,000-9,500 B.P.), Wendover period (9,500-6,000 B.P.), and the Black Rock period (6,000-1,500 B.P.). Madsen (1982) also presents a model of the prehistory of the region that include the following: Paleoindian (12,000-9,000 B.P.), Archaic (8,500-1,600 B.P.), Formative Fremont (1,600-650 B.P.), and Numic (700 B.P.-present). Below is a brief summary and overview of these periods.

The Paleoindian period (12,000-9,000 B.P.) was first defined on the high plains east of the Rocky Mountains as a time of specialized hunting of large game animals such as mammoth, bison, horse, etc. (Jennings 1974). Tools associated with this culture include a series of diagnostic projectile points known as Clovis, Folsom, and Plano points. The Great Basin Stemmed points and crescents are considered by Hester (1973) to be diagnostic of the pre-Archaic Western Pluvial Lakes Tradition in the Great Basin as well, but few have been noted in Utah.

In Utah, significant Paleoindian sites were found in the Sevier Lake region, in the Escalante Desert, south of Green River, and in southeastern Utah. Clovis, Folsom, Dalton-Meserve, Plainview, and Great Basin Stemmed projectile points and crescents have been recovered from these areas (Davis 1986; Janetski and Holmer 1982). Folsom and Plano points and crescents from this period have been reported in Millard County, near the Beaver and Sevier river areas (Janetski and Holmer 1982), and near Delta (Simms and Lindsay 1984). To date, no Paleoindian sites have been formally reported in Uinta County, although at least two Folsom points have been recovered to the west in Duchesne County.

The Archaic period (8,500-1,600 B.P.) is well represented in Utah. The Archaic lifeway was highly adaptive, based on hunting and gathering subsistence practices. Archaic subsistence included a wide array of food sources. During the earlier stages of this period, Archaic people resided around pluvial lake margins and riverine environments. Later, in response to the decline of these ecozones, populations shifted to upland areas to take advantage of available resources. Cultural remains from this period include items such as metates, baskets, bone implements and a variety of diagnostic projectile points. Common point types include Elko and Humboldt series, Pinto, Sudden Side-notched and Gypsum.

Evidence of the Archaic is exhibited by recorded surface sites and rockshelters throughout the region. Rockshelters and cave sites have been the primary means for defining what we know about the culture. Some of these shelters include Walters and Cowboy Caves with C-14 dates of ca. 6875 BC and ca. 6690 BC, which marks the earliest known occupation of the Colorado Plateau (Schroedl 1976). Schroedl (1976) has subdivided the Archaic period into four different phases based on diagnostic point styles to provide temporal control.

The earliest phase is known as the Black Knoll Phase (6350-4250 BC), and is marked by the presence of Elko Corner-notched points, and Pinto series points. An early Pinto variant has been found on the same site as Folsom points, and together, the styles from the Moab Complex (Hunt and

Tanner 1960). The following phase is the Castle Valley Phase (4250-2550 BC). Point styles are more diversified during this period and include Rocker Base, Sudden and Hawken Side-notched points. During the later half of the period Humboldt points appear and become the dominate point style. The beginning of the Green River Phase (1550-1350 BC) coincides with the dichotomy in point styles between the western and eastern sections of the Plateau. The western variant includes San Rafael Side-notched and Gypsum points, while the eastern variant is predominated by Duncan Hanna Points. The final Archaic phase is the Dirty Devil Phase (1350 BC - AD 450) which exhibits a continuity from earlier phases with the Gypsum and Elko Series points. This phase is evidenced more from unfired clay objects, basketry, and sandals rather than point styles as the previous phases (Madsen and Berry 1975). Significant excavated sites in the Uinta Basin that contain Archaic cultural material include Hells Midden (Lister 1951), Thorne Cave (Day 1964), Deluge Shelter, and Swelter Shelter (Leach 1970).

The Fremont inhabited the region between 1600-650 B.P. (Jennings 1978). They were horticulturalists with varying dependencies on corn, beans and squash. The Fremont also hunted small and large game animals and utilized wild plant foods. They built semi-subterranean pit houses, surface jacal and masonry habitation units and coursed adobe granaries. The remains of the structures often appear as low lying mounds in valleys, and on alluvial fans and ridge tops. Diagnostic artifacts from this period include the Utah type metate, clay figurines and small to medium size corner-notched and side-notched projectile points. Ceramics consist mostly of graywares, but also include some corrugated, incised, and black-on-white styles. The Turner-Look site exhibited semi-subterranean houses of dry laid masonry, cultivating corn and possibly squash. The diagnostic Uinta Gray ceramics at the site, place occupation at AD 1050 or later (Wormington 1955; Jennings 1978).

Numic speaking groups (Ute and Gosiute) appear to have replaced the Fremont after about 700 B.P., during the Late Prehistoric period. These groups relied on a hunter-gatherer lifestyle, similar to that of the Archaic. They lived in temporary brush wickiups and rockshelters (Steward 1938). These groups depended on a variety of wild plants, and employed seasonal movements; gathering resources produced in various ecological zones. Evidence of the Late Prehistoric period comes from surface sites, containing light artifact remains, and shallow rockshelter deposits. Diagnostic artifacts include non-painted brownware ceramics and the Desert Side-notched point.

6.2 History

The first European contact with Native Americans of the region was the 1776 Dominguez-Escalante expedition in Colorado, Utah and Arizona (Fowler 1986; Warner 1976). Detailed descriptions of the dress, weapons and manner of the groups they encountered were recorded. The Dominguez-Escalante expedition traversed the territory of the Utes, Western Shoshone, Southern Paiute and the Navajo. After the Dominguez-Escalante expedition, the Spanish continued to return to Utah to trade for horses, slaves and gold.

In 1805, the Lewis and Clark expedition encountered Northern Shoshone groups in the Snake River region and kept detailed records of their political organization, dress, territory and subsistence. Beginning in the 1820s, fur trappers from Canada, eastern U.S. and Taos entered Utah and began trapping beaver. By 1840, the beaver were gone. However, these mountain men, Jediah Smith (1826-1829), Etienne Provost (1824-1825), Peter Skene Ogden (1825-1829) and William Ashley (1825-26) had managed to explore much of the state and had encountered numerous Native American peoples.

The first U.S. Government explorers arrived in Utah in the 1840s and recorded some encounters with Native Americans. These included Fremont in 1845, Stansbury in 1852, Simpson in 1876, and Gunnison-Beckwith in 1856. In 1847, the first Mormon settlers arrived in the Salt Lake Valley. From this point the pioneers were almost in constant contact with Native American cultures and people. A result of this continuing contact was armed conflict and four major battles or wars: The Provo River Battles (1850), Walker War (1853), Goshute War (1860-1863), and the Black Hawk War (1865-1867).

By the 1870s, Native American cultures were receiving attention as ethnographic resources. In 1876, John Wesley Powell documented the language, territory, culture, religion and social organization of the Shoshone and Southern Paiute. This body of material has been used to classify and reconstruct the ethnohistory of these cultures by other ethnographers; A.L. Kroeber (1907), Julian Steward (1938), Isabel Kelly (1964), Catherine and Don Fowler (1971), and others.

The settlement of Duchesne County is unique to the state in that it was not settled by Mormon pioneers, since early scouting parties had deemed the area unfit for settlers. The area was settled in 160 acre parcels under the Homestead Act. The Dry Gulch Irrigation Company was incorporated in 1905 by William H. Smart and Reuben S. Collett to help individual farmers obtain water rights

from the state (Powell 1994). The county's economy is based primarily on the livestock industry, but rich oil and gas reserves are also present.

Myton is an historical community located to the north of the project area. The settlement was built at the only bridge crossing the Duchesne River and had the early name of Bridge City. For many years the town functioned as a river crossing and trading post. The community received its present name from Major H. P. Myton who was assigned to the area in 1905 as the region was opened to settlers (Van Cott 1990).

7.0 ARCHAEOLOGICAL METHODS

A Class III inventory was completed for the project by four JBR cultural resource personnel, walking parallel transects at fifteen meter intervals. When cultural resources were encountered during the survey, they were recorded on IMACS site forms or Utah Isolated Find forms. Each site was plotted on a USGS topographic map, site sketches were drawn, tools or diagnostic artifacts were drawn, photographs taken, and 18-inch white PVC pipe datums with aluminum tag were placed on all site locations. No datum was relocated at site 42DC795 and none was indicated on the original site sketch. JBR placed a PVC datum with a temporary number of IN9-1 on the site as indicated on the updated site sketch. Isolated finds were also plotted on a USGS topographic map. All field notes are on file at JBR Environmental Consultants Inc., Springville, Utah.

7.1 Archaeological Expectations

Previous projects indicate that the potential for historic properties would be greatest near the Wells Draw Expansion and relatively low in the remaining project area. Gas and oil exploration activities have occurred in the area for the past three decades but rarely date prior to 1950. Prehistoric site potential was expected to vary with the terrain. Terraces and edges of large drainages were expected to have a relatively high prehistoric site potential. Other areas of undulating open spaces were expected to have a relatively low site potential.

8.0 INVENTORY RESULTS

8.1 Cultural Resource Inventory

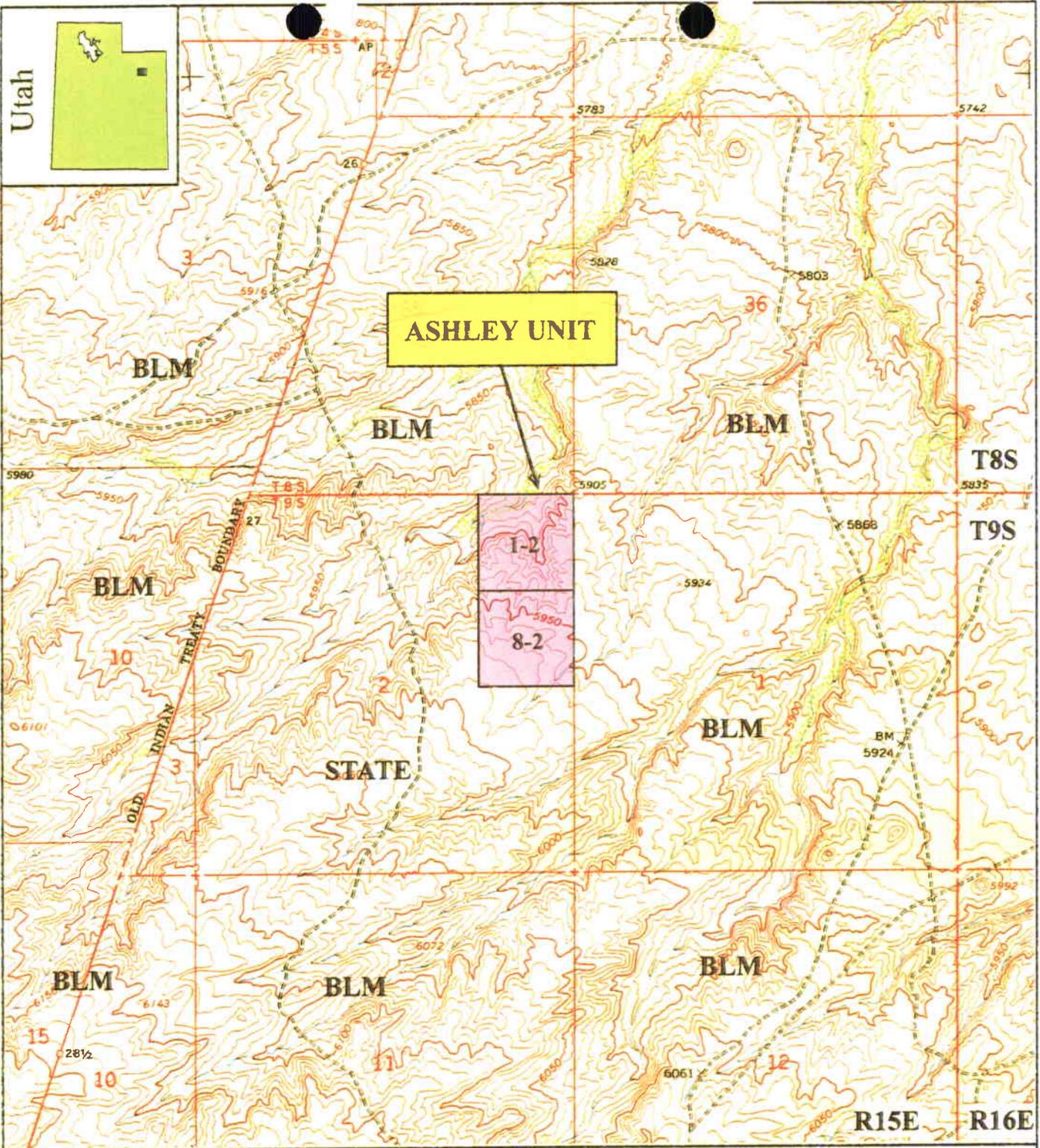
The class III inventory identified one previously recorded site, four newly recorded sites, and six isolated finds. The cultural resource sites consist of two prehistoric campsites and three lithic scatters. No historic sites were encountered. A summary of the cultural resource sites can be found in Table 4 and a short description of each of the five encountered sites is included in the following pages. The isolated finds are summarized in Table 5. Site locations are shown on Figures 4 and 6.

Table 4. Summary of Cultural Resource Sites.

Site Number	Ownership	Site Type	Cultural Affiliation	Evaluation
42DC795	SITLA	Lithic Scatter	Unknown Aboriginal	Ineligible
42DC1247	SITLA	Campsite	Unknown Aboriginal	Eligible
42DC1248	SITLA	Campsite	Unknown Aboriginal	Ineligible
42DC1249	SITLA	Lithic Scatter	Unknown Aboriginal	Ineligible
42DC1250	BLM	Lithic Scatter	Unknown Aboriginal	Ineligible

Table 5. Summary of Isolated Finds.

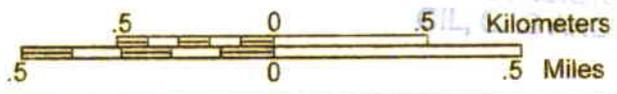
Number	Description	Location
IF-1	Hand soldered can	573170 mE 4435420 mN T8S R16E Section 32 SW¼ SW¼ SW¼ SE¼
IF-2	Green/tan primary flake	573780 mE 4435660 mN T8S R16E Section 32 NW¼ NE¼ SE¼ SE¼
IF-3	Hole-in-cap can	573170 mE 4435750 mN T8S R16E Section 32 NW¼ NW¼ SE¼ SE¼
IF-4	White chert biface	586420 mE 4433890 mN T9S R17E Section 10 NW¼ NW¼ NE¼ NE¼
IF-5	Cream chert secondary flake	586460 mE 4433550 mN T9S R17E Section 10 SW¼ SW¼ NE¼ NE¼
IF-6	Simonis Type #13 can	586260 mE 4432370 mN T9S R17E Section 10 SW¼ SE¼ SW¼ SE¼



KEY:

BASE FROM MYTON SW, UT - 7.5 MIN QUAD, 1964
CONTOUR INTERVAL 10 FT

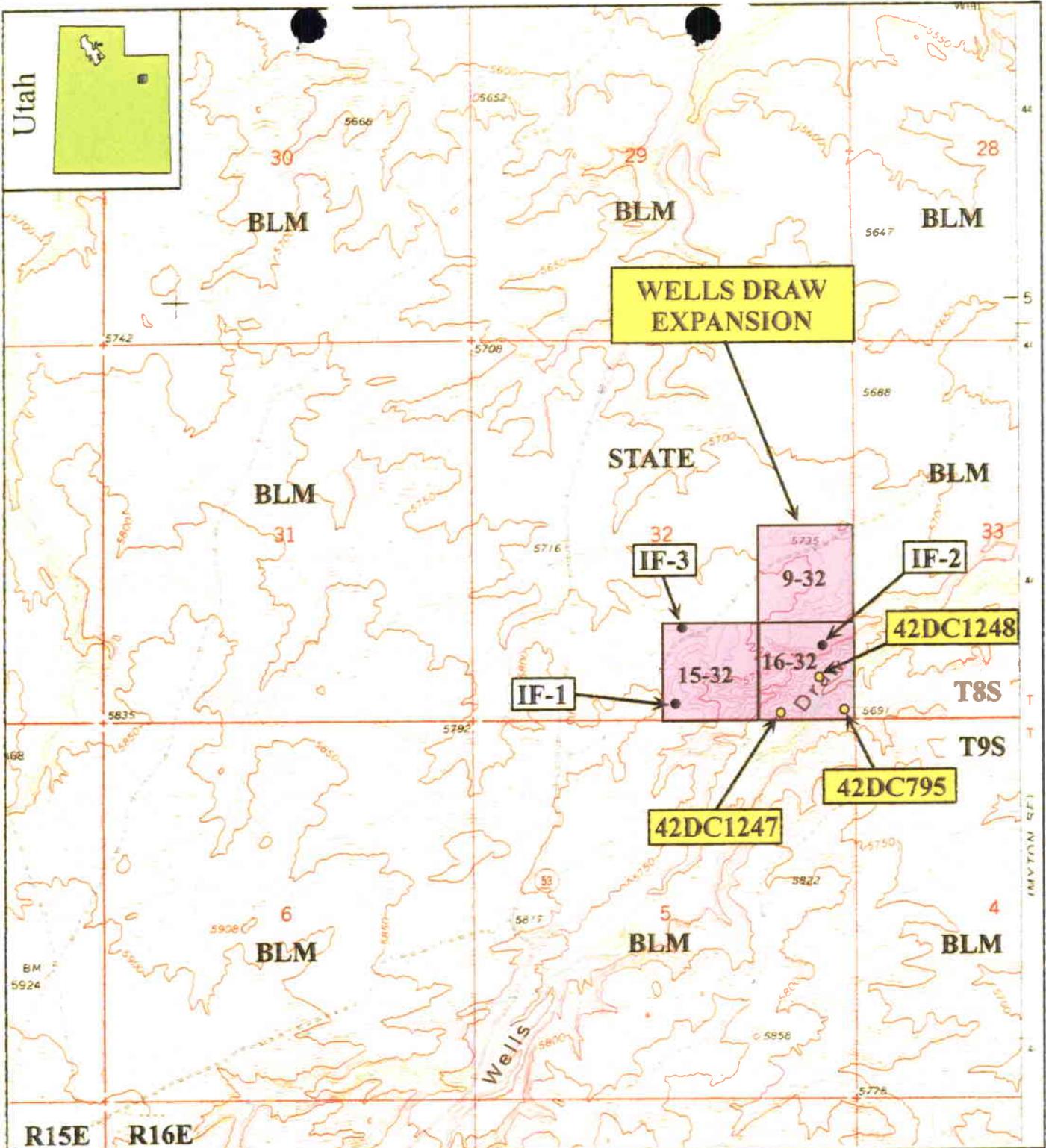
 CLASS III INVENTORY



**INLAND RESOURCES -
NINE WELLS WITHIN FIVE UNITS**

**FIGURE 3
PROJECT AREA**

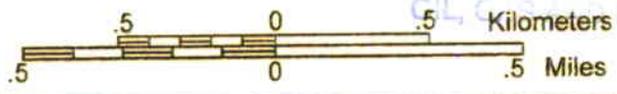
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R15E R16E

KEY: BASE FROM MYTON SW, UT - 7.5 MIN QUAD, 1964
CONTOUR INTERVAL 10 FT

- CULTURAL RESOURCE SITE
- ISOLATED FIND
- CLASS III INVENTORY

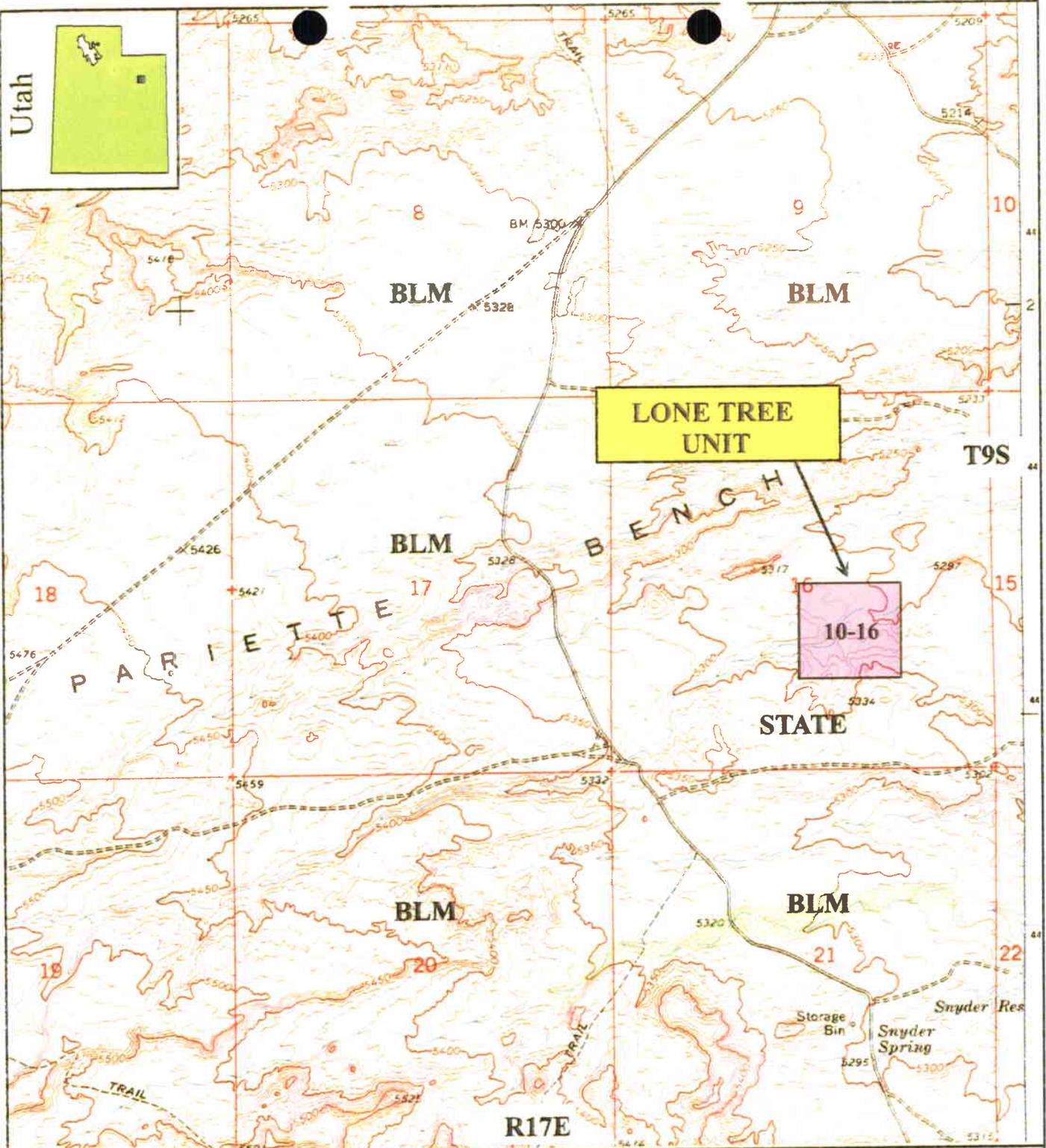
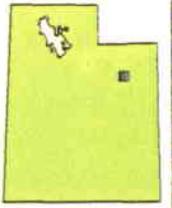


