

April 12, 2000

United States Department of Interior
Bureau of Land Management - Vernal District Office
Attention: Margie Herrmann
170 South 500 East
Vernal, Utah 84078-2799

RE: Odekirk Springs 1A-35-8-17
NENE Section 35-T8S, R17E
Odekirk Springs 15-35-8-17
SWSE Section 35, T8S, R17E
Uintah County, Utah

Dear Ms. Herrmann:

Enclosed please find the two Applications for Permits to Drill the Odekirk Springs wells listed above, submitted in triplicate, for your review and approval. The Archeological Surveys and Paleontological Surveys for Section 35, T8S, R17E are also enclosed.

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

Sincerely,

Joyce McGough
Regulatory Technician

Enclosures: Form 3160-3 and attachments (3 copies)

cc: State of Utah
Division of Oil, Gas & Mining
ATTN: Lisha Cordova
1594 West North Temple – Suite 1210
Post Office Box 145801
Salt Lake City, Utah 84114-5801

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OIL, GAS AND MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.	U-40026
6. IF INDIAN, ALOTTEE OR TRIBE NAME	N/A
7. UNIT AGREEMENT NAME	N/A
8. FARM OR LEASE NAME	Odekirk Springs
9. WELL NO.	1A-35-8-17
10. FIELD AND POOL OR WILDCAT	Monument Butte
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Section 35-T8S-R17E
12. County	Uintah
13. STATE	UT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL DEEPEN

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

2. NAME OF OPERATOR
Inland Production Company

3. ADDRESS OF OPERATOR
410 - 17th Street, Suite 700, Denver, CO 80202 Phone: (303) 893-0102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At Surface **NENE 660' FNL & 660' FEL**
At proposed Prod. Zone **4436911N
588169E**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 15.8 miles from Myton, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
660' f/unit line & 660' f/lse line		40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.	19. PROPOSED DEPTH	20. ROTARY OR CABLE TOOLS
Approximately 1320'	6500'	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5097' GR

22. APPROX. DATE WORK WILL START*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Refer to Monument Butte Field SOP's Drilling Program/Casing Design				

Inland Production Company proposes to drill this well in accordance with the attached exhibits.
The Conditions of Approval are also attached.

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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data 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.

24. SIGNED Jon Holst TITLE **Counsel** DATE **4/11/00**

(This space for Federal or State office use)

PERMIT NO. 43-047-33549 APPROVAL DATE _____
Application approval does not warrant or certify that the applicant holds legal or equitable title to the lands in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY Bradley G. Hill TITLE **BRADLEY G. HILL** DATE 6/12/00
RECLAMATION SPECIALIST III

Federal Approval of this Action is Necessary

*See Instructions On Reverse Side

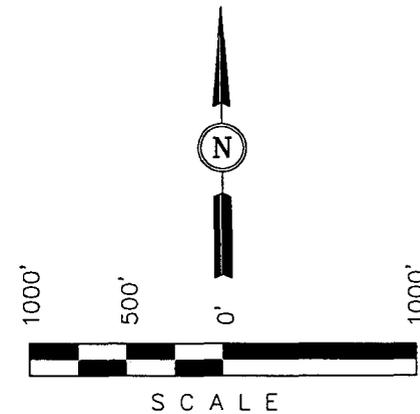
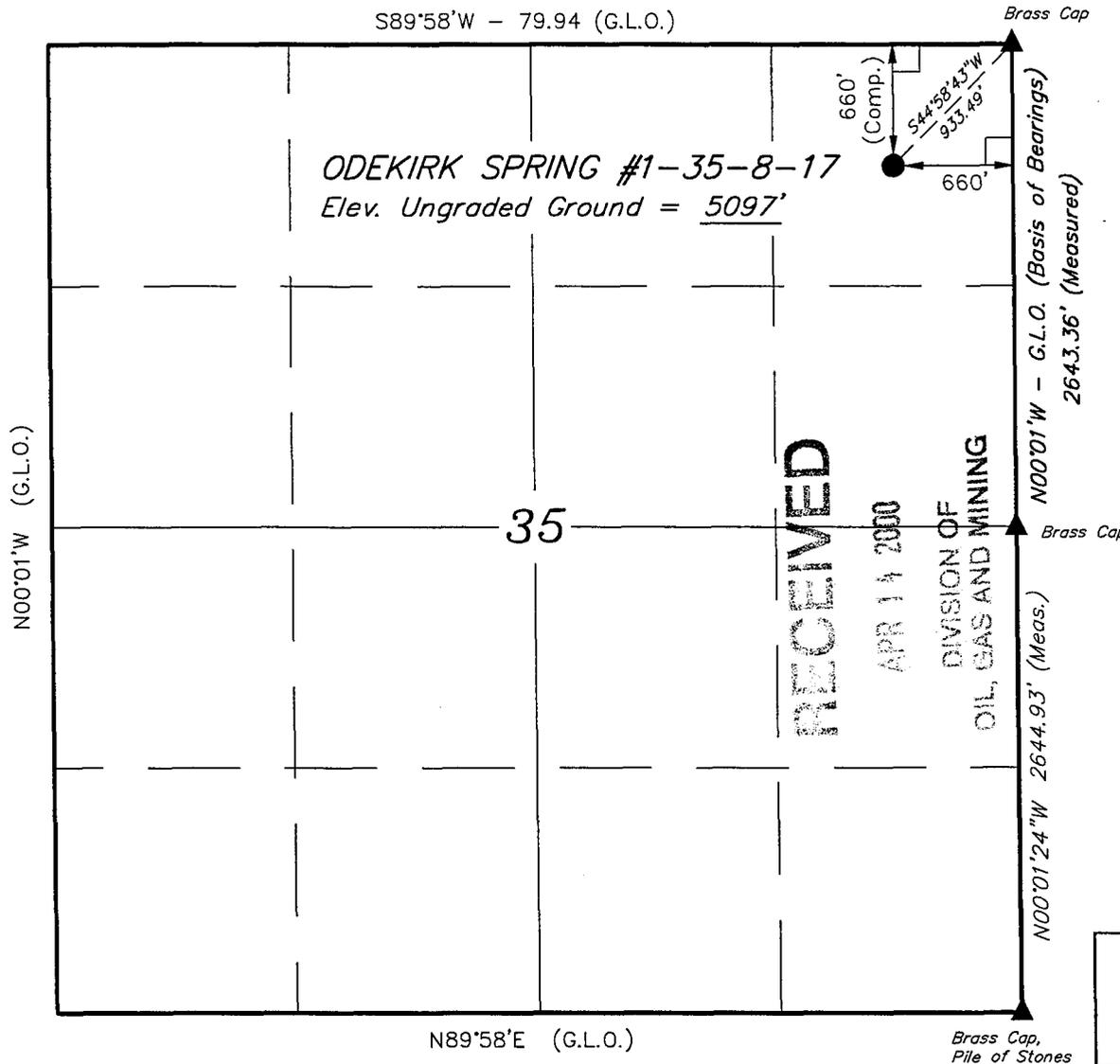
INLAND PRODUCTION CO.

T8S, R17E, S.L.B.&M.

Well location, ODEKIRK SPRING #1-35-8-17, located as shown in the NE 1/4 NE 1/4 of Section 35, T8S, R17E, S.L.B.&M. Uintah, County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHEAST CORNER OF SECTION 35, T8S, R17E, S.L.B.&M. TAKEN FROM THE PARIETTE DRAW QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5034 FEET.



CERTIFICATE

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

Robert L. Kay
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH KAY

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

UINTAH ENGINEERING & LAND SURVEYING		
85 SOUTH 200 EAST - VERNAL, UTAH 84078		
(435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 12-18-97	DATE DRAWN: 1-30-98
PARTY G.S. K.R. J.F. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE INLAND PRODUCTION CO.	

INLAND PRODUCTION COMPANY
ODEKIRK SPRINGS 1A-35-8-17
NE/NE SEC 35, T8S, R17E
UINTAH COUNTY, UTAH

ONSHORE ORDER NO. 1

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:

Please refer to the Monument Butte Field SOP.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "F".

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

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.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

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INLAND PRODUCTION COMPANY
ODEKIRK SPRINGS 1A-35-8-17
NE/NE SEC 35, T8S, R17E
UINTAH COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Inland Production Company well location site for the Odekirk Springs #1A-35-8-17, NE/NE of Section 35, T8S, R17E, Uintah County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 approximately 1.5 miles to the junction of this highway and Utah State Highway 216; proceed southerly and then southeasterly along Utah State Highway 216 approximately 10.6 miles; then proceed northeasterly 3.7 miles to the start of the proposed access road; proceed northerly approximately 100' to the proposed well site.

2. PLANNED ACCESS ROAD

See Topographic Map "B" for the location of the proposed access road.

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "D"

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. LOCATION AND TYPE OF WATER SUPPLY

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

7. METHODS FOR HANDLING WASTE DISPOSAL

Please refer to the Monument Butte Field SOP. See Exhibit "E".

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8. **ANCILLARY FACILITIES:**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT:**

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s) and surface material stockpile(s). Refer to Exhibits "E" and "E-1".

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

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP:** Bureau of Land Management

12. **OTHER ADDITIONAL INFORMATION:**

The Archaeological Cultural Resource Survey is attached.

Inland Production Company requests a 60' ROW for the Odekirk Springs #1A-35-8-17 to allow for construction of a 6" poly gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. Refer to Topographic Map "C".

Inland Production Company also requests a 60' ROW be granted for the Odekirk Springs #1A-35-8-17 to allow for construction of a 3" steel water injection line and a 3" poly water return line. Refer to Topographic Map "C".

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

Representative

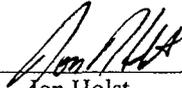
Name: Jon Holst
Address: 410 Seventeenth Street
Suite 700
Denver, CO 80202
Telephone: (303) 893-0102

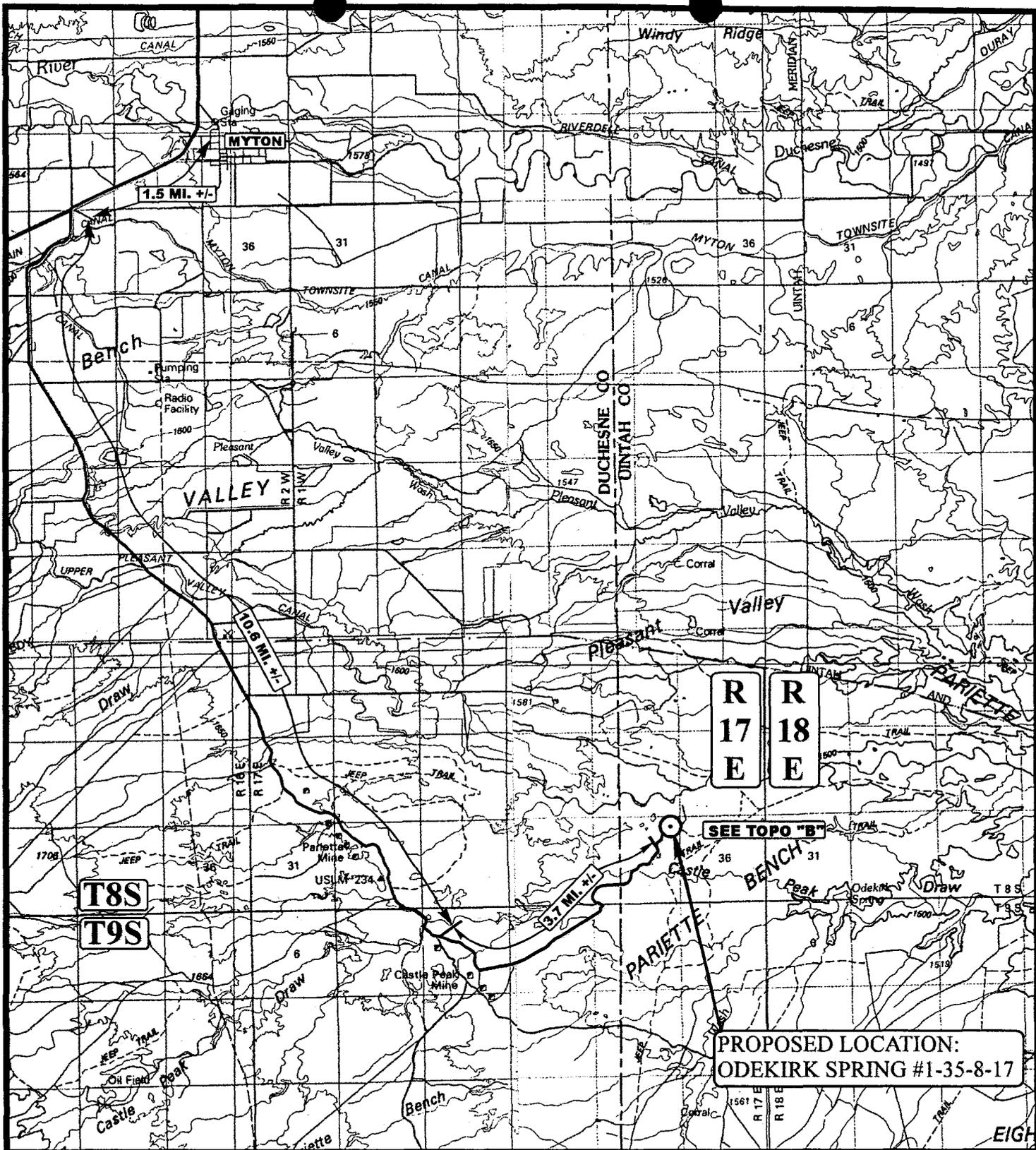
Certification

Please be advised that INLAND RESOURCES, INC. is considered to be the operator of the Odekirk Springs #1A-35-8-17, NE/NE Sec. 35, T8S, R17E, 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 #4488944.

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.

4/06/00
Date


Jon Holst
Counsel



⊙ PROPOSED LOCATION



INLAND PRODUCTION CO.

ODEKIRK SPRING #1-35-8-17
SECTION 35, T8S, R17E, S.L.B.&M.
660' FNL 660' FEL



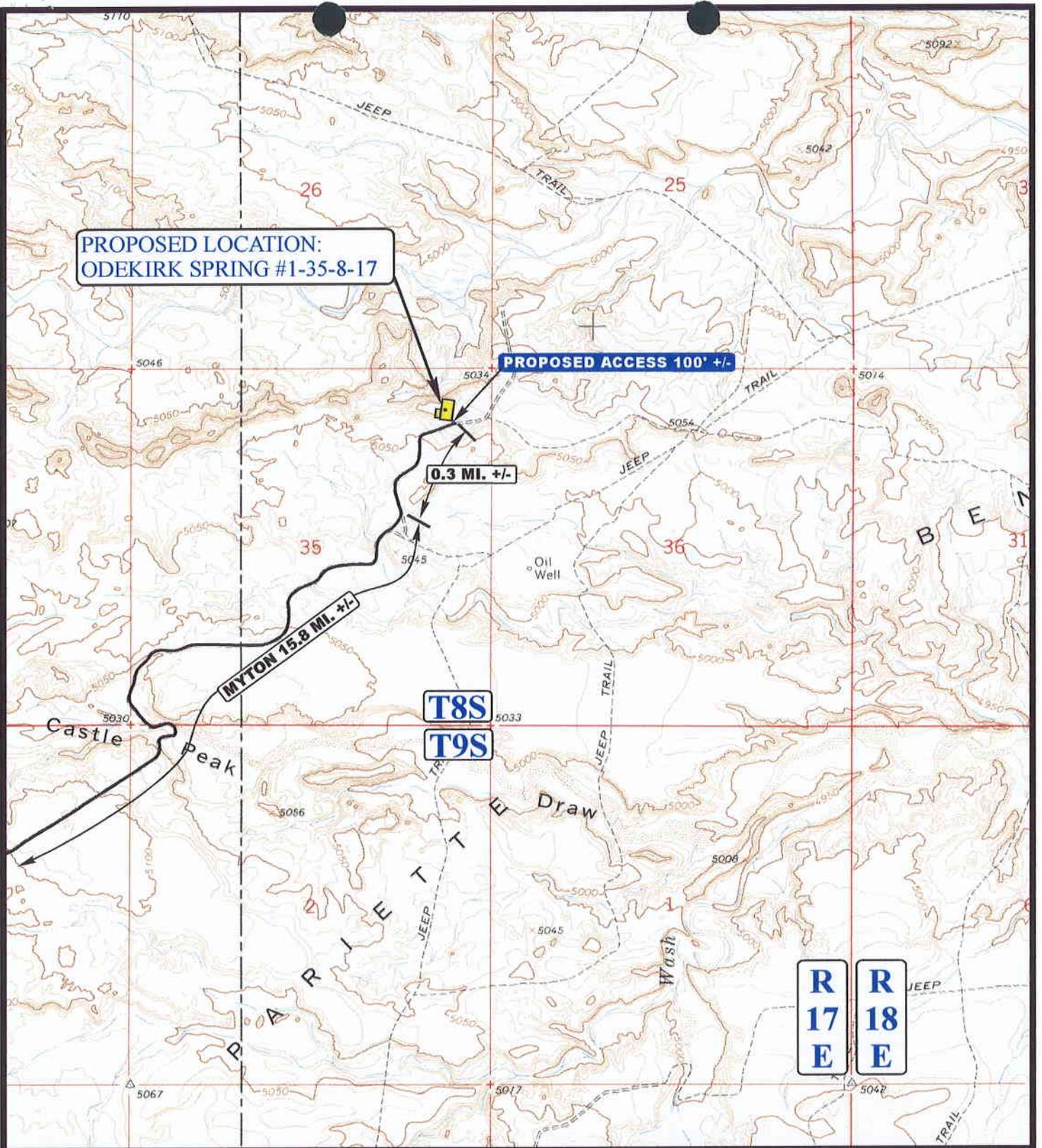
Utah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

1 29 98
 MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.G. REVISED: 00-00-00





**PROPOSED LOCATION:
ODEKIRK SPRING #1-35-8-17**

PROPOSED ACCESS 100' +/-

0.3 MI. +/-

MYTON 15.8 MI. +/-

T8S

T9S

**R
17
E**

**R
18
E**

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING ROAD

INLAND PRODUCTION CO.

