002

Inland
PRODUCTION COMPANY
A Subsidiary of Inland Resources Inc.

June 25, 2004

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

RE: Applications for Permit to Drill: Entire State Section 16, T9S R18E.

Dear Diana:

Enclosed find APD's on the above referenced wells. When these APD's are received, please contact Brad Mecham to set up a State On-Site. If you have any questions, feel free to give either Brad or myself a call.

Sincerely,

Mandie Crozier

Mandie Crozier
Regulatory Specialist

mc
enclosures

RECEIVED
JUN 28 2004
DIV. OF OIL, GAS & MINING

Inland Production Company Field Office • Route 3, Box 3630 • Myton, UT 84052 • 435-646-3721 • FAX 435-646-3031
Corporate Office • 410 Seventeenth Street, Suite 700 • Denver, CO 80202 • 303-893-0102 • FAX 303-893-0103

FORM 3

STATE OF UTAH

001 **DIVISION OF OIL, GAS AND MINING**

5. LEASE DESIGNATION AND SERIAL NO.
ML-48378

APPLICATION FOR PERMIT TO DRILL, DEEPEN

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

1a. TYPE OF WORK **DRILL** [ ] **DEEPEN** [X]

7. UNIT AGREEMENT NAME
N/A

1b. TYPE OF WELL

OIL [X] GAS [ ] OTHER [ ] SINGLE ZONE [X] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME
N/A

2. NAME OF OPERATOR
Inland Production Company

9. WELL NO.
State #15-16-9-18

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

10. FIELD AND POOL OR WILDCAT
Eight Mile Flat

4. LOCATION OF WELL (FOOTAGE)
At Surface **SW/SE** **660' FSL 1980' FEL** 594253 X 40.02547
At proposed Producing Zone 4430958 Y -109.89544

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SW/SE
Sec. 16, T9S, R18E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 20.5 miles southeast of Myton, UT

12. County **Uintah** 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' f/lse line

16. NO. OF ACRES IN LEASE
640.00

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.
Approximately 1320'

19. PROPOSED DEPTH
6500'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5042' GL

22. APPROX. DATE WORK WILL START*
1st Quarter 2005

23. PROPOSED CASING AND CEMENTING PROGRAM

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

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

***The actual cement volumes will be calculated off of the open hole logs, plus 15% excess:**

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

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

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

24.
Name & Signature Mandie Crozier Title: **Regulatory Specialist** Date: 6/25/04
Mandie Crozier

(This space for State use only)

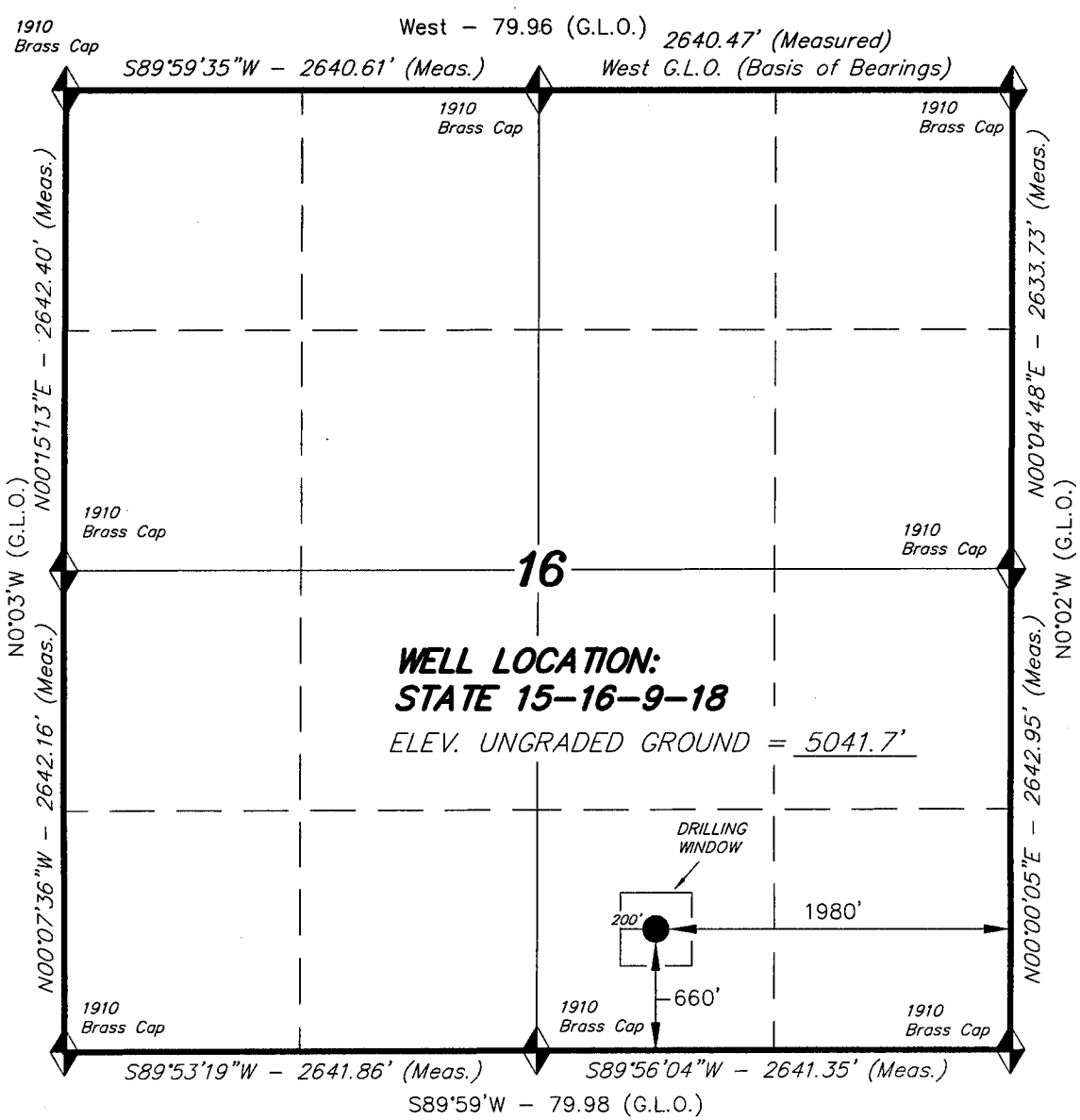
API Number Assigned: 43-047-35826

APPROVAL: Approved by the Utah Division of Oil, Gas and Mining
Date: 08-04-04
By: [signature]

RECEIVED
JUN 28 2004
DIV. OF OIL, GAS & MINING

*See Instructions On Reverse Side

T9S, R18E, S.L.B.&M.



= SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

INLAND PRODUCTION COMPANY

WELL LOCATION, STATE 15-16-9-18, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 16, T9S, R18E, S.L.B.&M. UINTAH COUNTY, UTAH.

N

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.

REGISTERED LAND SURVEYOR No. 189377 STACY W. STEWART STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

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

SCALE: 1" = 1000'	SURVEYED BY: K.G.S.
DATE: 5-3-04	DRAWN BY: F.T.M.
NOTES:	FILE #

From: Diana Whitney

PER ED BONNER 8/4

Westport O&G Co	43-047-35788	State 920-36O	**HOLD**
Westport O&G Co	43-047-35789	State 1022-2O	**HOLD**
Westport O&G Co	43-007-30966	N Bench St 24-18	**OK TO GO**
EOG Resources	43-047-35806	STATE 1-16	**HOLD**
Westport O&G Co	43-047-35810	STATE 1022-36E	**OK TO GO**
Inland Production	43-047-35811	STATE 1-16-9-18	**OK TO GO**
Inland Production	43-047-35812	STATE 2-16-9-19	**OK TO GO**
Inland Production	43-047-35813	STATE 3-16-9-20	**OK TO GO**
Inland Production	43-047-35814	STATE 4-16-9-21	**OK TO GO**
Inland Production	43-047-35815	STATE 5-16-9-22	**OK TO GO**
Inland Production	43-047-35816	STATE 6-16-9-23	**OK TO GO**
Inland Production	43-047-35817	STATE 7-16-9-24	**HOLD**
Inland Production	43-047-35818	STATE 8-16-9-25	**OK TO GO**
Inland Production	43-047-35819	STATE 9-16-9-26	**OK TO GO**
Inland Production	43-047-35820	STATE 10-16-9-27	**OK TO GO**
Inland Production	43-047-35822	STATE 11-16-9-28	**OK TO GO**
Inland Production	43-047-35823	STATE 12-16-9-29	**OK TO GO**
Inland Production	43-047-35824	STATE 13-16-9-30	**OK TO GO**
Inland Production	43-047-35825	STATE 14-16-9-31	**HOLD**
Inland Production	43-047-35826	STATE 15-16-9-~~32~~ 18	**OK TO GO**
Inland Production	43-047-35827	STATE 16-16-9-33	**OK TO GO**
CDX Rockies LLC	43-047-35828	St. Atchee 36-12-25 #1	**OK TO GO**
EOG Resources	43-013-32594	Pete's Wash 2-32	**HOLD**
MSC Exploration	43-019-31402	Cactus Rise MSC 2-1	**HOLD**
Merrion O&G Corp	43-015-30557	Fuzzball 1	**OK TO GO**
QEP Uinta Basin Inc	43-047-35684	CWU 4MU-32-8-24	**HOLD**
Westport O&G Co	43-047-35657	NBU 922-31I	**OK TO GO**
Dominion Expl	43-047-35612	WHB 14-36E	**HOLD**
Dominion Expl	43-047-35613	LCU 12-36F	**HOLD**
EOG Resources	43-047-35203	CWU 853-32	**HOLD**
EOG Resources	43-047-35200	NBU 535-17E	**OK TO GO**
Chevron Usa Inc.	43-015-30609	State of Utah HH 23-166	**HOLD**

INLAND PRODUCTION COMPANY
STATE #15-16-9-18
SW/SE SECTION 16, T9S, R18E
UINTAH COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

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

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

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

Green River Formation 1700' – 6500' – Oil

4. **PROPOSED CASING PROGRAM:**

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

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

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

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

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

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

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

AIR DRILLING

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

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

MUD PROGRAM	MUD TYPE
Surface – 3200'	fresh water or air/mist system
3200' – TD'	fresh water system

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

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

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

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

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

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

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

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

It is anticipated that the drilling operations will commence the fourth quarter of 2004, and take approximately seven (7) days from spud to rig release.

INLAND PRODUCTION COMPANY
STATE #15-16-9-18
SW/SE SECTION 16, T9S, R18E
UINTAH COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. **EXISTING ROADS**

See attached **Topographic Map "A"**

To reach Inland Production Company well location site State 15-16-9-18 located in the SW¼ SE¼ Section 16, T9S, R18E, S.L.B. & M., Uintah County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles ± to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 – 11.7 miles ± to it's junction with an existing road to the southeast; proceed southeasterly - 3.6 miles ± to it's junction with an existing road to the east; proceed northeasterly and then easterly – 3.0 miles ± to it's junction with an existing road to the southeast; proceed southeasterly – 0.6 miles ± to it's junction with the beginning of the proposed access road to the south; proceed southerly along the proposed access road – 3,845' ± to it's junction with a proposed access road to the southwest; proceed southwesterly – 1,375' ± to the proposed well location.

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

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

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

2. **PLANNED ACCESS ROAD**

Approximately 1,905' of access road is proposed. See attached **Topographic Map "B"**.

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

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

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

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

3. **LOCATION OF EXISTING WELLS**

Refer to **EXHIBIT B**.

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

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

There will not be a tank battery at this location. A Central Battery will be located at the proposed State 1-16-9-18 location.

The flow lines from this well will run along access roads leading to the Central Battery located at the proposed State 1-16-9-18 location. **See attached Topographic Map "D".**

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

Tank batteries will be built to State specifications.

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

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

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

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

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

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

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

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

A portable toilet will be provided for human waste.

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

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

8. **ANCILLARY FACILITIES:**

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

9. **WELL SITE LAYOUT:**

See attached Location Layout Sheet.

Fencing Requirements

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

a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.

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

c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times

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

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

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

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

a) **Producing Location**

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

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather

permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) **Dry Hole Abandoned Location**

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

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

12. **OTHER ADDITIONAL INFORMATION:**

a) Inland Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Inland is to immediately stop work that might further disturb such materials and contact the Authorized Officer.

b) Inland Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.

c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

The Archaeological Cultural Resource Survey for this area 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 State 15-16-9-18. 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 State 15-16-9-18 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 REPRENSENTATIVE AND CERTIFICATION:**

Representative

Name:	Brad Mecham
Address:	Inland Production Company
	Route 3, Box 3630
	Myton, UT 84052
Telephone:	(435) 646-3721

Certification

Please be advised that INLAND RESOURCES, INC. is considered to be the operator of well #15-16-9-18, SW/SE Section 16, T9S, R18E, LEASE #ML-48378, Uintah 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.

6/25/04
Date

Mandie Crozier
Mandie Crozier
Regulatory Specialist
Inland Production Company

CULTURAL RESOURCE INVENTORY FOR INLAND RESOURCES OF SECTIONS 2 AND 16, T 9S, R 18E ON EIGHT MILE FLAT, UINTAH COUNTY, UTAH

BY:

Angela Whitfield
and
Amanda Wilson

Prepared For:

State and Institutional
Trust Land Administration

Prepared Under Contract With:

Inland Resources
Route 3 Box 3630
Myton, UT 84052

Prepared By:

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

MOAC Report No. 04-37

April 16, 2004

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

State of Utah Antiquities Project (Survey)
Permit No. U-04-MQ-0109s

ABSTRACT

A cultural resource inventory was conducted by Montgomery Archaeological Consultants (MOAC) of T 9S, R 18E, Sections 2 and 16 for Inland Resources. The project area is located on Eightmile Flat, Uintah County, Utah. Inland Resources, Inc. proposes to develop oil/gas well locations, access roads, and pipelines within these blocks. The inventory was implemented at the request of Ms. Mandie Crozier of Inland Resources. The project occurs entirely on land administered by the School and Institutional Trust Land Administration (SITLA).

The project area lies approximately 20 miles south of Roosevelt, Utah. The inventory resulted in the identification of thirteen new archaeological sites (42Un3669 through 42Un3681) and one isolated find of artifact. Five of the sites (42Un3674, 42Un3678, 42Un3679, 42Un3680, and 42Un3681) are recommended as eligible to the NRHP (see Table 1). These consist of three prehistoric temporary camps (42Un3674, 42Un3678, and 42Un3680), a lithic scatter (42Un3679), and a rock art site (42Un3681). The prehistoric camps and lithic scatter are deemed eligible to the NRHP under Criterion D due to their potential to yield additional information on the prehistory of the area. One of the sites (42Un3674) contains three single-hand manos and a core, all located near overhangs that are potential rock shelters. Colluvial deposits cover the site area, and could obscure the presence of additional cultural materials. Another prehistoric temporary camp (42Un3680) contains a core, several flakes, and a fire-cracked rock concentration. Aeolian soils covering the site area could obscure the presence of additional cultural materials. Site 42Un3678 contains lithic debitage and nine tools, including one diagnostic tool - the base of an Elko corner-notched projectile point. The lithic scatter (42Un3679) contains 15 pieces of lithic debitage of a variety of material types, a core, and a utilized flake. It is located near an ephemeral wash, and alluvial soils in the area suggest the potential for buried cultural materials. The rock art site (42Un3681) is evaluated as eligible to the NRHP under Criteria C and D. It possesses high artistic values as it is one of the few rock art sites that have been identified in the immediate area, and has potential to yield information important to the prehistory of the area.

Eight of the sites are evaluated as not eligible to the NRHP (Table 1). The prehistoric site types include two lithic scatters (42Un3675 and 42Un3677). These sites lack temporal indicators and spatial patterning and occur on sediments that are unlikely to yield buried cultural materials. The remainder of the sites evaluated as not eligible to the NRHP include five historic temporary camps (42Un3669 through 42Un3673) and a site containing two cairns (42Un3676). These sites all possess a limited class of artifacts and little depth potential. They are common site types to the area, and are unlikely to contribute to the historic research domains of the area.