**INLAND RESOURCES -
NINE WELLS WITHIN FIVE UNITS**

**FIGURE 4
PROJECT AREA
AND CULTURAL RESOURCES**

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Utah

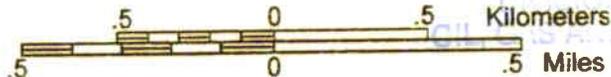


KEY:

BASE FROM MYTON SE, UT - 7.5 MIN QUAD, 1964
CONTOUR INTERVAL 10 FT



CLASS III INVENTORY

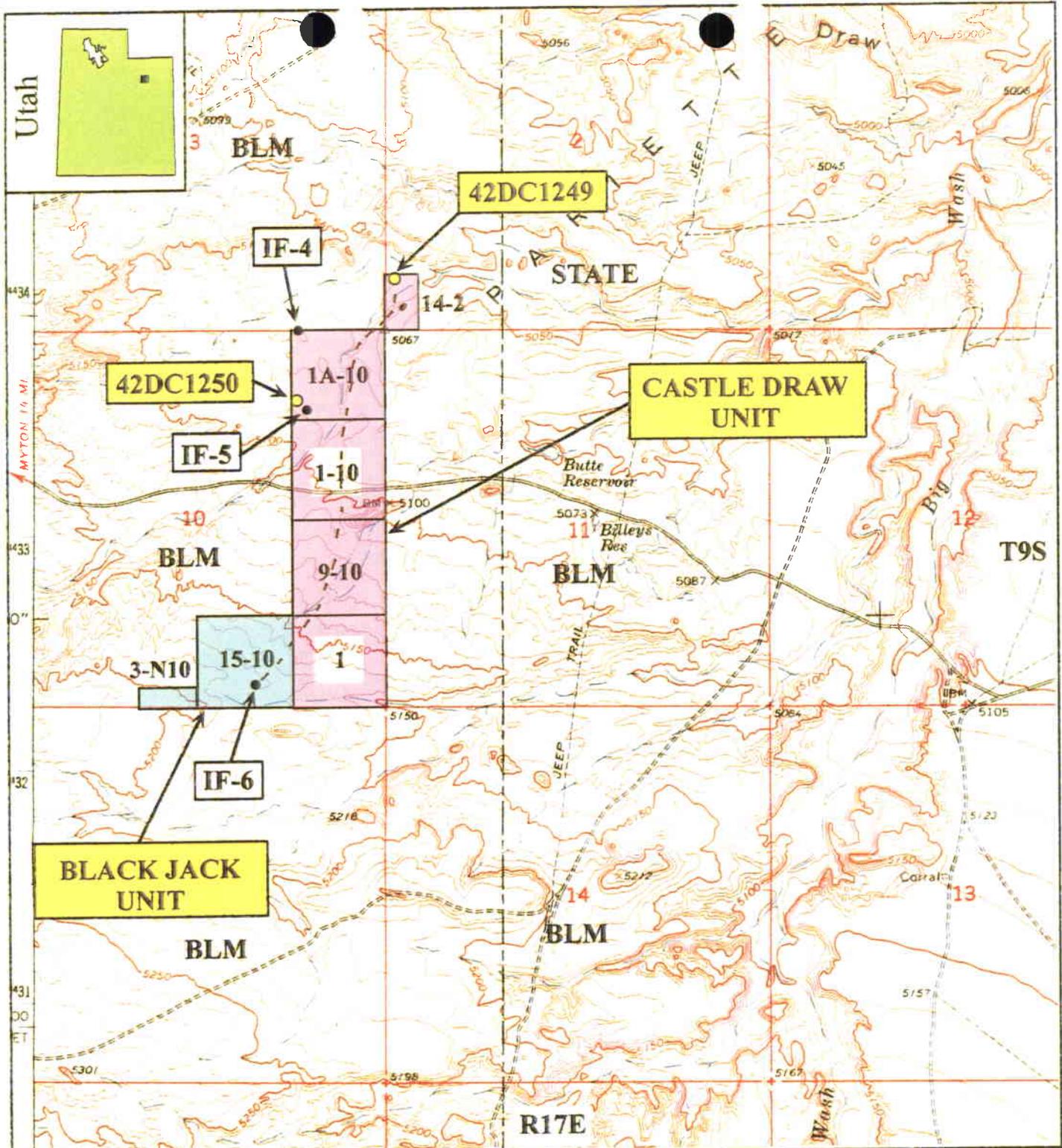


INLAND RESOURCES - NINE WELLS WITHIN FIVE UNITS

FIGURE 5
PROJECT AREA



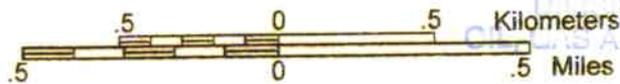
environmental consultants, inc.
Salt Lake City Utah • Springville, Utah • Reno, Nevada • Elko, Nevada



KEY:

- CULTURAL RESOURCE SITE
- ISOLATED FIND
- CLASS III INVENTORY

BASE FROM PARIETTE DRAW SW, UT -
7.5 MIN QUAD, 1964.
CONTOUR INTERVAL 10 FT



**INLAND RESOURCES -
NINE WELLS WITHIN FIVE UNITS**

**FIGURE 6
PROJECT AREA
AND CULTURAL RESOURCES**

8.2 Site Summaries

Site Number: 42DC795

Temp Number: IN9-1

Figure Numbers: 4 and 7

Site Type: Lithic Scatter

Cultural Affiliation: Unknown Aboriginal

Setting: The site is located on a north-south trending finger ridge south of Wells Draw.

Description: The site was originally recorded by Sagebrush in 1993. It is a lithic scatter located on a north-south trending finger to the south of Wells Draw. During the current revisit, the site appears the same as when originally recorded but extends over a larger area, 60 by 45 meters in size. It contains 40-50 flakes, two scrapers, a biface, a drill, and a core. Lithic debitage is 75% secondary flakes, 20% primary flakes, 4% tertiary flakes, and 1% shatter. Lithic material includes gray/brown chert, white chert, tan chert, and brown chert. Maximum density of flakes is five per square meter. No diagnostic tools, features, or fire-cracked rock were found. An area of dense lithics is present in the south end of the site next to an arroyo. No cultural depth was found in the more eroded areas of the site. Soils are semi-compact sands with small pebbles.

National Register Assessment: The site is a moderate size lithic scatter with four non-diagnostic tools. An erosional channel, next to the lithic concentration, was inspected for evidence of cultural deposition with negative results. It is unlikely that the site can provide further substantive data regarding lithic technology, site spatial patterning, chronology, or settlement patterns. The site does not meet any of the NRHP criteria and is recommended as **ineligible** for the NRHP.

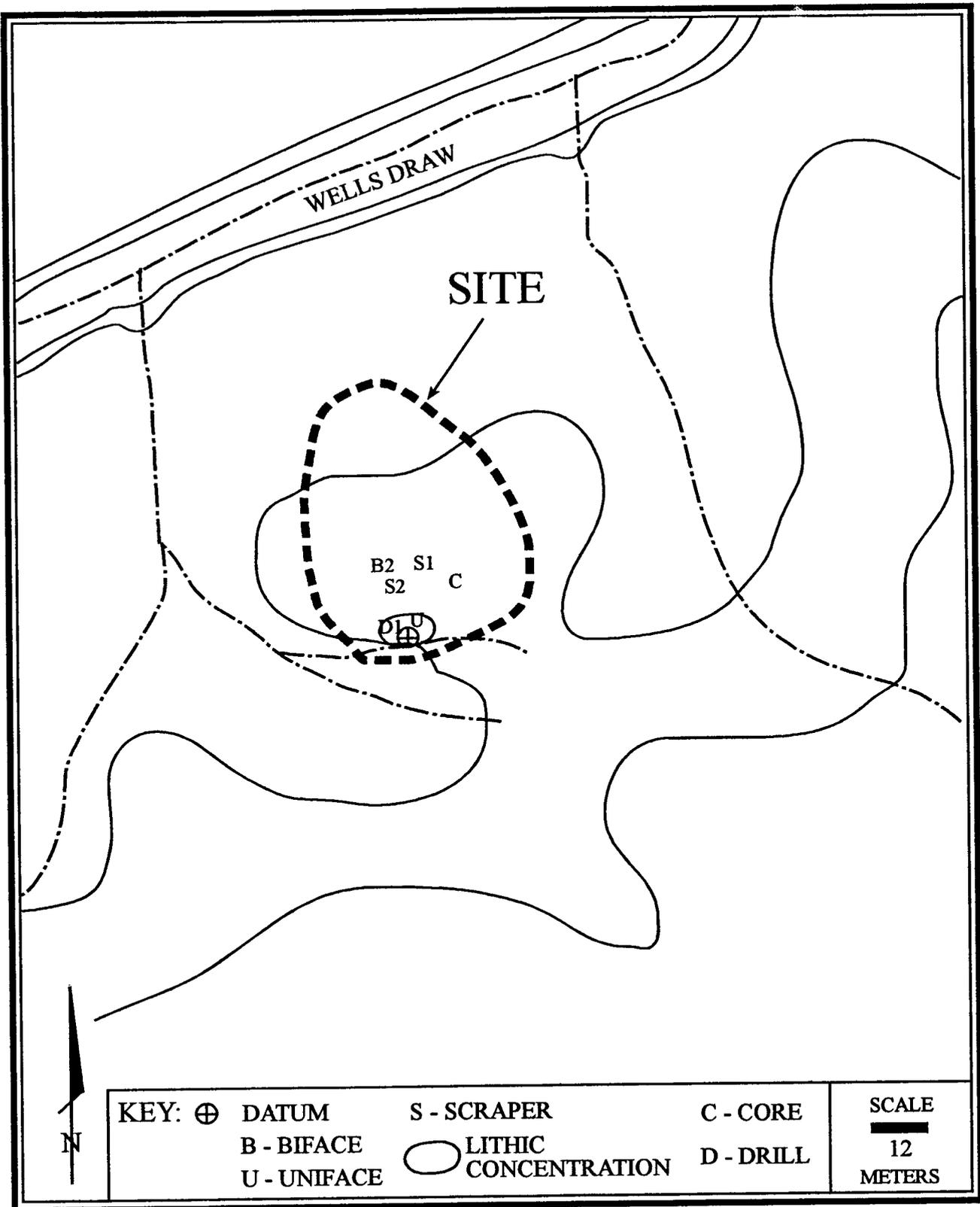


Figure 7. Plan map of site 42DC795.

Site Number: 42DC1247

Temp Number: IN9-2

Figure Numbers: 4 and 8

Site Type: Campsite

Cultural Affiliation: Unknown Aboriginal

Setting: The site is located on a small finger between a drainage and Wells Draw in an area of undulating tableland.

Description: The site is a campsite located on a low finger between a drainage and Wells Draw. It is 30 by 18 meters in size and contains 40-50 flakes and 30-50 FCR fragments. Lithic debitage is mostly secondary flakes with a few primary flakes and shatter also noted. Most of the FCR and flakes are concentrated within a 16 by 8 meter area (Area 1). Lithic materials are primarily cherts but a few pieces of sandstone have also been flaked. Tools include four chert bifaces and a rhyolite chopper. No diagnostic tools, features, or ceramic were noted. There is some potential for subsurface deposits as flakes and FCR were noted partially buried. Soils are fine tan silts with numerous angular and sandstone gravels.

National Register Assessment: The site is a small campsite with one main concentration of artifacts. Several tools were found on site. The site may have cultural deposition as flakes and FCR were found partially buried. The site has the potential to provide substantive data regarding site spatial patterning, lithic technology, and settlement patterns. The site meets criterion D of the NRHP and is therefore recommended **eligible**.

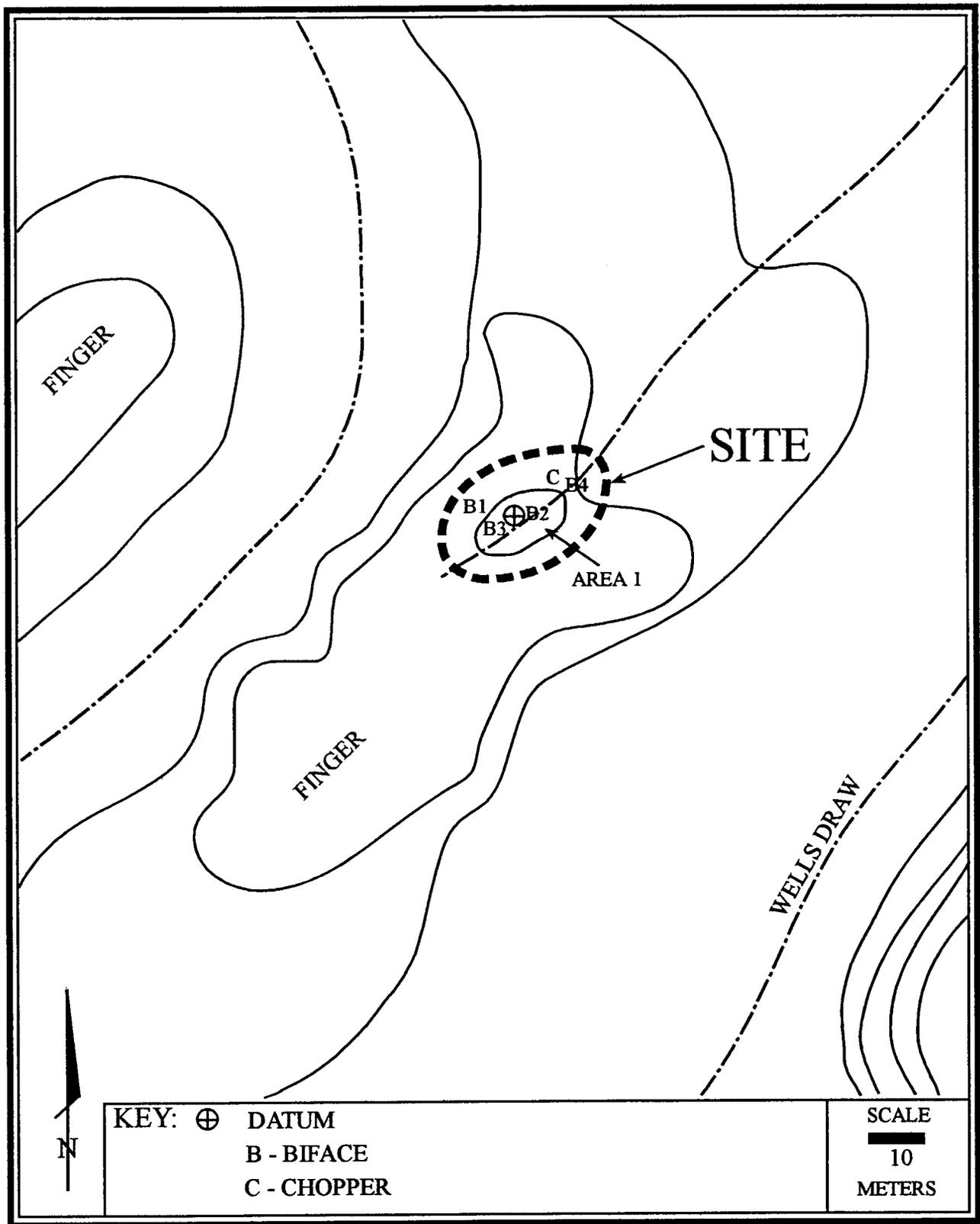


Figure 8. Plan map of site 42DC1247.

Site Number: 42DC1248

Temp Number: IN9-3

Figure Numbers: 4 and 9

Site Type: Campsite

Cultural Affiliation: Unknown Aboriginal

Setting: The site is located on a low bench within Wells Draw in an area of undulating tableland.

Description: The site consists of a small campsite located on a small bench within Wells Draw. The site measures 40 by 15 meters and consists of 20-25 flakes and two pieces of FCR. Lithic materials are primarily cherts. Debitage consists of primary and secondary flakes. Two bifaces and a scraper were the only tools noted. No features, debitage concentrations, or diagnostic tools were found. Maximum density of flakes is two per square meter. Soils are tan silts with few sandstone and limestone gravels. No indications of cultural depth was evident in nearby arroyos.

National Register Assessment: The site is a small campsite with few flakes and only two pieces of FCR. Although three tools were noted, none are diagnostic. Eroded areas of the site boundary were inspected for subsurface cultural remains with negative results. There does not appear to be any potential for substantial cultural deposition. The site will not provide further substantive data regarding lithic technology, chronology, site spatial patterning, or settlement patterns. The site does not meet any of the NRHP criteria and is therefore recommended as **ineligible** for the NRHP.

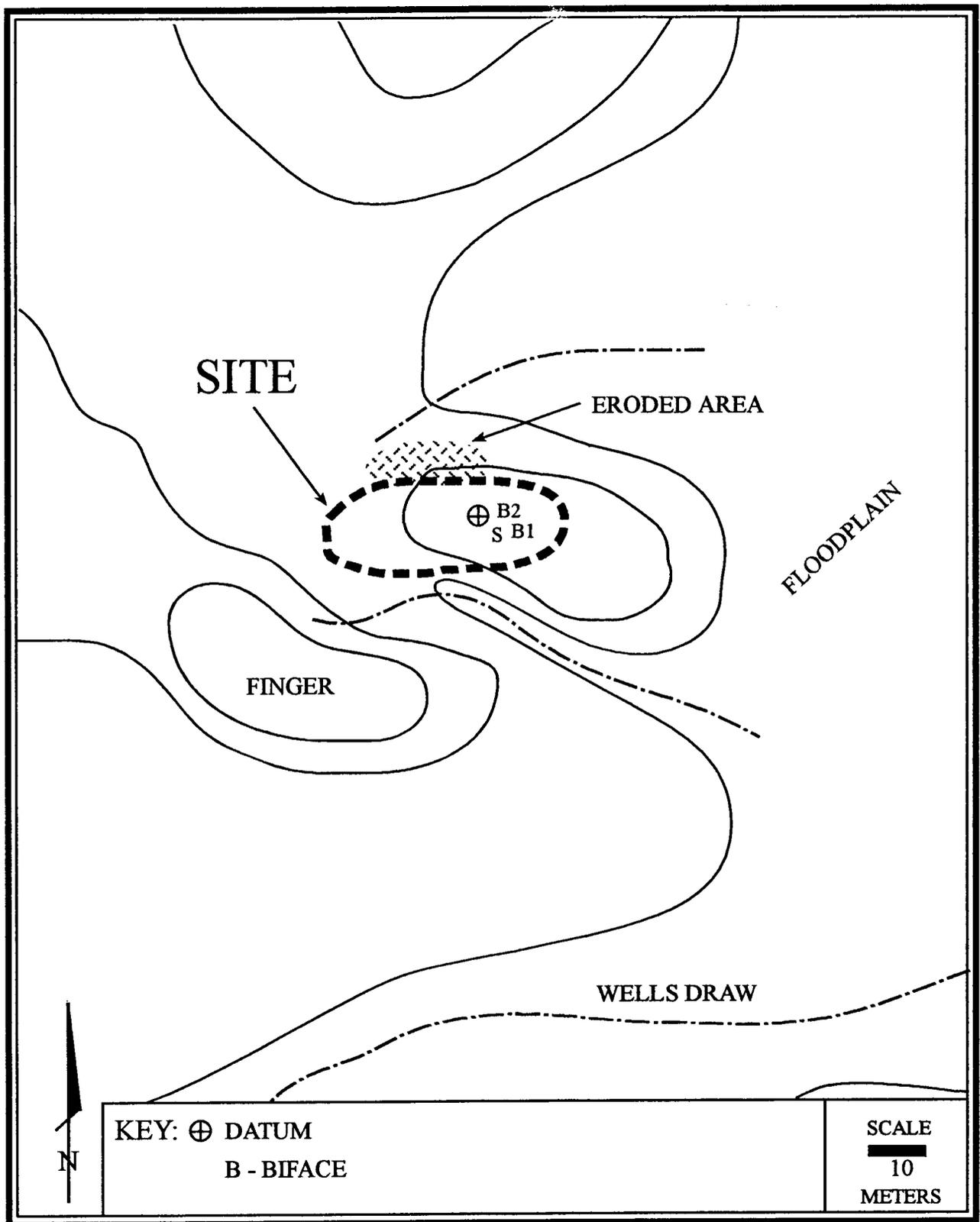


Figure 9. Plan map of site 42DC1248.

Site Number: 42DC1249

Temp Number: IN9-4

Figure Numbers: 6 and 10

Site Type: Lithic Scatter

Cultural Affiliation: Unknown Aboriginal

Setting: The site is located in a deflated area at the edge of an aeolian sand deposit.

Description: The site is a small lithic scatter located in a deflated area at the edge of an aeolian sand deposit. It is 20 by 12 meters and consists of five secondary chert flakes and three primary chert flakes. One biface of white chert was also noted. Maximum density is two flakes per square meter. No debitage concentrations, features, or fire-cracked rock were found. Soils are loose sand dunes and semi-compact tan sands to the south and west of the site, with a gravel matrix in the deflated area of the site.

National Register Assessment: The site is small and sparse with only six artifacts noted. The five flakes and biface are scattered over a 20 by 12 meter area. There does not appear to be any potential for substantial cultural deposition as the site is situated in a deflated area. The site will not provide further substantive data regarding lithic technology, chronology, site spatial patterning, or settlement patterns. The site does not meet any of the NRHP criteria and is therefore recommended as **ineligible** for the NRHP.