**ODEKIRK SPRING #1-35-8-17
SECTION 35, T8S, R17E, S.L.B.&M.
660' FNL 660' FEL**



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



**TOPOGRAPHIC
MAP**

1	29	98
MONTH	DAY	YEAR

SCALE: 1" = 2000' DRAWN BY: C.G. REVISED: 00-00-00



S/17E

27

26

34

35

23-34

23-34

44-34

1A-35

1-35

2-35

14-24

24-24

34-24

11-25

21-25

31-25

12-25

22-25

32-25

13-25

23-25

33-25

24-25

34-25

4-36

3-36

2-36

5-36

6-36

7-36

11-36

36

13-36

14-36

11-2

21-2

31-2

1-2

12-2

22-2

32-2

8-2

13-2

23-2

10-2R

14-2

24-2

15-2

16-2

3

2-3

3-7

3-8

1-3

3-11

14-3Y

24-3Y

1



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EXHIBIT D

INLAND PRODUCTION COMPANY

One Mile Radius
Odekirk Spring #1A-35-8-17

Josh Aschew

Scale 1:3015764

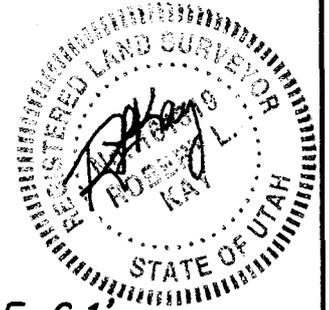
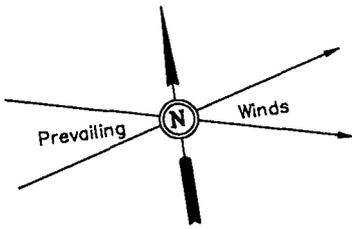
3/31/2000

INLAND PRODUCTION CO.

LOCATION LAYOUT FOR

ODEKIRK SPRING #1-35-8-17
SECTION 35, T8S, R17E, S.L.B.&M.
660' FNL 660' FEL

EXHIBIT E



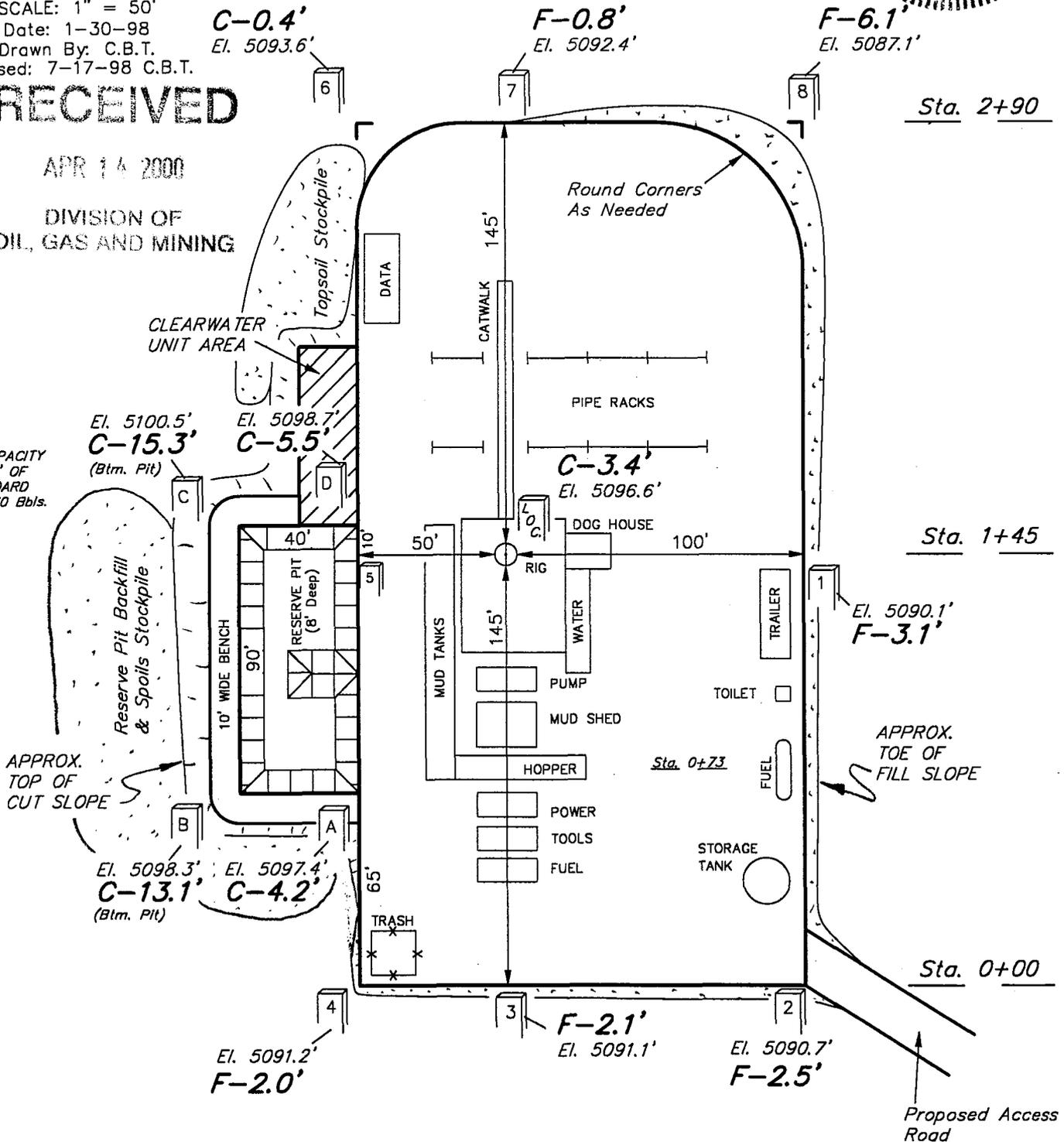
SCALE: 1" = 50'
Date: 1-30-98
Drawn By: C.B.T.
Revised: 7-17-98 C.B.T.

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NOTE:
PIT CAPACITY
WITH 2' OF
FREEBOARD
= 2,030 Bbls.



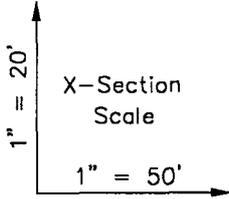
Elev. Ungraded Ground at Location Stake = 5096.6'
Elev. Graded Ground at Location Stake = 5093.2'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

INLAND PRODUCTION CO.

TYPICAL CROSS SECTIONS FOR

ODEKIRK SPRING #1-35-8-17
SECTION 35, T8S, R17E, S.L.B.&M.
660' FNL 660' FEL



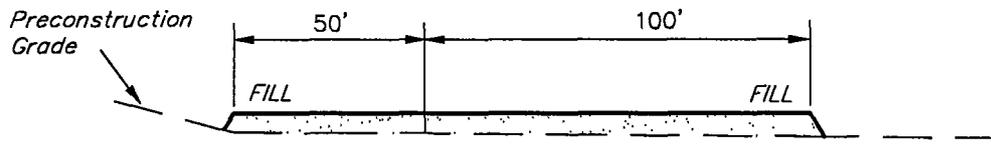
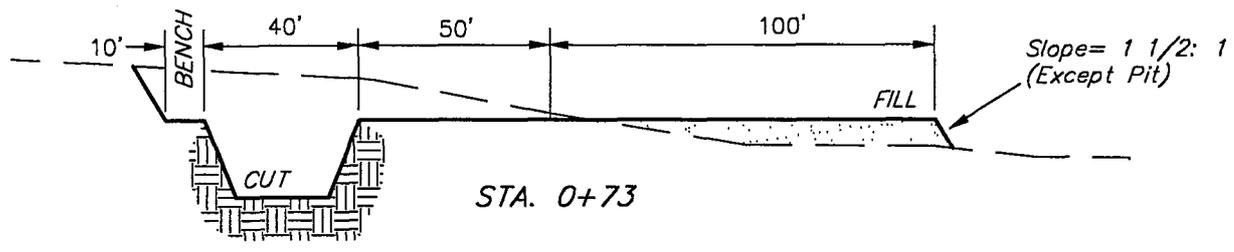
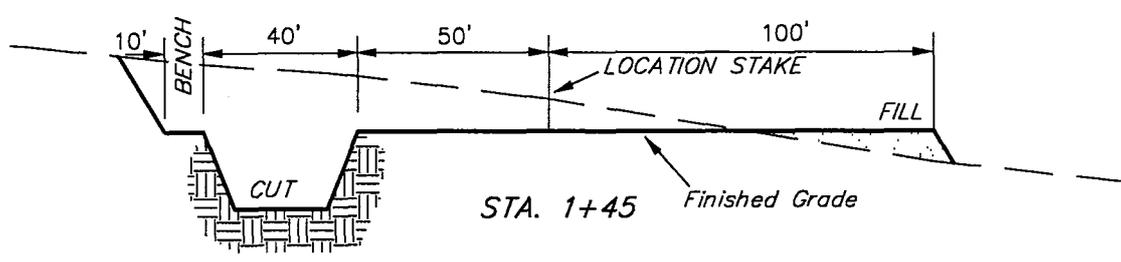
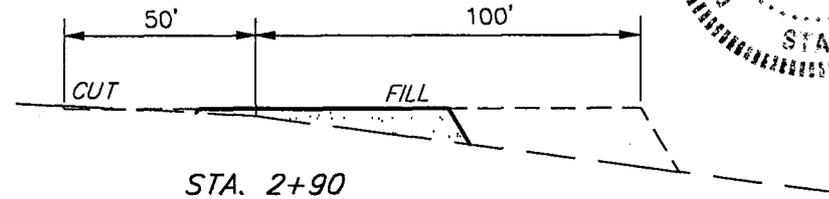
Date: 1-30-98
Drawn By: C.B.T.
Revised: 7-17-98 C.B.T.

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NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

CUT

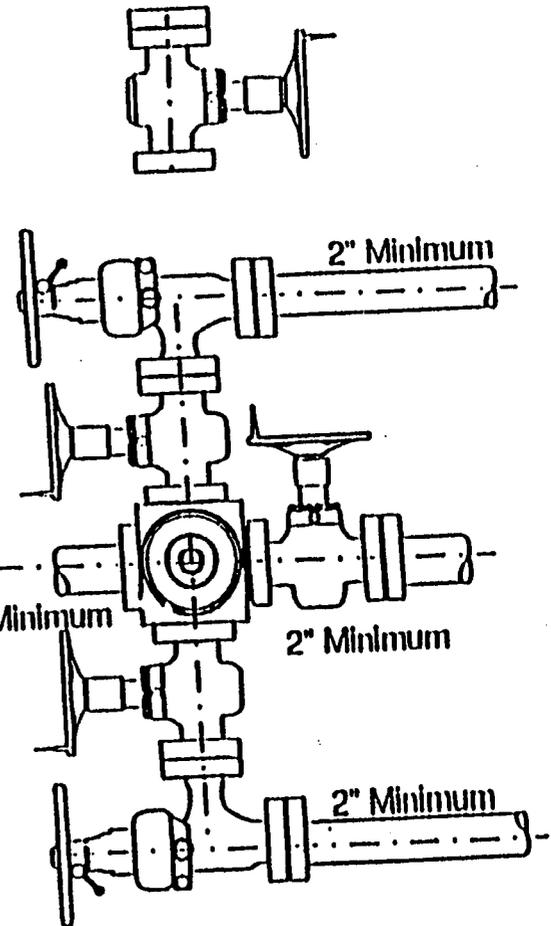
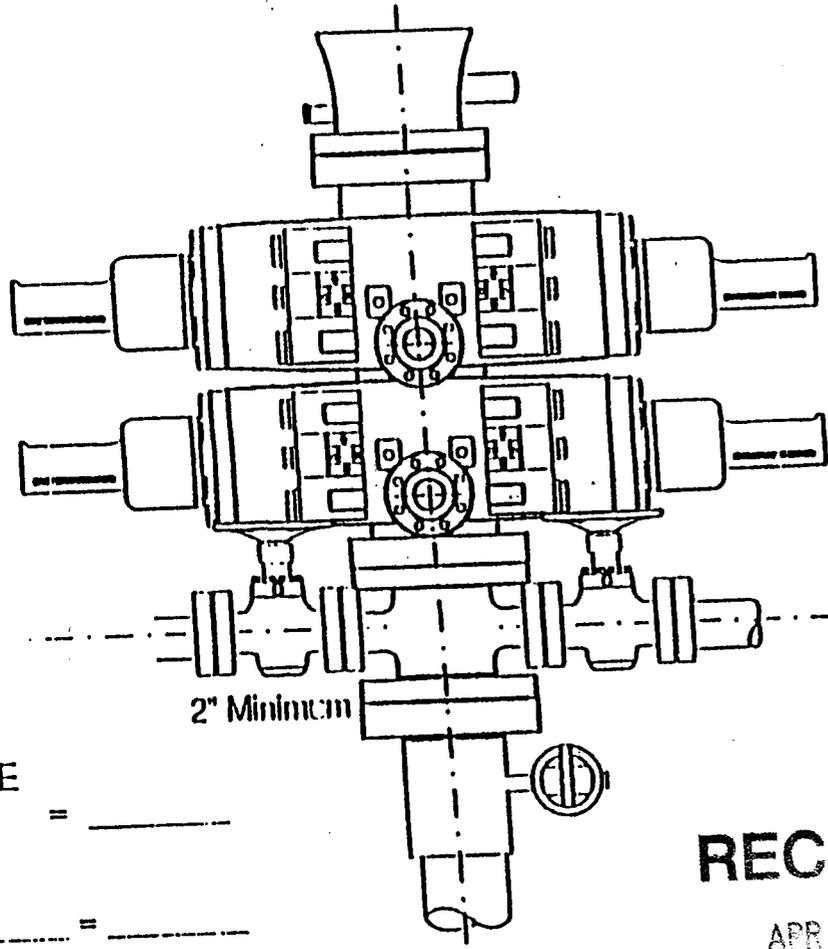
(6") Topsoil Stripping	=	870	Cu. Yds.
Remaining Location	=	3,310	Cu. Yds.
TOTAL CUT	=	4,180	CU.YDS.
FILL	=	2,830	CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	=	1,200	Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	1,200	Cu. Yds.
EXCESS MATERIAL After Reserve Pit is Backfilled & Topsoil is Re-distributed	=	0	Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

B.O.P.

2-M SYSTEM



CLOSE
 at BOP = _____
 type BOP
 Rams x _____ = _____
 _____ = _____ Gal.
 _____ x 2 = _____ Total Gal.

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

EXHIBIT F

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Odekirk Springs 1A-35-8-17

API Number:

Lease Number: UTU-40026

Location: NENE Section 35, T8S, R17E

GENERAL

Access well from the southwest, off of an existing gravel road.

CULTURAL RESOURCES

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

PALEONTOLOGICAL RESOURCES

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

SOILS, WATERSHEDS, AND FLOODPLAINS

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

WILDLIFE AND FISHERIES

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

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THREATENED, ENDANGERED, AND OTHER SENSITIVE SPECIES

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

OTHER

INLAND RESOURCES INC.
410 Seventeenth Street, Suite 700
Denver, Colorado 80202

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ARCHAEOLOGICAL REPORT

Odekirk Springs #1A-35-8-17
NE NE Sec. 35-T8S-R17E
Uintah County, Utah

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

Report Prepared for Inland Resources, Inc.

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

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

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

AERC Project 1597 (CNG98-3B)

Author of the Report:

F. Richard Hauck



ARCHEOLOGICAL-ENVIRONMENTAL RESEARCH CORPORATION

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

P.O. Box 853, Bountiful, Utah 84011

Phone: (801) 292-7061, 292-9668 FAX: (801) 292-0614

E-mail: ari@xmission.com Web page: www.ari-aerc.org

April 20, 1998

Abstract

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

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

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

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

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

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

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

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GENERAL INFORMATION

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

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

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

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

Project Location

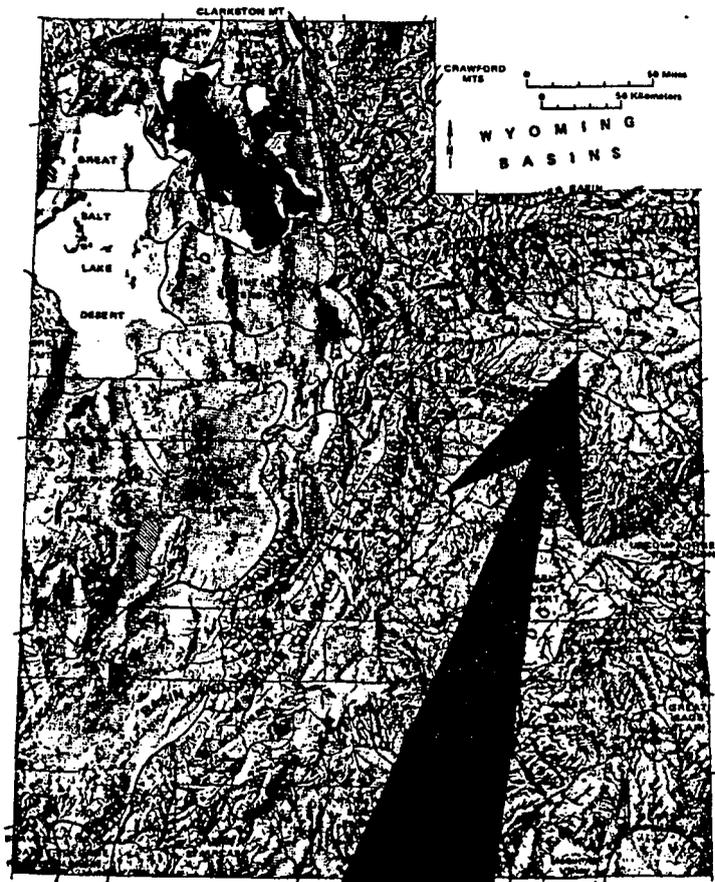
The project area is located in the South Wells Draw Unit, Pariette Bench and Castle Peak Draw localities of Duchesne and Uintah Counties, Utah. The various project areas are situated on the Myton SE and Pariette Draw SW 7.5 minute quads as shown on Maps 2 through 5. The inventoried areas and surveyed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