It is recommended that the eligible sites be avoided by any future undertakings. Based on adherence to this recommendation, a determination of "no historic properties affected" pursuant to Section 106, CFR 800 is proposed for this project.

TABLE OF CONTENTS

ABSTRACT i
TABLE OF CONTENTS ii
LIST OF FIGURES ii
LIST OF TABLE ii
INTRODUCTION 1
DESCRIPTION OF PROJECT AREA 2
Environmental Setting 2
Cultural Overview 2
SURVEY METHODOLOGY 6
INVENTORY RESULTS 7
Archaeological Sites 7
Isolated Find of Artifacts 11
NATIONAL REGISTER OF HISTORIC PLACES EVALUATION 12
MANAGEMENT RECOMMENDATIONS 13
REFERENCES CITED 14
APPENDIX A: INTERMOUNTAIN ANTIQUITIES COMPUTER
SYSTEM (IMACS) SITE FORMS 16

LIST OF FIGURES

1. Inventory Area of Section 16, Township 9S, Range 18E on Eight Mile Flat for Inland Resources, Uintah County, Utah showing cultural resources 3

2. Inventory Area of Section 2, Township 9S, Range 18E on Eight Mile Flat for Inland Resources, Uintah County, Utah showing cultural resources 4

LIST OF TABLE

1. Cultural Resources and NRHP Assessment 13

INTRODUCTION

A cultural resource inventory was conducted by Montgomery Archaeological Consultants (MOAC) of T 9S, R 18E, Sections 2 and 16. The project area is located on Eightmile Flat, Uintah County, Utah. Inland Resources, Inc. proposes to develop oil/gas well locations, access roads, and pipelines within these blocks. The inventory was implemented at the request of Ms. Mandie Crozier of Inland Resources. The project occurs entirely on land administered by the School and Institutional Trust Land Administration (SITLA).

The objective of the inventory was to locate, document and evaluate any cultural resources within the project area. This project was carried out in compliance with Federal and State legislation including the Antiquities Act of 1906, the National Historic Preservation Act (NHPA) of 1966 (as amended), the National Environmental and Historic Preservation Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979, and the American Indian Religious Freedom Act of 1978.

The fieldwork was conducted on March 8-13, 2004 under the direction of Keith R. Montgomery (Principal Investigator) and assisted by Mark Beeson, Mike Carlisle, and Greg Woodall. The inventory was conducted under the auspices of U.S.D.I. (FLPMA) Permit No. 04-UT-60122 and State of Utah Antiquities Project (Survey) No. U-04-MQ-0109s.

A file search for previous inventories was conducted by Marty Thomas on March 4, 2004 at the Utah State Historic Preservation Office in Salt Lake City. According to this consultation, a number of inventories have been conducted within the immediate project area. In 1979, Archeological-Environmental Research Corporation (AERC) conducted a cultural resource survey of three proposed drill locations for Mapco Corporation (Norman and Hauck 1979). The survey area included a portion of Section 16. No cultural resources were identified during the project. In 1981, Nickens and Associates performed a cultural resource inventory for the proposed Bonanza-Castle Peak-Upalco Transmission Line corridor and access roads for Deseret Generation and Transmission Co-operative (Christensen 1981). The transmission line was approximately 57 miles long, and a portion of it passed through Section 16, Township 9 South, Range 18 East. Thirty three archaeological sites and 56 isolated finds were identified during the project. One of the sites, 42Un1174, was deemed a possible NRHP eligible site. In 1984, AERC performed cultural resource inventories of two proposed well locations and access routes for Diamond Shamrock Exploration (Hauck 1984). A portion of the access route to well location 23-1 was located in Section 2, Township 9 South, Range 18 East. No sites were identified during the project, however several isolated tools and primary flakes were observed. In February 2004, MOAC performed a cultural resource inventory adjacent to the current project area that resulted in the documentation of four new archaeological sites (Wilson and Montgomery 2004a). The sites were all historic short-term camps or trash scatters evaluated as not eligible to the NRHP. In April 2004, MOAC conducted another cultural resource inventory in the area that included Sections 9, 10, 11, 14, 15, and 23, Township 9 South, Range 18 East (Wilson and Montgomery 2004b). The inventory resulted in documentation of seventy-one new archaeological sites. Twenty-eight of the sites were evaluated as eligible to the NRHP. These include one historic site, two multi-component sites, and twenty five prehistoric sites. The prehistoric sites consist of nineteen lithic scatters and six temporary camps.

DESCRIPTION OF PROJECT AREA

The project area lies approximately 20 miles south of Roosevelt, Utah on Eightmile Flat, Uintah County, Utah. The inventory area is located in Township 9 South, Range 18 East, Section 2 and Section 16 (Figures 1 and 2). A total of 1240 acres, including 640 acres in Section 16 and 600 acres in Section 2, was inventoried on lands administered by School and Institutional Trust Land Administration (SITLA).

Environmental Setting

The project area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The entire Uinta Basin ecosystem is within the Green River drainage, considered to be the northernmost extension of the Colorado Plateau. Topographically, this area consists of highly dissected sandstone and mudstone rock formations and broad sandy silt ridges. Recent alluvial deposits, older alluvial terrace deposits, and rock outcrops of the Upper Eocene Uinta Formation constitute the surface geology of the area. The Uinta Formation is seen as eroded outcrops formed by fluvial deposited stream laid interbedded sandstone and mudstone. This formation is known for its fossil vertebrates, including turtles, crocodilians, fish, and mammals. The elevation ranges from 5100 to 5140 feet a.s.l. Named water sources north of the project area include Pariette Draw and Castle Peak Draw. In addition, there are numerous unnamed washes in the immediate project vicinity. The project area lies within the Upper Sonoran life zone, dominated by a mixed desert shrub zone. Vegetation in the area includes shadscale, low sagebrush, mat saltbush, greasewood, rabbitbrush, snakeweed, prickly pear cactus, pincushion cactus, and bunch grasses. Modern disturbances to the landscape include oil and gas development, access roads, pipelines, and livestock grazing.

Cultural Overview

The cultural-chronological sequence represented in the area includes the Paleoindian, Archaic, Fremont, Protohistoric, and Euro-American stages. The earliest inhabitants of the region are representative of the Paleoindian stage (ca. 12,000-8,000 B.P.), characterized by the adaptation to terminal Pleistocene environments and by the exploitation of big game fauna. The presence of Paleoindian hunters in the Uinta Basin region is implied by the discovery of Clovis and Folsom fluted points (ca.12,000 B.P. - 10,000 B.P.), as well as the more recent Plano Complex lanceolate points (ca. 10,000 B.P. - 7,000 B.P.). Near the project area, a variety of Plano Complex Paleoindian projectile points have been documented, including Goshen, Alberta, and Midland styles (Hauck 1998). No sites with evidence of Folsom lithic technology have previously been documented near the project area. Spangler (1995:332) reports that there are no sealed cultural deposits in association with extinct fauna or with chronologically distinct Paleoindian artifacts in Utah. Specifically in the Uinta Basin, few Paleoindian sites have been adequately documented, and most evidence of Paleoindian exploitation of the area is restricted to isolated projectile points recovered in nonstratigraphic contexts. Copeland and Fike (1998:21) argue that many areas in Utah are conducive to the herding behavior of megafauna, and that there is a high probability that many of the sites in Utah of unknown age are Paleoindian.

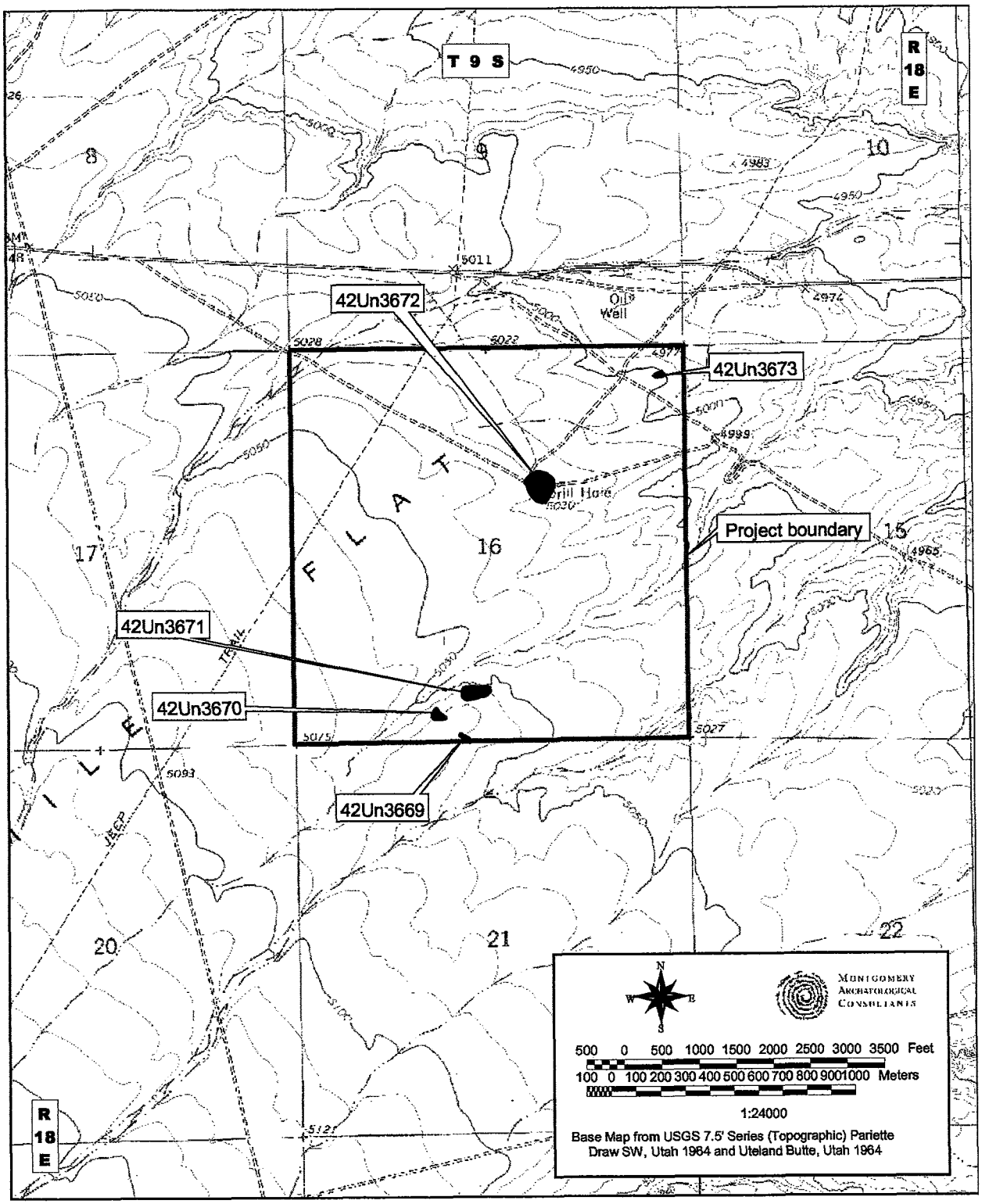


Figure 1. Inventory Area of Section 16, Township 9S, Range 18E on Eight Mile Flat for Inland Resources, Uintah County, Utah showing cultural resources.

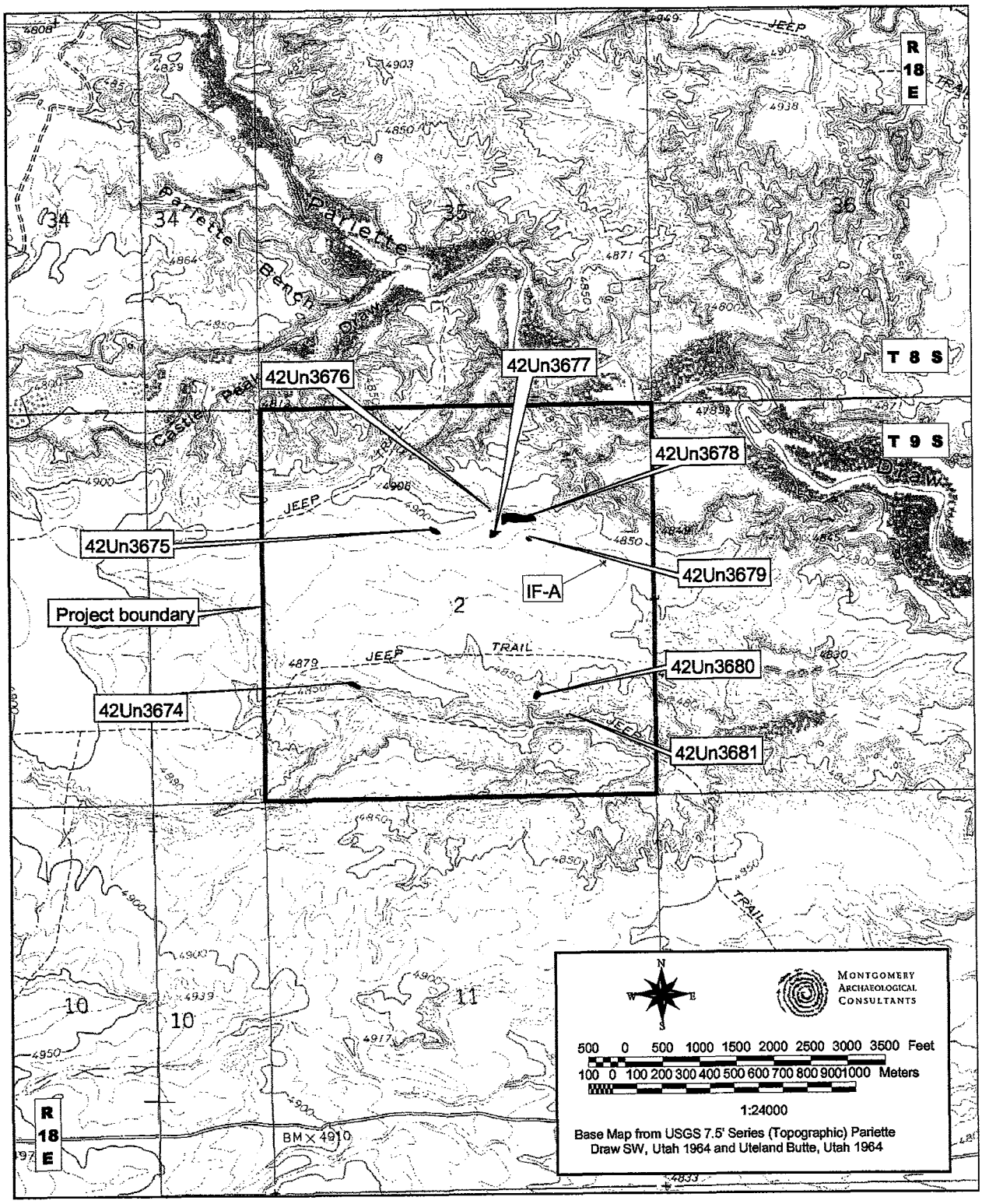


Figure 2. Inventory Area of Section 2, Township 9S, Range 18E on Eight Mile Flat for Inland Resources, Uintah County, Utah showing cultural resources.