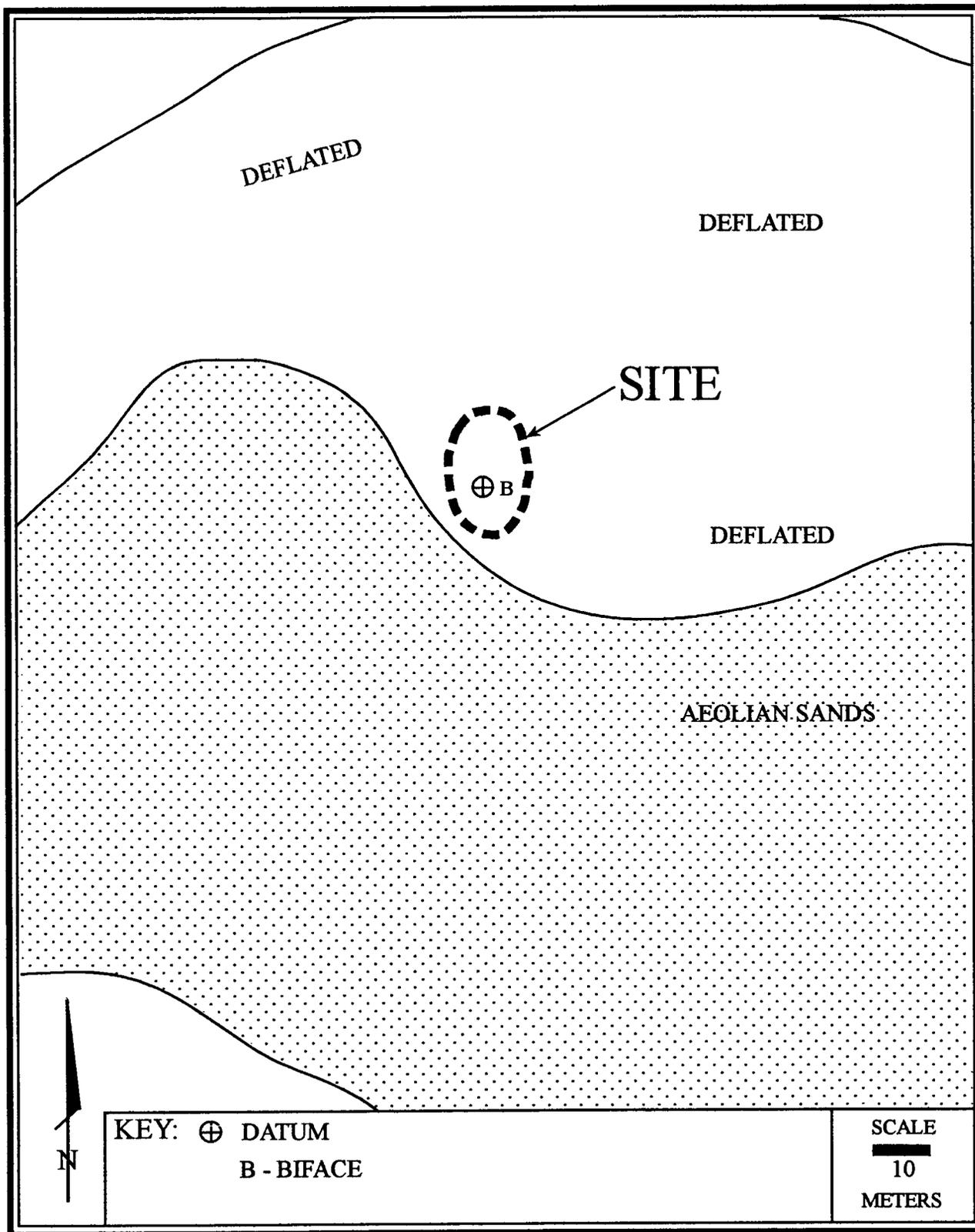


Figure 10. Plan map of site 42DC1249.

Site Number: 42DC1250

Temp Number: IN9-5

Figure Numbers: 6 and 11

Site Type: Lithic Scatter

Cultural Affiliation: Unknown Aboriginal

Setting: The site is located in a deflated area between low aeolian dunes.

Description: The site is a lithic scatter located in a deflated area between aeolian sand deposits. It is 20 by 25 meters with 10-15 secondary flakes and three projectile points. Lithic material includes cream, white, and gray chert. The maximum density of flakes is two per square meter. No debitage concentrations, features, or fire-cracked rock were found. The site is located in a deflated area with little potential for subsurface cultural deposits. Soils are a gravel matrix surrounded by aeolian sand deposits.

National Register Assessment: The site is a small lithic scatter with few artifacts. Artifacts found on site include three projectile points which are not diagnostic or identifiable. No debitage concentrations, features, or fire-cracked rock were found. The site does not exhibit potential for subsurface cultural deposition. It is unlikely that the site will provide further substantive data regarding lithic technology, site spatial patterns, settlement patterns, or subsistence. The site does not meet any of the NRHP criteria and is therefore recommended **ineligible**.

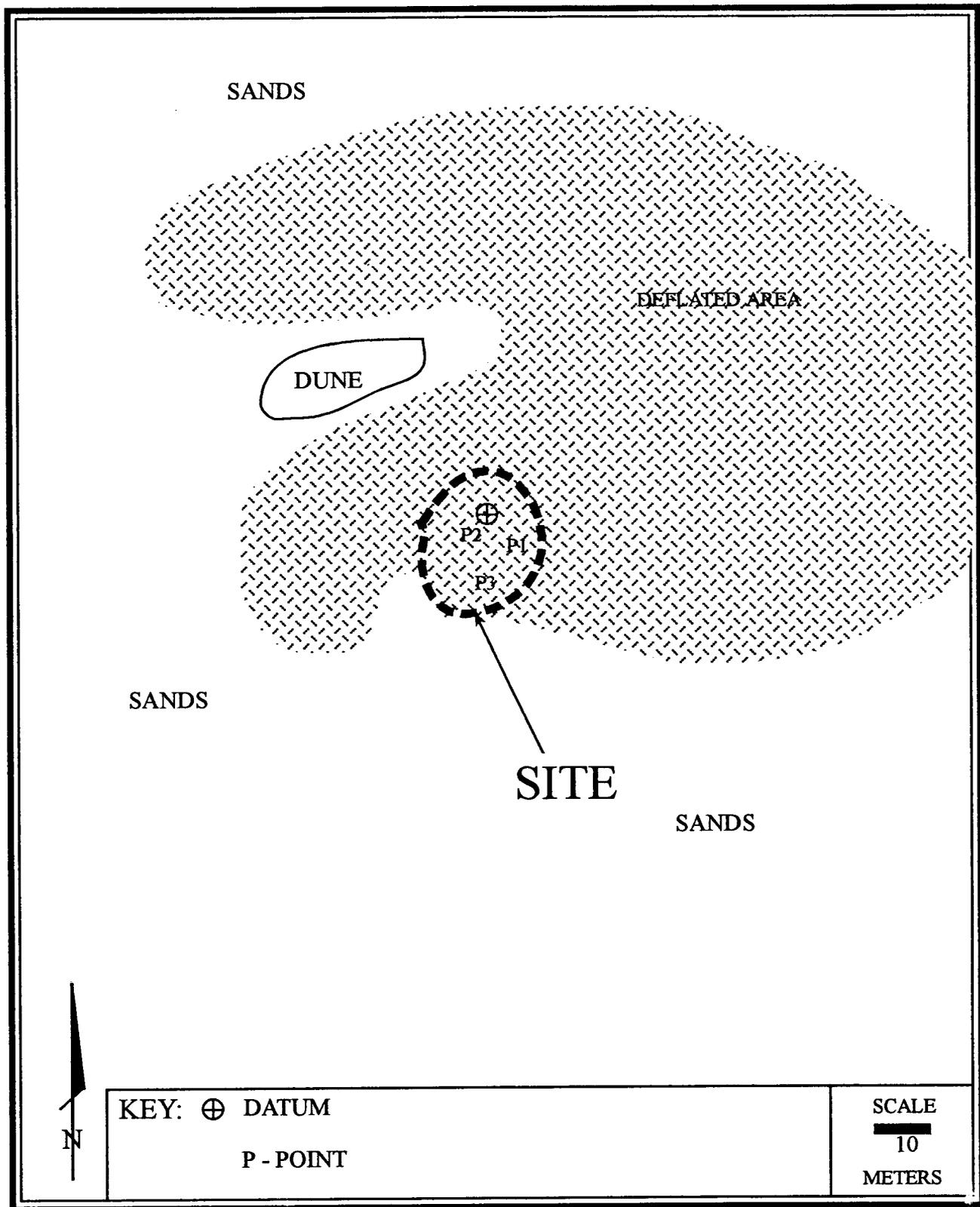


Figure 11. Plan map of site 42DC1250.

9.0 SUMMARY AND RECOMMENDATIONS

The Class III inventory identified one previously recorded cultural resource site and four newly recorded sites. Of the five sites, only one is recommended as eligible for the National Register of Historic Places (NRHP). The remaining four sites are recommended as ineligible for the NRHP. Based on the literature search, it was expected that few cultural resource sites would be found. Expected site types would be small lithic scatters and possibly a few small historic debris scatters. In addition, six isolated finds were recorded during the inventory. The paleontology work for the identified project is being completed under a separate report by Wade Miller.

No sites were encountered in the Ashley Unit well pads 1-2 and 8-2, and Lone Tree Unit 10-16.. Well pads 9-32, 15-32, and 16-32, in the Wells Draw Expansion, contained three prehistoric sites (42DC795, 42DC1247, 42DC1248), of which only one (42DC1247) is recommended as eligible for inclusion into the NRHP. Well pad 1A-10 and in-fill location 14-2 in the Castle Draw Unit contained two prehistoric sites (42DC1249, 42DC1250), both of which are recommended as ineligible for inclusion into the NRHP. The only eligible site (42DC1247) is located within well pad 16-32 of the Wells Draw Expansion and should be avoided. If avoidance is impractical, a research design and data recovery plan should be prepared for mitigation of the site. The development of well pads 1-2 and 8-2 in the Ashley Unit, 9-32 and 15-32 in the Wells Draw Expansion Unit, 10-16 in the Lone Tree Unit, 15-10 and in-fill 3-N10 in the Black Jack Unit, and 1A-10, 9-10, and in-fill locations 1-10, 1, and 14-2 in the Castle Draw Unit by Inland Resources will not affect any known significant cultural resource properties.

The nature and age of prehistoric cultural resources indicates that there is always the possibility of encountering previously unidentified cultural resources during any ground disturbing activities. In order to protect any unidentified or unrecorded cultural properties which may exist, the following restrictions should apply during construction of the drill pad:

1. Personnel and equipment associated with the project should be restricted to the area cleared for the project.
2. Personnel associated with the project should refrain from collecting or otherwise disturbing cultural materials that may be encountered during development.
3. If unrecorded cultural materials are encountered during the project, activities in the affected area(s) should cease, and the appropriate State office (SHPO), or BLM office, Vernal District should be notified before development in the area is resumed.
4. Human burials or other physical remains encountered during the project, require immediate cessation of activity in the affected area, as well as immediate notification of proper authorities. Native American burials or other remains must be reported to the BLM, Utah SHPO and appropriate Native American groups.

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WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/22/2000

API NO. ASSIGNED: 43-013-32150

WELL NAME: LONE TREE 16-16-9-17
 OPERATOR: INLAND PRODUCTION (N5160)
 CONTACT: JON HOLST

PHONE NUMBER: 303-893-0102

PROPOSED LOCATION:

SESE 16 090S 170E
 SURFACE: 0660 FSL 0660 FEL
 BOTTOM: 0660 FSL 0660 FEL
 DUCHESNE
 MONUMENT BUTTE (105)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	<i>RJM</i>	<i>5-11-00</i>
Geology		
Surface		

LEASE TYPE: 3 - State
 LEASE NUMBER: ML-3453B
 SURFACE OWNER: 3 - State

PROPOSED FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

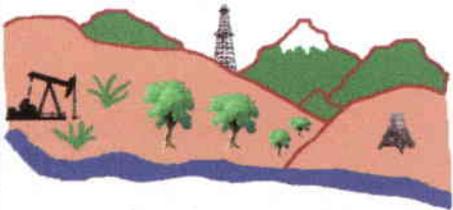
- Plat
- Bond: Fed[] Ind[] Sta[3] Fee[]
(No. RN 4471291)
- Potash (Y/N)
- Oil Shale (Y/N) *190 - 5 (B)
- Water Permit
(No. MUNICIPAL)
- RDCC Review (Y/N)
(Date: _____)
- N/A Fee Surf Agreement (Y/N)

LOCATION AND SITING:

- R649-2-3. Unit Lone Tree (GR)
- R649-3-2. General
Siting: _____
- R649-3-3. Exception
** Unit Operations & Enhanced Recovery*
- Drilling Unit
Board Cause No: 228-5
Eff Date: 6-18-98
Siting: Statewide Rules Suspended
- R649-3-11. Directional Drill

COMMENTS: Need Per site. (4/5/2000)

STIPULATIONS: ① Statement of Basis



Utah Oil Gas and Mining

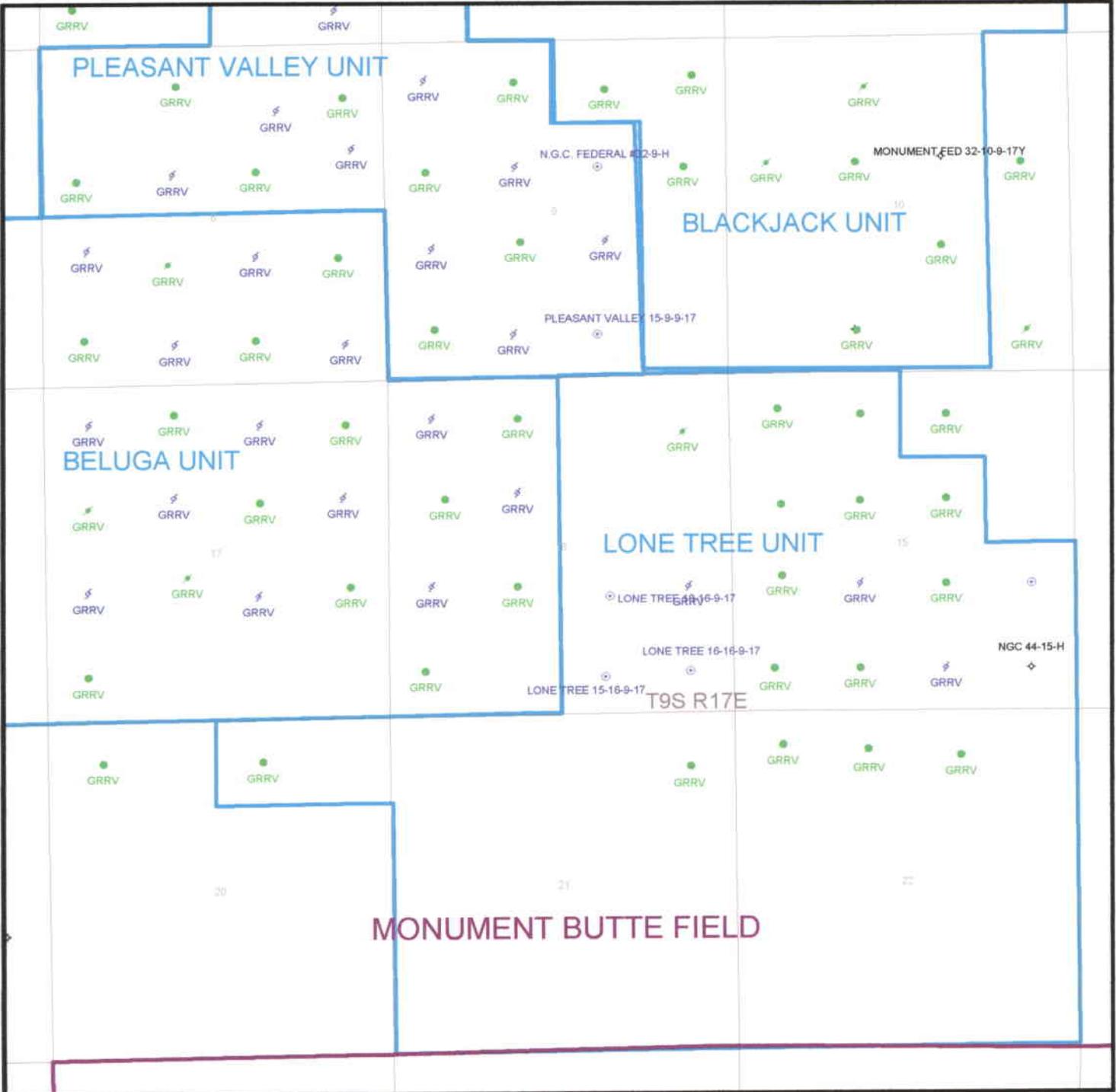
Serving the Industry, Protecting the Environment

OPERATOR: INLAND PRODUCTION CO. (N5160)

FIELD: MONUMENT BUTTE (105)

SEC. 16, T 9 S, R 17 E

COUNTY: DUCHESNE SPACING: STATE



PREPARED
DATE: 23-Mar-2000

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

Operator Name: Inland Production Company
Name & Number: Lone Tree #16-16-9-17
API Number: 43-013-32150
Location: 1/4,1/4 SE/SE Sec. 16 T. 9S R. 17E

Geology/Ground Water:

Inland has proposed setting surface casing to a depth of 300 feet at this location. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 16. The depth to the base of the moderately saline ground water is estimated to be approximately 270 feet. The surface and near-surface material at this location is comprised of Uinta Formation and weathered Uinta Formation. The Uinta formation is made up of interbedded sandstones and shales. The sandstones are irregular in shape and laterally discontinuous and are not seen as an extensive or prolific source of water. The surface casing will be cemented back to surface and should adequately protect any ground water resources.

Reviewer: Brad Hill
Date: 5/9/2000

Surface:

A presite investigation of the surface area was done by the Roosevelt Field Office and an Inland Production Company Representative on April 5, 2000. State Lands (SITLA) and the Division of Wildlife Resources were invited to attend the onsite meeting but neither agency attended. No surface water was noted in area. Subsurface water is not well documented but should not be an issue, nor is water drainage from on or around location.

Reviewer: Dennis L. Ingram
Date: April 17, 2000

Conditions of Approval/Application for Permit to Drill:

1. A 12 mil liner for the reserve pit is optional for operations but should be used if blasting is required to construct the reserve pit.

ON-SITE PREDRILL EVALUATION

Division of Oil, Gas and Mining

OPERATOR: Inland Production Company
WELL NAME & NUMBER: Monument Butte State #16-16-9-17
API NUMBER: 43-013-32150
LEASE: ML-3453B FIELD/UNIT: Beluga/Lone Tree
LOCATION: 1/4, 1/4 SE/SE Sec: 16 TWP: 9S RNG: 17E 660 FSL 660 FEL
GPS COORD (UTM): 12 584946E; 4431077
SURFACE OWNER: State Lands (SITLA)

PARTICIPANTS

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

REGIONAL/LOCAL SETTING & TOPOGRAPHY

Located approximately 1/2 mile south of Pariette Bench in the Monument Butte Field. Immediate surface area slopes slightly toward the south east but is relatively flat with sparse vegetative ground cover. A sandstone shelf or ridge is located just north of location.

SURFACE USE PLAN

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

PROPOSED SURFACE DISTURBANCE: Location proposed as 305'x 170' plus a temporary reserve pit as 50'x 110', plus 0.4 mile new access road.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: See map generated from GIS database. (Attached)

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: All production tanks and equipment will be located on location with residue and sales gas lines leaving same and connecting to main field lines.

SOURCE OF CONSTRUCTION MATERIAL: Cut and fill or borrowed material

ANCILLARY FACILITIES: None proposed in application to drill.

WASTE MANAGEMENT PLAN:

Attached to application to drill and submitted to DOGM

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: None

FLORA/FAUNA: Minor erosion, some sedimentation, no stability problems anticipated with construction of location.

SOIL TYPE AND CHARACTERISTICS: Soils are tan silts with scattered sandstone and limestone gravels.

SURFACE FORMATION & CHARACTERISTICS: Uinta Formation of Upper Eocene age.

EROSION/SEDIMENTATION/STABILITY: Minor erosion down center of location
some sedimentation, no stability problems anticipated with
Construction of location.

PALEONTOLOGICAL POTENTIAL: None observed during onsite visit.

RESERVE PIT

CHARACTERISTICS: In cut on northeast side of location and downwind of
Prevailing winds.

LINER REQUIREMENTS (Site Ranking Form attached): 15 points. A
synthetic liner will not be required.

SURFACE RESTORATION/RECLAMATION PLAN

According to SITLA stipulations at time of reclamation.

SURFACE AGREEMENT: Yes

CULTURAL RESOURCES/ARCHAEOLOGY: Done by JBR Environmental Consultant Inc.

OTHER OBSERVATIONS/COMMENTS

Location dips slightly toward center and drains to the southeast.
Sandstone outcropping just north of location.

ATTACHMENTS:

Photos of surface area and surface vegetation for reclamation purpose.