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

MAP 1
PROJECT AREA FOR THE INLAND
1998 DEVELOPMENT
PROGRAM



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



PROJECT AREA

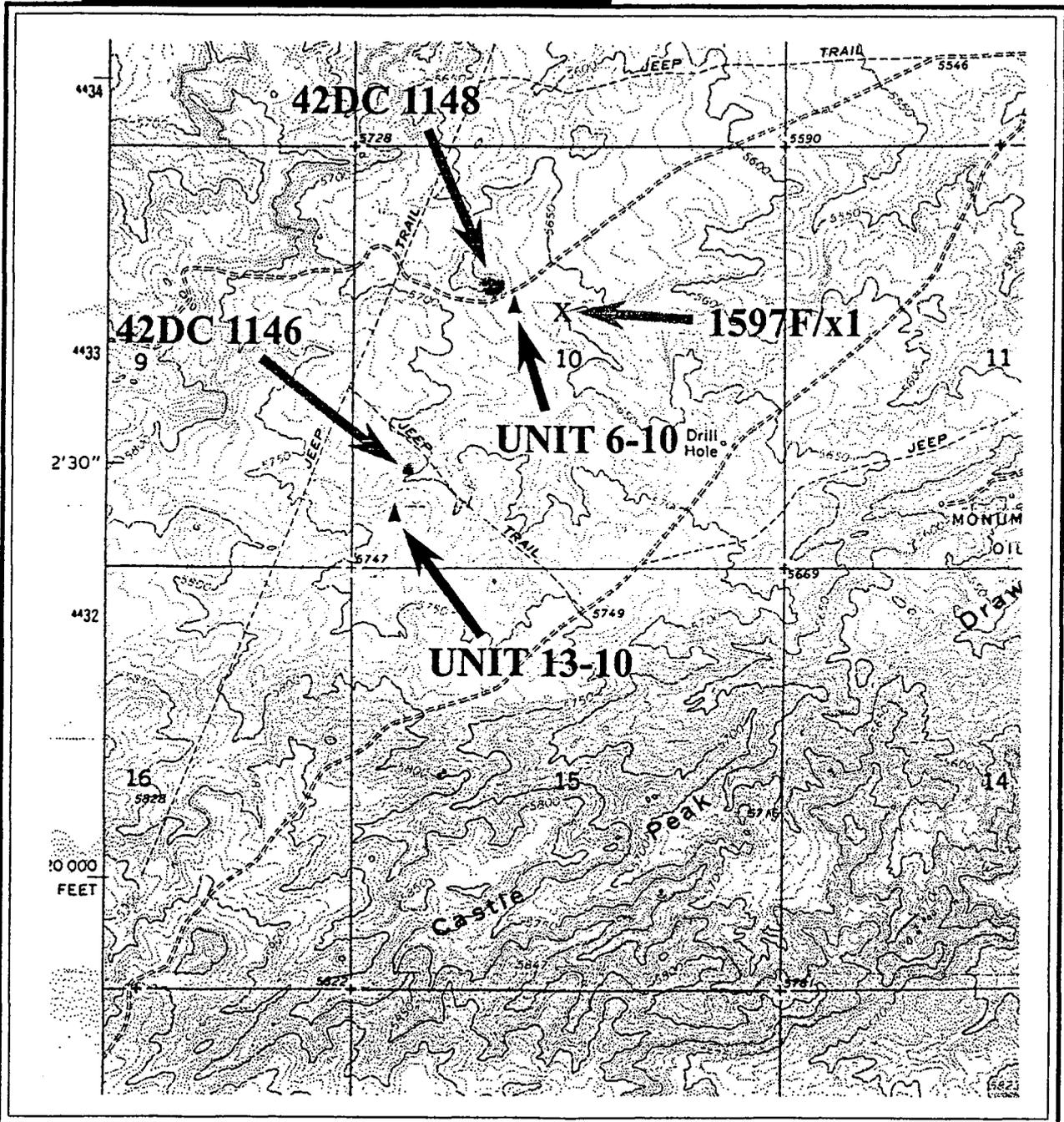
TOWNSHIP: multiple
RANGE: multiple
MERIDIAN: multiple

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

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



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



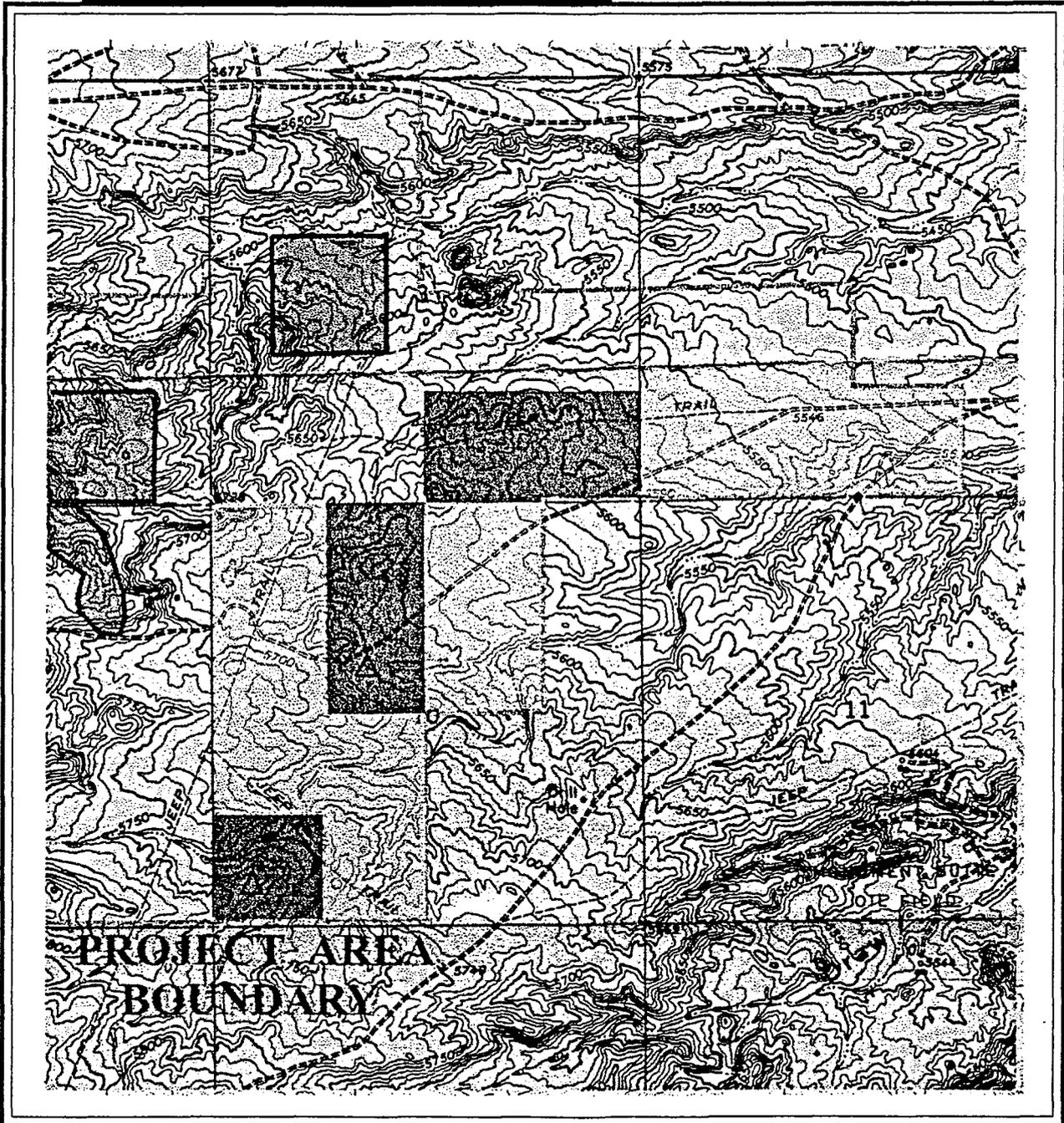
TOWNSHIP: 9 South
RANGE: 16 East
MERIDIAN: SL B. & M.

- LEGEND**
- CULTURAL SITE
 - △ WELL LOCATION
 - X ISOLATED ARTIFACT

MAP 3
CULTURAL RESOURCE SURVEY
OF INLAND UNITS 6-10 & 13-10
IN THE SOUTH WELLS DRAW UNIT
OF DUCHESNE CO., UTAH



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



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

LEGEND

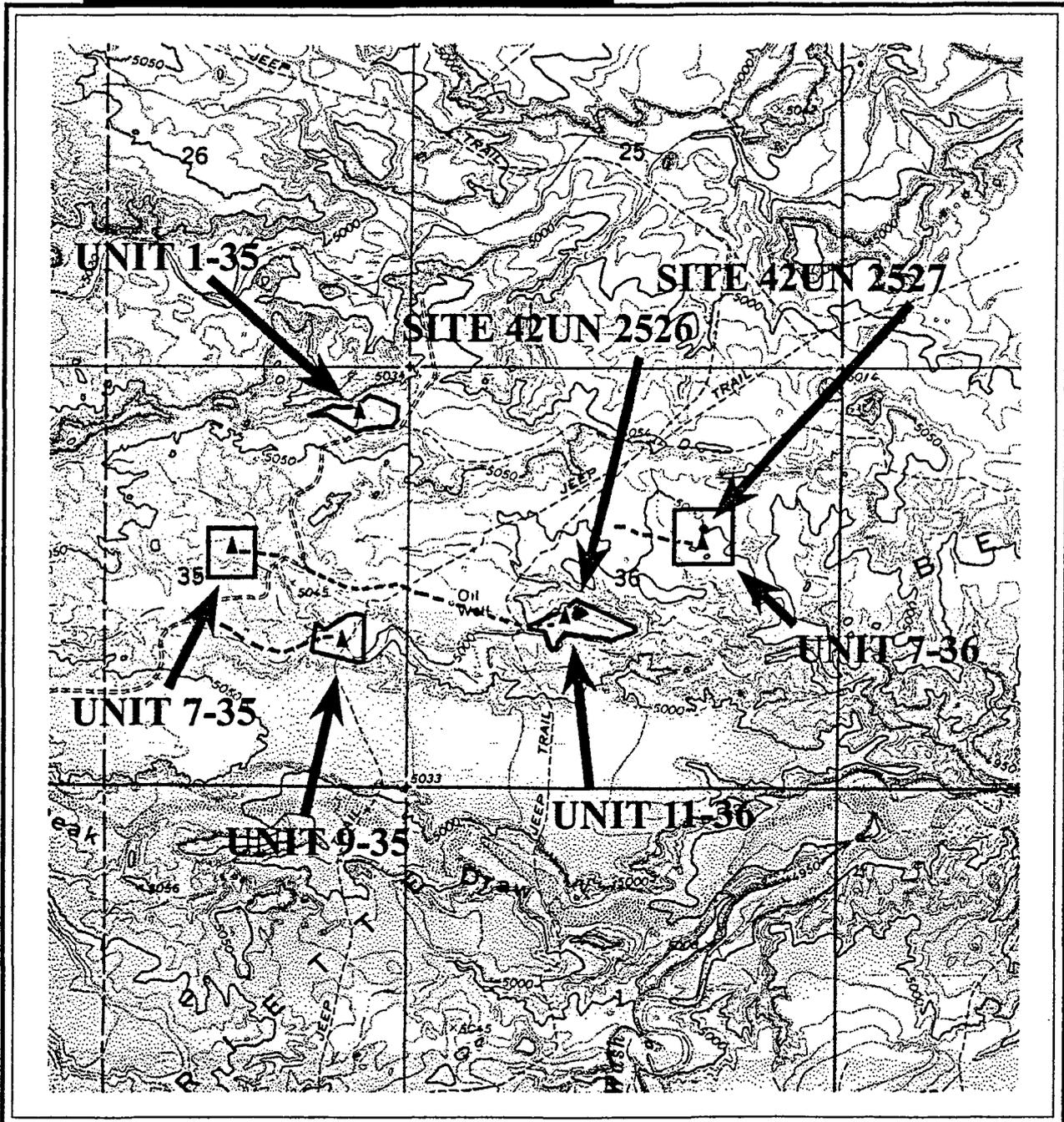
- △ WELL LOCATION
- CULTURAL SITE
- X ISOLATED ARTIFACT



MAP 4
CULTURAL RESOURCE SURVEY
OF INLAND UNITS 7-36, 11-36, 1-35,
7-35, & 9-35 IN THE PARIETTE BENCH
LOCALITY OF UTAH COUNTY, UTAH



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



LEGEND



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

 WELL LOCATION
 10 ACRE SURVEY AREA

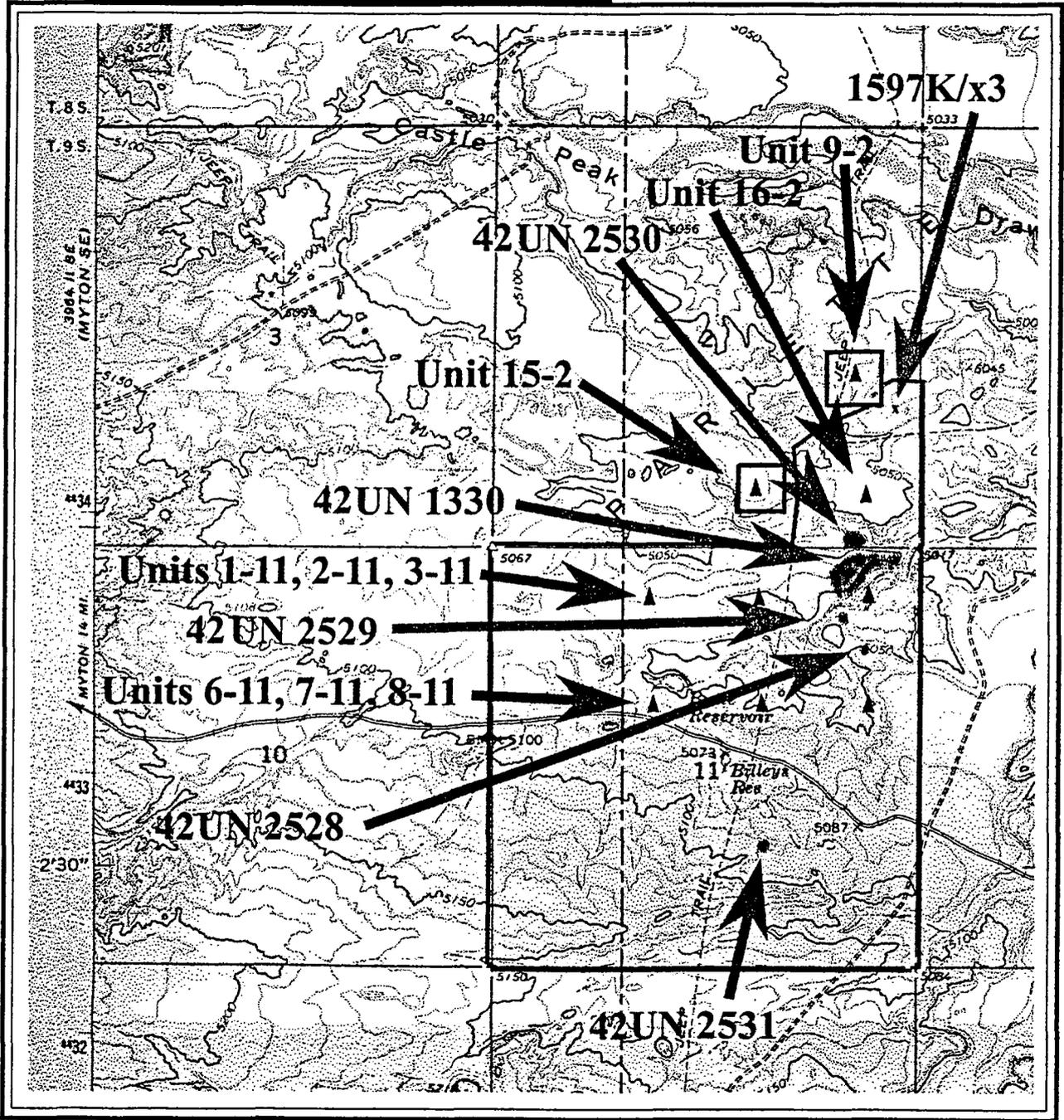
 ACCESS ROUTE

 CULTURAL SITE
 ISOLATED ARTIFACT

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



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



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

LEGEND

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Environmental Description

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

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

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

PREVIOUS RESEARCH IN THE LOCALITY

File Search

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

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

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

Prehistory of the Cultural Region

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

Site Potential in the Project Development Zone

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

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

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

FIELD EVALUATIONS

Methodology

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

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

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

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

Site Significance Criteria

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

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

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

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

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

Results of the Inventory

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

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

National Register Status: not significant — site lacks depth potential

Potential for Project-related Disturbance: none

Recommendations: none

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

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

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

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

Recommendations: none

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

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

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

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

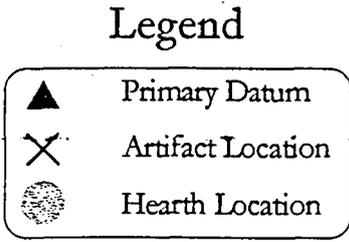
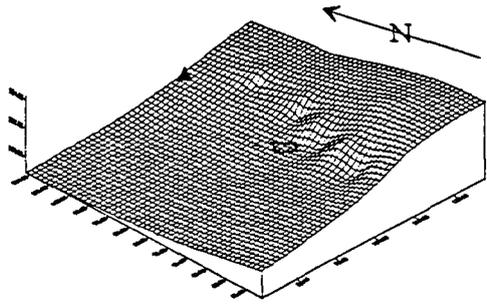
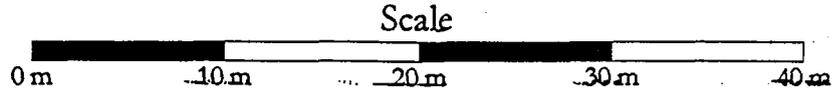
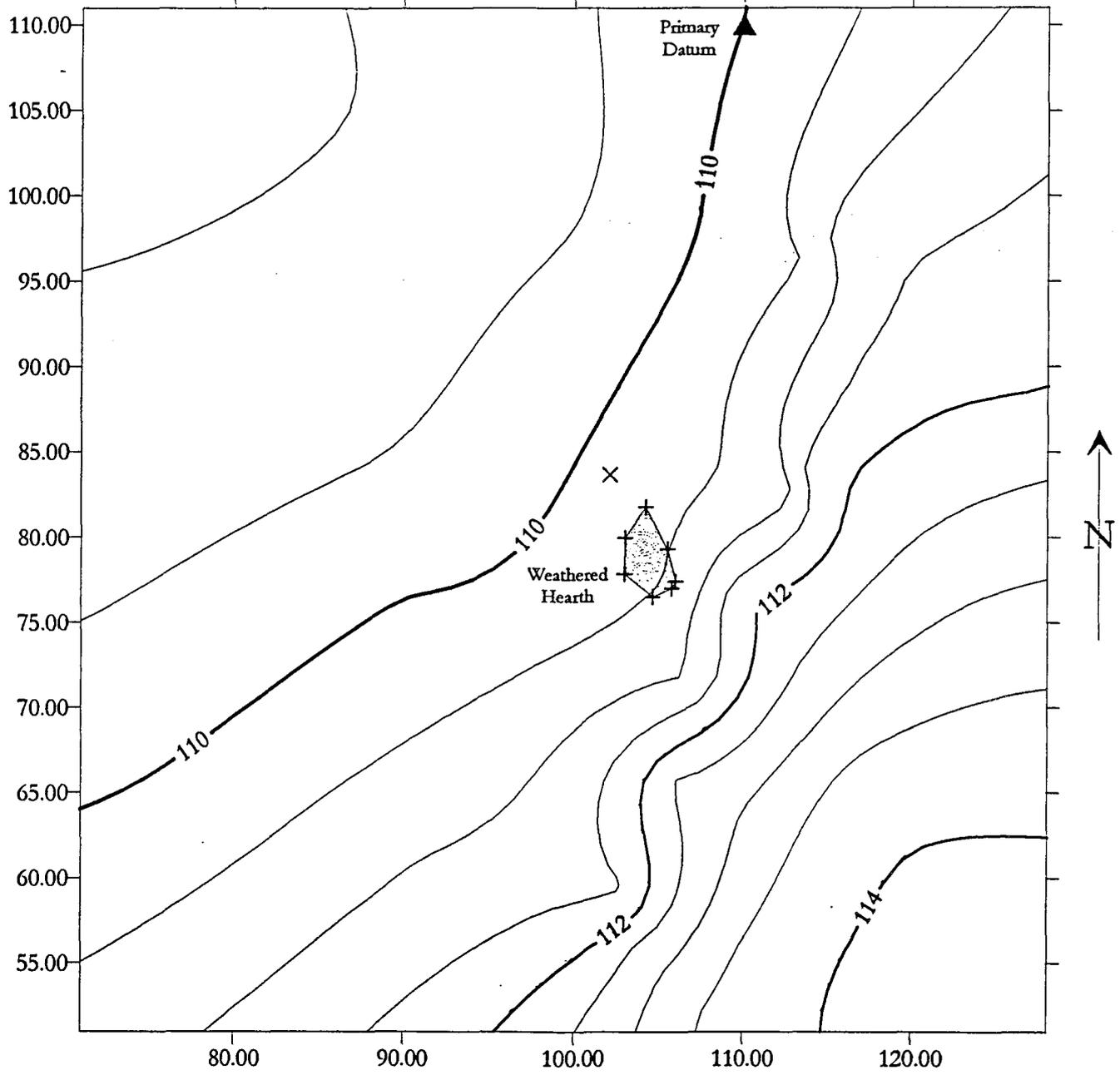
Site 42UN 2527 (see Maps 4 & 9) This site consists of a sparse scatter of highly patinated, expediency tools generally associated with the initial dismemberment of large game after a kill. Tools were probably prepared, used and discarded in the site area. The several opposing-flake biface choppers observed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