The Archaic stage (ca. 8,000 B.P.-1,500 B.P.) is characterized by the dependence on a foraging subsistence, with peoples seasonally exploiting a wide spectrum of plant and animal species in different ecozones. The shift to an Archaic lifeway was marked by the appearance of new projectile point types, and the development of the atlatl, perhaps in response to a need to pursue smaller and faster game (Holmer 1986). In the Uinta Basin, evidence of Early Archaic presence is relatively sparse compared to the subsequent Middle and Late Archaic periods. Early Archaic (ca. 6000-3000 B.C.) sites in the Basin include sand dune sites and rockshelters primarily clustered in the lower White River drainage (Spangler 1995:373). Early Archaic projectile points recovered from Uinta Basin contexts include Pinto Series, Humboldt, Elko Series, Northern Side-notched, Hawken Side-notched, Sudden Side-notched and Rocker Base Side-notched points. Excavated sites in the area with Early Archaic components include Deluge Shelter in Dinosaur National Monument, and open campsites along the Green River and on the Diamond Mountain Plateau (Spangler 1995:374). The Middle Archaic (ca. 3000-500 B.C.) is characterized by improved climatic conditions and an increase in human population on the northern Colorado Plateau. Several stratified Middle Archaic sites have been excavated and dozens of sites have been documented in the Uinta Basin. Middle Archaic sites in the area reflect cultural influences from the Plains, although a Great Basin and/or northern Colorado Plateau influence is represented in the continuation of the Elko Series projectile points. Subsistence data from Middle Archaic components indicate gathering and processing of plants as well as faunal exploitation (e.g., mule deer, antelope, bighorn sheep, cottontail rabbit, muskrat, prairie dog, beaver and birds). The Late Archaic period (ca. 500 B.C.-A.D. 550) in the Uinta Basin is distinguished by the continuation of Elko Series projectile points with the addition of semi-subterranean residential structures at base camps. By about A.D. 100, maize horticulture and Rose Springs arrow points had been added to the Archaic lifeway. In the Uinta Basin, the earliest evidence of Late Archaic architecture occurs at the Cockleburr Wash Site (42Un1476) where a temporary structure, probably a brush shelter, yielded a date of 316 B.C. (Tucker 1986). The structure was probably associated with seasonal procurement of wild floral resources gathered along Cliff Creek.

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

Archaeological evidence suggests that Numic peoples appeared in east-central Utah at approximately A.D. 1100 or shortly before the disappearance of Formative-stage peoples (Reed 1994). The archaeological remains of Numic-speaking Utes consist primarily of lithic scatters with low quantities of brown ware ceramics, rock art, and occasional wickiups. The brown ware ceramics appear to be the most reliable indicator of cultural affiliation, as Desert Side-notched and Cottonwood Triangular points were manufactured by other cultural groups beside the Ute (Horn,

Reed, and Chandler 1994:130). The Ute appear to have been hunters and gatherers who exploited various fauna and flora resources. According to macrobotanical and faunal data from dated components, deer, elk, pronghorn, bison, and small game were acquired (Reed 1994:191). Plant materials thought to have been exploited for food include goosefoot, grass seeds, pinyon nuts, juniper berries, squawbush berries and leaves, hackberry seeds and possibly saltbush seeds, knotweed, chokecherry, and chickweed (Reed 1994:191).

SURVEY METHODOLOGY

An intensive pedestrian survey was performed for this project which is considered 100% coverage. The two parcels were examined for cultural resources by the archaeologists walking parallel transects spaced no more than 10 m (30 ft) apart. Ground visibility was considered good. A total of 1240 acres, including 640 acres in Section 16 and 600 acres in Section 2, was inventoried on lands administered by School and Institutional Trust Land Administration (SITLA).

Cultural resources were recorded either as archaeological sites or isolated finds of artifacts. Archaeological sites are defined as spatially definable areas with ten or more artifacts and/or features. Sites were documented by the archaeologists walking transects across the site, spaced no more than 3 m (10 ft) apart and marking the locations of cultural materials with pinflags. This procedure allowed clear definition of site boundaries and artifact concentrations. At the completion of the surface inspection, a Brunton compass was employed to point-provenience diagnostic artifacts and other relevant features in reference to the site datum, a steel rebar stamped with a temporary site number. Archaeological sites were plotted on a 7.5' USGS quadrangle, photographed, and documented with site data entered on an Intermountain Antiquities Computer System (IMACS, 1990 version) inventory form (Appendix A). Isolated finds were defined as individual artifacts or light scatters of items lacking sufficient material culture to warrant IMACS forms or to derive interpretation of human behavior in a cultural and temporal context. All isolated artifacts were plotted on a 7.5' USGS map and are described in this report.

INVENTORY RESULTS

The inventory of T 9S, R 18E, Sections 2 and 16 on Eight Mile Flat for Inland Resources resulted in the identification of thirteen new archaeological sites (42Un3669 through 42Un3681) and one isolated find of artifact.

Archaeological Sites

Smithsonian Site No.: 42Un3669
Temporary Site No.: 04-37-12
Legal Description: T 9S, R 18E, Sec. 16 and 21
Jurisdiction: SITLA
NRHP Eligibility: Not Eligible
Description: This site is a historic temporary camp located at the top edge of a flat, broad ridge. The cultural materials at the site include glass, tin cans, a cartridge with the headstamp "30-30 WIN SuperSpeed, one battery bank with 30 'D' cells stuck together, one large battery core, one hay bail wire tie, one cast iron wood stove burner lid with a 7" diameter and the markings "GW 7R", and one metal frying pan handle. The glass consists of 69 fragments of selenium glass all representing different jars with 2" diameter screw on metal lids. Two of the jars contain trademarks: one jar has a Latchford Marble trademark on the base (1939-1957) and a diameter of 4" and the other jar had

a Glass Container's Corporation trademark (since 1945). The tin cans at the site include three sanitary cut around medium food cans; seven hole-in-top milk cans with ice pick or knife cut openings; two shirt pocket, hinged lid tobacco tins; and one removable lid with 12 nail holes punched in it. There is one Feature at the site consisting of 30 juniper wood chips and splinters in an area with a diameter of 10 meters. The site was most likely a camp used by sheep herders between 1939-1955.

Smithsonian Site No.: 42Un3670
Temporary Site No.: 04-37-13
Legal Description: T 9S, R 18E, Sec. 16
Jurisdiction: SITLA
NRHP Eligibility: Not Eligible
Description: This site is a historic temporary camp located on top of a broad flat ridge. The cultural materials at the site include one selenium glass jar with a threaded neck and the Alexander Kerr trademark on the base (since 1944); one internal friction tobacco tin (1960s); four external friction wire hinge tobacco tins (1910-1960); ten medium cut around sanitary cans; one tall cut around sanitary can with "Canco" embossed on it (1912-1921); ten knife tip cut hole-in-top milk cans with "Punch Here" embossed on them (1935-1945); two, one pound round key strip coffee cans; one, one quart oil can; one screw cap fluid can with a spout and "Canco" on the bottom (1912-1921); one pry out can lid with "Walter Baker's Breakfast Cocoa" on it; two key strip coffee can lids with "Regular Grind" embossed on them; one metal screw cap; and one sanitary can lid with "RCCanco St. Louis" on it. There are two features at the site that consist of wood piles with over one hundred juniper chips and splinters in each. The site represents a camp used by sheep herders or other ranchers in the area on multiple occasions between 1920 and 1960.

Smithsonian Site No.: 42Un3671
Temporary Site No.: 04-37-11
Legal Description: T 9S, R 18E, Sec. 16
Jurisdiction: SITLA
NRHP Eligibility: Not Eligible
Description: This site is a historic temporary camp located at the top edge of a low, broad ridge. The cultural materials at the site were found in two distinct loci. Locus A contained Feature A which consists of three wood chips, one rifle cartridge with "REM-UMC 25-35" on the headstamp (1911-1960), 14 sanitary food cans, eight hole-in-top milk cans, one spice can lid, one coffee can lid, one grease can, and one selenium medicine bottle with "DR. NUNN's Black Oil Healing Compound" embossed on the side and a finish that required a stopper or cork. Locus B contained Feature B which consists of six wood chips, two hay bail wire ties, two sanitary food cans, and two "Punch Here" hole-in-top milk cans (1935-1945). The site was most likely used by sheep herders on multiple occasions from 1920-1950.

Smithsonian Site No.: 42Un3672
Temporary Site No.: 04-37-10
Legal Description: T 9S, R 18E, Sec. 16
Jurisdiction: SITLA
NRHP Eligibility: Not Eligible
Description: This site is a temporary camp mixed with modern trash located on the crest of a broad, slightly rounded ridge. The cultural materials at the site include five hole-in-top milk cans with "Punch Here" embossed on the lid (1935-1945), ten medium cut- around sanitary food cans, and

modern trash and debris. There are five features at the site: Feature A is a pen or corral, Feature B is a wood pile, Feature C is a drill hole, Feature D is a brick/slag pile, and Feature E is a trash pile. The site dates from 1935 to the present based on the hole-in-top cans and modern trash. The historic aspect of the site was most likely used by sheep herders or other ranchers in the 1940s.

Smithsonian Site No.: 42Un3673
Temporary Site No.: 04-37-09
Legal Description: T 9S, R 18E, Sec. 16
Jurisdiction: SITLA
NRHP Eligibility: Not Eligible
Description: This site is a historic temporary camp located on a low rounded ridgetop in the Uinta Basin. Cultural materials include three knife punched hole-in-top milk cans, one key strip meat can, one broken selenium glass jar with a Knox Glass Bottle Company of Parker trademark on the base (1930-1952) and a metal screw cap, and one wood pile remnant with coal chunks. The feature of wood and coal probably represents the remains of a wood pile while the coal is left over from a stove. The site dates around 1930-1950 based on the glass maker's mark and was most likely used on one occasion by sheep herders or other ranchers in the area.

Smithsonian Site No.: 42Un3674
Temporary Site No.: 04-37-01
Legal Description: T 9S, R 18E, Sec. 2
Jurisdiction: SITLA
NRHP Eligibility: Eligible, Criterion D
Description: This site is a prehistoric temporary camp located on a sandstone shelf ledge that rises 1-2 meters with three rock alcoves/overhangs that could be possible shelters. There are four tools at the site. Tool 1 is a possible single-handed mano manufactured from coarse-grained brown quartzite measuring 15 cm long, 8 cm wide, and 5 cm thick. This mano exhibits 2-5% polish on the convex face and has five margins. Tool 2 is a single-handed mano with eight margins manufactured from reddish brown coarse-grained quartzite measuring 13 cm long, 9 cm wide, and 6 cm thick. The mano has one ground and polished surface measuring 8 x 6 cm and one lateral, natural fracture. The distal end of the cobble exhibits minimal to moderate wear on a 2 x 2 cm flat surface. Tool 3 is a single-handed mano with nine margins manufactured from brown, medium-grained quartzite. There is one grinding surface with minimal use wear that measures 6 x 6 cm on the convex side of the cobble. Tool 4 is a cobble core of light tan-brown opaque chert that measures 8 cm long, 5 cm wide, and 2 cm thick. Ten flakes have been removed from the core and use wear is exhibited on one small edge. The site was most likely used as a temporary camp that can not be dated since no diagnostic artifacts were present. A modern beer bottle was found on the site indicating the possibility of vandalism.

Smithsonian Site No.: 42Un3675
Temporary Site No.: 04-37-02
Legal Description: T 9S, R 18E, Sec. 2
Jurisdiction: SITLA
NRHP Eligibility: Not Eligible
Description: This site is a prehistoric lithic scatter located on a gentle south slope of a low knoll. The cultural materials present at the site include ten pieces of debitage and one lithic tool. The

debitage includes mainly tertiary flakes with a few broken flakes, one primary flake, and one secondary flake. Material types include grey-pink opaque chert, mottled grey-tan-pink opaque chert, mottled tan-brown opaque chert, brown opaque chert, yellow-brown quartzite, and white quartzite. The lithic tool is a uniface manufactured from semi-translucent brown chert with pressure flaking on the dorsal side. There were no features present at the site.

Smithsonian Site No.: 42Un3676
Temporary Site No.: 04-37-03
Legal Description: T 9S, R 18E, Sec. 2
Jurisdiction: SITLA
NRHP Eligibility: Not Eligible
Description: This site is composed of two cairns located on top of a low, long, flat ridge. A collapsed/tipped cairn is located on the east end and a standing cairn is visible at the west end of this same ridge approximately 1/8th of a mile away. The collapsed cairn appears to have been approximately 35 slabs high (4-5 feet) and constructed from local flat sandstone irregular slabs. The slabs measure between 1-2" thick, 6-18" wide, and 24-30" long. There is no discernible placement pattern and the cairn has collapsed to the west off the base location. The standing cairn is 4-5 feet tall and visible at the west end of the ridgeline. There are no associated artifacts at the site.

Smithsonian Site No.: 42Un3677
Temporary Site No.: 04-37-04
Legal Description: T 9S, R 18E, Sec. 2
Jurisdiction: SITLA
NRHP Eligibility: Not Eligible
Description: This site is a lithic scatter located along the base of a low ridge or knoll. The cultural materials at the site include 15 pieces of debitage and two lithic tools. The tools consist of a Stage 1 biface manufactured from grey-pink opaque chert and a bifacial core of grey-pink opaque chert. The debitage at the site consists mainly of primary and secondary flakes with one tertiary flake and no shatter. Material types include grey-pink opaque chert, tan opaque chert, tan-brown mottled opaque chert, grey quartzite, and cream quartzite. There were no diagnostic artifacts or features at the site which was mostly likely used as a brief lithic reduction locality.

Smithsonian Site No.: 42Un3678
Temporary Site No.: 04-37-05
Legal Description: T 9S, R 18E, Sec. 2
Jurisdiction: SITLA
NRHP Eligibility: Eligible, Criterion D
Description: This site is an Archaic temporary camp located on a slickrock and sand ridgetop. A bedrock natural water pocket in the slickrock is present, measuring 1.5 m long, 1 m wide, and 0.2 m deep. Cultural materials at the site include nine lithic tools, including two pieces of ground stone, and 20 pieces of debitage. The debitage includes mainly secondary and tertiary flakes with a few pieces of shatter and primary flakes. Material types include tan opaque chert, tan-brown mottled opaque chert, white-pink mottled opaque chert, cream opaque chert, yellow-orange quartzite, butterscotch quartzite, and cream quartzite. The tools at the site include three small cores of pink-grey opaque chert; one utilized flake with use wear on one bifacial edge; one slab grinding stone with a ground area on one side; one unknown hand stone with battering on one end and possible grinding on one face; one Elko Corner-notched projectile point base of salmon semi-translucent chert; one large side scraper with minimal use wear on one bifacial margin; and one early stage

biface of pink-grey opaque chert with a fracture on the distal end. There were no features present at the site. The Elko projectile point dates to the Archaic period and the site most likely represents a brief camp or lithic reduction locality. A modern beer can was found on the site indicating the possibility of vandalism.