Dennis L. Ingram
DOGM REPRESENTATIVE

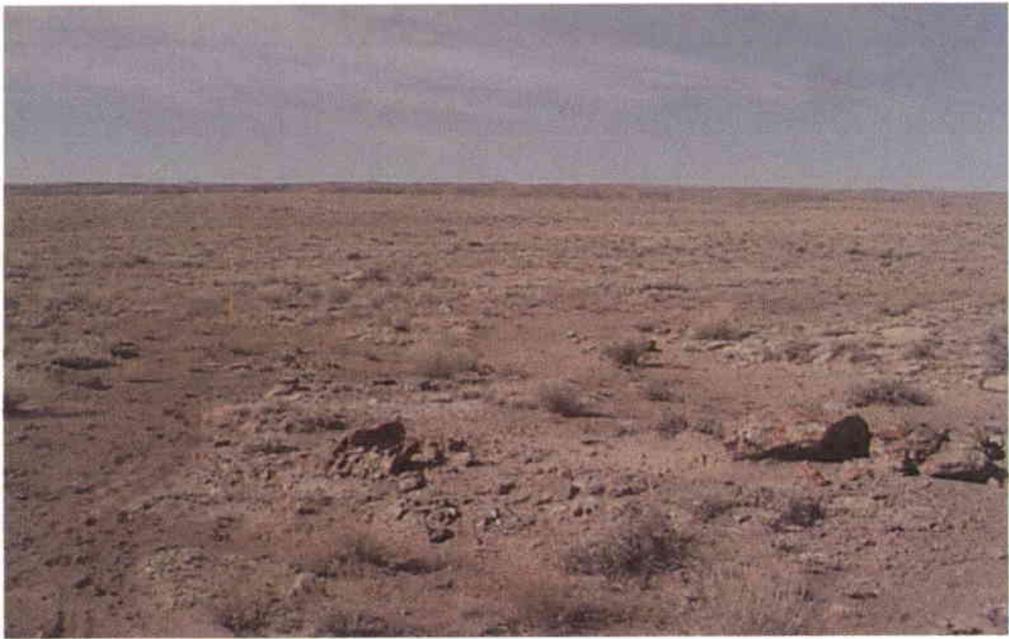
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DATE/TIME

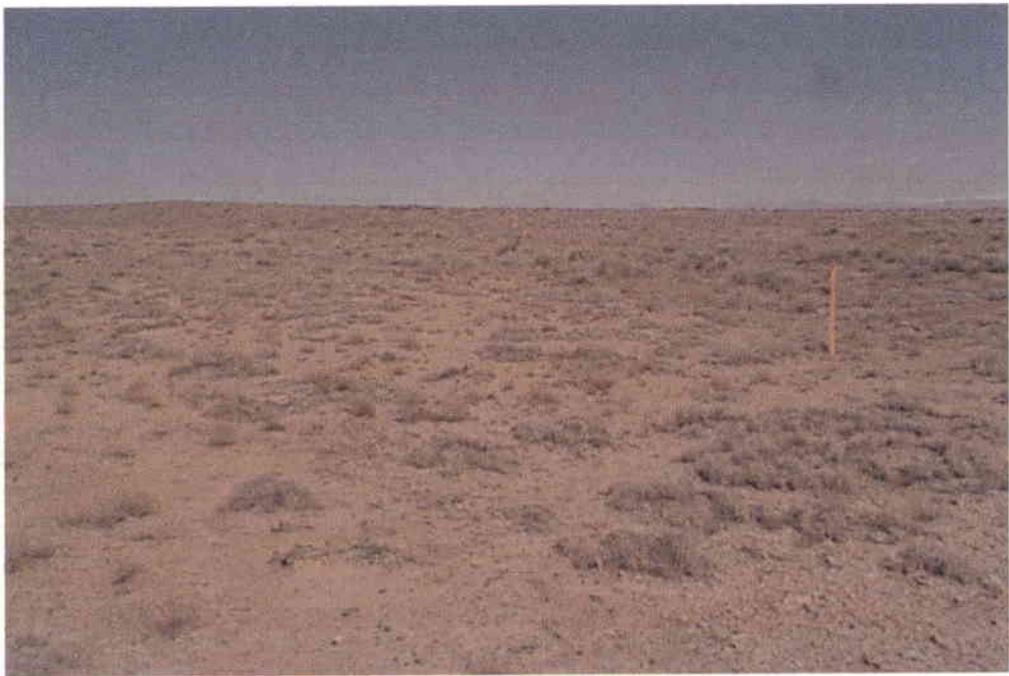
**Evaluation Ranking Criteria and Ranking Score
For Reserve and Onsite Pit Liner Requirements**

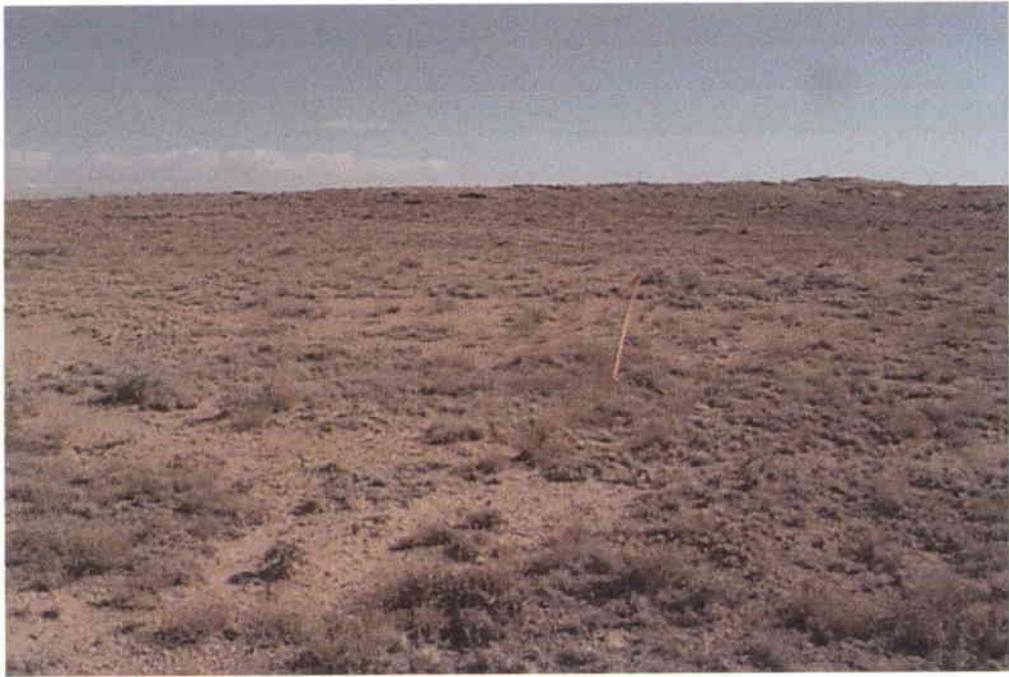
<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>0</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	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 (Level II Sensitivity)		<u>15</u>







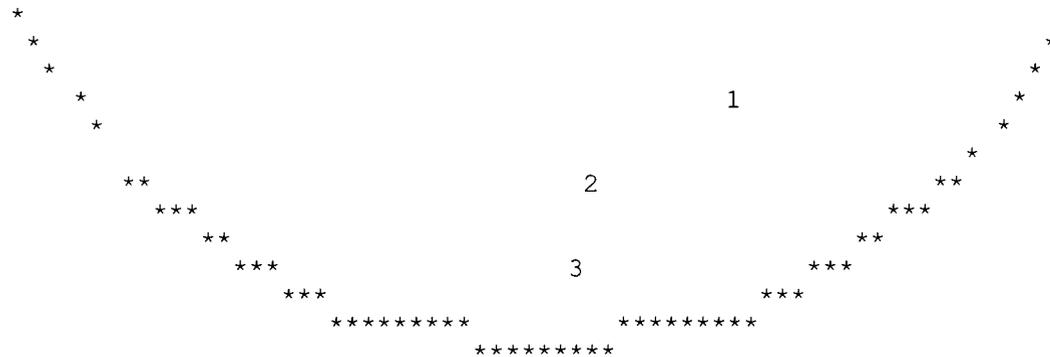












UTAH DIVISION OF WATER RIGHTS
 NWPLAT POINT OF DIVERSION LOCATION PROGRAM

MAP CHAR	WATER RIGHT	QUANTITY CFS	AND/OR AC-FT	SOURCE DESCRIPTION or WELL INFO	POINT OF DIVERSION	DESCRIPTION
				DIAMETER DEPTH YEAR LOG	NORTH EAST	CNR SEC TWN RNG B&M
0	47 1758	.0000	9.85	Snyder Springs Reservoir # 1	S 250 E 400	NW 21 9S 17E SL WATER USE(S): STOCKWATERING OTHER USA Bureau of Land Management (Vernal Di 170 South 500 East) PRIORITY DATE: 01/02/198 Vernal
1	47 1584	.0000	.00	unnamed stream		PRIORITY DATE: 00/00/188 Vernal
2	47 1333	.0020	.00	Unnamed Spring	N 680 E 810	S4 21 9S 17E SL WATER USE(S): STOCKWATERING USA Bureau of Land Management 2370 South 2300 West PRIORITY DATE: 00/00/188 Salt Lake City
3	47 1320	.0110	.00	Snyder Spring		PRIORITY DATE: 00/00/188 Salt Lake City

Well name:
 Operator: **Inland**
 String type: **Surface**

5-00 Inland LTU 16-16-9-17

Project ID:
 43-013-32150

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: 75 °F
 Bottom hole temperature: 79 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 300 ft

Cement top: 1 ft

Burst

Max anticipated surface pressure: -2,574 psi
 Internal gradient: 9.018 psi/ft
 Calculated BHP 131 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: 262 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 300 ft
 Next mud weight: 8.400 ppg
 Next setting BHP: 131 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 300 ft
 Injection pressure 300 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	300	8.625	24.00	J-55	ST&C	300	300	7.972	14.4
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	131	1370	10.47	131	2950	22.54	6	244	38.79 J

Prepared RJK
 by: Utah Dept. of Natural Resources

Date: May 11,2000
 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 300 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.
 In addition, burst strength is biaxially adjusted for tension.

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

Well name:

5-00 Inland LTU 16-16-9-17

Operator: **Inland**

String type: **Production**

Project ID:

43-013-32150

Location: **Duchesne Co.**

Design parameters:

Collapse

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

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 166 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 300 ft

Cement top: 191 ft

Burst

Max anticipated surface pressure: 0 psi
Internal gradient: 0.433 psi/ft
Calculated BHP 2,813 psi

No backup mud specified.

Tension:

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

Non-directional string.

Tension is based on buoyed weight.

Neutral point: 5,681 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	2813	4040	1.44	2813	4812	1.71	88	217	2.46 J

Prepared **RJK**
by: **Utah Dept. of Natural Resources**

Date: **May 11,2000**
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 8.33 ppg The casing is considered to be evacuated for collapse purposes.
In addition, burst strength is biaxially adjusted for tension.

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

5-00 Inland LTU 16-16-9-17

Casing Schematic

Surface

8-5/8"
MW 8.4
Frac 19.3

TOC @
191.

TOC @
1.
Surface
300. MD

8%

~ 15%

Cement Tops

w/ — %
We was hat

5-1/2"
MW 8.3

Production
6500. MD



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

1594 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)

May 15, 2000

Inland Production Company
410 - 17th Street, Suite 700
Denver CO 80202

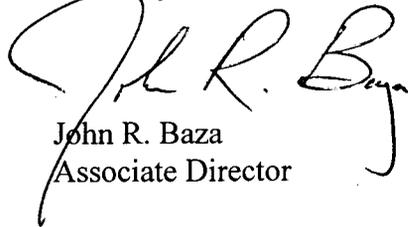
Re: Lone Tree 16-16-9-17 Well, 660' FSL, 660' FEL, SE SE, Sec. 16, T. 9S, R. 17E,
Duchesne County, Utah

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 enclosed Conditions of Approval, approval to drill the referenced well is granted.

This approval will 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 43-013-32150.

Sincerely,



John R. Baza
Associate Director

er

Enclosures

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

Operator: Inland Production Company

Well Name & Number: Lone Tree 16-16-9-17

API Number: 43-013-32150

Lease: ML-3453B

Location: SE SE Sec. 16 T. 9S R. 17E

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

Notify the Division 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
- Division contacts (please leave a voice mail message if the person is not available to take the call):
- . Dan Jarvis at (801)538-5338
 - . Robert Krueger at (801)538-5274 (plugging)
 - . 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 Com pany: INLAND PRODUCTION COMPANY

Well Name: LONE TREE 16-16-9-17

Api No.. 43-013-32150 LEASE TYPE: STATE

Section 16 Township 09S Range 17E County DUCHESNE

Drilling Contractor LEON ROSS DRILLING RIG # 14

SPUDDED:

Date 02/13/2001

Time 8:30 AM

How DRY

Drilling will commence _____

Reported by PAT WISENER

Telephone # 1-435-823-7468

Date 02/13/2001 Signed: CHD



PRODUCTION COMPANY
A Subsidiary of Inland Resources Inc.

February 19, 2001

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

Dear Carol:

Please find enclosed Form -5. For the Lone Tree 16-16-9-17. If you have any questions feel free to call me @ 435-823-7468 cell, or 435-646-3721 office any time.

Sincerely,

Pat Wisener,
Drilling Foreman

Enclosures;
Cc: Denver office well file
Pleasant Valley office well file

pw

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

1. SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NO. ML - 3453B	
(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 Beluga/Lone Tree	
2. NAME OF OPERATOR INLAND PRODUCTION COMPANY		8. FARM OR LEASE NAME Lone Tree	
3. ADDRESS OF OPERATOR Route 3, Box 3630 Myton, Utah 84052 (435) 646-3721		9. # 16-16-9-17	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. * See also space 17 below.) At surface 600' FSL & 660' FEL SE/SE		10. FIELD AND POOL, OR WILDCAT Monument Butte	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 16, T9s, R17E	
14. API NUMBER 43-013-32150	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5299.2' GR	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) <u>Spud notice</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 Ross rig #14. Spud well @ 8:30 AM on 02/13/01. Drill 121/4" hole to a depth of 300'. PU & MU 7 jt's 85/8" J-55 24# csqn set depth of 301.21/ GL. 2/18/01 Cement with 145 sks of Class "G" w/ 2% CaCL2 + 1/4# sk Cello-Flake Mixed @ 15.8 ppg > 1.17 cf/sk yeild. 7 bbls cement returned to surface.

18 I hereby certify that the foregoing is true and correct.
SIGNED [Signature] TITLE Drilling Foreman DATE 02/19/2001

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

INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 301.21'

LAST CASING 8 5/8" SET AT 301.21
 DATUM 10' KB
 DATUM TO CUT OFF CASING _____
 DATUM TO BRADENHEAD FLANGE _____
 TD DRILLER 300' LOGGER _____
 HOLE SIZE 12 1/4

OPERATOR Inland Production Company
 WELL Lone Tree 16-16-9-17
 FIELD/PROSPECT Monument Butte
 CONTRACTOR & RIG # Ross #14

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		shjt 38.35					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	290.36
		GUIDE shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			292.21
TOTAL LENGTH OF STRING		292.21	7	LESS CUT OFF PIECE			1
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			10
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			301.21
TOTAL		290.36	7	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		290.36	7				
TIMING		1ST STAGE					
BEGIN RUN CSG.		SPUD	02/13/2001	GOOD CIRC THRU JOB			yes
CSG. IN HOLE		8.30am		Bbls CMT CIRC TO SURFACE			7
BEGIN CIRC				RECIPROCATED PIPE FOR			THRU FT STROKE
BEGIN PUMP CMT				DID BACK PRES. VALVE HOLD ?			N/A
BEGIN DSPL. CMT				BUMPED PLUG TO			200 PSI
PLUG DOWN		Cemented	02/18/2001				
CEMENT USED		CEMENT COMPANY- BJ					
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							

COMPANY REPRESENTATIVE Pat Wisener DATE 02/09/2001

P. 02

FAX NO. 435-646 3031

INLAND PRODUCTION CO

APR-17-01 TUE 08:25 AM

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	AP NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12417	43-013-32150	Lone Tree #16-16-9-17	SE/SE	16	9S	17E	Duchesne	February 13, 2001	02/13/01

WELL 1 COMMENTS
 4-17-01

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	AP NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12419	43-013-32175	Ashley #13-12-9-15	SW/SW	12	9S	15E	Duchesne	February 15, 2001	02/15/01

WELL 2 COMMENTS
 4-17-01

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	AP NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12418	43-013-32207	West Point #3-8-9-16	NE/NW	8	9S	16E	Duchesne	February 20, 2001	02/20/2001

WELL 3 COMMENTS
 4-17-01

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	AP NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12418	43-013-32208	West Point #4-8-9-16	NW/NW	8	9S	16E	Duchesne	February 28, 2001	02/28/01

WELL 4 COMMENTS
 4-17-01

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	AP NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12418	43-013-32209	West Point #5-8-9-16	SW/NW	8	9S	16E	Duchesne	March 8, 2001	03/08/01

WELL 5 COMMENTS
 4-17-01

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

Katrina S. Jones
 Katrina S. Jones
 Production Clerk
 April 17, 2001
 Date

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



December 16, 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
Re: Completion reports

Dear Ms. Carol Daniels

Enclosed are the preliminary completion reports for the wells spud more than 4 months ago, but not reported as completed.

Inland Resources intends to drill and complete most of the wells on this list in the year 2004. At that time, I will be sending to you the final completion reports for these wells.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Brian Harris". The signature is fluid and cursive, written over a few lines.

Brian Harris
Engineering Tech

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

Wells Spudded More than 4 Months Ago But Not Yet Reported As Completed

Well Name			Twp-Rng-Sec		API Number		Spud Date
S WELLS DRAW 13-3-9-16			09S 16E 03		4301332106		9/22/2000
LONE TREE 10-16-9-17			09S 17E 16		4301332087		2/5/2001
LONE TREE 15-16-9-17			09S 17E 16		4301332089		2/7/2001
LONE TREE 16-16-9-17			09S 17E 16		4301332150		2/13/2001
ODEKIRK SPRINGS 15-35-8-17			08S 17E 35		4304733550		4/11/2001
GBU 1-34-8-17			08S 17E 34		4301332252		8/12/2001
GBU 7-34-8-17			08S 17E 34		4301332257		8/30/2001
ASHLEY 2-11-9-15			09S 15E 11		4301332214		10/24/2001
S WELLS DRAW 14-3-9-16			09S 16E 03		4301332139		2/18/2002
S WELLS DRAW 11-3-9-16			09S 16E 03		4301332138		2/19/2002
ASHLEY 7-11-9-15			09S 15E 11		4301332215		7/8/2002
JONAH 4-11-9-16			09S 16E 11		4301332279		1/2/2003
GBU 10-26-8-17			08S 17E 26		4304734309		1/29/2003
GBU 2-26-8-17			08S 17E 26		4304734163		4/29/2003
JONAH 7-14-9-16			09S 16E 14		4301332338		5/12/2003
JONAH 6-14-9-16			09S 16E 14		4301332337		6/9/2003
JONAH 5-14-9-16			09S 16E 14		4301332336		6/11/2003
LONE TREE U 8-16-9-17			09S 17E 16		4301332311		7/15/2003
HUMPBACK FED 9-24-8-17			08S 17E 24		4304734881		7/21/2003
LONE TREE U 7-16-9-17			09S 17E 16		4301332310		7/25/2003

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

(See other instructions on reverse side)

OMB NO. 1004-0137
Expires: February 28, 1995

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

5. LEASE DESIGNATION AND SERIAL NO.

ML-3453B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

Lone Tree

8. FARM OR LEASE NAME, WELL NO.

Lone Tree 16-16-9-17

9. WELL NO.

43-013-32150

10. FIELD AND POOL OR WILDCAT

Monument Butte

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

Sec. 16, T9S, R17E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WORK

OIL WELL GAS WELL DRY Other _____

1b. TYPE OF WELL

NEW WELL WORK OVER DEEPEN PLUG BACK DIFF RESVR. Other _____

2. NAME OF OPERATOR

INLAND RESOURCES INC.

3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

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

At Surface **660' FSL & 660' FEL (SE SE) Sec. 16, T9S, R17E**

At top prod. Interval reported below

At total depth

14. API NO. **43-013-32150** DATE ISSUED _____

12. COUNTY OR PARISH **Duchesne**

13. STATE **UT**

15. DATE SPUDDED **2/19/01**

16. DATE T.D. REACHED _____

17. DATE COMPL. (Ready to prod.) **2-18-01**

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* **5299' GL**

5309' KB

19. ELEV. CASINGHEAD _____

20. TOTAL DEPTH, MD & TVD

301

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

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

25. WAS DIRECTIONAL SURVEY MADE **No**

26. TYPE ELECTRIC AND OTHER LOGS RUN _____

27. WAS WELL CORED **No**

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	301'	12-1/4"	To surface with 145 sx Class "G" cmt	
5-1/2" - J-55	15.5#		7-7/8"		

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	EOT @	TA @

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPE/NUMBER

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION _____		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) _____				WELL STATUS (Producing or shut-in) TA W/O Drill Rig	
DATE OF TEST 10 day ave	HOURS TESTED _____	CHOKE SIZE _____	PROD'N. FOR TEST PERIOD ----->	OIL--BBL. _____	GAS--MCF. _____	WATER--BBL. _____	GAS-OIL RATIO #VALUE!
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

DEC 22 2003

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 12/12/03

BDH

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

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):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS	
				NAME	TRUE
			Well Name Lone Tree 16-16-9-17		
				Garden Gulch Mkr Garden Gulch 1 Garden Gulch 2 Point 3 Mkr X Mkr Y-Mkr Douglas Creek Mkr BiCarbonate Mkr B Limestone Mkr Castle Peak Basal Carbonate Total Depth (LOGGERS)	

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

1. SUNDRY NOTICES AND REPORTS ON WELLS <small>(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.)</small>		5. LEASE DESIGNATION AND SERIAL NO. ML-3453B	
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 N/A	
2. NAME OF OPERATOR INLAND PRODUCTION COMPANY		7. UNIT AGREEMENT NAME MONUMENT BUTTE	
3. ADDRESS OF OPERATOR Rt. 3 Box 3630, Myton Utah 84052 435-646-3721		8. FARM OR LEASE NAME LONE TREE 16-16-9-17	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SE/SE Section 16, T9S R17E 660 FSL 660 FEL		9. WELL NO. LONE TREE 16-16-9-17	
		10. FIELD AND POOL, OR WILDCAT LONE TREE	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/SE Section 16, T9S R17E	
14. API NUMBER 43-013-32150	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 0	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 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) <input checked="" type="checkbox"/> Weekly Status report

(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.)*

On 3-25-04. MIRU Patterson #155. Set equipment. Pressure test Bop's, Kelly, & TIW to 2,000 psi. Test 85/8" csgn to 1,500 psi. Roosevelt, SLC office was notified of test. PU BHA and tag cement @ 249'. Drill out cement & shoe. Continue to drill a 77/8" hole with fresh water to a depth of 5685'. Lay down drill string, BHA. Open hole log from TD to surface. PU & MU guide shoe, 1 jt 51/2" J-55 15.5 # csgn. Float collar, & 128 Jt's 51/2" J-55 15.5# csgn. Set @ 5676'/KB. Cement with 350 sks Prem Lite II w/ 3% KCL, 10% Gel, 5#"s sk CSE, 3#"s sk Kolsenal, .8% Sms, 1/4# sks Celloflake. Mixed @ 11.0 ppg, >3.42 yld. Followed by 400 sks 50/50 Poz w/ 3% KCL, 2% Gel, .05% Static free, 1/4# sk Celloflake. Mixed @ 14.4 ppg, > 1.24 yld. Returned 45 of 50 bbls dye water to pit. Nippel down BOP's. Drop slips @ 85.000 # 's tension. Clean pit's & release rig on 3-31-04 @ 7:00 am.

RECEIVED
APR 05 2004
DIV. OF OIL, GAS & MINING

18 I hereby certify that the foregoing is true and correct

SIGNED Ray Hanna TITLE Drilling Foreman DATE 4-1-04

cc: BLM
(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 5676.9

Fit clr @

LAST CASING 8 5/8" SET AT 302.21'

OPERATOR Inland Production Company

DATUM 12.5 KB

WELL Lone Tree 16-16-9-17

DATUM TO CUT OFF CASING 12.5

FIELD/PROSPECT Monument Butte

DATUM TO BRADENHEAD FLANGE _____

CONTRACTOR & RIG # Patterson 155

TD DRILLER 5685' LOGGER 5687'

HOLE SIZE 7 7/8"

LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14
		5.90' 4032' short jt					
128	5 1/2"	ETC LT & C casing	15.5#	J-55	8rd	A	5628.25
		Float collar					0.6
1	5 1/2"	ETC LT&C csg	15.5#	J-55	8rd	A	34.9
		GUIDE shoe			8rd	A	0.65

CASING INVENTORY BAL.	FEET	JTS	TOTAL LENGTH OF STRING	5678.4
TOTAL LENGTH OF STRING	5678.4	130	LESS CUT OFF PIECE	14
LESS NON CSG. ITEMS	15.25		PLUS DATUM TO T/CUT OFF CSG	12.5
PLUS FULL JTS. LEFT OUT	177.3	4	CASING SET DEPTH	5676.9
TOTAL	5840.45	133	} COMPARE	<div style="text-align: center;"> <p>RECEIVED</p> <p>APR 05 2004</p> <p>DIV. OF OIL, GAS & MINING</p> </div>
TOTAL CSG. DEL. (W/O THRDS)	5840.34	133		
TIMING	1ST STAGE	2nd STAGE	GOOD CIRC THRU JOB	
BEGIN RUN CSG.	8:00 PM	3/30/04	Bbls CMT CIRC TO SURFACE	45 of 50 dye water to pit
CSG. IN HOLE	1:00 AM	3/31/04	RECIPROCATED PIPE FOR	THRUSTROKE
BEGIN CIRC	1:10 AM	3/31/04	DID BACK PRES. VALVE HOLD ?	yes
BEGIN PUMP CMT	2:25 AM	3/31/04	BUMPED PLUG TO	1490 PSI
BEGIN DSPL. CMT	3:09 AM	3/31/04		
PLUG DOWN	3:36 AM	3/31/04		

CEMENT USED	CEMENT COMPANY- B. J.	
STAGE	# SX	CEMENT TYPE & ADDITIVES
1	350	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	400	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 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.		