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

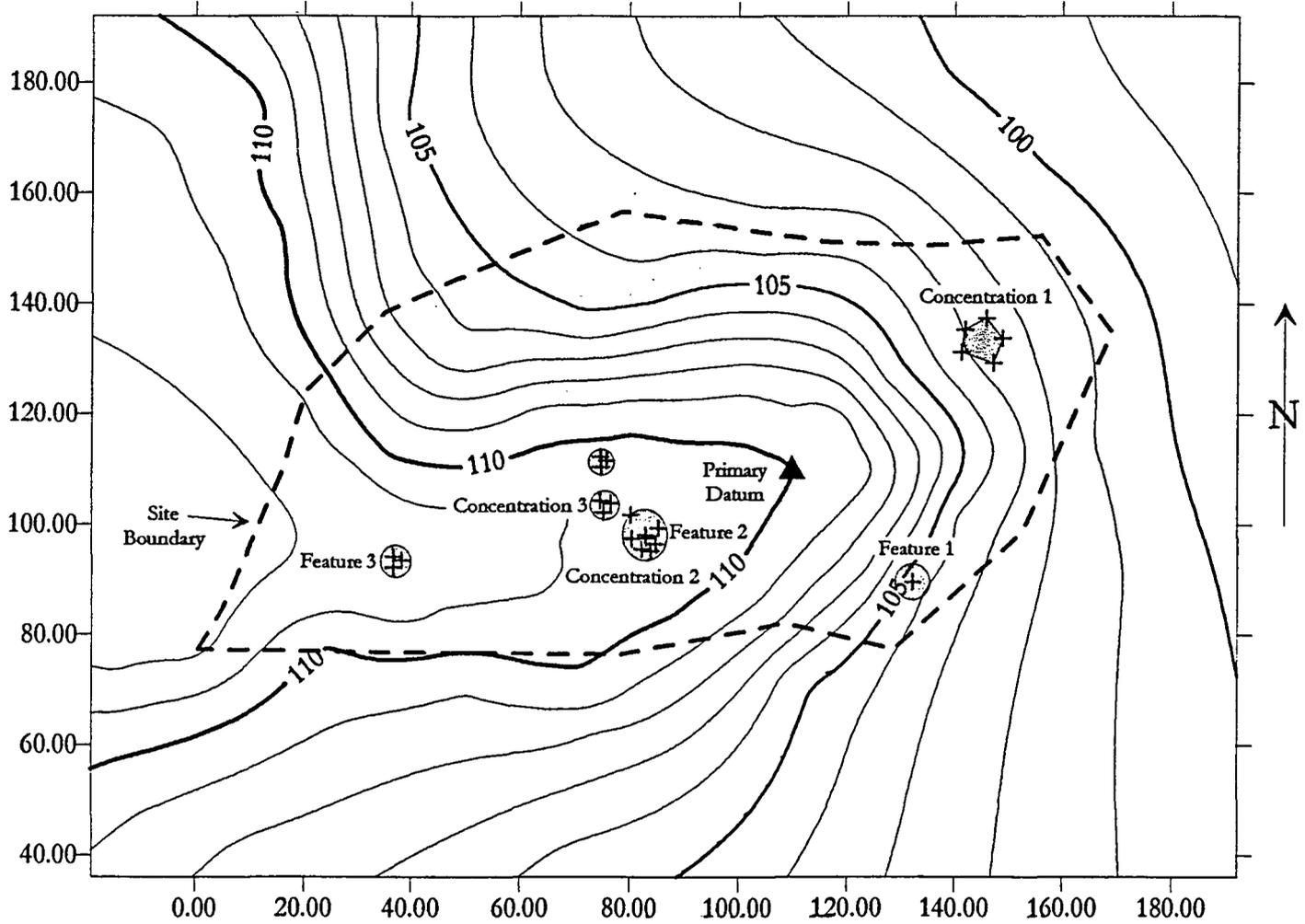
Potential for Project-related Disturbance: none — site is just north and outside the northern perimeter for Unit 7-36.

Recommendations: none

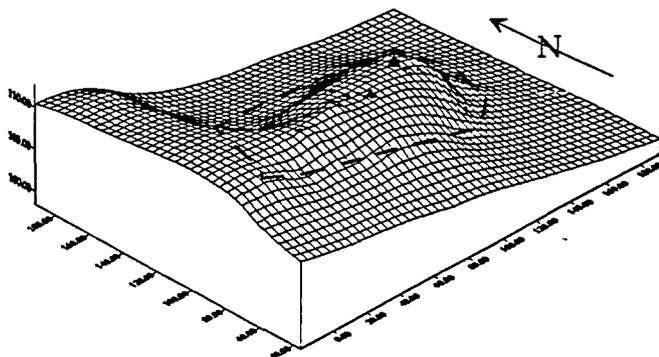
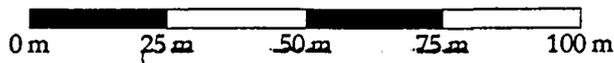
MAP 6: Artifact Distribution at 42DC1146



MAP 7: Artifact Distribution at 42DC1148



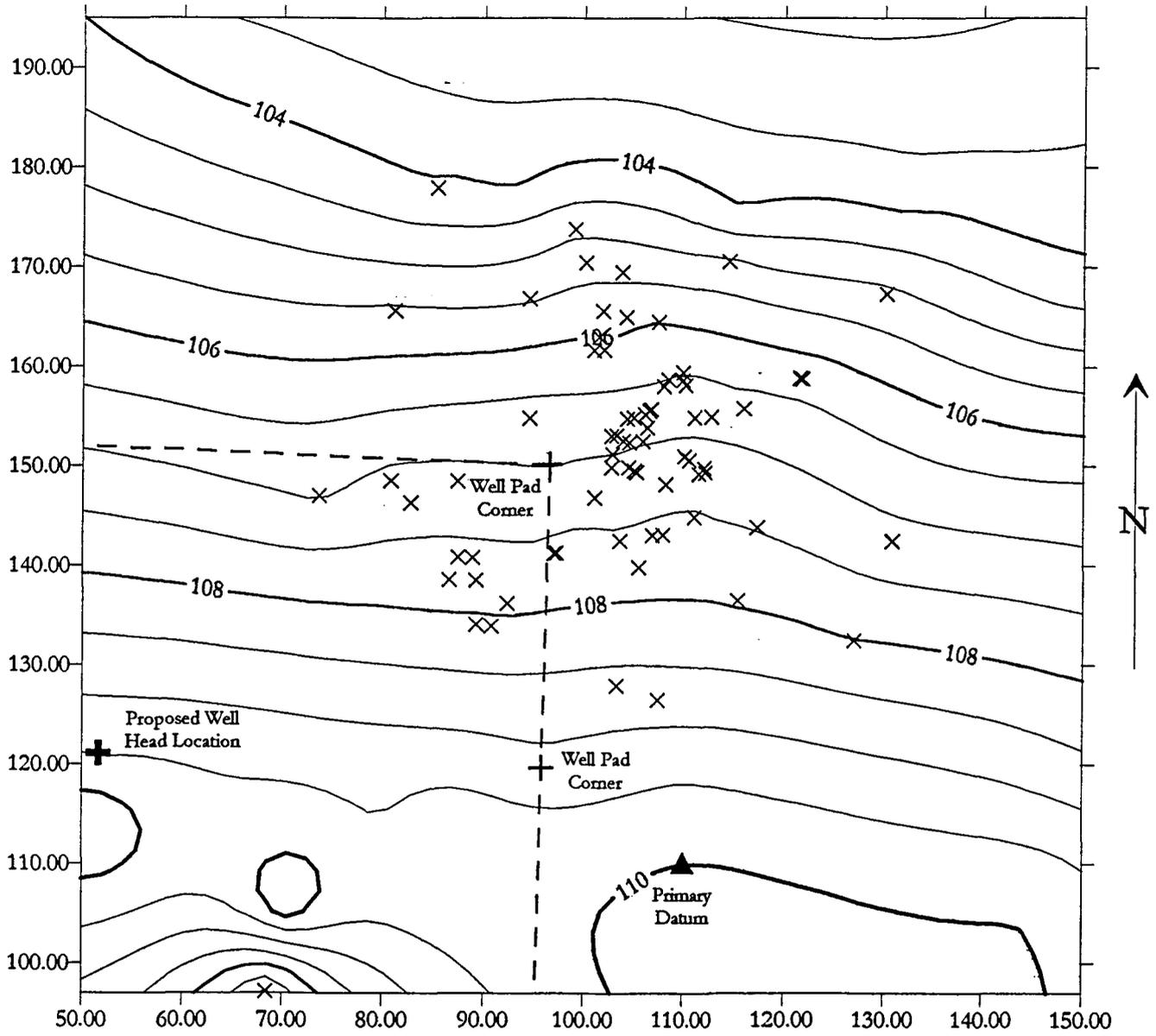
Scale



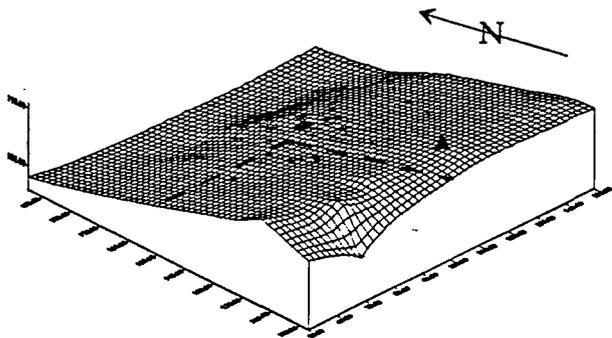
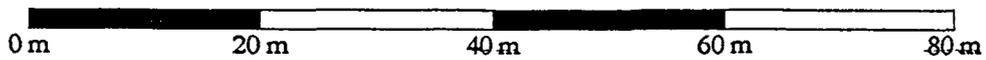
Legend

- ▲ Primary Datum
- Artifact Concentration
- - - Site Boundary

MAP 8: Artifact Distribution at 42UN2526



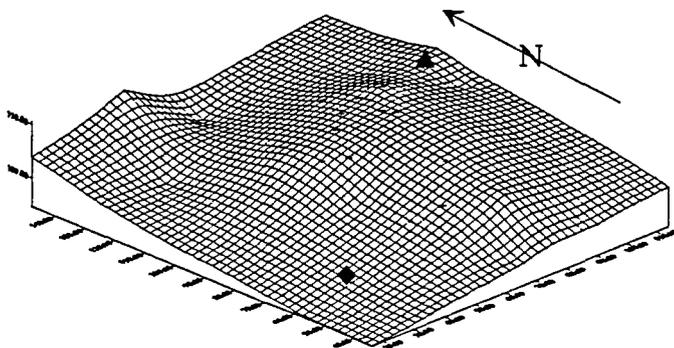
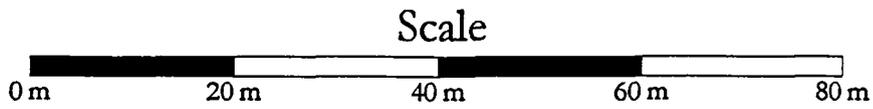
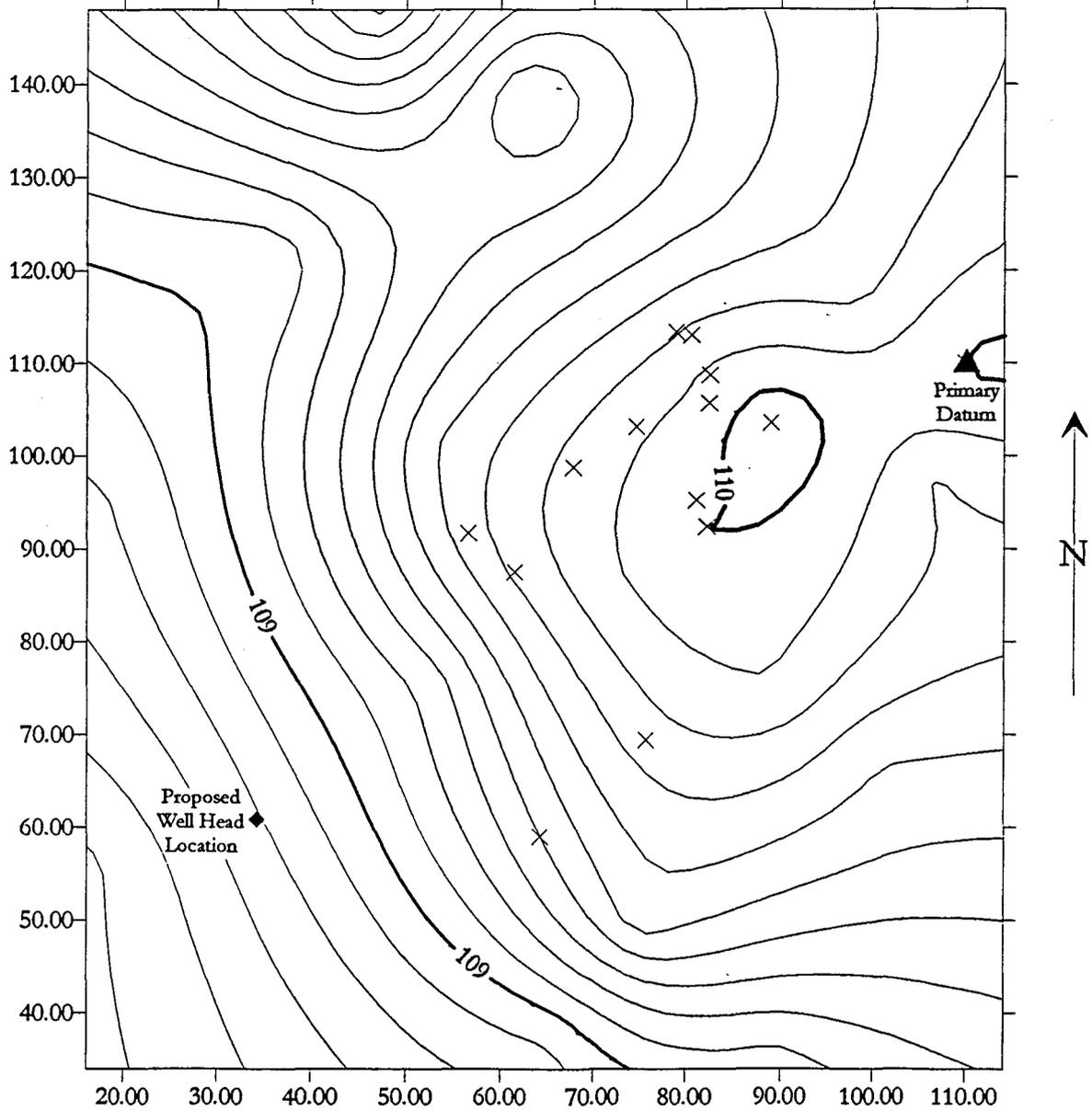
Scale



Legend

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

MAP 9: Artifact Distribution at 42UN2527



Legend

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

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

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

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

Recommendations: none

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

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

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

Recommendations: none

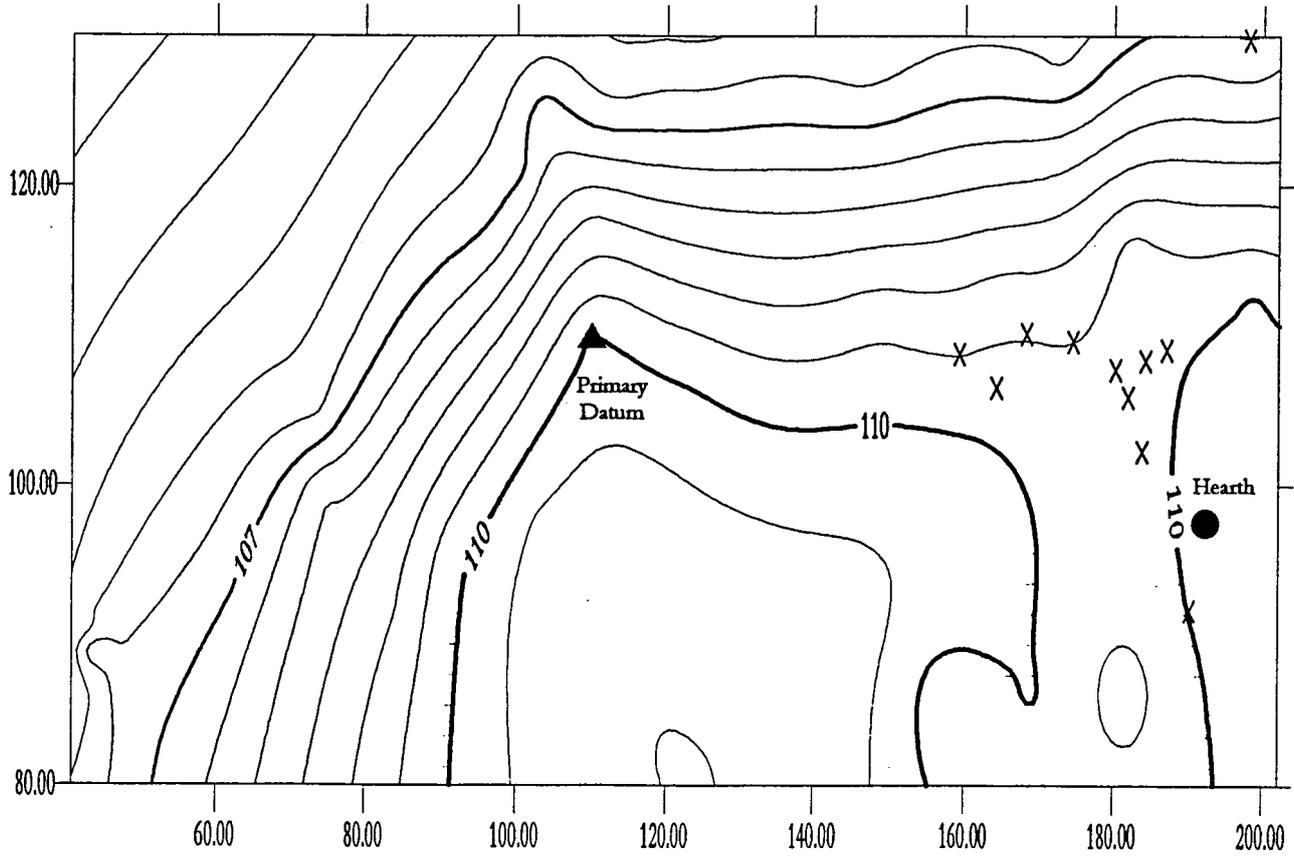
Site 42UN 2530 (see Map 5 & 12) This site consists of an open occupation located on the north slope and bench of a ridge on the south side of a tributary drainage of Big Wash. Site is ca. 50 x 100 meters in size and has depth potential. Site is adjacent to 42UN 1330 which is above and to the south in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