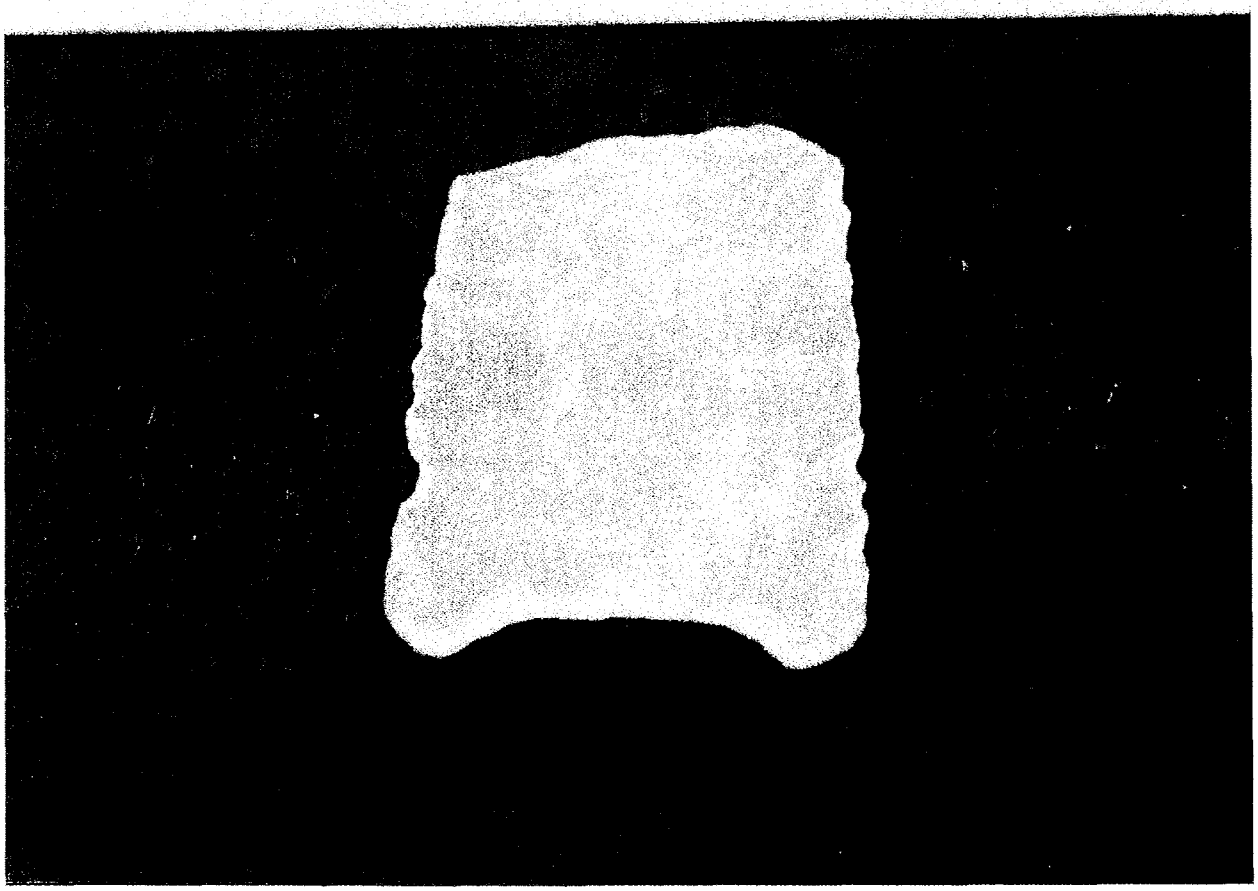
Smithsonian Site No.: 42Un3679
Temporary Site No.: 04-37-06
Legal Description: T 9S, R 18E, Sec. 2
Jurisdiction: SITLA
NRHP Eligibility: Eligible, Criterion D
Description: This site is a prehistoric lithic scatter located in a slight depression and ephermal wash in the Uinta Basin. The cultural materials at the site include 15 pieces of debitage and two lithic tools. The debitage consists of mainly secondary flakes with a few tertiary and primary flakes. Material types include tan-brown mottled opaque chert, tan opaque chert, orange semi-translucent chert, cream opaque chert, salmon quartzite, white-pink mottled opaque chert, grey opaque chert, grey quartzite, and brown opaque chert. The tools at the site include a core manufactured from a cream quartzite cobble with four flake scars and a utilized flake manufactured from a grey opaque chert secondary flake with use wear exhibited on one margin. There are no features present at the site. The site can not be dated since no diagnostic materials were found.

Smithsonian Site No.: 42Un3680
Temporary Site No.: 04-37-07
Legal Description: T 9S, R 18E, Sec. 2
Jurisdiction: SITLA
NRHP Eligibility: Eligible, Criterion D
Description: This site is a prehistoric temporary camp located at the top edge of a ridge overlooking a large draw. Cultural materials at the site include one lithic tool, three pieces of debitage, and a fire-cracked rock concentration. The tool at the site is a butterscotch quartzite bifacial core with numerous flake scars and 5% cortex remaining. The debitage includes two secondary flakes and one tertiary flake. Material types are cream opaque chert and tan-brown mottled opaque chert. Feature A consists of 12 reddened quartzite cobbles in a circular area with a diameter of 2 meters. Another ten reddened and cracked quartzite cobbles and fragments are located within 5 meters down slope and across the slope of the concentration. No charcoal or soil staining was noted. The site was mostly likely used as a brief temporary camp and lithic reduction locality that can not be dated since no diagnostic artifacts were observed.

Smithsonian Site No.: 42Un3681
Temporary Site No.: 04-37-08
Legal Description: T 9S, R 18E, Sec. 2
Jurisdiction: SITLA
NRHP Eligibility: Eligible, Criterion C and D
Description: This site is a rock art site consisting of two petroglyph panels on large detached canyon wall bedrock boulders. Panel (Feature) A faces west on a sandstone boulder and consists of several anthropomorphic and zoomorphic figures as well as a few geometric designs. The panel is faded since it was subject to weathering. Panel (Feature) B consists of two of more figures on a boulder. One of the petroglyphs is a possible snake figure and the other an anthropomorph, but it is hard to distinguish the figures since the panel is faded due to weathering. There were no associated artifacts at the site.

Isolated Find of Artifact

Isolated Find A (IF-A) is located in the SW/SE/NE of Section 2, T9S, R18E; UTM 597807E/4434899N. It is situated on a gentle ridge slope southeast of Pariette Draw, a major semi-permanent drainage. The deposition environment is a stable residual soil with a veneer of small rocks. This isolated find appears to be the base of a plano-type projectile point. It exhibits a broad concave base with rounded tangs and parallel sides. It is broken near the midsection and exhibits diagonal flake removal as well as margin retouch. The point is very similar to lanceolate points classified as Angostura Points dating ca. 9,000 to 7,000 B.P. The artifact is manufactured from a semitranslucent white chert. Measurements: L=2.5 cm (IC), W=2.0 cm, T=0.25cm.



Isolated Find A. Late Paleoindian Angostura Type Point.

NATIONAL REGISTER OF HISTORIC PLACES EVALUATION

The National Register Criteria for Evaluation of Significance and procedures for nominating cultural resources to the National Register of Historic Places (NRHP) are outlined in 36 CFR 60.4 as follows:

> The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of State and local importance that possess integrity of location, design, setting, material, workmanship, feeling, and association, and that they:
>
> a)...are associated with events that have made a significant contribution to the broad patterns of our history; or
>
> b)...are associated with the lives of persons significant to our past; or
>
> c)...embody the distinctive characteristics of a type, period, or method of construction; or that represents the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
>
> d)...have yielded or may be likely to yield information important in prehistory or history.

The inventory of T 9S, R 18E, Sections 2 and 16 on Eight Mile Flat for Inland Resources resulted in the documentation of thirteen new archaeological sites (42Un3669 through 42Un3681). Five of the sites (42Un3674, 42Un3678, 42Un3679, 42Un3680, and 42Un3681) are recommended as eligible to the NRHP (see Table 1). These consist of three prehistoric temporary camps (42Un3674, 42Un3678, and 42Un3680), a lithic scatter (42Un3679), and a rock art site (42Un3681). The prehistoric camps and lithic scatter are deemed eligible to the NRHP under Criterion D due to their potential to yield additional information on the prehistory of the area. One of the sites (42Un3674) contains three single-hand manos and a core, all located near overhangs that are potential rock shelters. Colluvial deposits cover the site area, and could obscure the presence of additional cultural materials. Another prehistoric temporary camp (42Un3680) contains a core, several flakes, and a fire-cracked rock concentration. Aeolian soils covering the site area could obscure the presence of additional cultural materials. Site 42Un3678 contains lithic debitage and nine tools, including an Elko Corner-notched projectile point base. The lithic scatter (42Un3679) contains 15 pieces of lithic debitage of a variety of material types, a core, and a utilized flake. It is located near an ephemeral wash, and alluvial soils in the area suggest the potential for buried cultural materials. The rock art site (42Un3681) is evaluated as eligible to the NRHP under Criteria C and D. It possesses high artistic values as it is one of the few rock art sites that have been identified in the immediate area, and has potential to yield information important to the prehistory of the area.

Eight of the sites are evaluated as not eligible to the NRHP (Table 1). The prehistoric site types include two lithic scatters (42Un3675 and 42Un3677). These sites lack temporal indicators and spatial patterning and occur on sediments that are unlikely to yield buried cultural materials. The remainder of the sites evaluated as not eligible to the NRHP include five historic temporary camps (42Un3669 through 42Un3673) and a site containing two cairns (42Un3676). These sites all possess a limited class of artifacts and little depth potential. They are common site types to the area, and are unlikely to contribute to the historic research domains of the area.

Table 1. Cultural Resources and NRHP Assessment

Site Number	Legal Description	Site Type	NRHP Assessment
42Un3669	T9S, R18E, S. 16 and 21	Historic Temporary Camp	Not Eligible
42Un3670	T9S, R18E, S. 16	Historic Temporary Camp	Not Eligible
42Un3671	T9S, R18E, S. 16	Historic Temporary Camp	Not Eligible
42Un3672	T 9S, R 18E, S. 16	Historic Temporary Camp	Not Eligible
42Un3673	T 9S, R 18E, S. 16	Historic Temporary Camp	Not Eligible
42Un3674	T 9S, R 18E, S. 2	Prehistoric Temporary Camp	Eligible, Criterion D
42Un3675	T 9S, R 18E, S. 2	Lithic Scatter	Not Eligible
42Un3676	T 9S, R 18E, S. 2	Cairns	Not Eligible
42Un3677	T 9S, R 18E, S. 2	Lithic Scatter	Not Eligible
42Un3678	T 9S, R 18E, S. 2	Prehistoric Temporary Camp	Eligible, Criterion D
42Un3679	T 9S, R 18E, S. 2	Lithic Scatter	Eligible, Criterion D
42Un3680	T 9S, R 18E, S. 2	Prehistoric Temporary Camp	Eligible, Criterion D
42Un3681	T 9S, R 18E, S. 2	Rock Art	Eligible, Criteria C & D

MANAGEMENT RECOMMENDATIONS

The inventory of T 9S, R 18E, Sections 2 and 16 on Eight Mile Flat for Inland Resources resulted in the identification of thirteen new archaeological sites (42Un3669 through 42Un3681). Five of the prehistoric sites (42Un3674, 42Un3678, 42Un3679, 42Un3680, and 42Un3681) are recommended as eligible to the NRHP under Criteria C and D. It is recommended that these sites be avoided by any future undertakings. Based on adherence to this recommendation, a determination of "no historic properties affected" pursuant to Section 106, CFR 800 is proposed for this project.

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2004b Cultural Resource Inventory of Inland Resources Block Survey on Eightmile Flat, Township 9 South, Range 18 East, Sections 9, 10, 11, 14, 15 and 23, Uintah County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report No. U-04-MQ-801b.

APPENDIX A:
INTERMOUNTAIN ANTIQUITIES COMPUTER SYSTEM (IMACS)
SITE INVENTORY FORMS
42Un3669 through 42Un3681

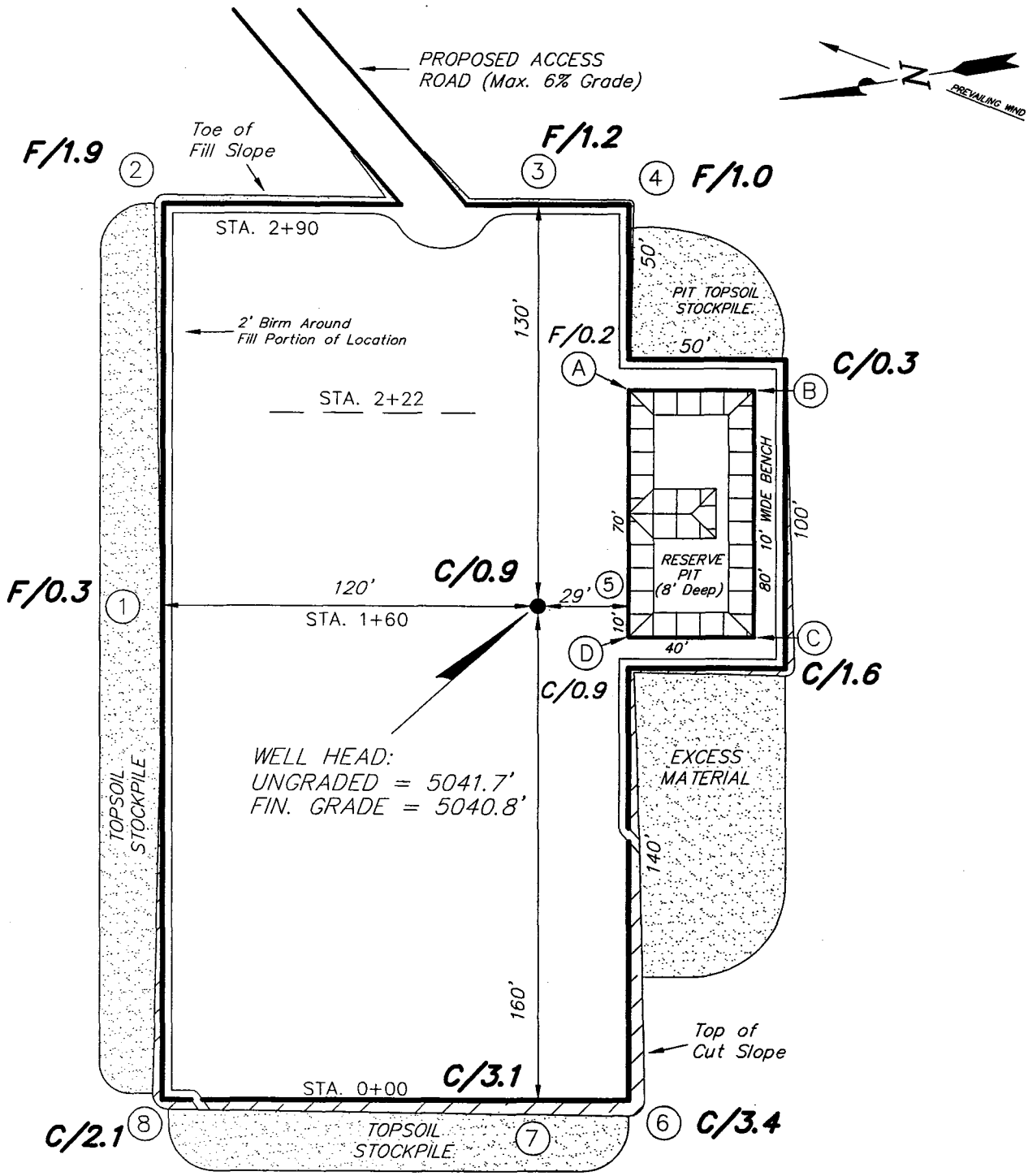
On File At:

Utah Division of State History
Salt Lake City, Utah

INLAND PRODUCTION COMPANY

STATE 15-16-9-18

Section 16, T9S, R18E, S.L.B.&M.