COMPANY REPRESENTATIVE Ray Herrera

DATE March 31, 2004

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 Inland Production Company

3a. Address Route 3 Box 3630
 Myton, UT 84052

3b. Phone No. (include are code)
 435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 660 FSL 660 FEL
 SE/SE Section 16 T9S R17E

5. Lease Serial No.
 UTU77236X

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.
 LONE TREE UNIT

8. Well Name and No.
 LONE TREE 16-16-9-17

9. API Well No.
 4301332150

10. Field and Pool, or Exploratory Area
 Monument Butte

11. County or Parish, State
 Duchesne, UT

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Weekly Status Report _____
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation requires multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Status report for time period 4/08/04 – 4/20/04

Subject well had completion procedures initiated in the Green River formation on 4/08/04 without the use of a service rig over the well. A cement bond log was run and a total of six Green River intervals were perforated and hydraulically fracture treated w/ 20/40 mesh sand. Perf intervals were #1 (5496-5504') & (5432-5439) (All 4 JSPF); #2 (5295-5300') & (5231-5241) (All 4 JSPF); #3 (4988-5504')(4 JSPF); #4 (4594-4600), (4538-4546) & (4515-4533) (All 4 JSPF); #5 (4422-4433') (4 JSPF); #6 (3863-3885') (4 JSPF). Composite flow-through frac plugs were used between stages. Fracs were flowed back through chokes. A service rig was moved on well on 4/15/04. Bridge plugs were drilled out. Well was cleaned out to PBTD @ 5619'. Zones were swab tested for sand cleanup. A BHA & production tubing string were run in and anchored in well. End of tubing string @ 5579'. A new 1 1/2" bore rod pump was run in well on sucker rods. Well was placed on production via rod pump on 4/20/04.

I hereby certify that the foregoing is true and correct	Title
Name (Printed/ Typed) Jodi Wyatt	Production Clerk
Signature 	Date 4/22/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

RECEIVED
APR 26 2004

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

5. LEASE DESIGNATION AND SERIAL NUMBER: ML3453B
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: LONE TREE UNIT
8. WELL NAME and NUMBER: LONE TREE 16-16-9-17
9. API NUMBER: 4301332150
10. FIELD AND POOL, OR WILDCAT: Monument Butte

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	
2. NAME OF OPERATOR: Inland 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: 660 FSL 660 FEL COUNTY: Duchesne QTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SE/SE, 16, T9S, R17E STATE: Utah	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
	TYPE OF ACTION	TYPE OF ACTION	TYPE OF ACTION
<input checked="" 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"/> 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 checked="" 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: - Water Disposal
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

**Accepted by the
Utah Division of
Oil, Gas and Mining**
Date: 05-24-04
By: [Signature]

TO OPERATOR
5-25-04
[Signature]

NAME (PLEASE) <u>Mandie Crozier</u>	TITLE <u>Regulatory Specialist</u>
SIGNATURE <u>[Signature]</u>	DATE <u>May 20, 2004</u>

(This space for State use only)

MAY 21 2004
Div. of Oil, Gas and Mining

Inland Resources Inc.

May 21, 2004

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

Lonetree 16-16-9-17 (43-013-31250)
Duchesne County, Utah

~~Federal 15-1-9-17 (43-047-35182)~~
~~Uintah County, Utah~~

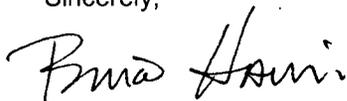
Lonetree 15-16-9-17 (43-013-32089)
Duchesne County, Utah UPDATED to add TD and PBTD depths

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 Pat Grissom 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
Matt Richmond/Roosevelt

RECEIVED
MAY 27 2004
DIV. OF OIL, GAS & MINING

Alamo Plaza Building
1401 Seventeenth Street, Suite 1000
Denver, CO 80202
303-893-0102 • Fax: 303-893-0103

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

(See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WORK

1b. TYPE OF WELL

OIL WELL GAS WELL DRY Other _____

NEW WELL WORK OVER DEEPEN PLUG BACK DIFF RESVR. Other _____

2. NAME OF OPERATOR

INLAND RESOURCES INC.

3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

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

At Surface 660' FSL & 660' FEL (SE SE) Sec. 16, T9S, R17E

At top prod. Interval reported below

At total depth

14. API NO. 43-013-32150 DATE ISSUED 5/15/2000

15. DATE SPUNDED 2/19/01 16. DATE T.D. REACHED 3/31/2004 17. DATE COMPL. (Ready to prod.) 4/20/2004 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5299' GL 5309' KB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5685' 21. PLUG BACK T.D., MD & TVD 5642' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY -----> 24. ROTARY TOOLS X 25. CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)*
Green River 3863'-5504'

26. TYPE ELECTRIC AND OTHER LOGS RUN

DLG/GR, CD/CN/GR

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	301'	12-1/4"	To surface with 145 sx Class "G" cmt	
5-1/2" - J-55	15.5#	5677'	7-7/8"	350 sxs Premlite II w/ 400 sxs 50/50 POZ	

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @ 5512'	TA @ 5415'

31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	
(CP4,5) 5432-39', 5496-5504'	.45"	4/60	5432'-5504'	Frac w/ 28,401# 20/40 sand in 322 bbls fluid	
(CP1,2) 5231-41', 5295-5300'	.45"	4/60	5231'-5300'	Frac w/ 35,880# 20/40 sand in 350 bbls fluid	
(LODC) 4988'-5006	.45"	4/72	4988'-5006'	Frac w/ 48,919# 20/40 sand in 418 bbls fluid	
(B.5,C-sd) 4514-33', 4538-46', 4594-4600'	.45"	4/132	4514'-4600'	Frac w/ 139,336# 20/40 sand in 927 bbls fluid	
(D2) 4422'-4433'	.45"	4/44	4422'-4433'	Frac w/ 73,805# 20/40 sand in 551 bbls fluid	
(GB4) 3863'-3885'	.45"	4/88	3863'-3885'	Frac w/ 56,854# 20/40 sand in 438 bbls fluid	

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)	WELL STATUS (Producing or shut-in)
4/20/2004	2 1/2" x 1 1/2" x 15' RHAC pump	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
10 day ave			----->	73	128	32	175

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY--API
		----->				

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 5/21/2004
Brian Harris

RECEIVED
MAY 27 2004
DIV. OF OIL, GAS & MINING

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

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).

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
			Well Name Lone Tree 16-16-9-17			
				Garden Gulch Mkr	3388'	
				Garden Gulch 1	3580'	
				Garden Gulch 2	3686'	
				Point 3 Mkr	3953'	
				X Mkr	4182'	
				Y-Mkr	4218'	
				Douglas Creek Mkr	4344'	
				BiCarbonate Mkr	4578'	
				B Limestone Mkr	4688'	
				Castle Peak	5184'	
				Basal Carbonate	5602'	
				Total Depth (LOGGERS)	5685'	



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

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:

LONE TREE (GREEN RIVER)

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
FED NGC 21-15	15	090S	170E	4301330614	12417	Federal	WI	A
NGC 24-15H FED	15	090S	170E	4301330681	12417	Federal	OW	P
FEDERAL 14-15H	15	090S	170E	4301331695	12417	Federal	WI	A
FEDERAL 13-15H	15	090S	170E	4301331698	12417	Federal	OW	P
S PLEASANT VALLEY 5-15-9-17	15	090S	170E	4301331886	12417	Federal	WI	A
S PLEASANT VALLEY 11-15-9-17	15	090S	170E	4301331991	12417	Federal	WI	A
S PLEASANT VALLEY 15-15-9-17	15	090S	170E	4301331992	12417	Federal	WI	A
S PLEASANT VALLEY FED 4-15-9-17	15	090S	170E	4301332018	12417	Federal	OW	P
S PLEASANT VALLEY FED 6-15-9-17	15	090S	170E	4301332019	12417	Federal	OW	P
S PLEASANT VALLEY FED 7-15-9-17	15	090S	170E	4301332020	12417	Federal	WI	A
S PLEASANT VALLEY FED 10-15-9-17	15	090S	170E	4301332022	12417	Federal	OW	P
STATE 16-2	16	090S	170E	4301330552	12417	State	OW	TA
K JORGENSON ST 16-4	16	090S	170E	4301330572	12417	State	WI	A
LONE TREE 10-16-9-17	16	090S	170E	4301332087	12417	State	OW	P
LONE TREE 15-16-9-17	16	090S	170E	4301332089	12417	State	OW	P
LONE TREE 16-16-9-17	16	090S	170E	4301332150	12417	State	OW	P
S PLEASANT VALLEY FED 2-20	20	090S	170E	4301331737	12417	Federal	OW	P
S PLEASANT VALLEY FED 1-21	21	090S	170E	4301331563	12417	Federal	WI	A
S PLEASANT VALLEY FED 4-22	22	090S	170E	4301331522	12417	Federal	OW	P
S PLEASANT VALLEY FED 2-22-9-17	22	090S	170E	4301332023	12417	Federal	OW	P
S PLEASANT VALLEY FED 3-22-9-17	22	090S	170E	4301332024	12417	Federal	WI	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/2004

2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/2004

3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/2005

4. Is the new operator registered in the State of Utah: YES Business Number: 755627-0143

5. 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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

**1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>**

MAY 07 2012

Ref: 8P-W-UIC

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Eric Sundberg
Regulatory Analyst
Newfield Production Company
1001 Seventeenth Street – Suite 2000
Denver, Colorado 80202

RECEIVED

MAY 14 2012

DIV. OF OIL, GAS & MINING

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

FOR RECORD ONLY

RE: Underground Injection Control (UIC)
Additional Well to Lone Tree Area Permit
EPA UIC Permit UT20853-09061
Well: Lone Tree Federal 16-16-9-17
SESE Sec. 16 T9S-R17E
Duchesne County, Utah
API No.: 43-013-32150

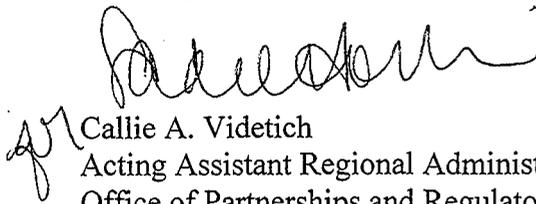
Dear Mr. Sundberg:

The U.S. Environmental Protection Agency Region 8 hereby authorizes Newfield Production Company (Newfield) to convert the oil well Lone Tree Federal 16-16-9-17 to an enhanced recovery injection well according to the terms and conditions of the enclosed Authorization for Additional Well. The addition of this injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Lone Tree Area Permit No. UT20853-00000 and subsequent modifications.

Please be aware that Newfield does not have authorization to begin well injection until all Prior to Commencing Injection requirements are met and written authorization to inject is given by the Director. Prior to receiving authorization to inject Newfield must submit for review and approval (1) the results of a Part I (internal) Mechanical Integrity test, (2) a pore pressure calculation of the injection interval and (3) a completed EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram.

If you have any questions, please call Emmett Schmitz at (303) 312-6174 or (800) 227-8917, extension 312-6174. Please submit the required data to Jason Deardorff at the letterhead address citing mail code 8P-W-UIC.

Sincerely,



Callie A. Videtich
Acting Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

Enclosures: Authorization for Additional Well
Proposed Conversion Wellbore Schematic for Lone Tree Federal 16-16-9-17

cc: Letter Only:

Uintah & Ouray Business Committee:
Irene Cuch, Chairman
Ronald Wopsock, Vice-Chairman
Frances Poowegup, Councilwoman
Phillip Chimburas, Councilman
Stewart Pike, Councilman
Richard Jenks, Jr., Councilman

Daniel Picard
BIA - Uintah & Ouray Indian Agency

cc: All Enclosures:

Mike Natchees
Environmental Coordinator
Ute Indian Tribe

Manual Myore
Director of Energy & Minerals Dept.
Ute Indian Tribe

Brad Hill
Acting Associate Director
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office
BLM - Vernal Office

Reed Durfey
District Manager
Newfield Production Company
Myton, Utah



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
1595 WYNKOOP STREET
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

AUTHORIZATION FOR ADDITIONAL WELL

UIC Area Permit UT20853-00000

The Lone Tree UIC Area Permit UT20853-00000, effective September 1, 1998 authorizes injection for the purpose of enhanced oil recovery in the Monument Butte Field. On March 23, 2012, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

Well Name:	Lone Tree Federal 16-16-9-17
EPA Permit ID Number:	UT20853-09601
Location:	660' FSL & 660' FEL SESE Sec. 16-T9S-R17E Duchesne County, Utah API #43-013-32150

Pursuant to 40 CFR §144.33, Area UIC Permit UT20853-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit No. UT20853-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date:

5/2/12



for **Callie A. Videtich**

***Acting Assistant Regional Administrator**
Office of Partnerships and Regulatory Assistance

** The person holding this title is referred to as the Director throughout the permit and Authorization*

INJECTION WELL-SPECIFIC REQUIREMENTS

Well Name: Lone Tree Federal 16-16-9-17
EPA Well ID Number: UT20853-09601

Prior to Commencing Injection Operations, the permittee shall submit the following information:

1. Completed Well Rework Record (EPA Form No. 7520-12) and schematic diagram;
2. Pore pressure calculation of the proposed injection zone;
3. Results from a successful part I (internal) Mechanical Integrity test.

Once these records are received and approved by EPA, the Director will provide written authorization to inject.

Note: All depths given in this authorization reference the Kelly Bushing datum unless otherwise specified.

Approved Injection Interval: The injection interval is the part of the injection zone where fluids are directly emplaced. The approved injection interval for this well is from the top of the Garden Gulch Sand #2 to the top of the Wasatch Formation. Additional injection perforations may be added provided that they remain within the approved injection interval. Injection between the outermost casing protecting USDWs and the well bore is prohibited.

Maximum Allowable Injection Pressure (MAIP): The initial MAIP is 1,390 psig, based on the calculation $MAIP = [FG - (0.433)(SG)] * D$, where "FG" is the fracture gradient, "SG" is the specific gravity of injectate and "D" is the Kelly Bushing depth to the shallowest casing perforation. For this well, FG is 0.80 psi/ft, SG is 1.015 and D is 3,863 ft.

UIC Area Permit No. UT20853-00000 provides the opportunity for the permittee to request a change of the MAIP based upon the submitted results of a step rate test that demonstrates the formation parting pressure.

Well Construction: Casing and Cementing: The well was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c). Cementing records, including the cement bond log, have satisfactorily demonstrated the presence of adequate cement to prevent the migration of injection fluids behind the casing from the injection zone.

Well Construction: Tubing and Packer: 2-7/8" or similar size injection tubing is approved. The packer shall be set at a depth no more than 100 ft. above the top perforation.

Demonstration of Mechanical Integrity:

- (1) A successful demonstration of part I (internal) mechanical integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than every five years after the last successful test.
- (2) EPA reviewed the cementing records and determined the cement will provide an effective barrier to significant upward movement of fluids through vertical channels adjacent to the well bore pursuant to 40 CFR §146.8 (a)(2). Therefore, further demonstration of Part II (external) Mechanical Integrity is not required at this time.

Demonstration of Financial Responsibility: The applicant has demonstrated financial responsibility by a Surety Bond in the amount of \$42,000 and a Standby Trust Agreement that have been approved by EPA. The Director may revise the amount required and may require the permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment plan.

Plugging and Abandonment: The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between Underground Sources of Drinking Water (USDW). Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft. surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

- (1) Isolate the injection zone: Remove down hole apparatus from the well and perform necessary clean out; displace well fluid with plugging gel. Set a cast iron bridge plug (CIBP) within the innermost casing string no more than 50 ft. above the top perforation with a minimum of 20 ft. cement plug on top of the CIBP.
- (2) Isolate the Trona-Bird's Nest water zone and Mahogany Oil Shale: Perforate and squeeze cement up the backside of the outermost casing string across the Mahogany Oil Shale and Trona-Bird's Nest water zone, from at least 55 ft. above the top of the Trona-Bird's Nest to at least 55 ft. below the base of Mahogany Oil Shale, unless there is existing cement across this interval.
- (3) Isolate the Uinta Formation from the Green River Formation: Perforate and squeeze a minimum of 110 ft. cement up the backside of the outermost casing string to isolate the contact between the Uinta Formation and the Green River Formation, unless there is existing cement across this interval. Set a minimum 110 ft. cement plug in the innermost

casing string, centered on the contact between the Green River Formation and Uinta Formation.

(4) Isolate Surface Fluid Migration Paths:

- a. If the depth of the lowermost USDW is above the base of surface casing, perforate the outermost casing string 50 ft. below the base of surface casing and circulate cement to the surface, unless there is existing cement across this interval; OR
- b. If the depth of the lowermost USDW is below the base of surface casing, perforate the outermost casing string 50 ft. below the base of the lowermost USDW and circulate cement to surface; AND
- c. Set a cement plug inside the innermost casing string from 50 ft. below the base of the surface casing to surface.

INJECTION WELL-SPECIFIC CONSIDERATIONS

Well Name: **Lone Tree Federal 16-16-9-17**
EPA Well ID Number: **UT20853-09601**

Underground Sources of Drinking Water (USDWs): USDWs in the Lone Tree Area Permit generally occur within the Uinta Formation. According to "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the base of moderately saline ground water may be found at approximately 250 ft. below ground surface in the Lone Tree Federal 16-16-9-17 well. Water samples from the Green River Formation taken in conjunction with oil production show that USDWs do occur at deeper depths within the Humpback unit and as deep as 6,026 ft. in the Balcron Monument Federal 33-25-8-17 well. Freshening of the injection zone due to the injection of relatively fresh water for the purpose of enhanced oil recovery has been demonstrated to be occurring in parts of the Monument Butte Field, including this permit area.

http:NRWRT1.NR.STATE.UT.US: According to the state of Utah, any water wells present within the permit area are shallow and do not intersect the injection zone.

Composition of Source, Formation, and Injectate Water: A water sample analysis was not required as part of the application to add this well to the area permit because EPA considers the water quality of the injection zone to be well documented. Area UIC Permit UT20853-00000 and Statement of Basis describe originally in place formation fluid within the injection zone to be greater than 10,000 mg/l Total Dissolved Solids (TDS) content. However, due to injection of relatively fresh water for the purpose of enhanced oil recovery within the permit area, produced water samples showing TDS values less than 10,000 mg/l have occurred and this occurrence has been observed to increase in frequency with time. Newfield has demonstrated and EPA has

*Authorization for Additional Well: UIC Area Permit UT20853-00000
Well: Lone Tree Federal 16-16-9-17 EPA Well ID: UT20853-09601*

confirmed that freshening of the injection zone is occurring and that more recent water samples showing TDS values less than 10,000 mg/l are not likely representative of the original formation fluid at or near this well. EPA considers the presence of waters less than 10,000 mg/l within the injection zone to be a temporary, artificial condition and therefore does not require an aquifer exemption to allow injection to occur.

The injectate is water from a Monument Butte Field Injection Facility and consists of culinary water from the Johnson Water District and/or water from the Green River, blended with produced Green River Formation water and resulting in TDS content less than 10,000 mg/l.

Confining Zone: A *Confining Zone* is a geological formation, group of formations, or part of a formation that is capable of limiting fluid movement above an injection zone. The designated Confining Zone for this well consists of three interbedded, thick impervious shales, confining marlstones and siltstones. The Confining Zone extends from approximately 200 feet above the Garden Gulch Marker to the top of the Garden Gulch Number 2 Sand within the Garden Gulch Member of the Green River Formation. This interval is found between the depths of 3,970 feet to 4,466 feet in the Federal 1-26-8-17 Type Gamma Log for the Monument Butte Field.

Injection Zone: An *injection zone* is a geological formation, group of formations, or part of a formation that receives fluids through a well. The Injection Zone for this well consists of the lower part of the Garden Gulch member starting at the top of the Garden Gulch #2 Sand and includes the Douglas Creek and Basal Carbonate members of the Green River Formation to the top of the Wasatch Formation.

Well Construction: This well was constructed according to BLM requirements and controls for production wells at the time of well completion. EPA has reviewed and approved the construction and determined that it is adequate to protect USDWs.

Surface Casing: 8-5/8" casing is set at 302 ft. in a 12-1/4" hole, using 145 sacks Class "G" cement, cemented to the surface.

Longstring Casing: 5-1/2" casing is set at 5,677 ft. in a 7-7/8" hole secured with 750 sacks of cement. Total driller depth is 5,685 ft. Plugged back total depth is 5,642 ft. EPA calculates top of cement at 595 ft. Estimated CBL top of cement is 500 ft.

Perforations: Top perforation: 3,863 ft. Bottom perforation: 5,504 ft.

AREA OF REVIEW (AOR) WELL REQUIREMENTS

The following six wells that penetrate the confining zone within or proximate to a ¼-mile radius around the Lone Tree Federal 16-16-9-17 well were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs:

K. Jorgenson State 16-4-9-17 UIC Permit UT20853-04498.	API: 43-013-30572	NESE Sec. 16-T9S-R17E
Lone Tree Federal P-15-9-17	API: 43-013-34145	SHL: SWSW Sec. 15-T9S-R17E BHL: NWSW Sec. 15-T9S-R17E
Pleasant Valley Federal 14-15H-9-17 UIC Permit UT20853-04510 RTS: 11/10/10	API: 43-013-31695	SWSW Sec. 15-T9S-R17E
Lone Tree A-21-9-17	API: 43-013-34160	SHL: NWNW Sec. 22-T9S-R17E BHL: NENENE Sec. 21-T9S-R17E
Lone Tree 15-16-9-17 UIC Permit UT20853-06859 RTS: 6/09/2010	API: 43-013-32089	SWSE Sec. 16-T9S-R17E
Greater Monument Butte S-16-9-17	API: n43-013-50793	SHL: NESE Sec. 16-T9S-R17E BHL: SWSE Sec. 16-T9S-R17E

No Corrective Action Required on AOR wells: EPA reviewed all wells penetrating the Confining Zone within a ¼-mile radius of the proposed injection well and determined that cement in these wells is adequate to prevent the movement of fluid into USDWs. Top of cement is above the base of the Confining Zone in all AOR wells.

Reporting of Noncompliance:

- 1) Anticipated Noncompliance. The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- 2) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- 3) (Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause, the period of noncompliance including dates and times, if

*Authorization for Additional Well: UIC Area Permit UT20853-00000
Well: Lone Tree Federal 16-16-9-17 EPA Well ID: UT20853-09601*

the noncompliance has not been corrected the anticipated time it is expected to continue, and steps taken or planned to prevent or reduce recurrence of the noncompliance.