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

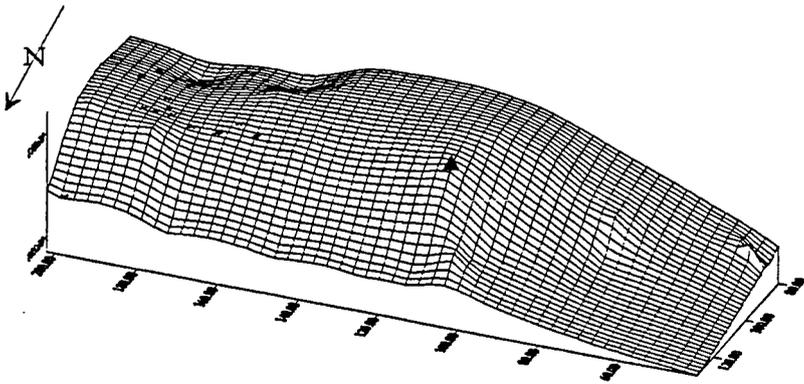
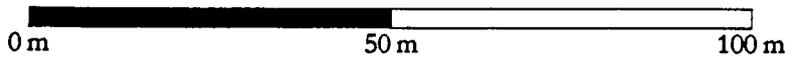
Potential for Project-related Disturbance: none — site is outside the perimeters of Units 1-11 and 16-2 and can easily be avoided during the construction of those well locations.

Recommendations: none

MAP 10: Artifact Distribution at 42UN2528



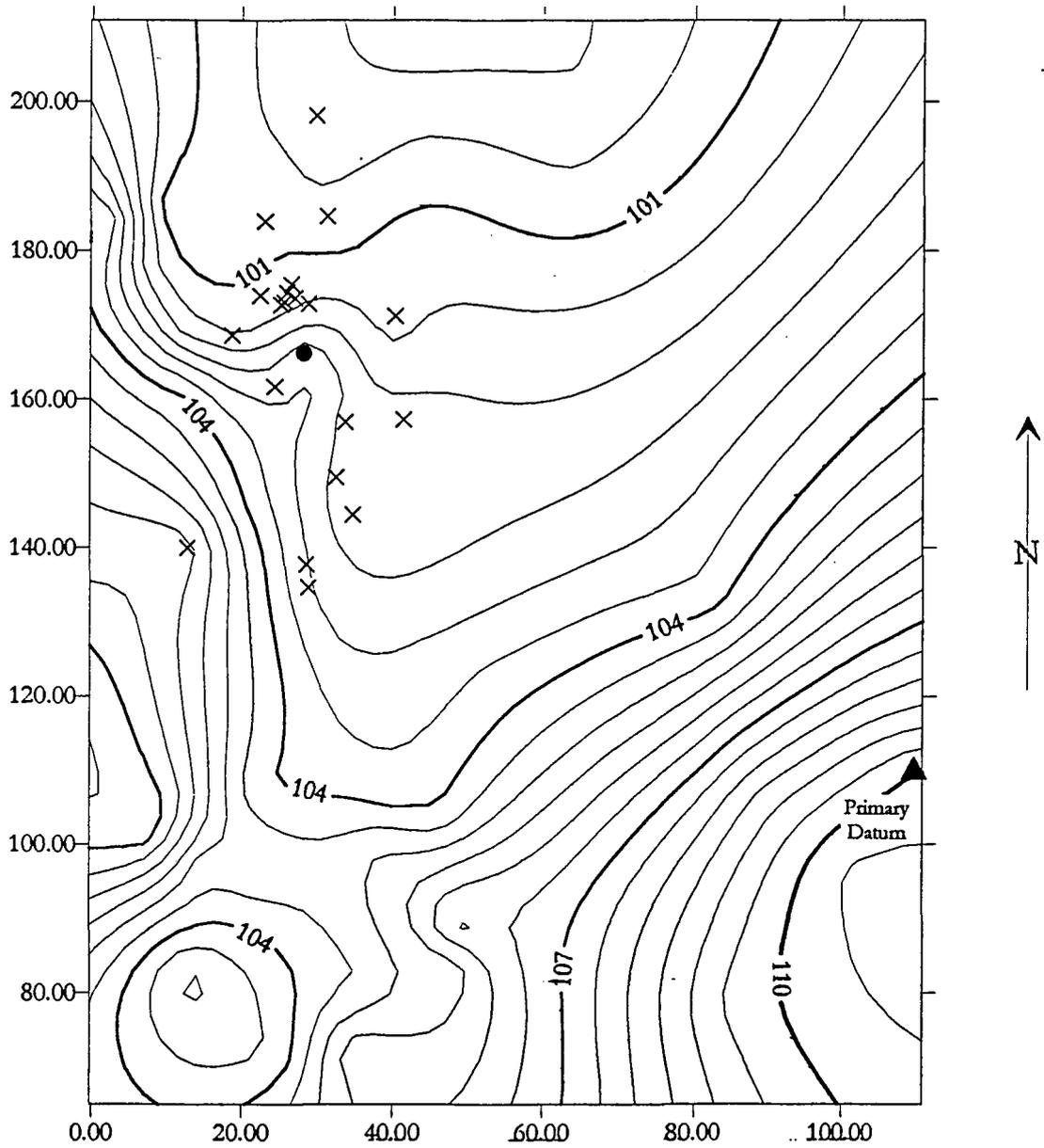
Scale



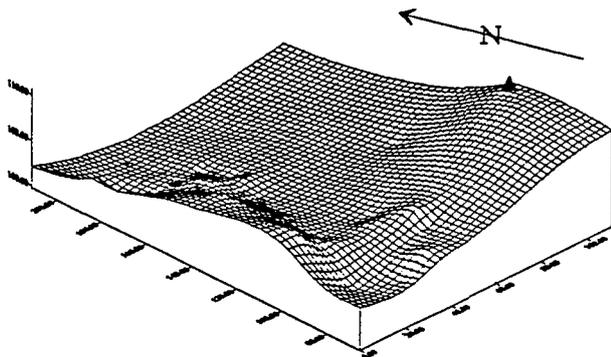
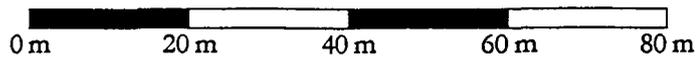
Legend

- ▲ Primary Datum
- × Artifact Location
- Hearth

MAP 11: Artifact Distribution at 42UN2529



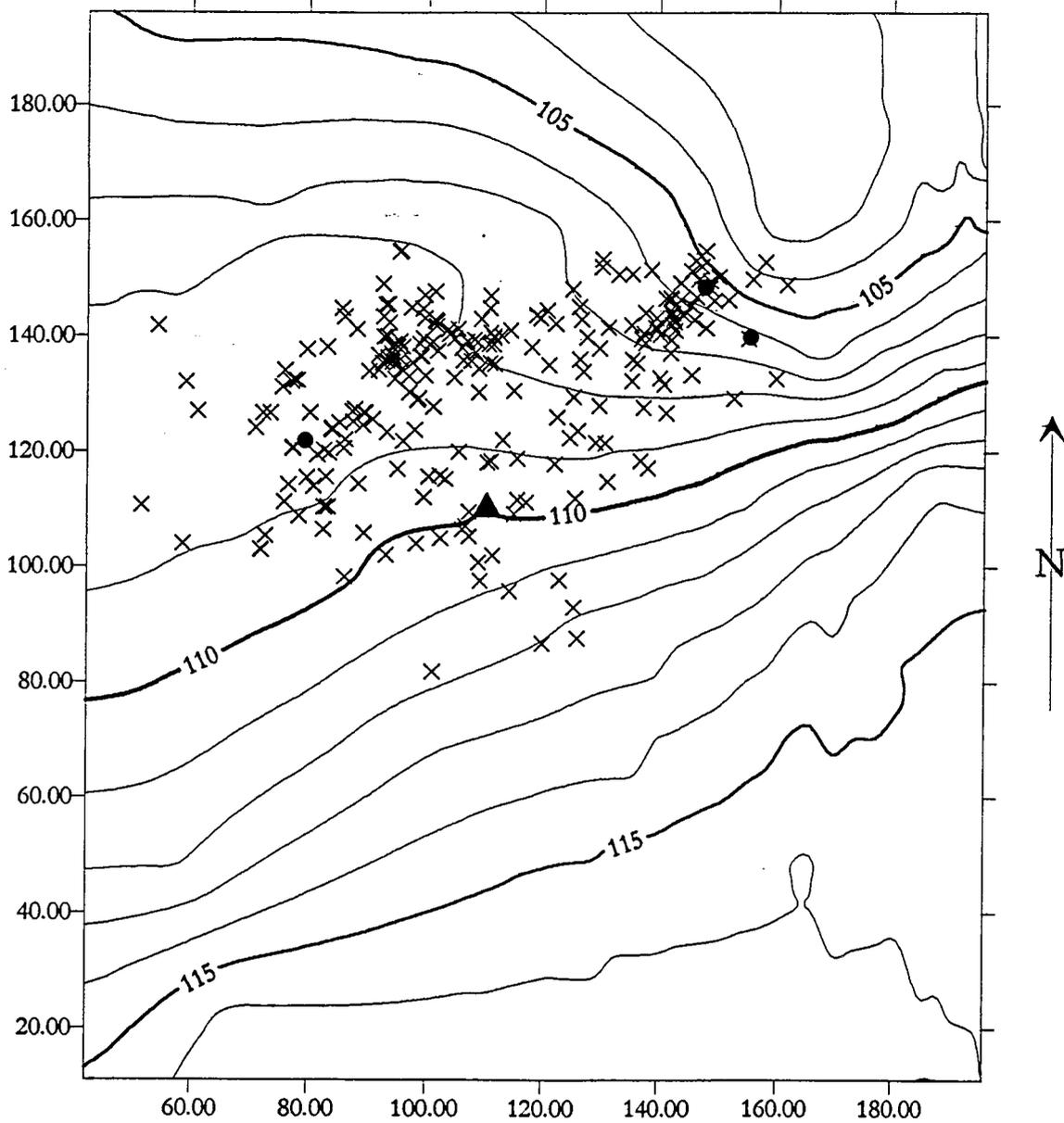
Scale



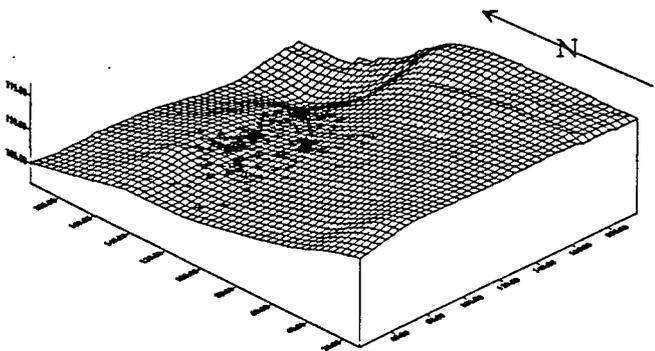
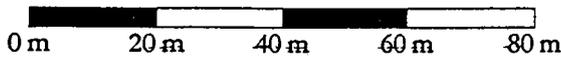
Legend

- ▲ Primary Datum
- × Artifact Location
- Hearth

MAP 12: Artifact Distribution at 42UN2530



Scale



Legend

- ▲ Primary Datum
- Hearth
- × Artifact Location

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

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

Potential for Project-related Disturbance: none

Recommendations: none

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

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

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

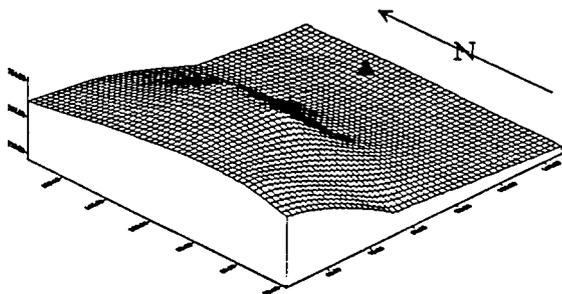
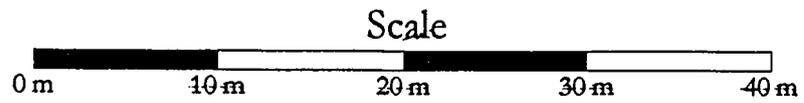
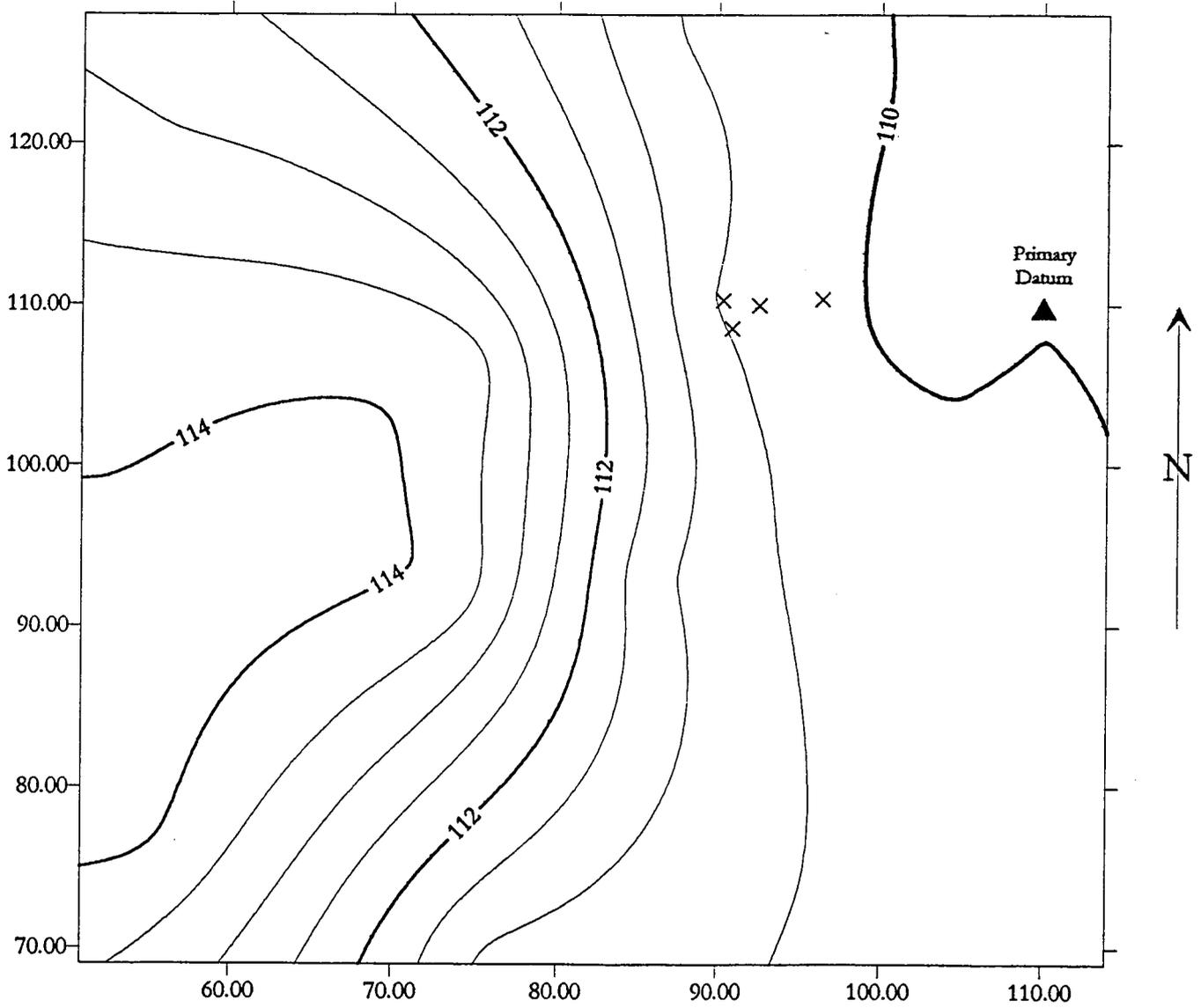
Potential for Project-related Disturbance: moderate due to proximity between site and well pad construction area for Unit 1-11.