REFERENCE POINTS

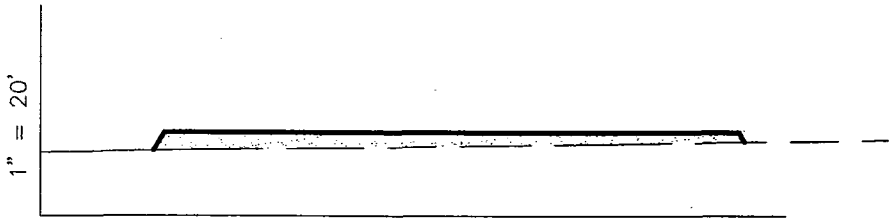
170' NORTH = 5040.3'
220' NORTH = 5040.2'
210' WEST = 5044.5'
260' WEST = 5045.3'

SURVEYED BY: K.G.S.	SCALE: 1" = 50'	Tri State Land Surveying, Inc.	(435) 781-2501
DRAWN BY: F.T.M.	DATE: 5-4-04	180 NORTH VERNAL AVE. VERNAL, UTAH 84078	

INLAND PRODUCTION COMPANY

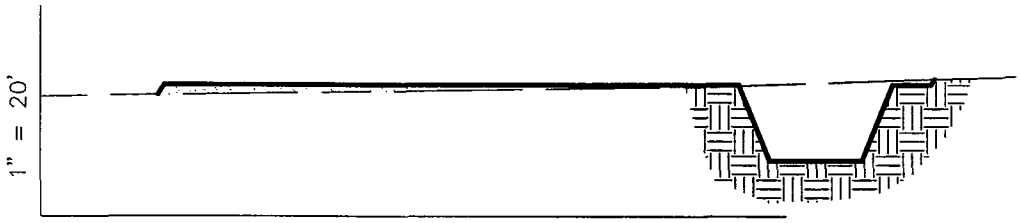
CROSS SECTIONS

STATE 15-16-9-18



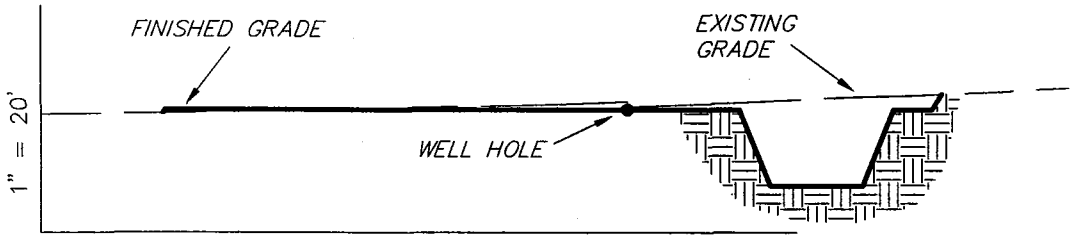
1" = 50'

STA. 2+90



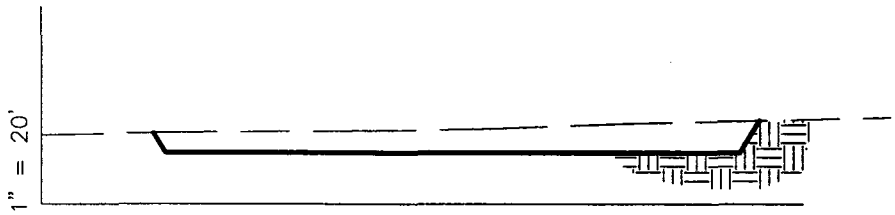
1" = 50'

STA. 2+22



1" = 50'

STA. 1+60



1" = 50'

STA. 0+00

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

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

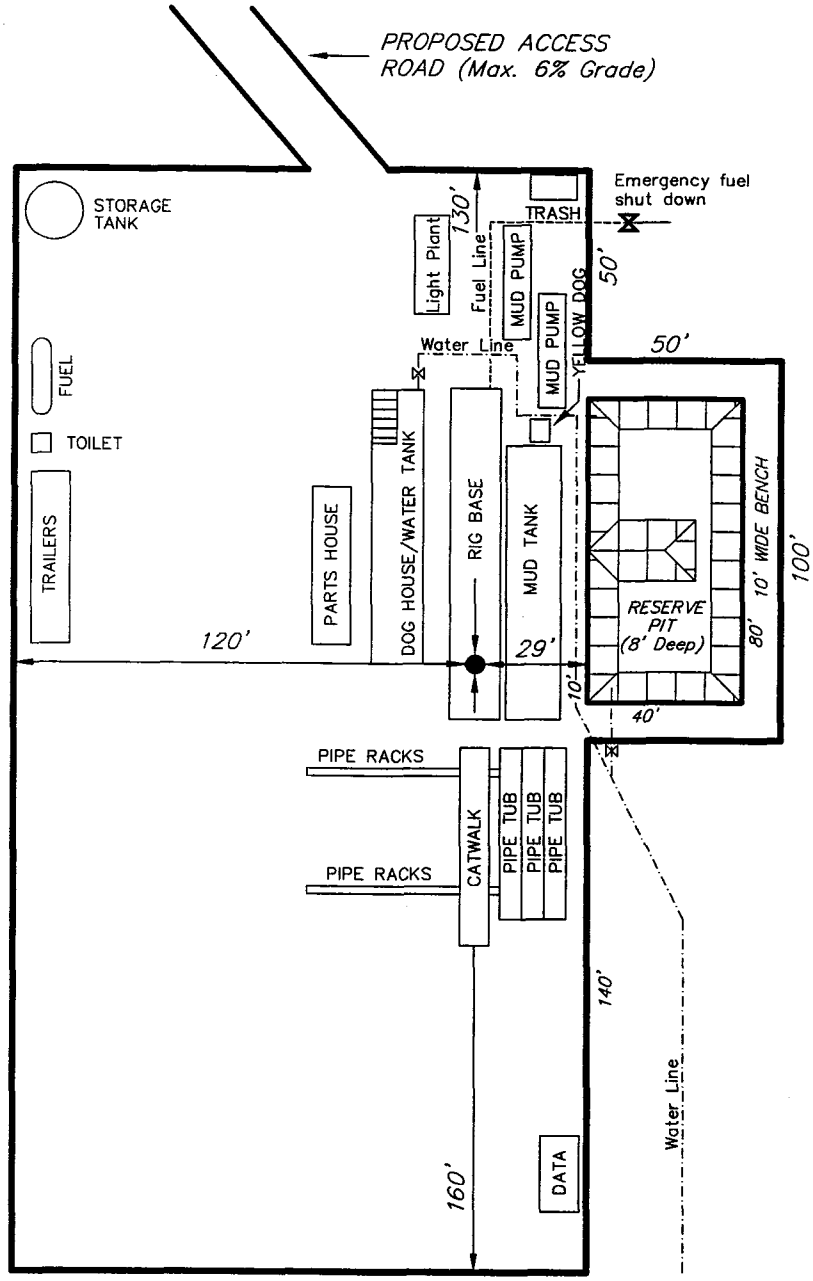
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	900	890	Topsoil is not included in Pad Cut	10
PIT	640	0		640
TOTALS	1,540	890	890	650

SURVEYED BY: K.G.S.	SCALE: 1" = 50'	Tri State Land Surveying, Inc.	(435) 781-2501
DRAWN BY: F.T.M.	DATE: 5-4-04	180 NORTH VERNAL AVE. VERNAL, UTAH 84078	

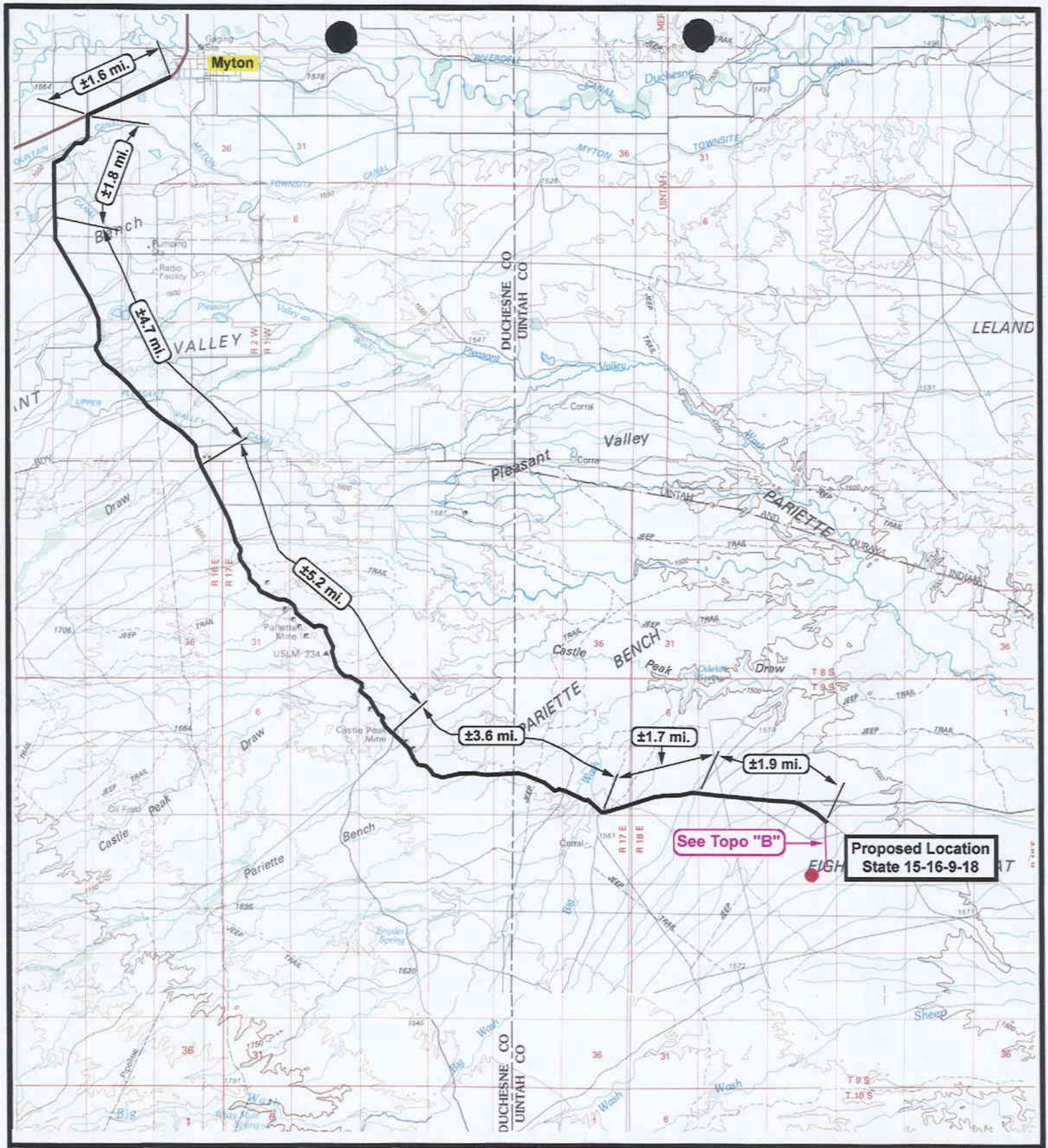
INLAND PRODUCTION COMPANY

TYPICAL RIG LAYOUT

STATE 15-16-9-18



SURVEYED BY: K.G.S.	SCALE: 1" = 50'	Tri State Land Surveying, Inc.	(435) 781-2501
DRAWN BY: F.T.M.	DATE: 5-4-04	180 NORTH VERNAL AVE. VERNAL, UTAH 84078	



Inland RESOURCES INC.

State 15-16-9-18
SEC. 16, T9S, R18E, S.L.B.&M.

N

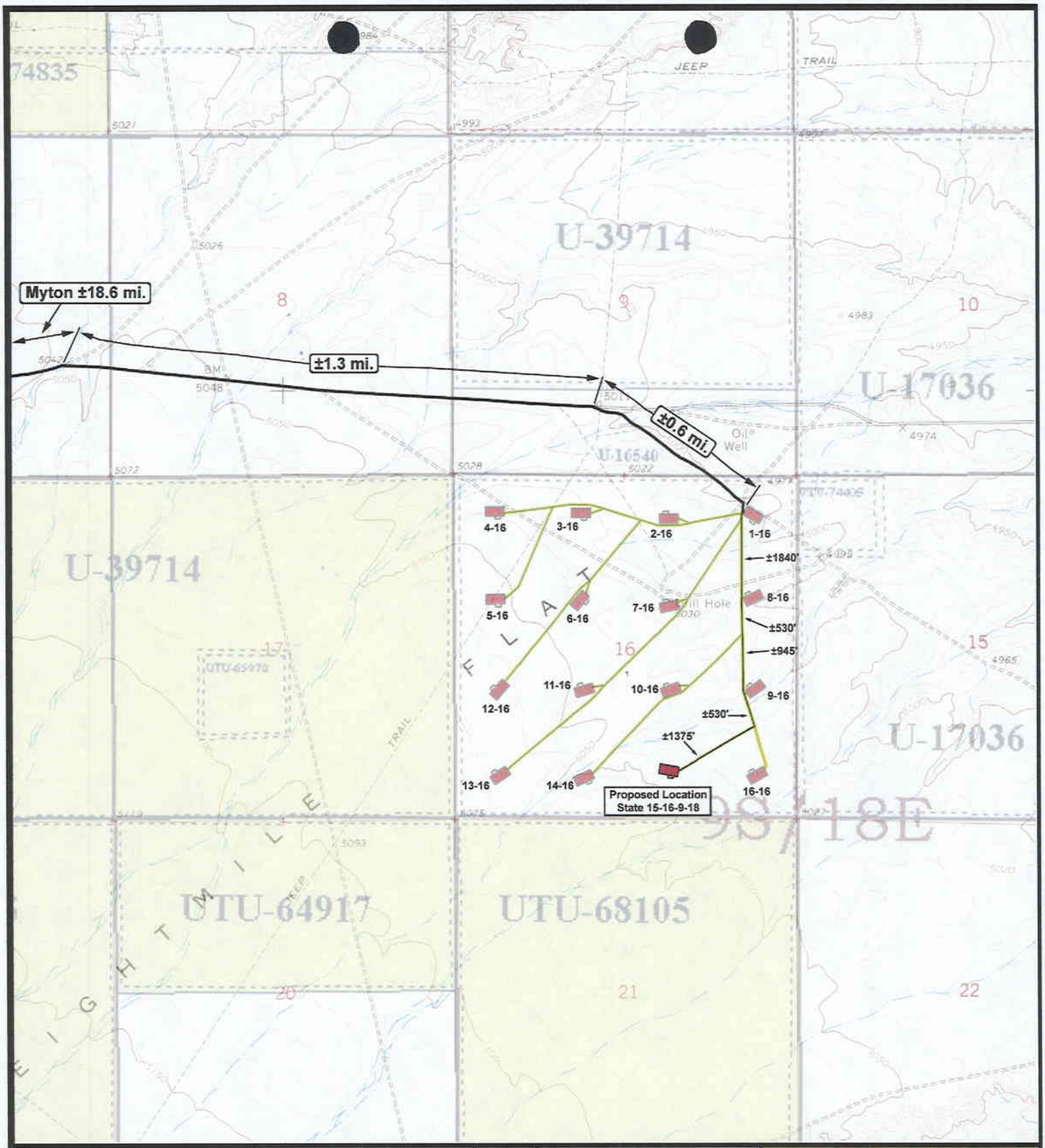
Tri-State Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 2,000
DRAWN BY: bgm
DATE: 06-18-2004

Legend

Existing Road
Proposed Access

TOPOGRAPHIC MAP
"A"



Inland RESOURCES INC.

State 15-16-9-18
SEC. 16, T9S, R18E, S.L.B.&M.