Twenty-Four Hour Noncompliance Reporting: The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1-(800)-227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at (303)-293-1788, if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- 1) Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water.
- 2) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

Oil Spill and Chemical Release Reporting: The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC) 1-(800)-424-8802 or 1-(202)-267-2675**, or through the NRC website at <http://www.nrc.uscg.mil/index.htm>

Other Noncompliance: The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

Other Information: Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two weeks of the time such information became known.

Lone Tree #16-16-9-17

Spud Date: 2/13/01
 Put on Production: 4/20/04
 GL: 5299' KB: 5311'

Initial Production: 73 BOPD,
 128 MCFD, 32 BWPD

Proposed Injection Wellbore Diagram

SURFACE CASING

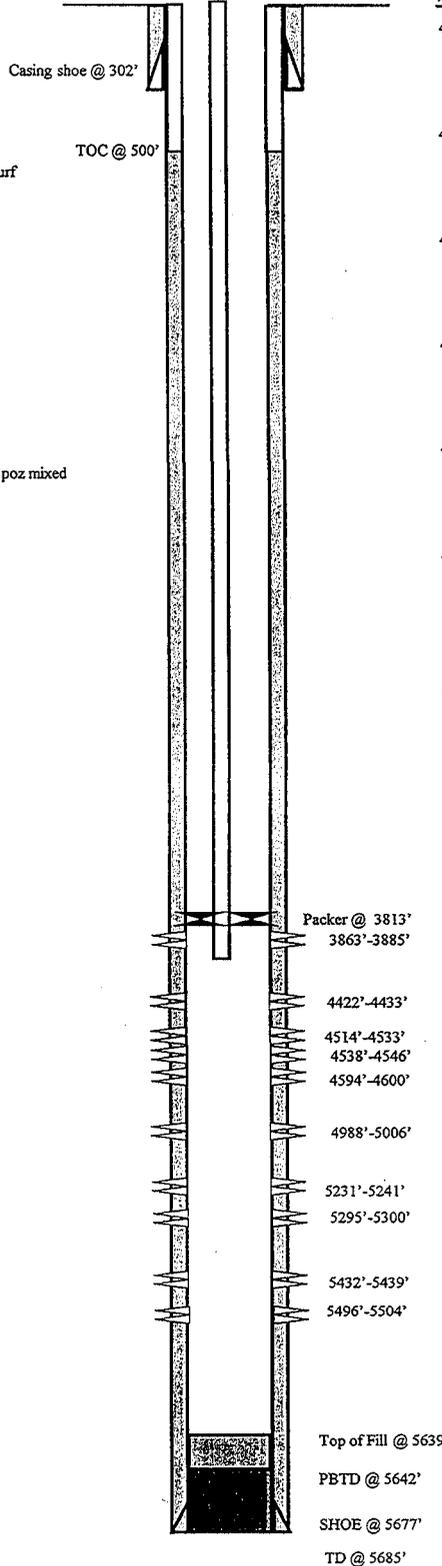
CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 DEPTH LANDED: 302.21'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 145 sxs Class G mixed, est 7 bbls cmt to surf

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 5678.4'
 DEPTH LANDED: 5676.9'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 350 sxs Premlite II mixed & 400 sxs 50/50 poz mixed
 CEMENT TOP AT: 500'

TUBING

SIZE/GRADE/WT: 2 7/8" / J-55 / 6.50#
 NO. OF JOINTS: 174 jts. (5403.1')
 TUBING ANCHOR: 5403.1'
 NO. OF JOINTS: 1 jt. (31.11')
 SEATING NIPPLE: 2 7/8" (1.10')
 SN LANDED AT: 5438.1'
 NO. OF JOINTS: 2 jts. (61.83')
 TOTAL STRING LENGTH: EOT @ 5500'



FRAC JOB

4/13/04	5432'-5504'	Frac CP4,5 sands as follows: 29,401# 20/40 sand in 322 bbls lightning Frac 17 fluid. Treated @ avg press of 1782 psi w/avg rate of 24.7 BPM. ISIP 1950 psi. Calc flush: 5430 gal. Actual flush: 5418 gal.
4/13/04	5231'-5300'	Frac CP1,2 sands as follows: 35,880# 20/40 sand in 350 bbls lightning Frac 17 fluid. Treated @ avg press of 1870 psi w/avg rate of 24.7 BPM. ISIP 1980 psi. Calc flush: 5229 gal. Actual flush: 5208 gal.
4/14/04	4988'-5006'	Frac LODC sands as follows: 48,919# 20/40 sand in 418 bbls lightning Frac 17 fluid. Treated @ avg press of 2235 psi w/avg rate of 24.5 BPM. ISIP 2380 psi. Calc flush: 4986 gal. Actual flush: 4956 gal.
4/14/04	4514'-4600'	Frac B.5, C sands as follows: 139,336# 20/40 sand in 927 bbls lightning Frac17 fluid. Treated @ avg press of 1981 psi w/avg rate of 24.7 BPM. ISIP 2100 psi. Calc flush: 4512 gal. Actual flush: 4494 gal.
4/14/04	4422'-4433'	Frac D2 sands as follows: 73,805# 20/40 sand in 551 bbls lightning Frac17 fluid. Treated @ avg press of 1816 psi w/avg rate of 24.7 BPM. ISIP 1930 psi. Calc flush: 4420 gal. Actual flush: 4410 gal.
4/14/04	3863'-3885'	Frac GB4 sands as follows: 56,854# 20/40 sand in 438 bbls lightning Frac17 fluid. Treated @ avg press of 1883 psi w/avg rate of 24.8 BPM. ISIP 2050 psi. Calc flush: 3861 gal. Actual flush: 3780 gal.
6/14/11		Pump Change. Updated rod & tubing detail.

PERFORATION RECORD

4/08/04	5496'-5504'	4 JSPF	32 holes
4/08/04	5432'-5439'	4 JSPF	28 holes
4/13/04	5295'-5300'	4 JSPF	20 holes
4/13/04	5231'-5241'	4 JSPF	40 holes
4/13/04	4988'-5006'	4 JSPF	72 holes
4/14/04	4594'-4600'	4 JSPF	24 holes
4/14/04	4538'-4546'	4 JSPF	32 holes
4/14/04	4514'-4533'	4 JSPF	76 holes
4/14/04	4422'-4433'	4 JSPF	44 holes
4/14/04	3863'-3885'	4 JSPF	88 holes

NEWFIELD



LONE TREE 16-16-9-17
 660' FSL & 660' FEL
 SE/SE Section 16, T9S R17E
 DUCHESNE CO, UTAH
 API #43-013-32150; LEASE #ML-3453B

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-3453B	
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 (GRRV)	
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: LONE TREE 16-16-9-17	
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		9. API NUMBER: 43013321500000	
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0660 FSL 0660 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 16 Township: 09.0S Range: 17.0E 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 checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/1/2012 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input checked="" type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
<p>Newfield Production proposes to install 593' of 3" buried waterline to the 16-16-9-17 for the purpose of water injection. Disturbance would follow existing roadways and be limited to 15 feet in width, depending on terrain.</p>			
<p>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 21, 2012</p>			
NAME (PLEASE PRINT) Tim Eaton	PHONE NUMBER 465 646-4858	TITLE Regulatory Tech	
SIGNATURE N/A		DATE 6/14/2012	

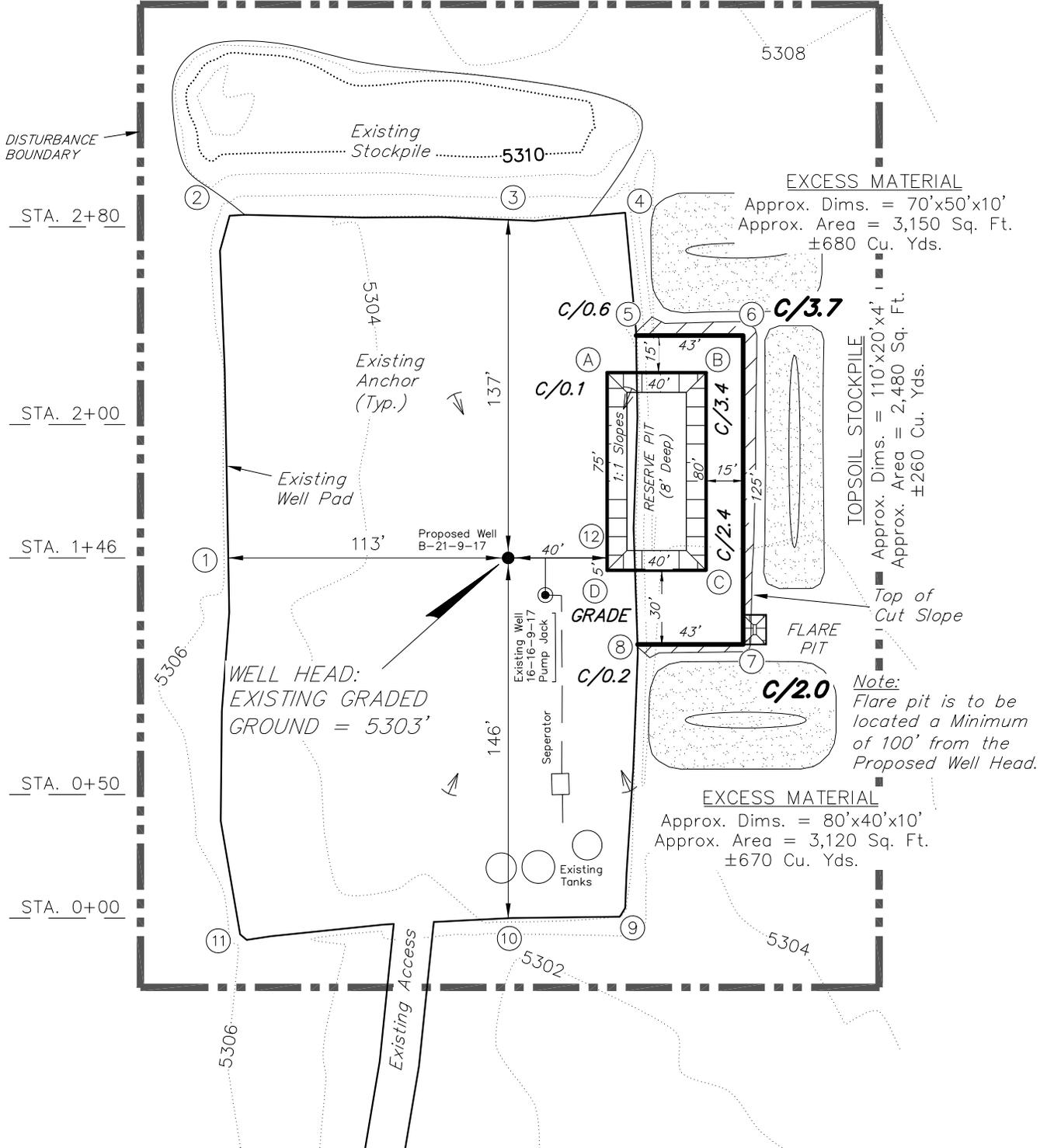
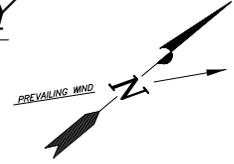
NEWFIELD EXPLORATION COMPANY

LOCATION LAYOUT

16-16-9-17 (Existing Well)

B-21-9-17 (Proposed Well)

Pad Location: SESE Section 16, T9S, R17E, S.L.B.&M.



NOTE:
The topsoil & excess material areas are calculated as being mounds containing 1,610 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

Note:
Topsoil to be Stripped From All New Construction Areas and Proposed Stock Pile Locations

SURVEYED BY: S.V.	DATE SURVEYED: 02-28-11	VERSION:
DRAWN BY: M.W.	DATE DRAWN: 03-11-12	V1
SCALE: 1" = 60'	REVISED:	

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

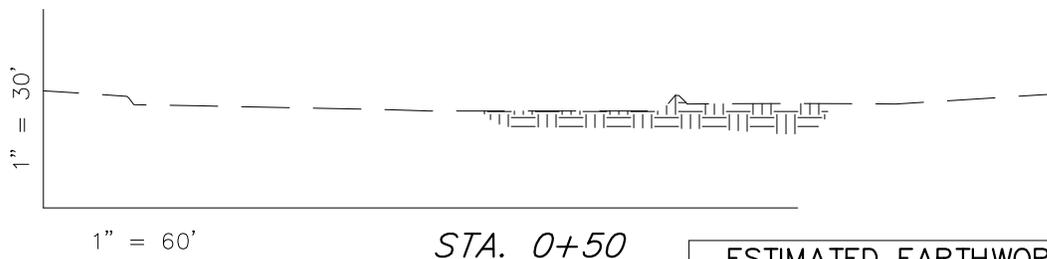
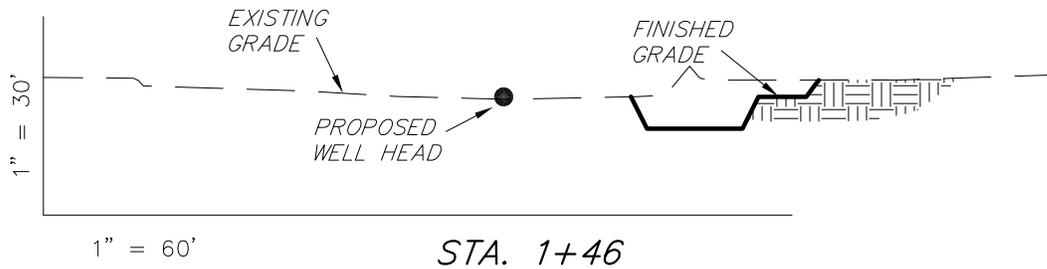
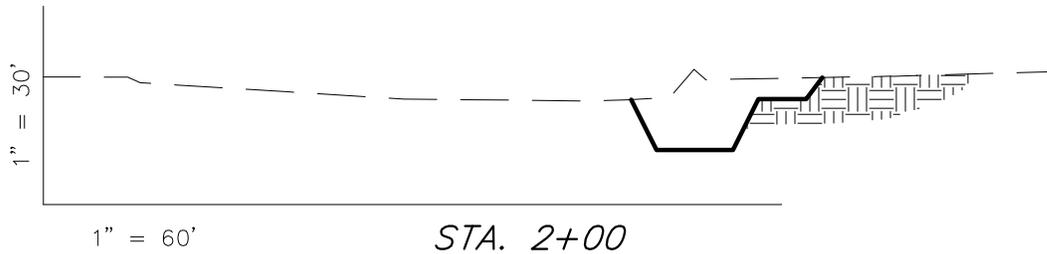
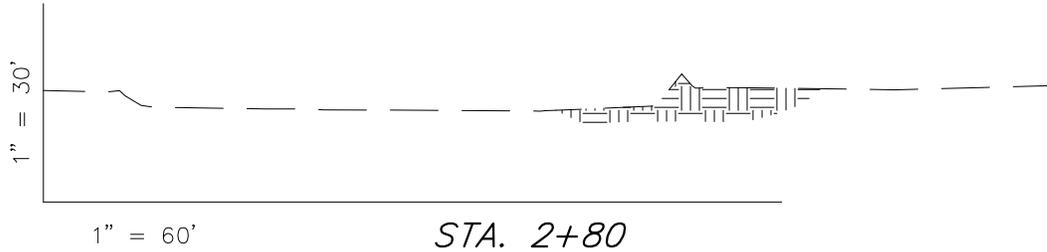
NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS

16-16-9-17 (Existing Well)

B-21-9-17 (Proposed Well)

Pad Location: SESE Section 16, T9S, R17E, S.L.B.&M.



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

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	540	0	Topsoil is not included in Pad Cut	540
PIT	690	0		690
TOTALS	1,230	0	230	1,230

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

SURVEYED BY: S.V.	DATE SURVEYED: 02-28-11	VERSION:
DRAWN BY: M.W.	DATE DRAWN: 03-11-12	V1
SCALE: 1" = 60'	REVISED:	

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

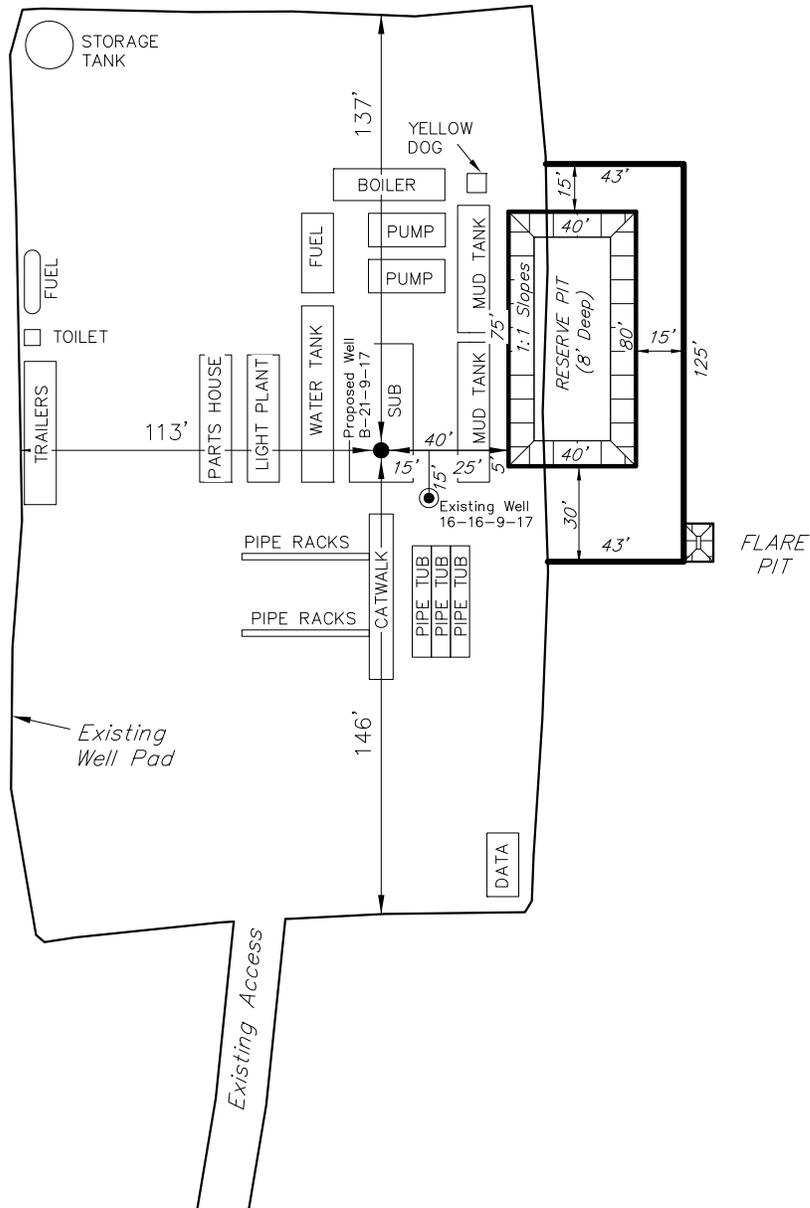
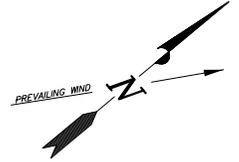
NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT

16-16-9-17 (Existing Well)

B-21-9-17 (Proposed Well)

Pad Location: SESE Section 16, T9S, R17E, S.L.B.&M.

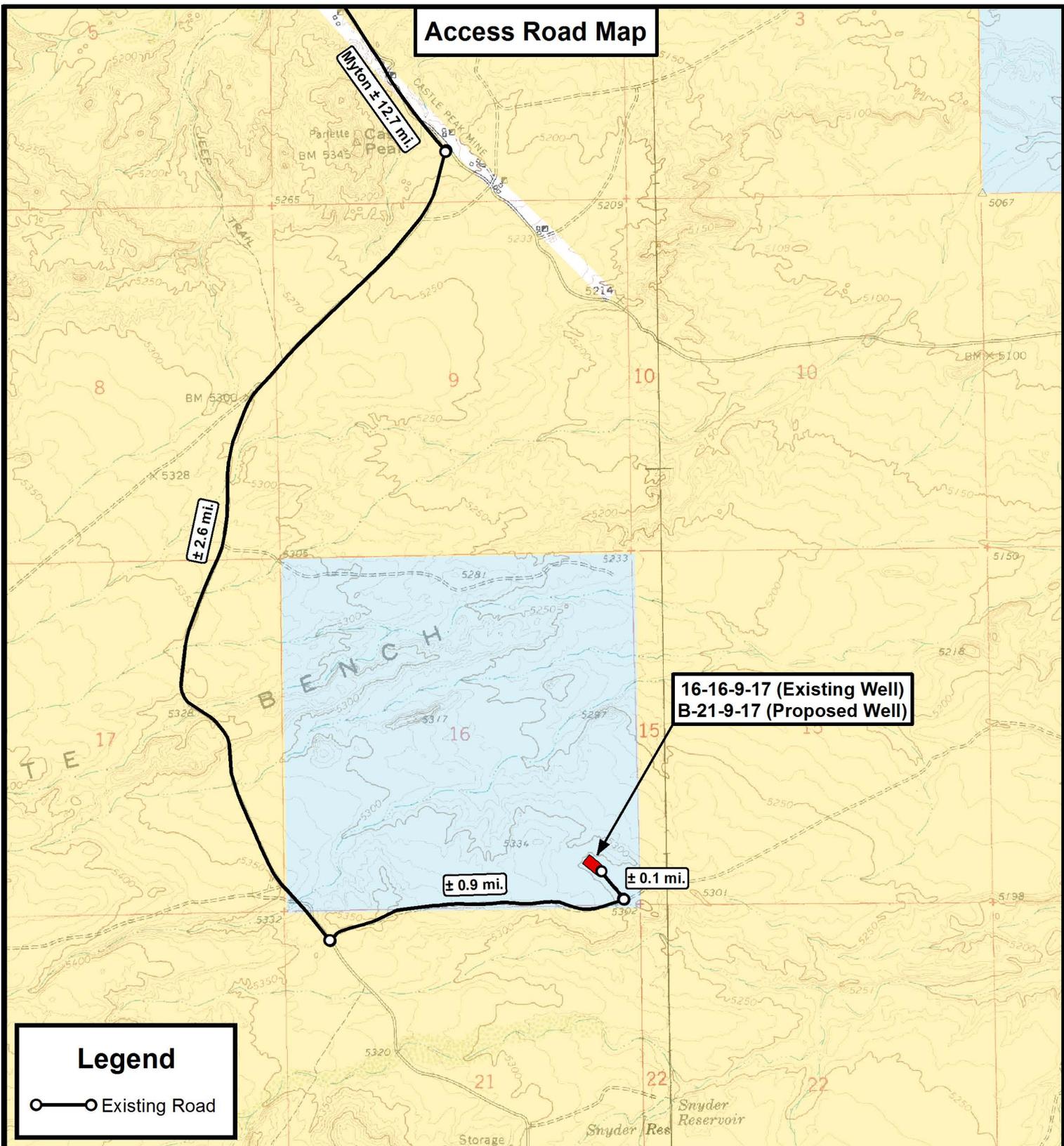


Note:
Flare pit is to be located a Minimum of 100' from the Proposed Well Head.