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

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

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

MAP 13: Artifact Distribution at 42UN2531



Legend

- ▲ Primary Datum
- × Artifact Location

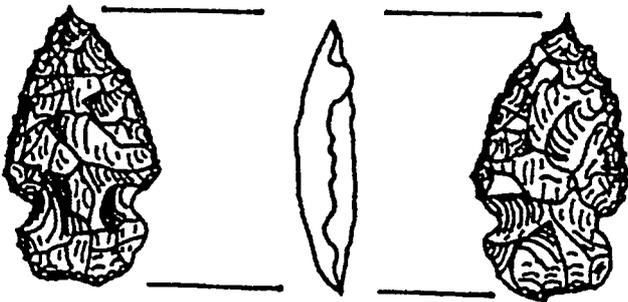


FIGURE 1:
Side-notch Projectile Point
recovered from 42DC1146

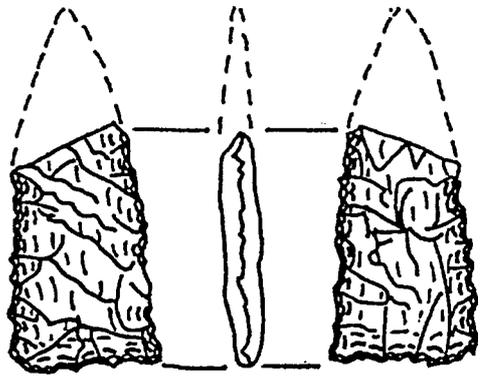


FIGURE 2:
Goshen (Plainview) Style Projectile
Point recovered from 42UN2530

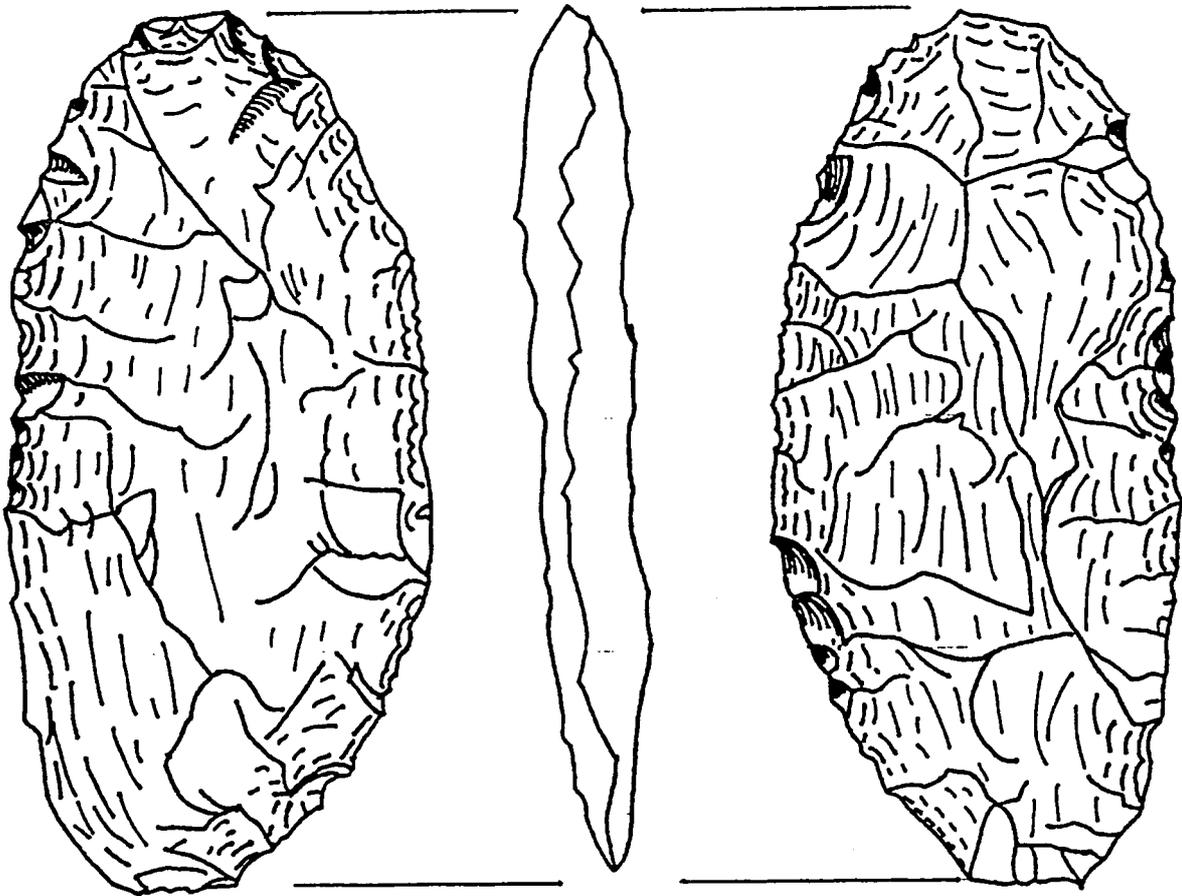


FIGURE 3:
Knife recovered from
42UN2530

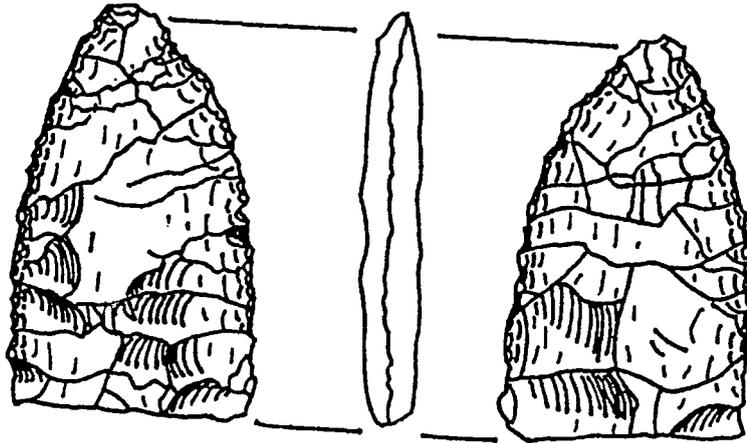


FIGURE 4:
Isolated find 1597F/x1

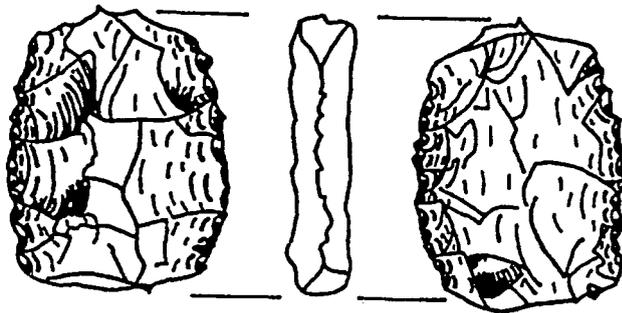


FIGURE 5:
Isolated find 1597K/x3

CONCLUSION AND RECOMMENDATIONS

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

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

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



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

References

Fike, Richard E. and H. Blaine Phillips

- 1984 *A Nineteenth Century Ute Burial from Northeastern Utah*, Cultural Resource Series No. 16, Bureau of Land Management, Salt Lake City.

Hauck, F. Richard

- 1981 Cultural Resource Inventory of Nine Proposed Well Locations and Access Roads in the Coyote Basin Locality of Uintah County, Utah and in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Diamond Shamrock, DS-81-2, Archeological-Environmental Research Corporation, Bountiful.
- 1982 Cultural Resource Inventory of Five Proposed Well Locations and Access Roads in the Eightmile Flat and Castle Peak Localities of Uintah and Duchesne Counties, Utah. Report prepared for Diamond Shamrock, DS-82-5, Archeological-Environmental Research Corporation, Bountiful.
- 1984a "Excavation" (in) *A Nineteenth Century Ute Burial From Northeast Utah*, Cultural Resource Series No. 16, Bureau of Land Management, Salt Lake City.
- 1984b Cultural Resource Evaluations of Seven Proposed Well Locations Situated in the Castle Peak Draw Locality of Uintah County, Utah. Report prepared for Overthrust Oil and Royalty Company, OORC-84-1, Archeological-Environmental Research Corporation, Bountiful.
- 1991 Archaeological Evaluations on the Northern Colorado Plateau Cultural Area, AERC Paper No.45, Archeological-Environmental Research Corporation, Bountiful.
- 1992a Cultural Resource Evaluations of Four Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-2, Archeological-Environmental Research Corporation, Bountiful.
- 1992b Addendum to Cultural Resource Evaluations of Four Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-9204, Archeological-Environmental Research Corporation, Bountiful.

- 1992c Cultural Resource Evaluations of Seven Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-5, Archeological-Environmental Research Corporation, Bountiful.
- 1992d Cultural Resource Evaluation of a Proposed Water Pipeline Corridor in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-6, Archeological-Environmental Research Corporation, Bountiful.
- 1992e Cultural Resource Evaluation of Seven Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-8, Archeological-Environmental Research Corporation, Bountiful.
- 1993a Cultural Resource Evaluation of Nine Proposed Well Locations in the Castle Peak Draw Locality of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-1, Archeological-Environmental Research Corporation, Bountiful.
- 1993b Addendum to Cultural Resource Evaluation of Nine Proposed Well Locations in the Castle Peak Draw Locality of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-2, Archeological-Environmental Research Corporation, Bountiful.
- 1993c Cultural Resource Evaluation of a Pipeline Corridor Situated in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-3, Archeological-Environmental Research Corporation, Bountiful.
- 1996a Cultural Resource Evaluation of Four Proposed Well Locations and Access Routes in the Castle Peak Draw Locality - Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-95-8A, Archeological-Environmental Research Corporation, Bountiful.
- 1996b Cultural Resource Evaluation of 13 Proposed Well Locations and Access Routes in the Castle Peak Draw Locality of Uintah and Duchesne Counties, Utah. Report prepared for Balcron Oil Company, BLCR-96-8B, Archeological-Environmental Research Corporation, Bountiful.
- 1996c Cultural Resource Evaluation of Two Proposed Well Locations in the Castle Peak Draw Locality - Big Wash Locality of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-96-8C, Archeological-Environmental Research Corporation, Bountiful.

- 1996d Cultural Resource Evaluation of Two Proposed Well Locations and Access Routes in the Wells Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-96-1, Archeological-Environmental Research Corporation, Bountiful.
- 1996e Cultural Resource Evaluation of Three Proposed Pipeline Corridor Complexes in the Castle Peak Draw - Pariette Bench Locality of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-96-3, Archeological-Environmental Research Corporation, Bountiful.
- 1996f Cultural Resource Evaluation of Four Proposed Well Locations with Associated Access Road and Pipeline Corridor Complexes in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Inland Production Company, IPC-96-1, Archeological-Environmental Research Corporation, Bountiful.
- 1996g Cultural Resource Evaluation of Ten Proposed Well Locations with Associated Road Complexes in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Inland Production Company, IPC-96-2, Archeological-Environmental Research Corporation, Bountiful.
- 1996h Cultural Resource Evaluation of Five Proposed Monument Federal Well Locations in the Pariette Bench Locality of Uintah County, Utah. Report prepared for Equitable Resources Energy Company, BLCR-96-7, Archeological-Environmental Research Corporation, Bountiful.
- 1996i Cultural Resource Evaluation of 11 Proposed Monument Federal Well Locations in the Wells Draw, Castle Peak Draw, Pleasant Valley, & Pariette Bench Localities of Duchesne County, Utah. Report prepared for Equitable Resources Energy Company, BLCR-96-2, Archeological-Environmental Research Corporation, Bountiful.
- 1997a Cultural Resource Evaluation of Seven Proposed Well Locations With Associated Road Corridors in the Wells Draw Locality of Duchesne County, Utah. Report prepared for Inland Production Company, IPC-97-1, Archeological-Environmental Research Corporation, Bountiful.
- 1997b Cultural Resource Evaluation of Proposed North Ashley Unit No. 7-1 in the Well Draw Locality of Duchesne County, Utah. Report prepared for Inland Production Company, IPC-97-1A, Archeological-Environmental Research Corporation, Bountiful.
- 1997c Cultural Resource Evaluation of Proposed Ashley Federal Units 6-1 and 11-1 in the Wells Draw Locality of Duchesne County, Utah. Report prepared for Inland Production Company, IPC-97-3, Archeological-Environmental Research Corporation, Bountiful.

- 1998a Cultural Resource Evaluations of Proposed Well Locations in the South Wells Draw Unit, South Pleasant Valley Unit, and Odekirk Springs Lease Areas in the Wells Draw, Pariette Bench, and Castle Peak Draw Localities in Duchesne and Uintah Counties, Utah. Report prepared for Inland Production Company, IPC-98-1, Archeological-Environmental Research Corporation, Bountiful.
- 1998b Cultural Resource Evaluation of a Series of Potential Drilling Localities in the Castle Peak Draw Locality of Duchesne and Uintah Counties, Utah. Report prepared for Inland Resources, Inc., IPC-98-2, Archeological-Environmental Research Corporation, Bountiful.
- 1998c Cultural Resource Evaluation of a Series of Potential Drilling Localities in the Castle Peak Draw — Pariette Bench Localities of Duchesne and Uintah Counties, Utah. Report prepared for Inland Resources, Inc., IPC-98-3a, Archeological-Environmental Research Corporation, Bountiful.
- 1998d Cultural Resource Evaluation of 16 Proposed Inland Units in the South Wells Draw — Castle Peak Draw — Pariette Bench Localities of Duchesne and Uintah Counties, Utah. Report prepared for Inland Resources, Inc., IPC-98-3b, Archeological-Environmental Research Corporation, Bountiful.

Hauck, F. Richard and Glade Hadden

- 1993a Cultural Resource Evaluation of Seven Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-4, Archeological-Environmental Research Corporation, Bountiful.
- 1993b Cultural Resource Evaluation of Four Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-5, Archeological-Environmental Research Corporation, Bountiful.
- 1993c Cultural Resource Evaluation of Eight Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-9, Archeological-Environmental Research Corporation, Bountiful.
- 1993d Cultural Resource Evaluation of Four Proposed Well Locations in the Monument Buttes and Pleasant Valley Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-10, Archeological- Environmental Research Corporation, Bountiful.
- 1993e Cultural Resource Evaluation of Seven Proposed Wells in the Monument Buttes and Pleasant Valley Localities of Duchesne and Uintah Counties, Utah. Report prepared

for Balcron Oil Company, BLCR-93-11, Archeological-Environmental Research Corporation, Bountiful.

- 1994a Cultural Resource Evaluation of Eight Proposed Wells in the Pleasant Valley Locality of Uintah County, Utah. Report prepared for Balcron Oil Company, BLCR-94-3, Archeological-Environmental Research Corporation, Bountiful.
- 1994b Cultural Resource Evaluation of Proposed Water Injection Line Lateral Segments in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-94-4, Archeological-Environmental Research Corporation, Bountiful.
- 1994c Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Pariette Draw - Castle Peak Draw - Eight Mile Flat Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-94-9, Archeological-Environmental Research Corporation, Bountiful.
- 1994d Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Castle Peak Draw and Eight Mile Flat Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-94-10, Archeological-Environmental Research Corporation, Bountiful.
- 1994e Cultural Resource Evaluation of Two Proposed Balcron Monument State Well Locations and Access Routed in the Castle Draw Locality of Uintah County, Utah. Report prepared for Balcron Oil Company, BLCR-94-10b, Archeological-Environmental Research Corporation, Bountiful.
- 1994f Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Monument Buttes and Pleasant Valley Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-94-11, Archeological-Environmental Research Corporation, Bountiful.
- 1995a Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-95-1 & 2, Archeological-Environmental Research Corporation, Bountiful.
- 1995b Cultural Resource Evaluation of Nine Proposed Well Locations and Access Routes in the Castle Peak Draw and Eight Mile Flat Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-95-5, Archeological-Environmental Research Corporation, Bountiful.

1995c Cultural Resource Evaluation of a Series of Proposed Water Return Pipeline Routes in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-95-7, Archeological-Environmental Research Company, Bountiful.

1997 Cultural Resource Evaluation of the Ashley Unit, South Wells Draw Unit and South Pleasant Valley Unit Lease Areas in the Wells Draw & Pleasant Valley Localities in Duchesne County, Utah Report prepared for Inland Production Company, IPC-97-5A, Archeological-Environmental Research Corporation, Bountiful.

Hauck, F.R. and G. Norman

1980 Final Report on the Mapco River Bend Cultural Mitigation Study, AERC Paper No. 18 of the Archeological-Environmental Research Corporation, Bountiful.

Hauck, F.R. and Dennis Weder

1989 Pariette Overlook -- A Paleo-Indian Quarry Site in the Pariette Draw Locality of Uintah County, Utah. AERC Paper No. 42 of the Archeological-Environmental Research Corporation, Bountiful.

Stokes, W.L.

1977 Physiographic Subdivisions of Utah. Map 43, Utah Geological and Mineral Survey, Salt Lake City.

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

Project
Authorization No .U.9.8.A.F.0.1.6.6.b.
Report Acceptable Yes ___ No ___
Mitigation Acceptable Yes ___ No ___
Comments: _____

Summary Report of
Inspection for Cultural Resources

Cultural Resource Evaluation of 16 Potential Drilling
Localities in the South Wells Draw Unit, Castle Peak Draw — Pariette Bench
Localities of Duchesne and Uintah Counties, Utah

1. Report Title
Inland Resources, Inc.

2. Development Company _____

3. Report Date 4 22 1998 4. Antiquities Permit No. UT-98-54937
A E R C IPC - 98 - 3B Uintah &

5. Responsible Institution County Duchesne

6. Fieldwork

Location: TWN .0.9.S. . RNG .1.6 E. . Section 10
TWN .0.8.S. . RNG .1.7 E. . Sections 35, 36
TWN .0.9.S. . RNG .1.7 E. . Sections 2, 11

7. Resource Area .DM.

8. Description of Examination Procedures: The archeologists directed by R. Hauck, Glade Hadden, or Marcel Corbeil, examined 16 proposed well locations, 10 acre and bulk acreage parcels, & several associated access corridors by walking 15 to 20 meter-wide transects in the parcels and along the 100 foot-wide access corridors centered on the flagged center-line.

9. Linear Miles Surveyed 1.52 I
and/or
Definable Acres Surveyed
and/or
Legally Undefinable 756.4
Acres Surveyed
10. Inventory Type
R = Reconnaissance
I = Intensive
S = Statistical Sample

11. Description of Findings: Eight archaeological sites were recorded during this survey. These sites include 42DC 1146, 42DC 1148, 42UN 2526 through 42UN 2531. Sites 42DC 1148, 42UN 2526, 2529, 2530 are all considered to be significant. Sites 42UN 2526 and 42Un 1330 are endangered by the development of Units 11-36 and 1-11 (see recom.)
12. Number Sites Found .8. (No sites = 0)
13. Collection: .Y.
(Y = Yes, N = No)

14. Actual/Potential National Register Properties Affected:

The National Register of Historic Places (NRHP) has been consulted and no registered properties will be affected by the proposed development.

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

16. Conclusion/ Recommendations:

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

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

17. Signature of Administrator & Field Supervisor

Administrator:

Field
Supervisor:

INLAND RESOURCES INC.
410 Seventeenth Street, Suite 700
Denver, Colorado 80202

RECEIVED

APR 14 2000

DIVISION OF
OIL, GAS AND MINING

PALEONTOLOGICAL REPORT

Odekirk Springs #1A-35-8-17
NE NE Sec. 35-T8S-R17E
Uintah County, Utah

**A CULTURAL AND PALEONTOLOGICAL RESOURCE SURVEY
OF INLAND RESOURCES SUNDANCE STATE UNIT
ACCESS ROAD CORRIDOR, UINTAH COUNTY, UTAH**

by

**Heather M. Weymouth
Senior Archaeologist**

and

**James R. Christensen
Assistant Archaeologist**

Prepared for:

**Inland Production Company
P.O. Box 790233
Vernal, Utah 84079-0233**

Prepared by:

**Sagebrush Consultants, L.L.C.
3670 Quincy Avenue, Suite 203
Ogden, Utah 84403**

Under Authority of Cultural Resources Use Permit No. 96UT54630

and

Utah State Antiquities Permit No. U-97-SJ-0263b,s

Archaeological Report No. 988

June 24, 1997

INTRODUCTION

In June 1997, Inland Production Company (Inland) of Roosevelt, Utah requested that Sagebrush Consultants, L.L.C. (Sagebrush) conduct a cultural and paleontological resource inventory for a proposed upgrade to an existing two-track corridor that would provide better access to well locations within Inland's Sundance State Unit in Uintah County, Utah.