N

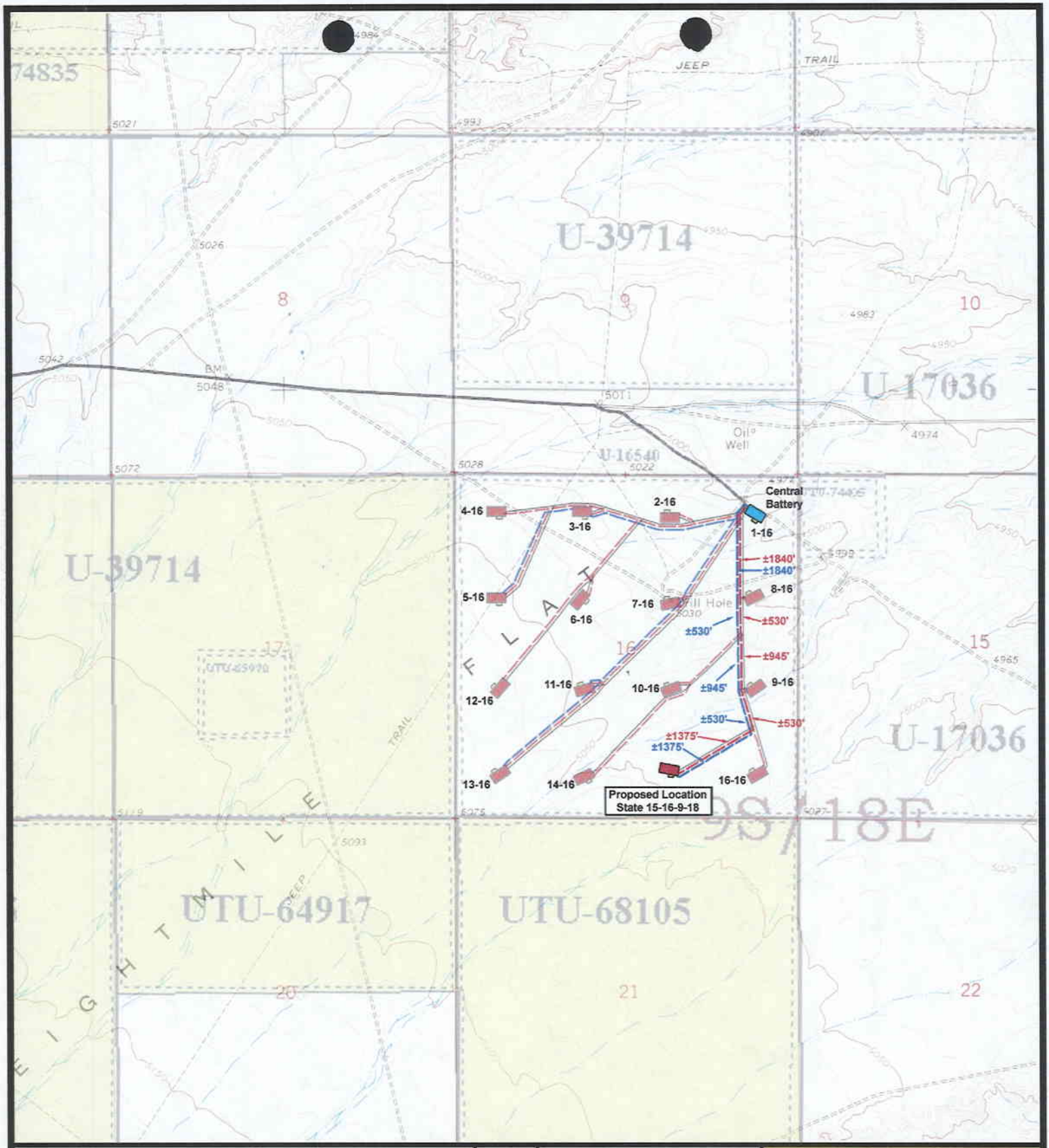
Tri-State Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'
DRAWN BY: bgm
DATE: 06-17-06

Legend

Existing Road
Proposed Access

TOPOGRAPHIC MAP
"B"



Inland RESOURCES INC.

State 15-16-9-18
SEC. 16, T9S, R18E, S.L.B.&M.

N

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

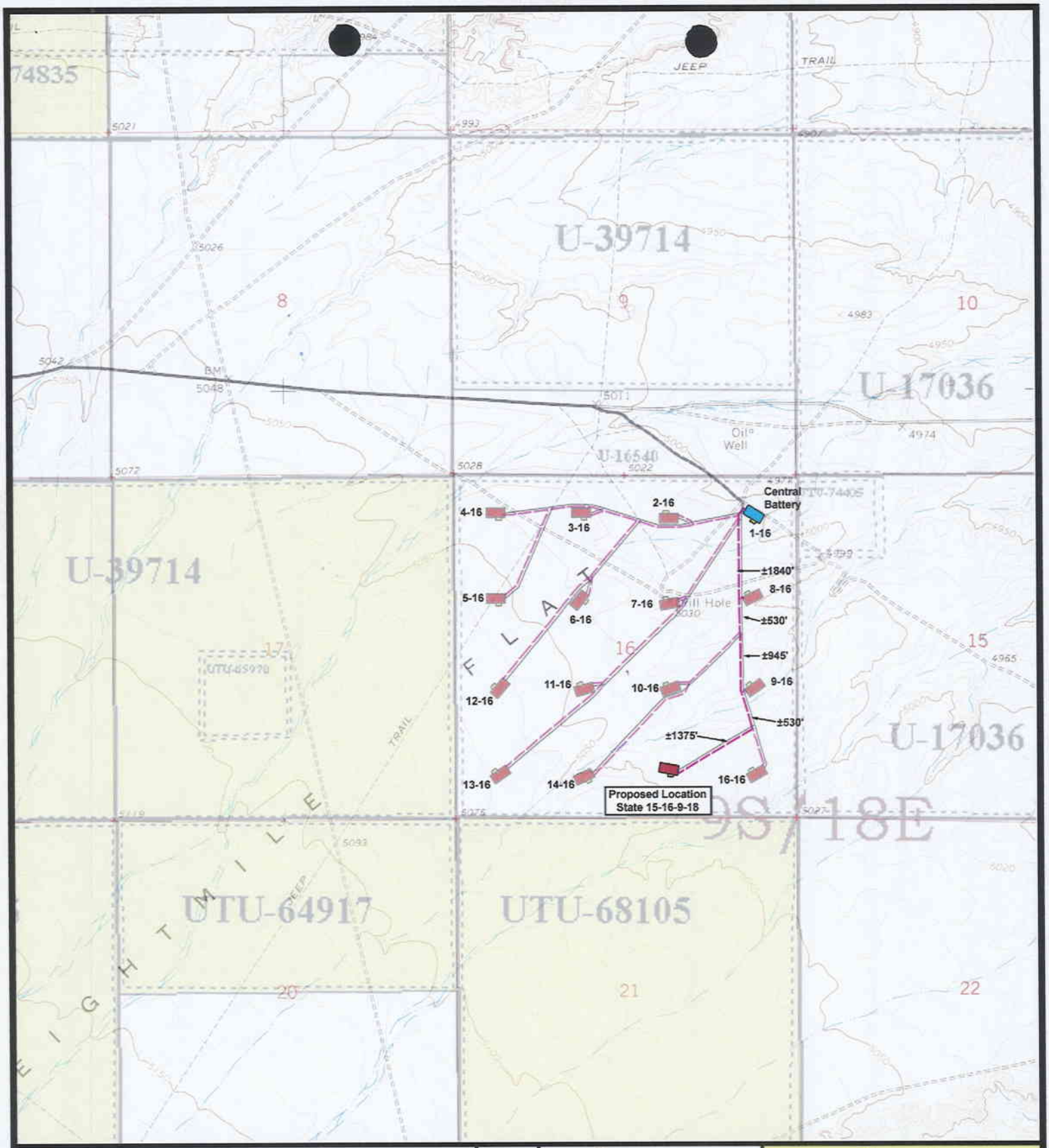
SCALE: 1" = 2,000'
DRAWN BY: bgm
DATE: 06-15-06

Legend

- Roads
- Proposed Gas Line
- Proposed Water Line

TOPOGRAPHIC MAP

"C"



Inland RESOURCES INC.

State 15-16-9-18
SEC. 16, T9S, R18E, S.L.B.&M.

N

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

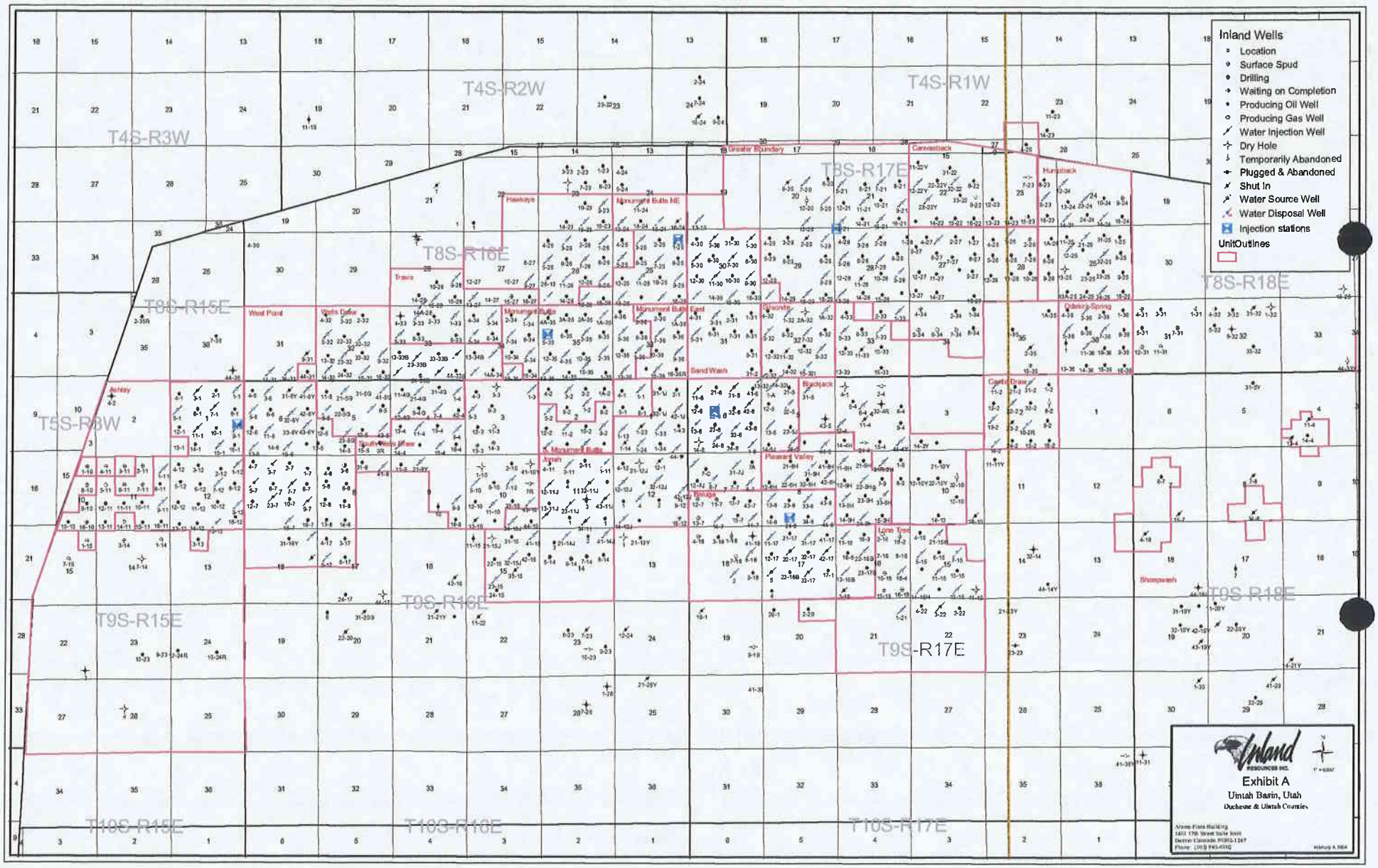
SCALE: 1" = 2,000'
DRAWN BY: bgm
DATE: 06-15-06

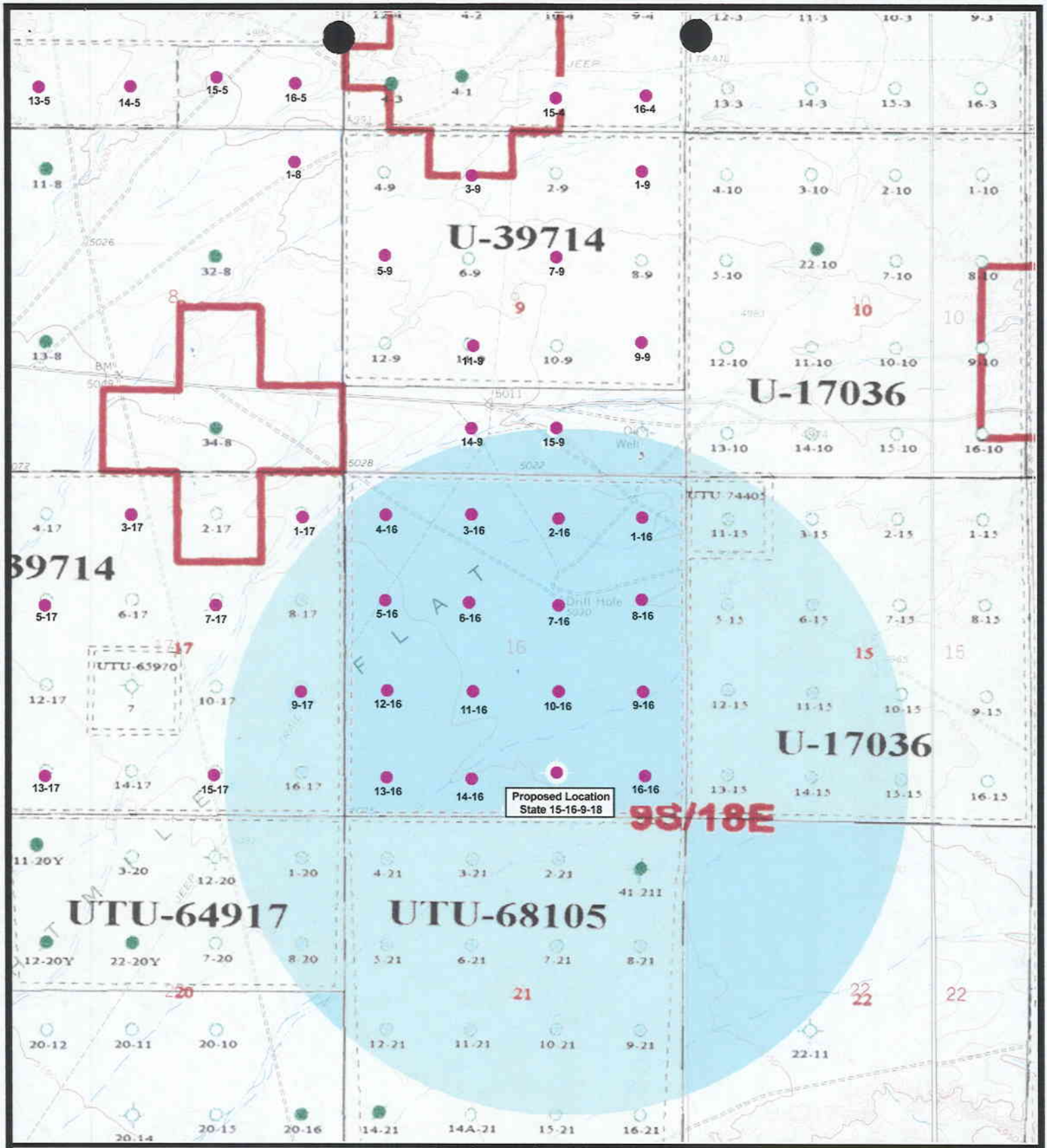
Legend

Roads
Proposed Flow Line

TOPOGRAPHIC MAP

"D"


Inland Wells
Location
Surface Spud
Drilling
Waiting on Completion
Producing Oil Well
Producing Gas Well
Water Injection Well
Dry Hole
Temporarily Abandoned
Plugged & Abandoned
Shut In
Water Source Well
Water Disposal Well
Injection stations
UnitOutlines
T4S-R3W
T4S-R2W
T4S-R1W
T8S-R15E
T8S-R16E
T8S-R17E
T8S-R18E
T5S-R3W
T9S-R15E
T9S-R16E
T9S-R17E
T9S-R18E
T10S-R15E
T10S-R16E
T10S-R17E
Greater Boundary
Canvasback
Hunkback
Hawkeye
Monument Butte NE
Travis
West Point
Wells Draw
Monument Butte East
Beluga
Odekirk Spring
Sand Wash
Ashley
Blackjack
Castle Draw
South Wells Draw
Monument Butte
Jonah
Pleasant Valley
Lone Tree
Shrimpwash
Inland
RESOURCES INC.
Exhibit A
Uintah Basin, Utah
Duchesne & Uintah Counties



Inland RESOURCES INC.

State 15-16-9-18
SEC. 16, T9S, R18E, S.L.B.&M.