SURVEYED BY: S.V.	DATE SURVEYED: 02-28-11	VERSION:
DRAWN BY: M.W.	DATE DRAWN: 03-11-12	V1
SCALE: 1" = 60'	REVISED:	

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

Access Road Map



Legend

○ — ○ Existing Road

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



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

P: (435) 781-2501
F: (435) 781-2518



NEWFIELD EXPLORATION COMPANY

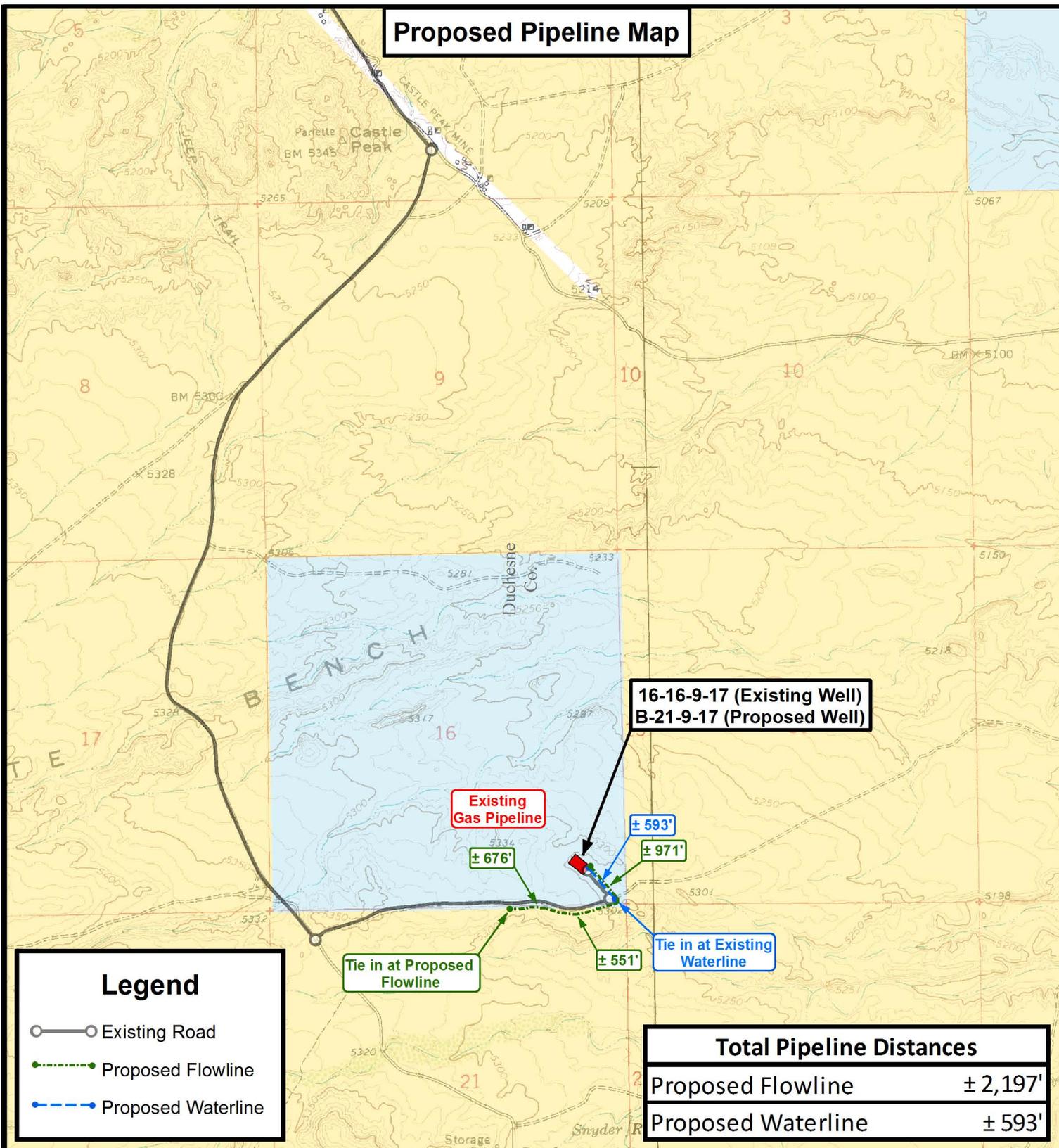
16-16-9-17 (Existing Well)
B-21-9-17 (Proposed Well)
SEC. 16, T9S, R17E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	03-12-2012		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
B

Proposed Pipeline Map



Legend

- Existing Road
- Proposed Flowline
- Proposed Waterline

Total Pipeline Distances	
Proposed Flowline	± 2,197'
Proposed Waterline	± 593'

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



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NEWFIELD EXPLORATION COMPANY

16-16-9-17 (Existing Well)
B-21-9-17 (Proposed Well)
SEC. 16, T9S, R17E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	03-12-2012		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
C

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-3453B	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)	
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: LONE TREE 16-16-9-17		
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013321500000		
3. ADDRESS OF OPERATOR: 1001 17th Street, Suite 2000 , Denver, CO, 80202	PHONE NUMBER: 303 382-4443 Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0660 FSL 0660 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 16 Township: 09.0S Range: 17.0E 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 checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/1/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input checked="" type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
<p>Newfield Production proposes to convert the above mentioned well from a producing oil well to an injection well. See attached proposed wellbore diagram.</p>			
<p>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 24, 2012</p>			
NAME (PLEASE PRINT) Jill L Loyle	PHONE NUMBER 303 383-4135	TITLE Regulatory Technician	
SIGNATURE N/A	DATE 12/19/2012		

Lone Tree #16-16-9-17

Spud Date: 2/13/01
 Put on Production: 4/20/04
 GL: 5299' KB: 5311'

Initial Production: 73 BOPD,
 128 MCFD, 32 BWPD

Proposed Injection Wellbore Diagram

SURFACE CASING

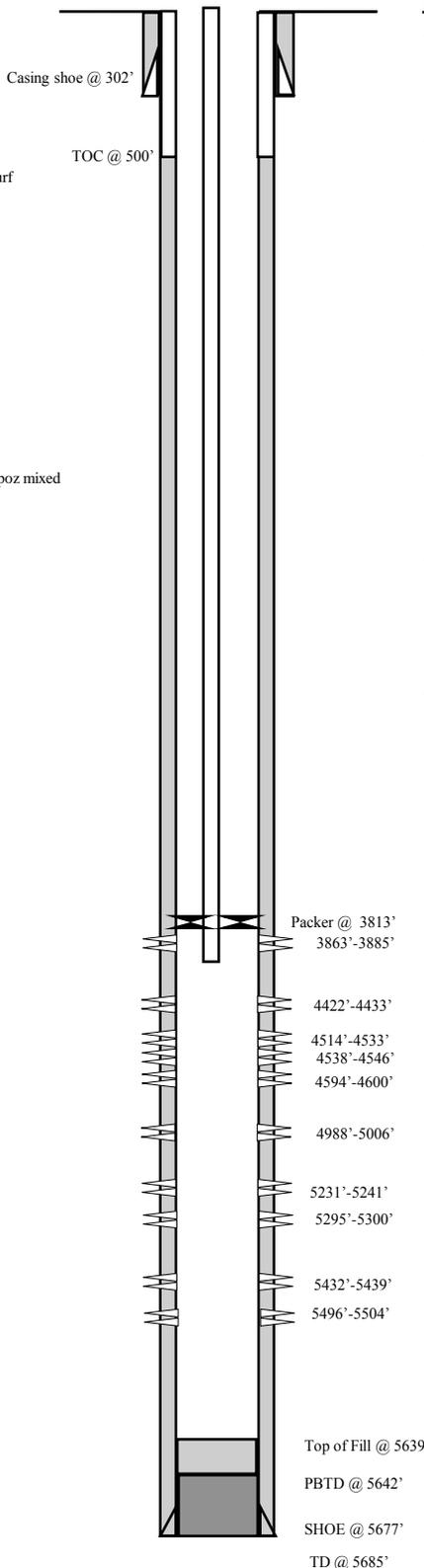
CSG SIZE: 8-5/8'
 GRADE: J-55
 WEIGHT: 24#
 DEPTH LANDED: 302.21'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 145 sxs Class G mixed, est 7 bbls cmt to surf

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 5678.4'
 DEPTH LANDED: 5676.9'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 350 sxs Premlite II mixed & 400 sxs 50/50 poz mixed
 CEMENT TOP AT: 500'

TUBING

SIZE/GRADE/WT: 2 7/8" / J-55 / 6.50#
 NO. OF JOINTS: 174 jts. (5403.1')
 TUBING ANCHOR: 5403.1'
 NO. OF JOINTS: 1 jt. (31.11')
 SEATING NIPPLE: 2 7/8" (1.10')
 SN LANDED AT: 5438.1'
 NO. OF JOINTS: 2 jts. (61.83')
 TOTAL STRING LENGTH: EOT @ 5500'



FRAC JOB

4/13/04	5432'-5504'	Frac CP4,5 sands as follows: 29,401# 20/40 sand in 322 bbls lightning Frac 17 fluid. Treated @ avg press of 1782 psi w/avg rate of 24.7 BPM. ISIP 1950 psi. Calc flush: 5430 gal. Actual flush: 5418 gal.
4/13/04	5231'-5300'	Frac CP1,2 sands as follows: 35,880# 20/40 sand in 350 bbls lightning Frac 17 fluid. Treated @ avg press of 1870 psi w/avg rate of 24.7 BPM. ISIP 1980 psi. Calc flush: 5229 gal. Actual flush: 5208 gal.
4/14/04	4988'-5006'	Frac LODC sands as follows: 48,919# 20/40 sand in 418 bbls lightning Frac 17 fluid. Treated @ avg press of 2235 psi w/avg rate of 24.5 BPM. ISIP 2380 psi. Calc flush: 4986 gal. Actual flush: 4956 gal.
4/14/04	4514'-4600'	Frac B.5, C sands as follows: 139,336# 20/40 sand in 927 bbls lightning Frac17 fluid. Treated @ avg press of 1981 psi w/avg rate of 24.7 BPM. ISIP 2100 psi. Calc flush: 4512 gal. Actual flush: 4494 gal.
4/14/04	4422'-4433'	Frac D2 sands as follows: 73,805# 20/40 sand in 551 bbls lightning Frac17 fluid. Treated @ avg press of 1816 psi w/avg rate of 24.7 BPM. ISIP 1930 psi. Calc flush: 4420 gal. Actual flush: 4410 gal.
4/14/04	3863'-3885'	Frac GB4 sands as follows: 56,854# 20/40 sand in 438 bbls lightning Frac17 fluid. Treated @ avg press of 1883 psi w/avg rate of 24.8 BPM. ISIP 2050 psi. Calc flush: 3861 gal. Actual flush: 3780 gal.
6/14/11		Pump Change. Updated rod & tubing detail.

PERFORATION RECORD

4/08/04	5496'-5504'	4 JSPF	32 holes
4/08/04	5432'-5439'	4 JSPF	28 holes
4/13/04	5295'-5300'	4 JSPF	20 holes
4/13/04	5231'-5241'	4 JSPF	40 holes
4/13/04	4988'-5006'	4 JSPF	72holes
4/14/04	4594'-4600'	4 JSPF	24 holes
4/14/04	4538'-4546'	4 JSPF	32 holes
4/14/04	4514'-4533'	4 JSPF	76 holes
4/14/04	4422'-4433'	4 JSPF	44 holes
4/14/04	3863'-3885'	4 JSPF	88 holes

NEWFIELD

LONE TREE 16-16-9-17

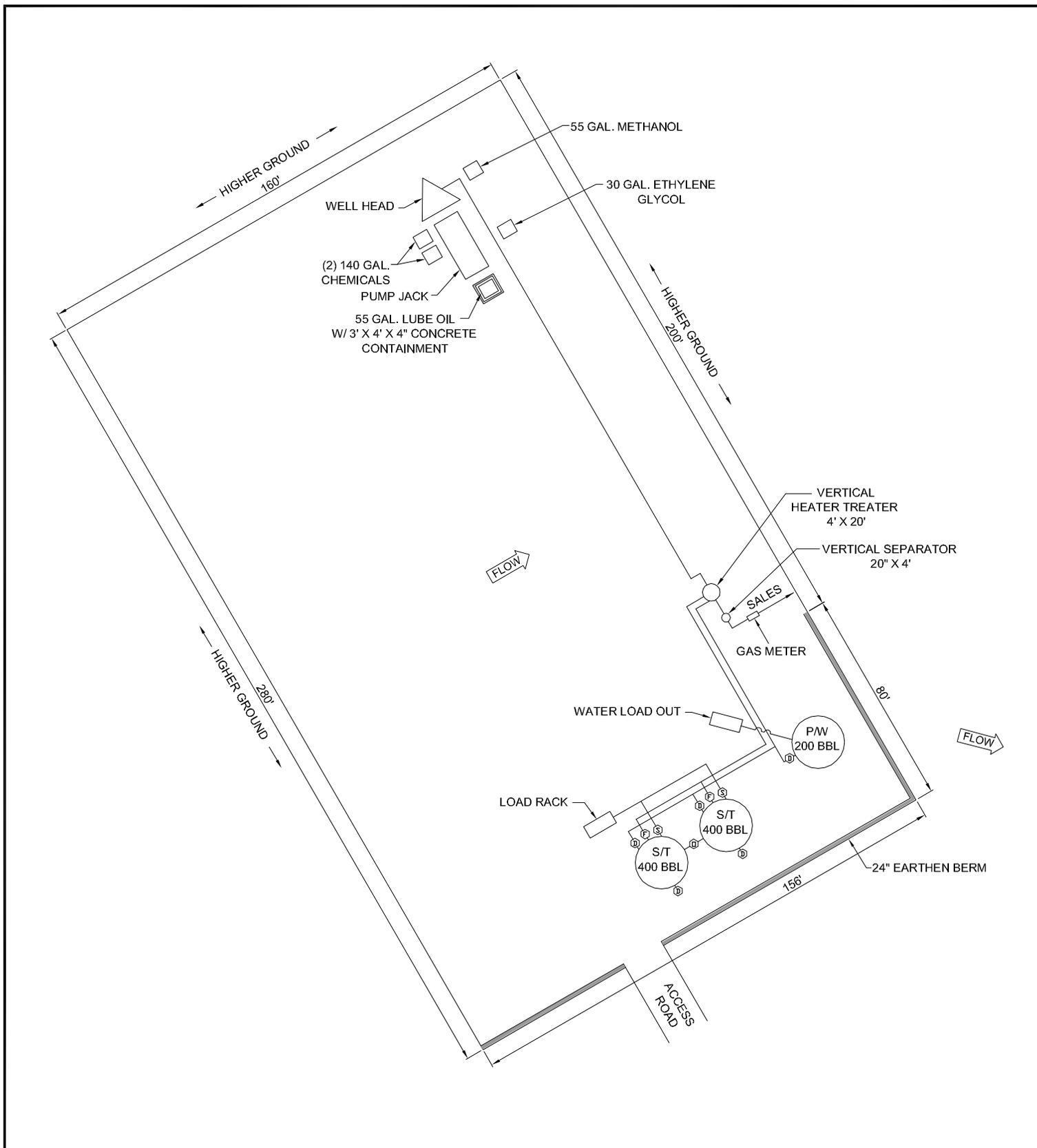
660' FSL & 660' FEL

SE/SE Section 16, T9S R17E

DUCHESNE CO, UTAH

API #43-013-32150; LEASE #ML-3453B

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-3453B	
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		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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/26/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Site Facility/Site Security"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. SEE ATTACHED REVISED SITE FACILITY DIAGRAM			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 28, 2014			
NAME (PLEASE PRINT) Jill L Loyle	PHONE NUMBER 303 383-4135	TITLE Regulatory Technician	
SIGNATURE N/A		DATE 1/28/2014	



POSITION OF VALVES AND USE OF SEALS DURING PRODUCTION <table border="1"> <thead> <tr> <th>Valve</th> <th>Line Purpose</th> <th>Position</th> <th>Seal Installed</th> </tr> </thead> <tbody> <tr><td>D</td><td>Drain</td><td>Closed</td><td>Yes</td></tr> <tr><td>F</td><td>Oil, Gas, Water</td><td>Open</td><td>No</td></tr> <tr><td>O</td><td>Overflow</td><td>Open/Closed</td><td>No</td></tr> <tr><td>V</td><td>Vent</td><td>Open</td><td>No</td></tr> <tr><td>R</td><td>Recycle</td><td>Closed</td><td>Yes</td></tr> <tr><td>B</td><td>Blowdown</td><td>Open/Closed</td><td>No</td></tr> <tr><td>S</td><td>Sales</td><td>Closed</td><td>Yes</td></tr> </tbody> </table>				Valve	Line Purpose	Position	Seal Installed	D	Drain	Closed	Yes	F	Oil, Gas, Water	Open	No	O	Overflow	Open/Closed	No	V	Vent	Open	No	R	Recycle	Closed	Yes	B	Blowdown	Open/Closed	No	S	Sales	Closed	Yes	Valve Type D - Drain Valve F - Flow Valve O - Overflow V - Vent R - Recycle B - Blow Down S - Sales Valve				Federal Lease #: ML-3453B This lease is subject to the Site Security Plan for: Newfield Exploration Company 19 East Pine Street Pinedale, WY 82941								LONE TREE 16-16-9-17 Newfield Exploration Company SESE Sec 16, T9S, R17E Duchesne County, UT																																			
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								RECEIVED: Jan. 28, 2014																																																																											



March 7, 2014

Mr. Jason Deardorff
US EPA Region 8
8P-W- UIC
1595 Wynkoop Street
Denver CO 80202

RE: Injection Conversion
Well: Lone Tree 16-16-9-17
EPA #: UT22197-10184
API #: 43-013-32150

Dear Mr. Deardorff:

The subject well was converted from a producing oil well to a water injection well. Attached are the EPA Form 7520-12, an updated wellbore diagram, MIT Pressure Test, a copy of the chart, and Daily Activity report.

The shallowest perforation for this well is **3863'**. The Fracture Gradient for this well is **0.805**. The MAIP for this well has been calculated to be **1410** – MAIP = [FG – (0.433) (SG)] * Depth.

The GG2 @ (3686') in the 16-16-9-17 well has a calculated pore pressure of **1658.7** psia. This is calculated using a pore pressure gradient of 0.45 psi/ft. (0.45 psi/ft x 3686' = 1658.7 psi). Since the GG2 is a normally pressured, non-depleted zone, this is a valid estimate of pore pressure. RDT pressure data collected in Greater Monument Butte also supports this calculation.

You may contact me at 435-646-4874 or lchavez-naupoto@newfield.com if you require further information.

Sincerely,

A handwritten signature in black ink, appearing to read "Lucy Chavez-Naupoto".

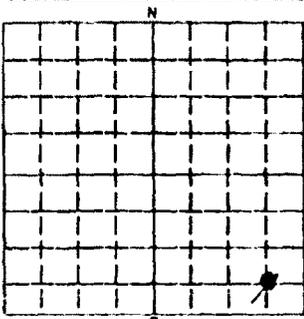
Lucy Chavez-Naupoto
Water Services Technician

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460



WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE Newfield Production Company 410 17th Street, Suite 700 Denver, Colorado 80202-4402	NAME AND ADDRESS OF CONTRACTOR Same as Permittee
---	---

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT -- 640 ACRES 	STATE Utah	COUNTY Duchesne	PERMIT NUMBER UT22197-10184
	SURFACE LOCATION DESCRIPTION 1/4 OF SE 1/4 OF SE SECTION 16 TOWNSHIP 9S RANGE 17E		
	LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface Location _____ ft. from (N/S) _____ S Line of quarter section and _____ ft. from (E/W) _____ E Line of quarter section		
	WELL ACTIVITY <input type="checkbox"/> Brine Disposal <input checked="" type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage Lease Name Lone Tree	Total Depth Before Rework (ft) 5685 Total Depth After Rework (ft) 5685 Date Rework Commenced 2/19/2014 Date Rework Completed 2/27/2014	TYPE OF PERMIT <input checked="" type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells _____ 1 Well Number 16-16-9-17

WELL CASING RECORD -- BEFORE REWORK

Casing		Cement		Perforations (ft)		Acid or Fracture Treatment Record
Size	Depth (ft)	Sacks	Type	From	To	
8 5/8"	302	145	Class "G"	5432	5504	Perf and frac
5 1/2"	5677	350	Prem Lt II	4988	5300	Perf and frac
		400	50/50 Poz.	4514	4600	Perf and frac
				4422	4433	Perf and frac
				3863	3885	Perf and frac

WELL CASING RECORD -- AFTER REWORK (Indicate Additions and Changes Only)

Casing		Cement		Perforations (ft)		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL
USE ADDITIONAL SHEETS IF NECESSARY

WIRE LINE LOGS, LIST EACH TYPE

Log Types				Logged Intervals			
See attached "Daily Workover Report"							

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print) Lucy Chavez-Naupoto Water Services Technician	SIGNATURE 	DATE SIGNED March 7, 2014
--	--	------------------------------

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: 2 / 27 / 2014

Test conducted by: J Phillips

Others present: _____

Well Name: <u>Lone Tree</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Greater Monument Butte</u>		
Location: <u>16</u> Sec: <u>16</u> T <u>9</u> N/S <u>R 17</u> E/W County: <u>Duchessne</u> State: <u>UT</u>		
Operator: <u>Newfield</u>		
Last MIT: <u>1 / 1</u>		Maximum Allowable Pressure: _____ PSIG

- Is this a regularly scheduled test? Yes No
- Initial test for permit? Yes No
- Test after well rework? Yes No
- Well injecting during test? Yes No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: 0 / 1410 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	PRESSURE		
Initial Pressure	<u>0</u> psig	psig	psig
End of test pressure	<u>0</u> psig	psig	psig
CASING / TUBING	ANNULUS PRESSURE		
0 minutes	<u>1413</u> psig	psig	psig
5 minutes	<u>1410</u> psig	psig	psig
10 minutes	<u>1407</u> psig	psig	psig
15 minutes	<u>1404</u> psig	psig	psig
20 minutes	<u>1400</u> psig	psig	psig
25 minutes	<u>1398</u> psig	psig	psig
30 minutes	<u>1395</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? Yes No