The survey area is located in T. 8S., R. 17E., S. 35 and S. 36, and T. 8S, R. 18E, S. 31 on USGS 7.5' Quadrangle Pariette SW, Utah (1964)(Figure 1). The existing corridor lies on lands controlled by the Bureau of Land Management (BLM) and the state of Utah. The project was carried out by Heather M. Weymouth and James R. Christensen on June 4, 1997 under authority of Cultural Resources Use Permit No. 96UT54630 and Utah State Antiquities Permit No. U-97-SJ-0263b,s.

A file search for previously recorded cultural resource sites and paleontological localities near the current project area was conducted by Heather M. Weymouth and Timothy E. King on May 30, 1997 at the BLM, Vernal District Office.

More than 40 previous cultural resource projects have been conducted near the current project area. Due to the large number of projects conducted in this area, individual project descriptions will not be listed. However, two cultural resource sites and three paleontological localities are listed as being located near the current project area. Following is a brief description of these sites and localities:

Cultural Resource Sites

Site 42Dc2149. This site, located in a series of dune face blowouts overlooking a tributary of the south fork of Pariette Draw, is a sparse lithic scatter exhibiting potential for depth of cultural materials and features. This site was recommended ELIGIBLE to the National Register of Historic Places (NRHP).

Site 42Dc2150. This site, located in a series of dune face blowouts overlooking a tributary of the south fork of Pariette Draw, is a sparse lithic scatter exhibiting potential for depth of cultural materials and features. This site was recommended ELIGIBLE to the NRHP.

Paleontological Localities

Locality 42UN1073V

Locality 42UN1073V, located on a small bench north of Castle Peak Draw, consists of a very large scatter of vertebrate bone fragments weathering out of sandstone bedrock adjacent to Sundance State Well #12-32. Many fragments of large mammal vertebrae, segments of ribs and limb bones are visible both in and lying on the surface of the bedrock. One large

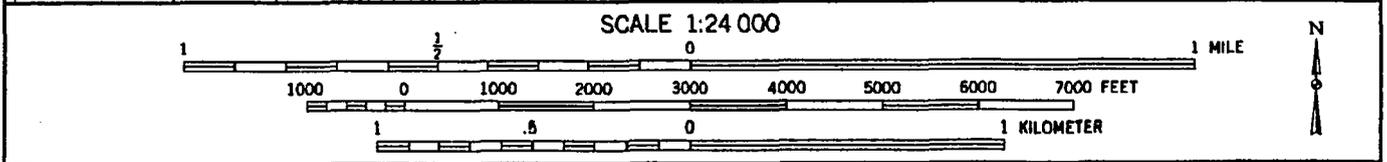
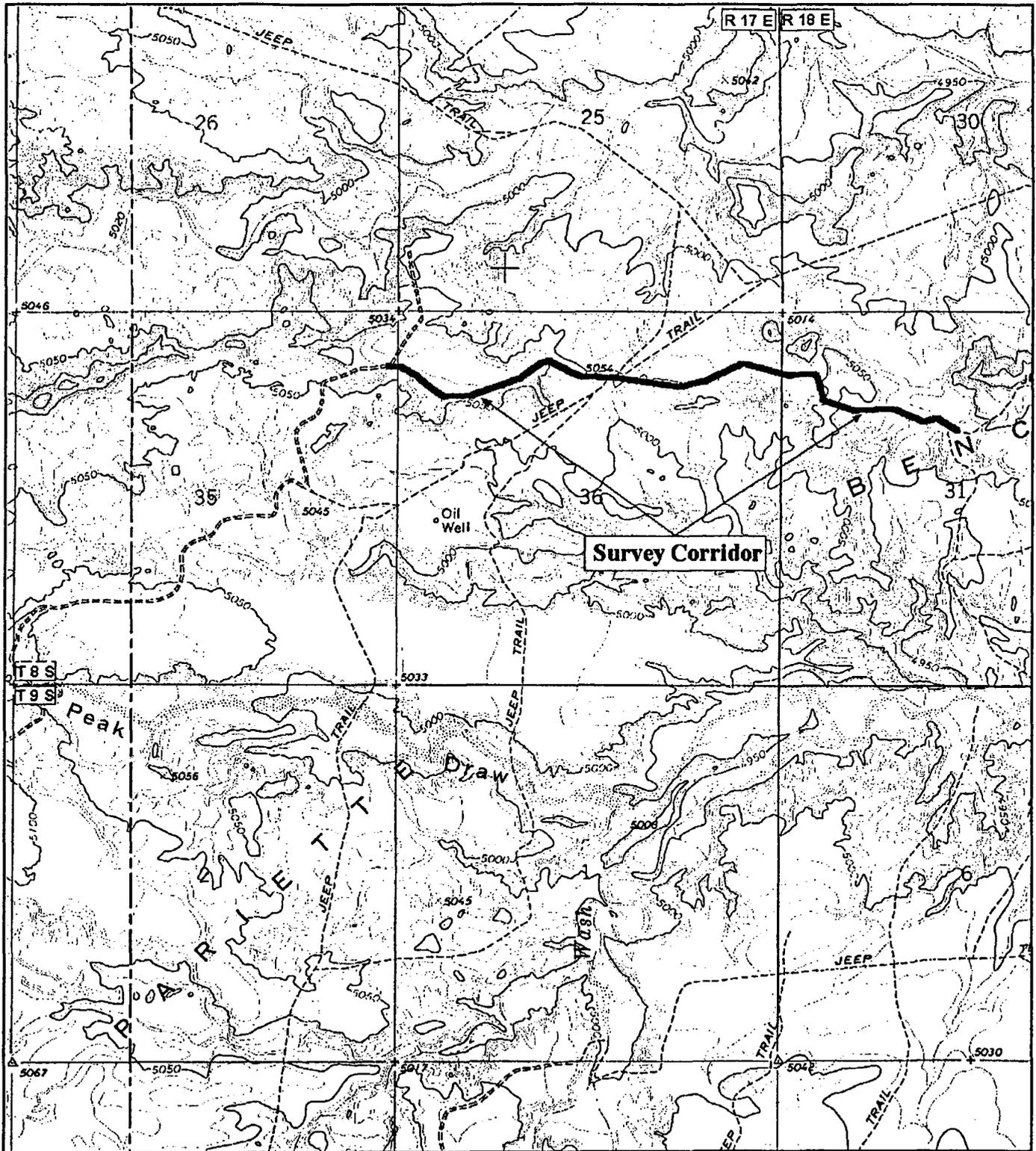


Figure 1. Location of area surveyed for Inland Resources Sundance State Unit access road corridor. Taken from: USGS 7.5' Quadrangle Pariette Draw SW, Utah (1964).

carnivore tooth and a number of turtle shell fragments were also noted at this locality. The fossil material at this loci is eroding out of the Middle Eocene Uinta Formation.

Locality 42UN1074V

Locality 42UN1074V, located in a small badlands draw just north of Castle Peak Draw, consists of a broad scatter of vertebrate bone fragments weathering out of mudstone sediments adjacent to Sundance State Well #6-32. Fragments of small mammal limb bones and jaw and skull were found lying on the mudstone. Three *Echmatemys* and one *Trionyx* turtle were also noted at this locality. The fossil material at this loci is eroding out of the Middle Eocene Uinta Formation.

Locality 42UN1075V

Locality 42UN1075V, located at the foot of a small bench north of Castle Peak Draw, consists of one *Echmatemys* turtle, scattered turtle shell and one loci containing small mammal bone fragments adjacent to Sundance State Well #11-32. The fossil material at this loci is eroding out of the Middle Eocene Uinta Formation.

In addition to these searches, the National Register of Historic Places (NRHP) was consulted prior to conducting the survey. No NRHP listed or determined eligible sites were found to be in the vicinity of the current project area.

ENVIRONMENT

The project area lies approximately 15 miles south of Fort Duchesne, Utah near Pariette Draw, in an area of low terraced ridge slopes and tablelands dissected by deep drainages and low eroding bedrock outcrops of sandstone and limestone. The surface sediments consist of an interfingering of fluvial deposits and thinly bedded Pleistocene lake bed deposits. Soils in these areas are poorly developed and range from extremely sandy to rocky in nature. Sediments consist of very fine grained, buff colored sand which contains a moderate amount of Pleistocene gravels and angular rock fragments of quartzite, mudstone, blocky chert, limestone and sandstone. Erosional features such as desert pavement are common along the terraced ridge slopes of the area. The elevation of the area surveyed ranges between 5030 and 5060 feet a.s.l. Vegetation is predominantly shadscale community species. Noted species include prickly pear cactus, ricegrass, greasewood, gray rabbitbrush, spiny horsebrush, desert buckwheat, bladderpod, spiny hopsage, Riddell groundsel and various other desert species. The nearest permanent water source in the area is an unnamed tributary to the Pleasant Valley Wash located to the north approximately one half mile from the project area. Cultural disturbance in the project area includes grazing, vehicle traffic and access roads leading to existing well locations.

METHODOLOGY

The area surveyed during this project consists of a single corridor 30 m (100 ft) wide and 2.6 km (1.5 mi) long. The survey area was identified using the existing two-track corridor and topographic landforms as points of reference. The corridor alignment was walked in two parallel transects spaced 10 m (32 ft) apart to cover a corridor width of 30 m (100 ft) each. The area surveyed during this project totaled 45 hectares (18 acres).

RESULTS

A total of four prehistoric sites (42Un2453, 42Un2454, 42Un2455 and 42Un2456), three isolated finds (IF-1 through IF-3), and two paleontological localities (42Un1080V and 42Un1081V) were recorded during this survey of the proposed Sundance State Unit access road (Figure 2 and 3)(Appendix A-C). Due to the relatively large number of fossils in the area, Paleontologist Sue Ann Bilbey was asked to evaluate the significance of paleontological materials identified within the project area. No additional sites, isolated artifacts or paleontological localities were identified during this inventory.

Cultural Resource Sites

Site 42Un2453

Site 42Un2453, located on a terraced ridge slope below two conical knolls, is a medium-sized cobble testing quarry centered upon the existing two-track corridor. The site consists of approximately 250-300 primary flakes and cobble cores of grey chert, brown chert, grey fine-grained quartzite and orange fine-grained quartzite. These materials are eroding from the landform as natural cobbles, heavily patinated by desert varnish, creating a desert pavement. The site measures 100 m east-west by 120 m north-south. The artifact assemblage is almost exclusively comprised of primary flakes and tested cobbles. One large bifacially flaked scraper or chopper (B-1) formed from brown fine-grained chert is present, measuring 5.5 cm long, by 3.5 cm wide, by 2 cm thick. Two hammerstones (H-1 and H-2) were also observed. H-1 is a reddish-brown ovate dense quartzite cobble displaying battering at both ends. It measures 7.5 cm long, by 3 cm wide, by 3 cm thick. H-2 is a dark grey ovate dense metamorphic cobble with battering at both ends and one fractured face. With one large flake removed, it measures 6.5 cm long, by 4.5 cm wide, by 3.5 cm thick. No concentrations of lithic material were observed, and no diagnostic tools or features were identified at this site. There is little probability for depth of cultural materials at the site.

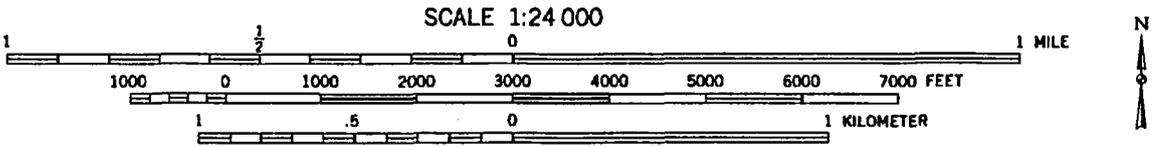
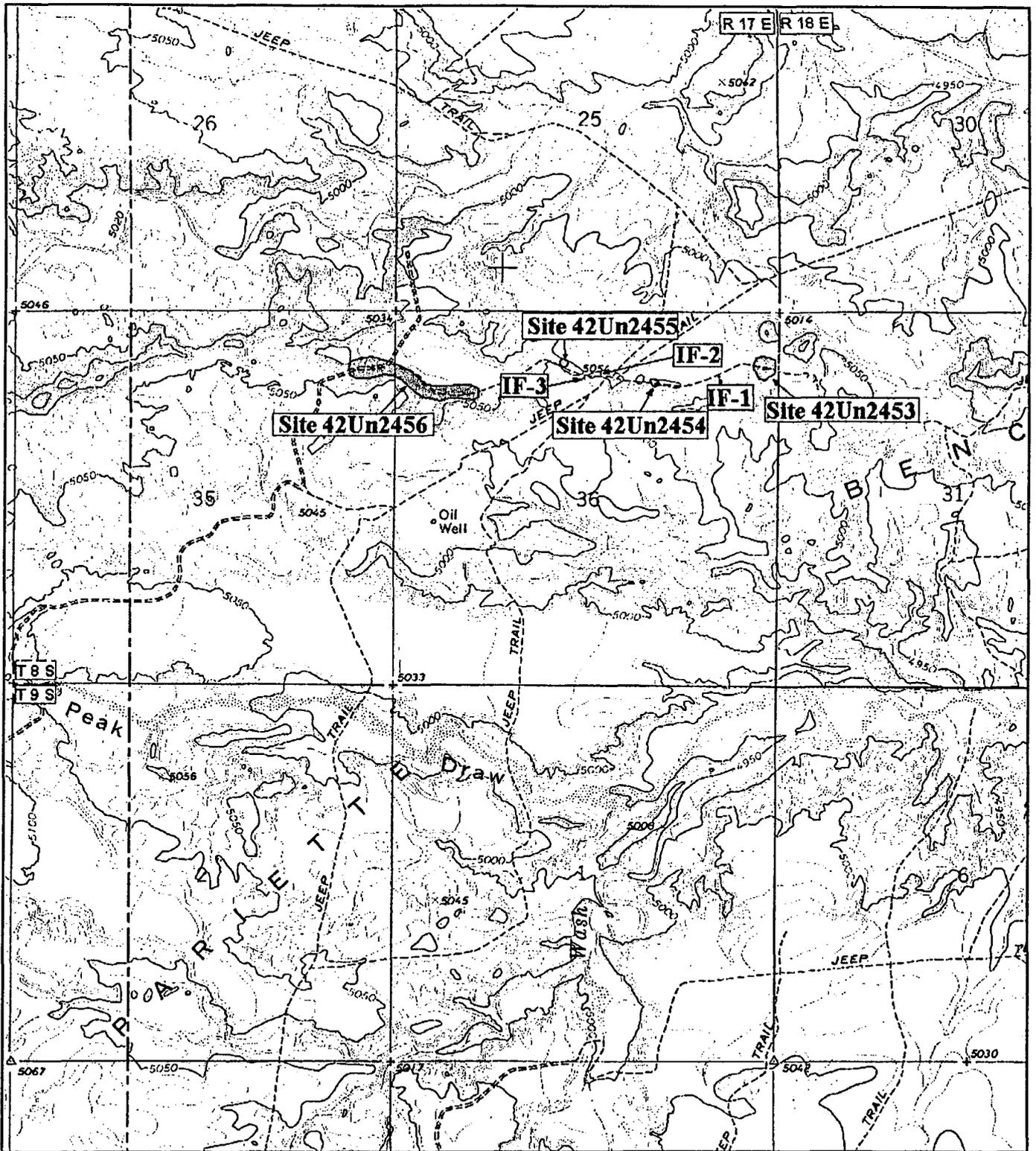


Figure 2. Location of cultural resource sites and isolated finds found during survey of Inland Resources Sundance State Unit access road corridor. Taken from: USGS 7.5' Quadrangle Paria Draw SW, Utah (1964).

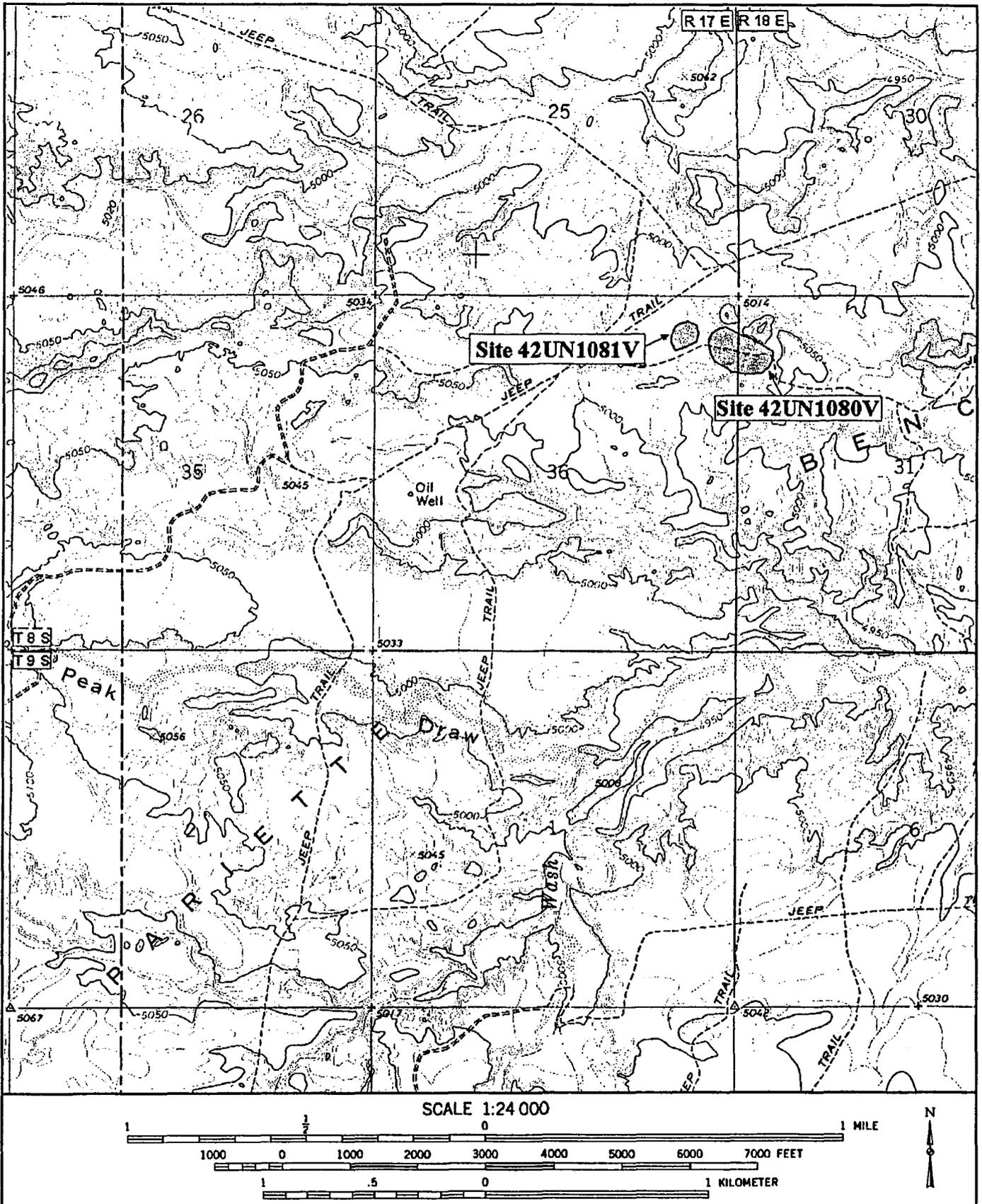


Figure 3. Location of paleontological localities found during inventory of Inland Resources Sundance State Unit access road corridor. Taken from: USGS 7.5' Quadrangle Pariette Draw SW, Utah (1964).