N

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

SCALE: 1" = 2,000'
DRAWN BY: bgm
DATE: 06-14-2004

Legend

- Proposed Location
- One-Mile Radius

Exhibit "B"

2-M SYSTEM

Blowout Prevention Equipment Systems

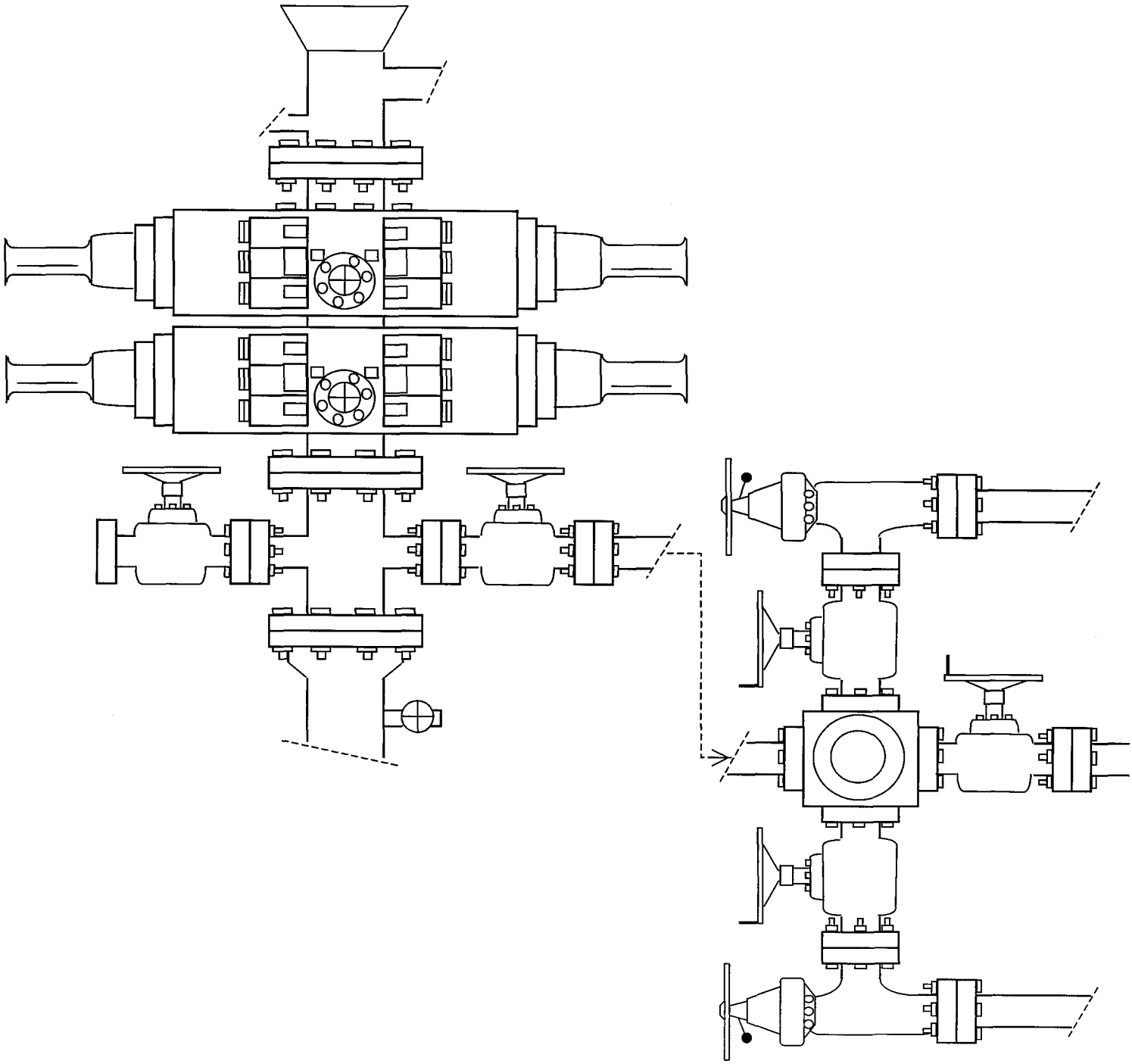


EXHIBIT C

003

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 06/28/2004

API NO. ASSIGNED: 43-047-35826

WELL NAME: STATE 15-16-9-18

OPERATOR: INLAND PRODUCTION (N5160)

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SWSE 16 090S 180E

SURFACE: 0660 FSL 1980 FEL

BOTTOM: 0660 FSL 1980 FEL

UINTAH

8 MILE FLAT NORTH (590)

LEASE TYPE: 3 - State

LEASE NUMBER: ML-48378

SURFACE OWNER: 3 - State

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DKD	8/3/04
Geology		
Surface		

LATITUDE: 40.02547

LONGITUDE: 109.89544

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[] Ind[] Sta[3] Fee[]
(No. ~~4471291~~ 34BSBC04369 ER 8/23/04)

N Potash (Y/N)

N Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. JOHNSON)

N RDCC Review (Y/N)
(Date:)

NA Fee Surf Agreement (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit ___

✓ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells

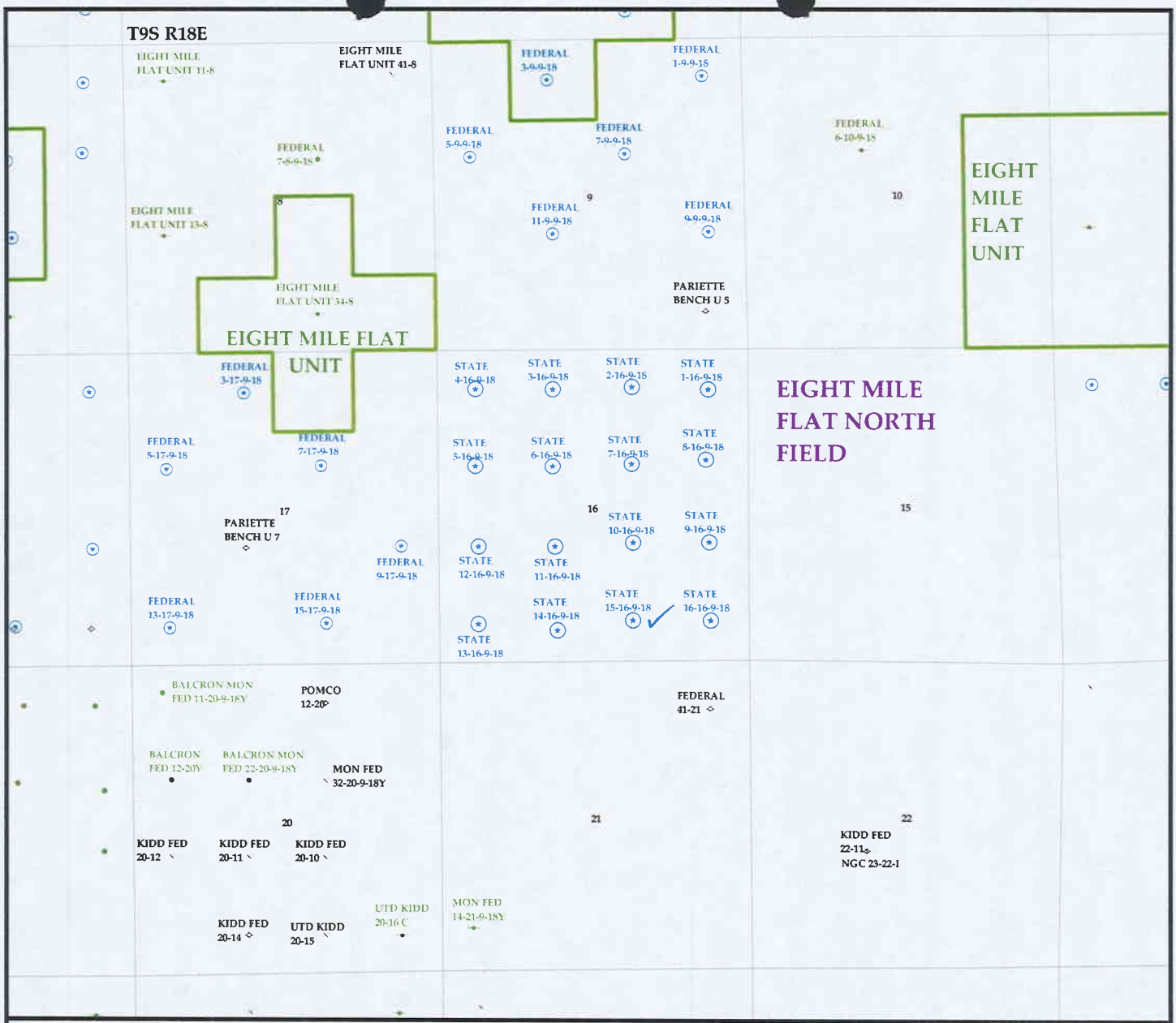
___ R649-3-3. Exception

___ Drilling Unit
Board Cause No: ___
Eff Date: ___
Siting: ___

___ R649-3-11. Directional Drill

COMMENTS: Needs Presite (07-15-04)

STIPULATIONS:
1- Spacing Stip
2- Surface Csg Cmt Stip
3- STATEMENT OF BASIS



OPERATOR: INLAND PROD CO (N5160)

SEC. 16 **T.**9S **R.**18E

FIELD: EIGHT MILE FLAT NORTH (590)

COUNTY: UINTAH

SPACING: R649-3-2 / GENERAL SITING

Utah Oil Gas and Mining

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

Units.shp
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields.shp
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

N W E S

PREPARED BY: DIANA WHITNEY
DATE: 28-JUNE-2004

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

OPERATOR: INLAND PRODUCTION COMPANY
WELL NAME & NUMBER: STATE 15-16-9-18
API NUMBER: 43-047-35826
LOCATION: 1/4,1/4 SW/SE Sec:16 TWP: 9S RNG:18E 1980' FWL 660' FSL

Geology/Ground Water:

Inland proposes to set 290' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 1,000'. 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 surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement program should adequately protect any useable ground water and nearby wells.

Reviewer: Brad Hill **Date:** 07/20/04

Surface:

The predrill investigation of the surface was performed on 7/15/04. This site is on State surface with State minerals. Floyd Bartlett with DWR and Ed Bonner with SITLA were invited to this investigation of 6/30/04. Neither was present, but Mr. Bartlett inspected this site on 7/9/04. He told me over the telephone, and later by E-mail, that his only concern was for prairie dogs living in this area, and that this concern was not significant. He suggested that Inland avoid construction of well pads or access roads between April 1 and June 15 if possible. He also recommended that Inland reseed reserve pits following closure as well as the shoulders of the access roads. He sent Brad Mecham a DWR approved seed mix.

Reviewer: David W. Hackford **Date:** 7/20/04

Conditions of Approval/Application for Permit to Drill:

None.

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

OPERATOR: INLAND PRODUCTION COMPANY
WELL NAME & NUMBER: STATE 15-16-9-18
API NUMBER: 43-047-35826
LEASE: ML-48378 **FIELD/UNIT:** EIGHT MILE FLAT
LOCATION: 1/4,1/4 SW/SE **Sec:** 16 **TWP:** 9S **RNG:** 18E 1980' FEL 660' FSL
LEGAL WELL SITING: 460 F **SEC. LINE;** 460 F **1/4,1/4 LINE;** 460 F **ANOTHER WELL.**
GPS COORD (UTM): 4430963N 12594246E **SURFACE OWNER:** STATE OF UTAH.

PARTICIPANTS

DAVID W. HACKFORD, BART KETTLE (DOGM). BRAD MECHAM, (INLAND).

REGIONAL/LOCAL SETTING & TOPOGRAPHY

SITE IS IN A RELATIVELY FLAT AREA ON EIGHT MILE FLAT, A HUGE BENCH STRETCHING OVER FOUR MILES IN ALL DIRECTIONS. MYTON, UTAH IS 20.5 MILES TO THE NORTHWEST. THE GREEN RIVER IS SIX MILES TO THE SOUTHEAST. DRAINAGE IS VERY SLIGHT AND TO THE NORTHEAST.

SURFACE USE PLAN

CURRENT SURFACE USE: WILDLIFE AND LIVESTOCK GRAZING, HUNTING.

PROPOSED SURFACE DISTURBANCE: LOCATION WILL BE 290' BY 199'. ACCESS ROAD WILL BE 0.3 MILES.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: SEE ATTACHED MAP FROM GIS DATABASE.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: THIS LOCATION WILL HAVE A PUMPJACK AND LINE HEATER. THE CENTRAL BATTERY WILL BE ON THE 1-16-9-18 LOCATION. PIPELINES WILL FOLLOW ACCESS ROAD.

SOURCE OF CONSTRUCTION MATERIAL: ALL CONSTRUCTION MATERIAL WILL BE BORROWED FROM SITE DURING CONSTRUCTION OF LOCATION.

ANCILLARY FACILITIES: NONE WILL BE REQUIRED.

WASTE MANAGEMENT PLAN:

DRILLED CUTTINGS WILL BE SETTLED INTO RESERVE PIT. LIQUIDS FROM PIT WILL BE ALLOWED TO EVAPORATE. FORMATION WATER WILL BE CONFINED TO STORAGE TANKS. SEWAGE FACILITIES, STORAGE AND DISPOSAL WILL BE HANDLED BY COMMERCIAL CONTRACTOR. TRASH WILL BE CONTAINED IN TRASH BASKETS AND HAULED TO AN APPROVED LAND FILL.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: NONE

FLORA/FAUNA: GLOBE MALLOW, SHADSCALE, RUSSIAL THISTLE, RABBIT BRUSH, HORSEBRUSH, PRICKLY PEAR: DEER, SONGBIRDS, RODENTS, RABBITS, PRONGHORN, RAPTORS, PRAIRIE DOG.

SOIL TYPE AND CHARACTERISTICS: LIGHT BROWN SANDY CLAY.

EROSION/SEDIMENTATION/STABILITY: VERY LITTLE NATURAL EROSION. SEDIMENTATION AND STABILITY ARE NOT A PROBLEM AND LOCATION CONSTRUCTION SHOULDN'T CAUSE AN INCREASE IN STABILITY OR EROSION PROBLEMS.

PALEONTOLOGICAL POTENTIAL: NONE OBSERVED.

RESERVE PIT

CHARACTERISTICS: 40' BY 80' AND EIGHT FEET DEEP.

LINER REQUIREMENTS (Site Ranking Form attached): A LINER WILL NOT BE REQUIRED FOR RESERVE PIT.

SURFACE RESTORATION/RECLAMATION PLAN

AS PER SITLA.

SURFACE AGREEMENT: AS PER SITLA.

CULTURAL RESOURCES/ARCHAEOLOGY: SITE WAS INSPECTED BY MONTGOMERY ARCHAEOLOGICAL CONSULTANTS. A COPY OF THIS REPORT WILL BE SUBMITTED TO THE STATE OF UTAH.

OTHER OBSERVATIONS/COMMENTS

THIS PREDRILL INVESTIGATION WAS CONDUCTED ON A HOT, SUNNY DAY.

ATTACHMENTS

PHOTOS OF THIS SITE WERE TAKEN AND PLACED ON FILE.