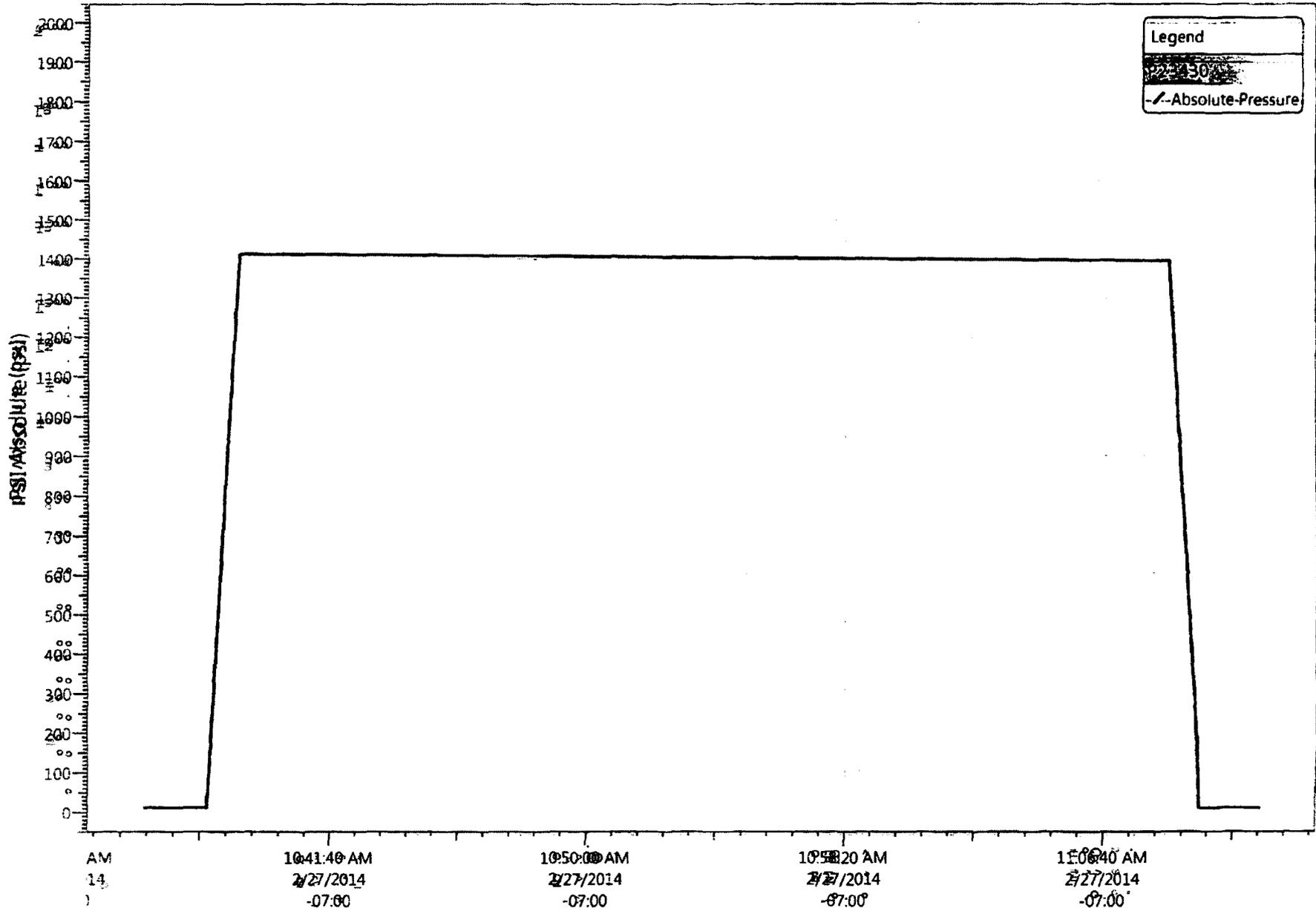
MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: _____

Long Tree 16-16-9-17(conversion)-2-27-14

2/27/2014 10:35:11 AM





Job Detail Summary Report

Well Name: Lonetree 16-16-9-17

Jobs		Job Start Date	Job End Date
Primary Job Type	Conversion	2/19/2014	

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
2/19/2014	2/19/2014	SPOT IN EQUIPMENT, LEVEL UP RIG, RIG UP, REMOVE HORSE HEAD, FLUSH CSG W/70 BBLs @ 250 DEGREES L/D RODS
Start Time	End Time	Comment
06:00	07:00	CREW TRAVEL TO LOC
Start Time	End Time	Comment
07:00	08:00	RIG DOWN PREP TO MOVE TO LOC LT 16-16-9-17 FROM LT 16-22-9-17
Start Time	End Time	Comment
08:00	10:00	SPOT IN EQUIPMENT, LEVEL UP RIG, RIG UP, REMOVE HORSE HEAD, FLUSH CSG W/70 BBLs @ 250 DEGREES
Start Time	End Time	Comment
10:00	11:00	L/D POLISH ROD, 2-3/4" 4PER, FLUSH TBG W/40 BBLs @ 250 DEGREES, P/U 3-3/4" 4PER SOFT SEAT, FILL TBG W/1 BBL & PRESSURE TEST T/3250 PSI (GOOD), L/D 1-3/4" 4PER F/RIG
Start Time	End Time	Comment
11:00	14:00	L/D 3/4" RODS ONTO TRAILER-76-3/4" 4PER (GOOD), 26-3/4" 4PER (BAD), 102-3/4" SLICKS, 10-3/4" 4PER, 6-1/2" SINKER BARS, 1-1" STABILIZER, 1- 2-1/2 x 1-1/4 x 12 x 20 PUMP
Start Time	End Time	Comment
14:00	15:00	N/D WH, UNSET ANCHOR, N/U BOP, R/U FLOOR & TONGS
Start Time	End Time	Comment
15:00	17:30	R/U SANDLINE FOR SANDLINE TAG, TAGGED @ 5550' SIW SDFD
Start Time	End Time	Comment
17:30	19:00	CREW TRAVEL HOME
Report Start Date	Report End Date	24hr Activity Summary
2/20/2014	2/20/2014	SAFETY STAND DOWN MTG. FLUSH TBG. RIG MAINTENANCE
Start Time	End Time	Comment
07:00	08:00	CREW TRAVEL TO NFX OFFICE
Start Time	End Time	Comment
08:00	12:00	SAFETY STAND DOWN MTG AND ROD HANDLING CLASS
Start Time	End Time	Comment
12:00	13:00	FLUSH TBG W/ 35 BBLs @ 250 DEGREES, BLEED DOWN CSG 50 PSI. OPEN PIPE RAMS. LEVEL RIG
Start Time	End Time	Comment
13:00	17:00	WORK ON RIG - RIG MAINTENANCE
Start Time	End Time	Comment
17:00	18:00	CREW TRAVEL HOME
Report Start Date	Report End Date	24hr Activity Summary
2/21/2014	2/21/2014	FLUSH TBG W/ 30 BBLs @ 250 DEGREES, WORK TIGHT ANCHOR. COLLAR POPPED OFF & LOST TBG STRING DOWN HOLE, T/5642. WAIT ON SLAUGH HAND TO FISH.
Start Time	End Time	Comment
06:30	07:30	CREW TRAVEL TO LOC
Start Time	End Time	Comment
07:30	11:30	FLUSH TBG W/ 30 BBLs @ 250 DEGREES, WORK TIGHT ANCHOR, COLLAR POPPED OFF & LOST TBG STRING DOWN HOLE, T/5642
Start Time	End Time	Comment
11:30	14:00	WAIT ON SLAUGH FISHING HAND & FISH TOOLS
Start Time	End Time	Comment
14:00	18:00	M/U (TALLY) OVERSHOT BUMPER SUB & JARS, TIH 6 STDS (12 JTS) P/U 3 JTS LATCH ONTO, JAR, TOOH 8 STDS (16 JTS) L/D JARS, BUMPER SUB, OVERSHOT & 1 JT ONTO TRAILER, WORK TIGHT ANCHOR, FLUSH 60 BBLs @ 250 DEGREES, WORK TIGHT ANCHOR SDFD SIW
Start Time	End Time	Comment
18:00	19:00	CREW TRAVEL HOME



Job Detail Summary Report

Well Name: Lonetree 16-16-9-17

Daily Operations

Report Start Date	Report End Date	24hr Activity Summary			
2/24/2014	2/24/2014	RIG UP RBS POWER SWIVEL AND WORK TIGHT HOLE			
Start Time	06:00	End Time	07:00	Comment	CREW TRAVEL TO LOC
Start Time	07:00	End Time	08:00	Comment	SLIP AND CUT SANDLINE. POOR NEW ROPE SOCKET
Start Time	08:00	End Time	11:30	Comment	RIG UP RBS POWER SWIVEL AND WORK TIGHT HOLE. F/ 5127? TO 5115? FLUSH WITH 65 BBLS @ 250 DEGREES
Start Time	11:30	End Time	15:00	Comment	WORK TIGHT HOLE 5115? TO 5095? FLUSH W/ 18 BBLS @ 250 DEGREES
Start Time	15:00	End Time	18:00	Comment	WORK TIGHT HOLE FROM 5095 TO 5095?. WORK UP AND DOWN. STRUGGLE BOTH WAYS
Start Time	18:00	End Time	19:00	Comment	CREW TRAVEL HOME
Report Start Date	Report End Date	24hr Activity Summary			
2/25/2014	2/25/2014	WORK TIGHT HOLE			
Start Time	06:00	End Time	07:00	Comment	CREW TRAVEL TO LOCATION
Start Time	07:00	End Time	10:00	Comment	HELD SAFETY MEETING (WORKING TIGHT HOLE W/ POWER SWIVEL) . WORK TIGHT HOLE F/ 5095 TO 5090'. LAY DOWN 3 JOINTS 2 7/8" TUBING RIG DOWN RBS POWER SWIVEL
Start Time	10:00	End Time	11:00	Comment	PULL TUBING TO DERRICK 24 JOINTS 2 7/8" FLUSH TUBING W 15 BBLS @ 250 DEGREES TALLEY TUBING IN DERRICK (40 JOINTS TOTAL)
Start Time	11:00	End Time	12:00	Comment	PULL TUBING TO DERRICK 8 joints 2 7/8" AND 1 JOINT. WORK TIGHT SPOT @ 4010' AND PARTED PIN FROM COLLAR AND LOST TUBING DOWN HOLE
Start Time	12:00	End Time	14:00	Comment	WAIT ON SLAUGH FISHING HAND
Start Time	14:00	End Time	15:30	Comment	MAKE UP OVER SHOT, BUMPER SUB, JARS, AND RUN IN THE HOLE W/ TUBING 2 7/8" FROM DERRICK 48 JOINTS. PICK UP 3 JOINTS 2 7/8" TAG 18' IN ON JOINT 3. LAY DOWN 1 JOINT ONTO TRAILER. PULL TUBING TO DERRICK 12 JOINTS. WORK TIGHT HOLE
Start Time	15:30	End Time	17:30	Comment	WORK ON RIG REPLACE 4 RELAYS. FIX WRAPS ON DRILL LINE DRUM. SIW SOFD
Start Time	17:30	End Time	18:30	Comment	CREW TRAVEL HOME
Report Start Date	Report End Date	24hr Activity Summary			
2/26/2014	2/26/2014	PU TBG, MAKE UP COLLARS FLUSH. MU PKR ASSY TIH TBG FLUSH			
Start Time	06:00	End Time	07:00	Comment	CREW TRAVEL TO LOC
Start Time	07:00	End Time	09:30	Comment	SAFETY MEETING (WORKING AROUND FISH TOOLS) BLEED DOWN CASING & TUBING 20 PSI. PULL 2 7/8 TUBING TO DERRICK 50 JOINTS. LAY DOWN 1 JOINT 2 7/8 LAY DOWN JARS, BUMPER SUB, AND OVER SHOT. LAY DOWN 1 JOINT 2 7/8 TUBING FLUSH INSIDE OF TUBING WITH 45 BBLS @ 250 DEGREES
Start Time	09:30	End Time	13:00	Comment	PULL TUBING TO DERRICK BREAK, DOPE, AND MAKE UP COLLARS FLUSH INSIDE OF TUBING W/ 25 BBLS @ 250 DEGREES



Job Detail Summary Report

Well Name: Lonetree 16-16-9-17

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Start Time	13:00	End Time	14:00	Comment RIG DOWN 2ND SET OF TONGS, LAY DOWN 2 7/8 TUBING ONTO TRAILER 57 JOINTS
Start Time	14:00	End Time	16:00	Comment MAKE UP 2 3/8 XN NIPPLE/ 2 3/8" PUP SUB 5 X 2 7/8" PACKER, 2 7/8" SEAT NIPPLE, RUN IN 122 JOINTS 2 7/8" TUBING FROM DERRICK AND ADDED 6' PUP SUB
Start Time	16:00	End Time	17:00	Comment FLUSH 2 7/8 TUBING WITH 40 BBLS @ 250 DEGREES, FILL UP HOT OIL TRUCK WITH WATER
Start Time	17:00	End Time	18:00	Comment FILL 2 7/8 TUBING WITH 20 BBLS AND PRESSURE TUBING TO 3000 PSI. HELD F/ 30 MINUTES. BLEED OFF LINES
Start Time	18:00	End Time	19:00	Comment RIG UP LUBRICATOR RETIE FLAGS ON SANDLINE SIW SDFD
Start Time	19:00	End Time	20:00	Comment CREW TRAVEL HOME
Report Start Date	Report End Date	24hr Activity Summary		
2/27/2014	2/27/2014	RIG DOWN FLOOR, ND BOP, SET PACKER W/ 18000# TENSION, NU WH PRESSURE CASING TO 1500 PSI HOLD FOR 30 MINUTES		
Start Time	06:00	End Time	07:00	Comment CREW TRAVEL TO LOCATION
Start Time	07:00	End Time	08:00	Comment SAFETY MEETING (RUNNING DEPTOMETER ON SAND LINE) BLEED DOWN CASING & 2 7/8" TBG 10 PSI RUN IN WITH SAND LINE AND LATCH ONTO AND COME OUT OF HOLE WITH STAND VAVLE. LAY DOWN LUBRICATOR
Start Time	08:00	End Time	09:00	Comment RIG DOWN FLOOR, ND BOP, SET PACKER W/ 18000# TENSION, NU WH
Start Time	09:00	End Time	10:30	Comment FILL CASING WITH 22 BBLS PACKER FLUID, PRESSURE CASING TO 1500 PSI AND HOLD FOR 30 MINUTES. GOOD TEST RIG UP PUMPER TO PERFORM MIT ON CASING. TO 1500 PSI LOST 18 PSI IN 30 MINUTES
Start Time	10:30	End Time	11:30	Comment RIG DOWN PREP EQUIPMENT TO MOVE TO FED 14-20-9-17, MOVE RIG TO NEW LOC. SIW
Start Time	11:30	End Time	12:00	Comment Initial MIT on the above listed well. On 02/27/2014 the casing was pressured up to 1395 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT22197-10184



43-013-32150

Well Name: Lonetree 16-16-9-17

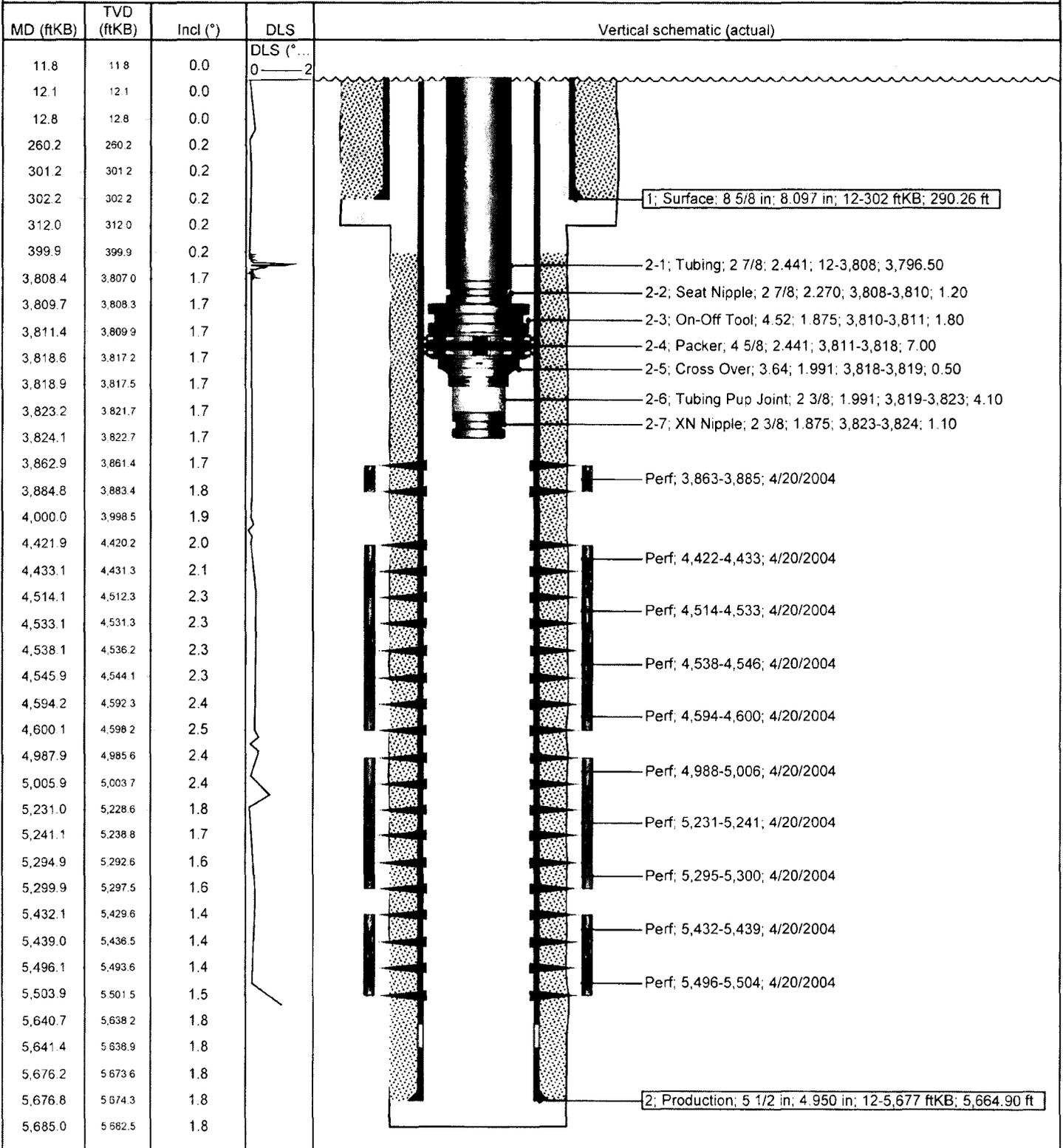
Surface Legal Location 16-9S-17E		API/UWI 43013321500000	Well RC 500151538	Lease	State/Province Utah	Field Name GMBU CTB6	County DUCHESNE
Spud Date	Rig Release Date	On Production Date 4/20/2004	Original KB Elevation (ft) 12	Ground Elevation (ft)	Total Depth All (TVD) (ftKB)	PBTD (All) (ftKB)	

Most Recent Job

Job Category Production / Workover	Primary Job Type Conversion	Secondary Job Type Basic	Job Start Date 2/19/2014	Job End Date 2/27/2014
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TD: 5,685.0

Vertical - Original Hole, 1/11/2016 10:51:45 AM





Newfield Wellbore Diagram Data Lonetree 16-16-9-17

Surface Legal Location 16-9S-17E		API/UWI 43013321500000		Lease	
County DUCHESNE		State/Province Utah		Basin Uintah Basin	
Well Start Date 2/13/2001		Spud Date		Final Rig Release Date	
Original KB Elevation (ft) 12		Ground Elevation (ft)		Total Depth (ftKB) 5,685.0	
				Total Depth All (TVD) (ftKB)	
				PBTD (All) (ftKB)	

Casing Strings

Csg Des	Run Date	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	Set Depth (ftKB)
Surface	2/13/2001	8 5/8	8.097	24.00	J-55	302
Production	3/30/2004	5 1/2	4.950	15.50	J-55	5,677

Cement

String: Surface, 302ftKB 2/18/2001

Cementing Company BJ Services Company		Top Depth (ftKB) 12.0	Bottom Depth (ftKB) 302.2	Full Return?	Vol Cement Ret (bbl)
Fluid Description Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield		Fluid Type Lead	Amount (sacks) 145	Class G	Estimated Top (ftKB) 12.0

String: Production, 5,677ftKB 3/31/2004

Cementing Company BJ Services Company		Top Depth (ftKB) 400.0	Bottom Depth (ftKB) 4,000.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description Premilite 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		Fluid Type Lead	Amount (sacks) 350	Class PL II	Estimated Top (ftKB) 400.0

String: Production, 5,677ftKB 3/31/2004

Cementing Company BJ Services Company		Top Depth (ftKB) 4,000.0	Bottom Depth (ftKB) 5,676.9	Full Return?	Vol Cement Ret (bbl)
Fluid Description 50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD		Fluid Type Tail	Amount (sacks) 400	Class 50/50 Poz	Estimated Top (ftKB) 4,000.0

Tubing Strings

Tubing Description		Run Date			Set Depth (ftKB)			
Tubing		2/21/2014			3,824.2			
Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Botm (ftKB)
Tubing	122	2 7/8	2.441	6.50	J-55	3,796.50	12.0	3,808.5
Seat Nipple		2 7/8	2.270			1.20	3,808.5	3,809.7
On-Off Tool		4.515	1.875			1.80	3,809.7	3,811.5
Packer		4 5/8	2.441			7.00	3,811.5	3,818.5
Cross Over		3.635	1.991			0.50	3,818.5	3,819.0
Tubing Pup Joint		2 3/8	1.991			4.10	3,819.0	3,823.1
XN Nipple		2 3/8	1.875			1.10	3,823.1	3,824.2

Rod Strings

Rod Description				Run Date		Set Depth (ftKB)	
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Botm (ftKB)

Perforation Intervals

Stage#	Zone	Top (ftKB)	Botm (ftKB)	Shot Dens (shots/ft)	Phasing (')	Nom Hole Dia (in)	Date
5	GB4, Original Hole	3,863	3,885	4			4/20/2004
4	D2, Original Hole	4,422	4,433	4			4/20/2004
3	C, Original Hole	4,514	4,533	4			4/20/2004
3	C, Original Hole	4,538	4,546	4			4/20/2004
3	B .5, Original Hole	4,594	4,600	4			4/20/2004
2	LODC, Original Hole	4,988	5,006	4			4/20/2004
2	CP1, Original Hole	5,231	5,241	4			4/20/2004
2	CP2, Original Hole	5,295	5,300	4			4/20/2004
1	CP4, Original Hole	5,432	5,439	4			4/20/2004
1	CP5, Original Hole	5,496	5,504	4			4/20/2004

Stimulations & Treatments

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)
1	1,950	0.79	24.8	2,054			
2	1,980	0.81	24.9	2,165			
3	2,380	0.91	24.6	2,515			
4	2,100	0.89	24.8	2,296			
5	1,930	0.86	24.8	2,107			



Stimulations & Treatments

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbl/m-h)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)
6	2,050	0.96	24.8	2,025			

Proppant

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		Sand Bulk Sand 29401 lb
2		Sand Bulk Sand 35880 lb
3		Sand Bulk Sand 48919 lb
4		Sand Bulk Sand 48919 lb
5		Sand Bulk Sand 73805 lb
6		Sand Bulk Sand 56854 lb