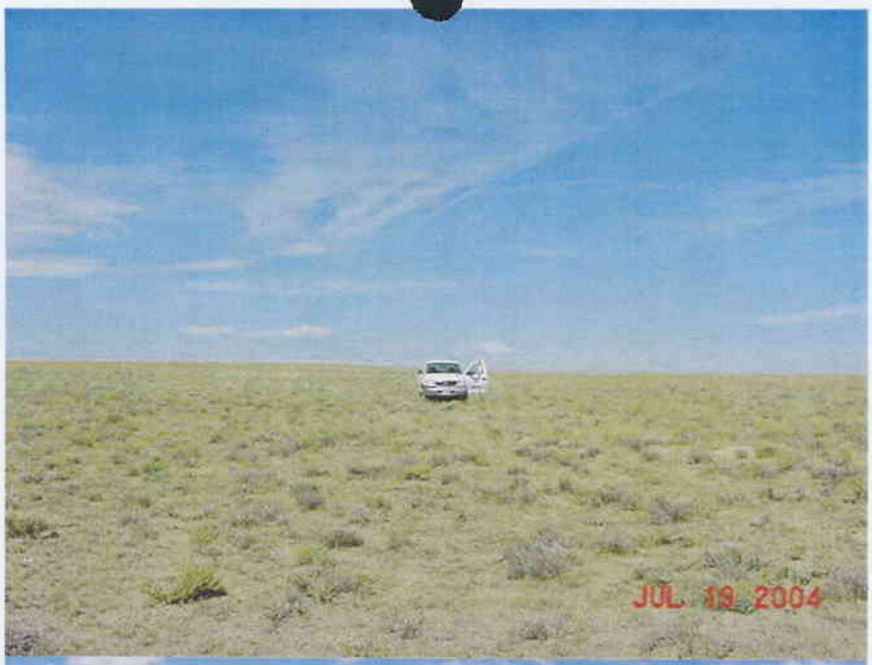
DAVID W. HACKFORD	7/15/04 2:30 PM
DOGM REPRESENTATIVE	DATE/TIME

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

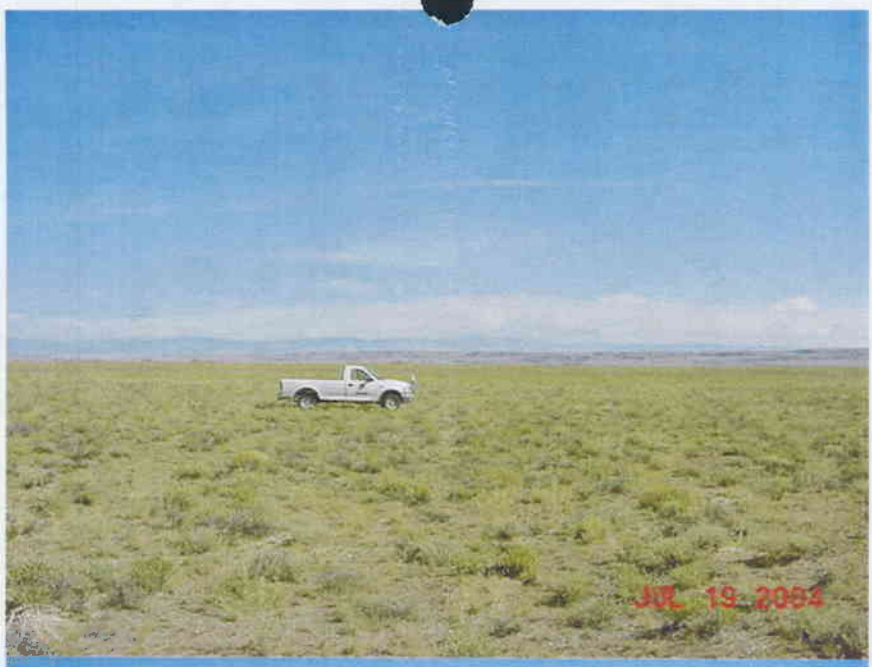
Site-Specific Factors	Ranking	Site Ranking
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	0
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	0
Distance to Nearest Municipal Well (feet)		
>5280	0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

Final Score 15 (Level III Sensitivity)

Sensitivity Level I = 20 or more; total containment is required.
Sensitivity Level II = 15-19; lining is discretionary.
Sensitivity Level III = below 15; no specific lining is required .


JUL 19 2004

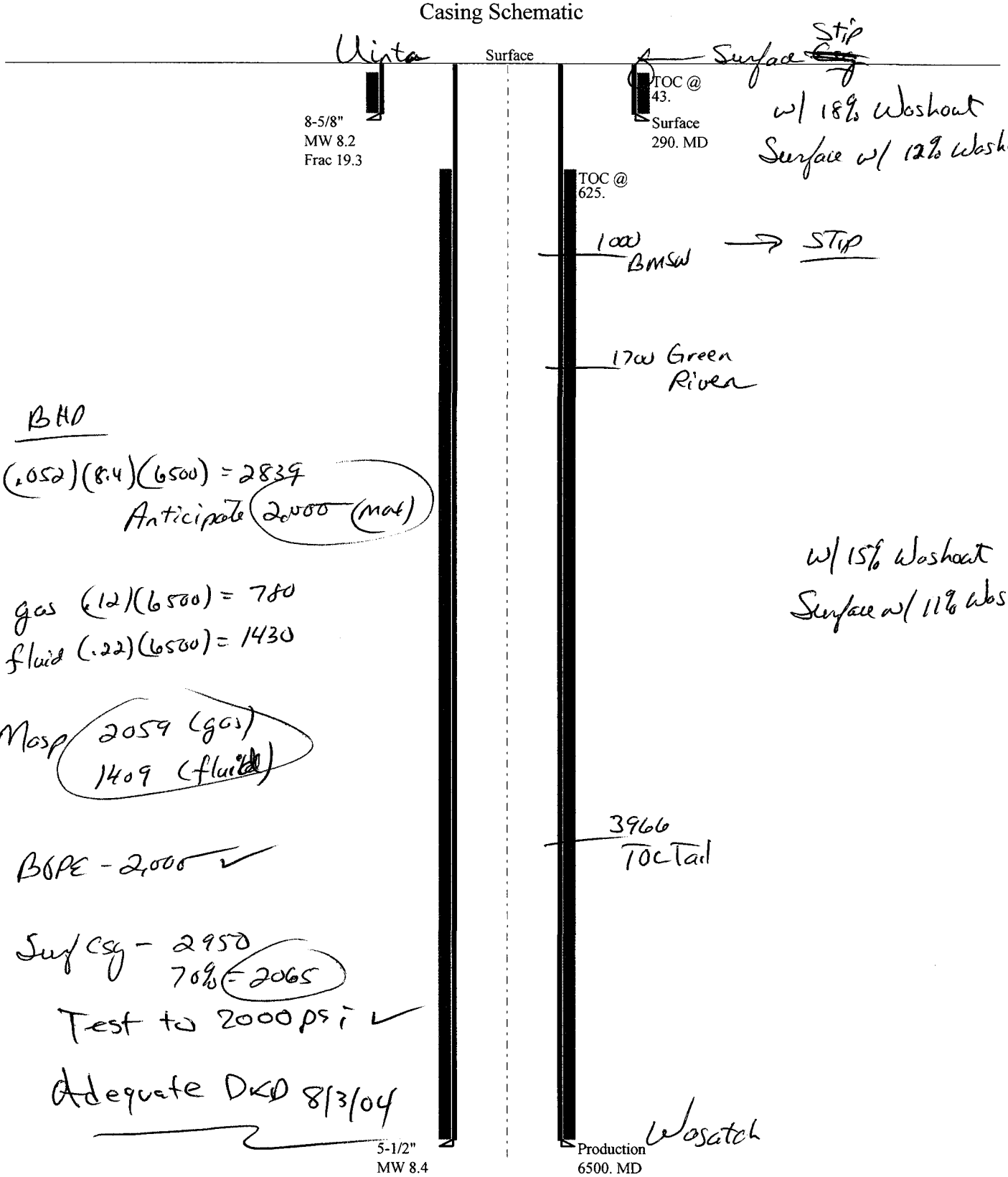
JUL 19 2004


JUL 19 2004

JUL 19 2004

07-04 Inland St 15-16-9-[redacted]

Casing Schematic



Well name:	**07-04 Inland St 15-16-9-18**
Operator:	**Inland Production Company**
String type:	Surface
Location:	Uintah County
Project ID:	43-047-35826

Design parameters:

Collapse

Mud weight: 8.200 ppg
Design is based on evacuated pipe.

Burst

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

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

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

Tension is based on buoyed weight.
Neutral point: 254 ft

Environment:

H2S considered?	No
Surface temperature:	65 °F
Bottom hole temperature:	69 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	290 ft
Cement top:	43 ft

Non-directional string.

Re subsequent strings:

Next setting depth:	6,500 ft
Next mud weight:	8.400 ppg
Next setting BHP:	2,836 psi
Fracture mud wt:	19.250 ppg
Fracture depth:	290 ft
Injection pressure	290 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	290	8.625	24.00	J-55	ST&C	290	290	7.972	14

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	124	1370	11.090	127	2950	23.31	6	244	39.98 J

Prepared by: Clinton Dworshak
Utah Div. of Oil & Mining
Phone: 801-538-5280
FAX: 801-359-3940
Date: July 30,2004
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 290 ft, a mud weight of 8.2 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop,& Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

Well name:	**07-04 Inland St 15-16-9-18**
Operator:	**Inland Production Company**
String type:	Production
Location:	Uintah County
Project ID:	43-047-35826

Design parameters:

Collapse

Mud weight: 8.400 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 0 psi

Internal gradient: 0.436 psi/ft

Calculated BHP 2,836 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

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

Tension is based on air weight.

Neutral point: 5,674 ft

Environment:

H2S considered?	No
Surface temperature:	65 °F
Bottom hole temperature:	156 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	300 ft
Cement top:	625 ft

Non-directional string.

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

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	2836	4040	1.424	2836	4810	1.70	101	202	2.00 J

Prepared by: Clinton Dworshak
Utah Div. of Oil & Mining
Phone: 801-538-5280
FAX: 801-359-3940

Date: July 30,2004
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 6500 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

State of Utah

Department of Natural Resources

ROBERT L. MORGAN
Executive Director

Division of Oil, Gas & Mining

LOWELL P. BRAXTON
Division Director

OLENE S. WALKER
Governor

GAYLE F. McKEACHNIE
Lieutenant Governor

August 4, 2004

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

Re: State 15-16-9-18 Well, 660' FSL, 1980' FEL, SW SE, Sec. 16, T. 9 South, R. 18 East, Uintah County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-35826.

Sincerely,

John R. Baza
Associate Director

pab
Enclosures

cc: Uintah County Assessor
SITLA

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

Utah!
Where ideas connect™

Operator: Inland Production Company

Well Name & Number State 15-16-9-18

API Number: 43-047-35826

Lease: ML-48378

Location: SW SE **Sec.** 16 **T.** 9 South **R.** 18 East

Conditions of Approval

1. **General**
   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. **Notification Requirements**
   The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:
   - 24 hours prior to cementing or testing casing
   - 24 hours prior to testing blowout prevention equipment
   - 24 hours prior to spudding the well
   - within 24 hours of any emergency changes made to the approved drilling program
   - prior to commencing operations to plug and abandon the well

   The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):
   - Dan Jarvis at (801) 538-5338
   - Carol Daniels at (801) 538-5284 (spud)

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

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

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

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

7. Surface casing shall be cemented to the surface.

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

Geoffrey S. Connor
Secretary of State

Office of the Secretary of State

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

Newfield Production Company
Filing Number: 41530400

Articles of Amendment September 02, 2004

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

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

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW
3. FILE

005

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

CA No. **Unit:**

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	
FEDERAL 15-31-8-18	31	080S	180E	4304735831		Federal	OW	NEW	K
STATE 7-2-9-18	02	090S	180E	4304735787		State	OW	APD	K
FEDERAL 13-9-9-18	09	090S	180E	4304735840		Federal	OW	APD	K
FEDERAL 14-9-9-18	09	090S	180E	4304735841		Federal	OW	APD	K
STATE 1-16-9-18	16	090S	180E	4304735811	14390	State	OW	P	K
STATE 2-16-9-18	16	090S	180E	4304735812		State	OW	APD	K
STATE 3-16-9-18	16	090S	180E	4304735813	99999	State	OW	DRL	K
STATE 4-16-9-18	16	090S	180E	4304735814		State	OW	APD	K
STATE 5-16-9-18	16	090S	180E	4304735815		State	OW	APD	K
STATE 6-16-9-18	16	090S	180E	4304735816		State	OW	APD	K
STATE 7-16-9-18	16	090S	180E	4304735817		State	OW	NEW	K
STATE 8-16-9-18	16	090S	180E	4304735818		State	OW	APD	K
STATE 9-16-9-18	16	090S	180E	4304735819		State	OW	DRL	K
STATE 10-16-9-18	16	090S	180E	4304735820		State	OW	APD	K
STATE 11-16-9-18	16	090S	180E	4304735822		State	OW	DRL	K
STATE 12-16-9-18	16	090S	180E	4304735823		State	OW	APD	K
STATE 13-16-9-18	16	090S	180E	4304735824		State	OW	APD	K
STATE 14-16-9-18	16	090S	180E	4304735825		State	OW	NEW	K
STATE 15-16-9-18	16	090S	180E	4304735826		State	OW	APD	K
STATE 16-16-9-18	16	090S	180E	4304735827		State	OW	APD	K

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 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**

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.
ML-48378

1. **SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use "APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

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

OIL WELL [ ] GAS WELL [ ] OTHER [X]

7. UNIT AGREEMENT NAME
SUNDANCE

2. NAME OF OPERATOR
NEWFIELD PRODUCTION COMPANY

8. WELL NAME and NUMBER
STATE 15-16-9-18

3. ADDRESS AND TELEPHONE NUMBER
Rt. 3 Box 3630, Myton Utah 84052
435-646-3721

9 API NUMBER
43-047-35826

4. LOCATION OF WELL

Footages 660 FSL 1980 FEL

QQ, SEC, T, R, M: SW/SE Section 16, T9S R18E

10 FIELD AND POOL, OR WILDCAT
EIGHT MILE FLAT NORTH

COUNTY UINTAH
STATE UTAH

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

NOTICE OF INTENT: (Submit in Duplicate)		SUBSEQUENT REPORT OF: (Submit Original Form Only)	
[ ] ABANDON	[ ] NEW CONSTRUCTION	[ ] ABANDON*	[ ] NEW CONSTRUCTION
[ ] REPAIR CASING	[ ] PULL OR ALTER CASING	[ ] REPAIR CASING	[ ] PULL OR ALTER CASING
[ ] CHANGE OF PLANS	[ ] RECOMPLETE	[ ] CHANGE OF PLANS	[ ] RECOMPLETE
[ ] CONVERT TO INJECTION	[ ] REPERFORATE	[ ] CONVERT TO INJECTION	[ ] REPERFORATE
[ ] FRACTURE TREAT OR ACIDIZE	[ ] VENT OR FLARE	[ ] FRACTURE TREAT OR ACIDIZE	[ ] VENT OR FLARE
[ ] MULTIPLE COMPLETION	[ ] WATER SHUT OFF	[ ] OTHER	
[X] OTHER Permit Extension		DATE WORK COMPLETED	

Report results of Multiple Completion and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.
*Must be accompanies by a cement verification report.

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

Newfield Inland Production Company requsts to extend the Permit to Drill this well for one year. The original approval date was 8/4/04 (expiration 8/4/05).

COPY SENT TO OPERATOR
Date: 8-3-05
Initials: CHD

13.
NAME & SIGNATURE: Mandie Crozier TITLE Regulatory Specialist DATE 7/26/2005
Mandie Crozier

(This space for State use only)

4/94 * See Instructions On Reverse Side

Approved by the
Utah Division of
Oil, Gas and Mining
Date: 08-02-05
By:

RECEIVED
AUG 01 2005
DIV. OF OIL, GAS & MINING

DRAFT

Application for Permit to Drill
Request for Permit Extension
Validation
(this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-35826
Well Name: State 15-16-9-18
Location: SW/SE Section 16, T9S R18E
Company Permit Issued to: Newfield Production Company
Date Original Permit Issued: 8/4/2004

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

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

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

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

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

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

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

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

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

Mandie Crozier
Signature

7/28/05
Date

Title: Regulatory Specialist

Representing: Newfield Production Company

RECEIVED
AUG 0 1 2005
DIV. OF OIL, GAS & MINING

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

September 14, 2007

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

Re: APD Rescinded –State 15-16-9-18 Sec. 16 T. 9S R. 18E
Uintah County, Utah API No. 43-047-35826

Dear Ms. Crozier:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on August 4, 2004. On August 2, 2005 and August 24, 2006 the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective September 14, 2007.

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

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

Sincerely,

Diana Mason
Environmental Scientist

cc: Well File
SITLA, Ed Bonner

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR OIL, GAS & MINING