Site 42Un2454

Site 42Un2454, located on a terraced ridge slope and centered on the two-track corridor, is a small cobble testing area. The site consists of approximately 100 primary flakes and numerous tested cobbles of grey chert, brown chert and orange quartzite. These materials are eroding from the landform to form a desert pavement of natural cobbles, all patinated black by heavy desert varnish. Tan platy sandstone lies across the site. The site measures 40 m in diameter. The artifact assemblage is comprised of tested cobbles and primary flakes with no formed tools or extensively worked cores observed. No concentrations of lithic material were observed and no diagnostic tools or features were identified at the site. There is little probability for depth of cultural materials at the site.

Site 42Un2455

Site 42Un2455, located north of the two-track corridor on a terraced ridge slope, is a small cobble testing area. The site consists of approximately 100 primary flakes and numerous tested cobbles of grey chert, brown chert and orange quartzite. These materials are eroding from the landform to form a desert pavement of natural cobbles, all patinated black by heavy desert varnish. Tan platy sandstone lies across the site. The site measures 40 m in diameter. The artifact assemblage is comprised of tested cobbles and primary flakes with no formed tools or extensively worked cores observed. No concentrations of lithic material were observed and no diagnostic tools or features were identified at the site. There is little probability for depth of cultural materials at the site.

Site 42Un2456

Site 42Un2456, located along the edge of a terraced ridge slope, is a large low density lithic scatter and cobble testing area. The site consists of greater than 1000 primary and secondary flakes, tested cobbles and cores of grey chert, brown chert and orange quartzite. These materials are eroding from the landform to form a desert pavement of natural cobbles, all patinated black by heavy desert varnish. Tan platy sandstone lies across the site. The site measures 540 m east-west by 40 m north-south, though it may continue further to the north and west outside the immediate project area. The artifact assemblage is dominated by primary flakes and tested cobbles with some cores, secondary flakes and two bifaces (B-1 and B-2) observed. B-1 measures 6.5 cm long, by 3 cm wide, by 1 cm thick. B-2 measures 5.5 cm long, by 3.5 cm wide, by 1.5 cm thick. No concentrations of lithic material were observed and no diagnostic tools or features were identified at the site. There is some potential for subsurface cultural deposits in the dunal area of the eastern portion of the site.

Isolated Finds

IF-1

IF-1, located 15 m south of the two-track corridor upon a terrace ridge slope, consists of a bifacially worked brown chert chopper which has been lightly patinated by desert varnish. The

chopper measures 5.5 cm long, by 3.5 cm wide, by 2 cm thick. No other cultural materials were identified at this location.

IF-2

IF-2, located 5 m north of the two-track corridor upon a terraced ridge slope, consists of two flaked cobble cores (C-1 and C-2) of brownish-grey chert which have been lightly patinated by desert varnish. C-1 measures 12 cm long, by 7 cm wide, by 2 cm thick. C-2 measures 8.5 cm long, by 5.5 cm wide, by 2.5 cm thick. No other cultural materials were identified at this location.

IF-3

IF-3, located 5 m south of the two-track corridor upon a terraced ridge slope, consists of a large flake with multiple deeply-faceted flake scars. The flake measures 5.5 cm long, by 4.5 cm wide, by 1.5 cm thick. No other cultural materials were identified at this location.

Paleontological Localities

Locality 42DC305V

Paleontological Locality 42DC305, located north of the right-of-way below several conical hills, consists of a scatter of fossil turtle shell and crocodile bone fragments. This scatter eroded from the associated conical hills which display a well-exposed Middle Eocene Uinta Formation.

Locality 42DC306V

Paleontological Locality 42DC306, located north of the right-of-way and just southwest of several conical hills, consists of two Middle Eocene fossiliferous zones. One zone contains fossil turtle fragments. The other contains plant debris associated with fossil turtle fragments.

RECOMMENDATIONS

A total of four prehistoric sites (42Un2453, 42Un2454, 42Un2455, and 42Un2456), three isolated finds (IF-1 through IF-3), and two paleontological localities (42Un1080V and 42Un1081V) were recorded during this survey of the proposed access road. Though three isolated artifacts were noted during this survey, these artifacts are not associated with any known site and in-and-of-themselves cannot be considered for eligibility to the NRHP. Two paleontological localities (42Un1080V, 42Un1081V) were recorded by Paleontologist Sue Ann Bilbey during this inventory. Dr. Bilbey's recommendations concerning the significance of these localities are included later in this section (Appendix C).

Cultural Resources

As part of this inventory, sites were evaluated for eligibility to the NRHP based on criteria present in federal regulations set forth in *36CFR 60.4*:

The quality of significance in American history, architecture, archeology, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

(A) that are associated with events that have made a significant contribution to the broad patterns of our history; or

(B) that are associated with the lives of persons significant in our past; or

(C) that embody the distinctive characteristics of a type, period, or method of construction, or that represent 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) that have yielded, or may be likely to yield, information important in prehistory or history.

Prehistoric sites 42Un2453, 42Un2454 and 42Un2455 are recommended **NOT** eligible to the NRHP. The location of these sites, upon an erosional desert pavement surface with heavy patination of exposed rocks and artifacts, indicates little to no probability for buried cultural deposits (e.g. intact features). As such, this site is not likely to provide data useful in answering questions pertaining to the nature of prehistoric habitation in the area.

Site 42Un2456 is recommended **ELIGIBLE** to the NRHP under criterion D. The eastern portion of the site is located within a dunal complex which offers potential for buried cultural deposits and features. As such, this site offers potential to provide data useful in answering questions pertaining to the nature of prehistoric habitation in the area and may contribute information helpful in the understanding of broad patterns of aboriginal use within the Uintah Basin.

It is recommended that the small dunal complex associated with site 42Un2456 be avoided during construction of the Sundace State access road corridor. That portion of site 42Un2456 which exists within the dune has potential to contain buried cultural deposits. The remainder of the site lies on well developed desert pavement and lacks potential for depth of deposits. If this segment of the site will be significantly affected by proposed construction it is recommended that construction of that segment of the project corridor be monitored by a qualified Archaeologist.

Paleontological Resources

The significance of individual paleontological localities is based upon criteria defined by the U.S. Forest Service and the Bureau of Land Management (Raup 1987:122). This classification system is based upon the scientific value of the fossil material located, its context, state of preservation and uniqueness. A field classification system (as suggested by the Bureau of Land Management and Raup (1987:174)) defines the paleontological sensitivity of fossil localities:

Class 1. Critical - reference locality for holotype or critical paleontological material, or any type section of geological strata needed for future study. All vertebrate fossil sites fall within this category.

Class 2. Significant - any locality that produces rare, well-preserved, or critical fossils usable for taxonomic, evolutionary, stratigraphic, paleoenvironmental, or paleoecological studies.

Class 3. Important - any locality that produces common, abundant fossils useful for stratigraphic or population variability studies.

Class 4. Insignificant - any locality with poorly preserved, common, or stratigraphically unimportant fossil material.

Class 5. Unimportant - any locality intensively surveyed and determined to be of minimal scientific interest.

Based upon the above criteria, locality 42Un1080V is recognized as **IMPORTANT** to the general paleontology of the Uintah Basin and the State of Utah. Locality 42Un1081V is similarly recognized as **SIGNIFICANT**.

Rock outcrops in the project area are of the Middle Eocene Uinta Formation, which is known for its important fossil vertebrate fauna of mammal, turtle, crocodilian remains. Occasionally fossil fish, plant, and animal tracks are also found in this formation. Locality 42Un1080V is considered an **IMPORTANT** paleontological resource.

The association of vertebrate fossils with intact plant or pollen remains are considered to be rare within the Middle Eocene Uinta Formation. Locality 42Un1081V is considered a **SIGNIFICANT** paleontological resource.

The fossil material identified at locality 42Un1080V is, while important, fairly common to the region. Due to the relative abundance of fossil turtle and crocodile in the vicinity, paleontological clearance is recommended for this locality.

The paleontological material identified at locality 42Un1081V is a rarity among the Uintah Formation and may provide further information important to the paleontological

study of the Uintah Basin and the State of Utah. The *in situ* association of vertebrate and plant materials could prove very useful for paleoenvironmental and paleoecological studies. Avoidance of this fossiliferous exposure is recommended. Monitoring by a paleontologist is recommended should it not be possible to avoid the locality.

This investigation was conducted with techniques which are considered to be adequate for evaluating cultural and paleontological resources that are visible for inspection and could be adversely affected by the project. However, should such resources be discovered during construction, a report should be made immediately to the BLM District Archaeologist, Vernal District Office, Vernal, Utah. Also, if well preserved fossil material is encountered during construction, contact should be made with the Paleontological Office of the Utah Geological Survey in Salt Lake City, Utah.

REFERENCE CITED

Raup, D. M. (Committee Chairman)
1987 *Paleontological Collecting*. National Academy of Science Press,
Washington D. C.

APPENDIX A
IMACS Site Forms
(Detached)

APPENDIX B
Isolated Artifact Record Sheets
(Detached)

APPENDIX C
Paleontological Locality Data Sheets
(Detached)

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 04/14/2000

API NO. ASSIGNED: 43-047-33549

WELL NAME: ODEKIRK SPRINGS 1A-35-8-17
 OPERATOR: INLAND PRODUCTION (N5160)
 CONTACT: JON HOLST

PHONE NUMBER: 303-893-0102

PROPOSED LOCATION:
 NENE 35 080S 170E
 SURFACE: 0660 FNL 0660 FEL
 BOTTOM: 0660 FNL 0660 FEL
 UINTAH
 8 MILE FLAT NORTH (590)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1- Federal
 LEASE NUMBER: U-40026
 SURFACE OWNER: 1- Federal

PROPOSED FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

Plat
 Bond: Fed Ind Sta Fee
 (No. 4488944)

Potash (Y/N)
 Oil Shale (Y/N) *190 - 5 (B)
 Water Permit
 (No. MUNICIPAL)

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

Fee Surf Agreement (Y/N)

LOCATION AND SITING:

R649-2-3. Unit _____
 R649-3-2. General
 Siting: _____
 R649-3-3. Exception

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

 R649-3-11. Directional Drill

COMMENTS: BLM aprv. 6-1-2000. (mon. Belle Field, SOP, separate file)
GRRV Development Program, rec'd 6-16-00.

STIPULATIONS: ① FEDERAL APPROVAL

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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

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

5. LEASE DESIGNATION AND SERIAL NO. **U-40026**

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

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
**BLM VERNAL, UTAH
Odekirk Springs**

9. WELL NO.
1A-35-8-17

10. FIELD AND POOL OR WILDCAT
Monument Butte

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 35-T8S-R17E

12. County **Uintah** 13. STATE **UT**

2. NAME OF OPERATOR
Inland Production Company

3. ADDRESS OF OPERATOR
410 - 17th Street, Suite 700, Denver, CO 80202 Phone: (303) 893-0102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At Surface **NENE 660' FNL & 660' FEL**
 At proposed Prod. Zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 15.8 miles from Myton, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE. FT. (Also to nearest drlg. unit line, if any) 660' f/unit line & 660' f/lse line	16. NO. OF ACRES IN LEASE	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.)
5097' GR

22. APPROX. DATE WORK WILL START*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Refer to Monument Butte Field SOP's Drilling Program/Casing Design				

Inland Production Company proposes to drill this well in accordance with the attached exhibits.
 The Conditions of Approval are also attached.

RECEIVED
 JUN 09 2000
 DIVISION OF
 OIL, GAS AND MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data 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.

24. SIGNED *Jon Holst* TITLE **Counsel** DATE **4/11/00**

(This space for Federal or State office use)
 PERMIT NO. **43-047-33549** APPROVAL DATE _____
 Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:
 APPROVED BY *Theresa B. Cleavage* TITLE **Assistant Field Manager Mineral Resources** DATE **6/1/00**

***See Instructions On Reverse Side**

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

CONDITIONS OF APPROVAL ATTACHED

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Odekirk Springs 1A-35-8-17

API Number: 43-047-33549

Lease Number: U -40026

Location: NENE Sec. 35 T. 08S R. 17E

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

RECEIVED

JUN 09 2000

DIVISION OF
OIL, GAS AND MINING

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Casing Program and Auxiliary Equipment

As a minimum, the usable water resources and other resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Green River Formation, identified at ± 594 ft.

RECEIVED

JUN 09 2000

DIVISION OF
OIL, GAS AND MINING

SURFACE USE PROGRAM
Conditions of Approval (COA)
Inland Production Company - South Wells Draw #1A-35-8-17

Plans For Reclamation Of Location

All seeding for reclamation operations at this location shall use the following seed mixture:

galleta grass	Hilaria jamessi	3 lbs/acre
gardner saltbush	Atriplex gardneri	3 lbs/acre
shadscale	Atriplex confertifolia	4 lbs/acre
indian rice grass	Oryzopsis hymenoides	2 lbs/acre

If the seed mixture is to be aerially broadcasted, the pounds per acre shall be doubled. All seed poundages are in Pure Live Seed.

Immediately after construction the stockpiled top soil will be seeded and the seed worked into the soil by "walking" the pile with caterpillar tracks.

RECEIVED

JUN 09 2000

DIVISION OF
OIL, GAS AND MINING



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

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

June 12, 2000

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

Re: Odekirk Springs 1A-35-8-17 Well, 660' FNL, 660' FEL, NE NE, Sec. 35, T. 8 South,
R. 17 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 43-047-33549.

Sincerely,

A handwritten signature in black ink, appearing to read "John R. Baza".

for John R. Baza
Associate Director

er

Enclosures

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

Operator: Inland Production Company

Well Name & Number Odekirk Springs 1A-35-8-17

API Number: 43-047-33549

Lease: U-40026

Location: NE NE Sec. 35 T. 8 South R. 17 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

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338
- Contact Robert Krueger at (801) 538-5274.

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. State approval of this well does not supersede the required federal approval which must be obtained prior to drilling.



June 14, 2000

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

RE: Applications for Permit to Drill
Odekirk Springs #15-35-8-17
and Odekirk Springs #1A-35-8-17
Section 35, T8S, R17E
Duchesne County, Utah

Dear Ms. Cordova:

Enclosed please find amended Onshore Orders for the two referenced wells in Duchesne County, Utah, submitted in duplicate for your approval.

Also enclosed are two copies of the new Green River Standard Operating Procedures (SOP). I have sent this new SOP to the BLM in Vernal for their approval and comment.

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

Sincerely,

Joyce McGough
Regulatory Technician

Enclosures

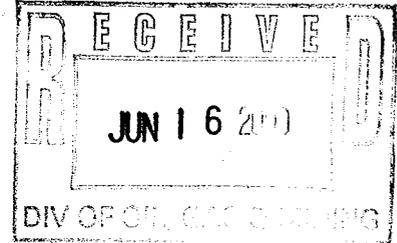
cc: Roosevelt Office
Jon Holst

SEARCHED
SERIALIZED
INDEXED
FILED
JUN 15 2000
FBI - DENVER

INLAND PRODUCTION COMPANY
ODEKIRK SPRINGS 1A-35-8-17
NE/NE SEC 35, T8S, R17E
UINTAH COUNTY, UTAH

ONSHORE ORDER NO. 1

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:

Please refer to the Green River Standard Operating Procedures (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Green River SOP. See Exhibit "F".

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Green River SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Green River SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Green River SOP.

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.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Green River SOP.

INLAND PRODUCTION COMPANY
ODEKIRK SPRINGS 1A-35-8-17
NE/NE SEC 35, T8S, R17E
UINTAH COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. **EXISTING ROADS**

See attached Topographic Map "A"

To reach Inland Production Company well location site for the Odekirk Springs #1A-35-8-17, NE/NE of Section 35, T8S, R17E, Uintah County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 approximately 1.5 miles to the junction of this highway and Utah State Highway 216; proceed southerly and then southeasterly along Utah State Highway 216 approximately 10.6 miles; then proceed northeasterly 3.7 miles to the start of the proposed access road; proceed northerly approximately 100' to the proposed well site.

2. **PLANNED ACCESS ROAD**

See Topographic Map "B" for the location of the proposed access road.

3. **LOCATION OF EXISTING WELLS**

Refer to Exhibit "D"

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

Please refer to the Green River SOP.

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

Please refer to the Green River SOP. See Exhibit "C".

6. **SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Green River SOP.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Green River SOP. See Exhibit "E".

8. **ANCILLARY FACILITIES:**

Please refer to the Green River SOP.

9. **WELL SITE LAYOUT:**

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s) and surface material stockpile(s). Refer to Exhibits "E" and "E-1".

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

Please refer to the Green River SOP.

11. **SURFACE OWNERSHIP:** Bureau of Land Management

12. **OTHER ADDITIONAL INFORMATION:**

The Archaeological Cultural Resource Survey is attached.

Inland Production Company requests a 60' ROW for the Odekirk Springs #1A-35-8-17 to allow for construction of a 6" poly gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. Refer to Topographic Map "C".

Inland Production Company also requests a 60' ROW be granted for the Odekirk Springs #1A-35-8-17 to allow for construction of a 3" steel water injection line and a 3" poly water return line. Refer to Topographic Map "C".

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

Representative

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

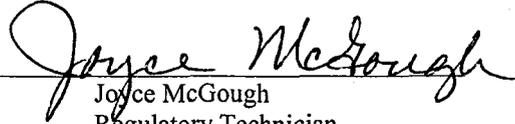
Certification

Please be advised that INLAND RESOURCES, INC. is considered to be the operator of the Odekirk Springs #1A-35-8-17, NE/NE Sec. 35, T8S, R17E, 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 #4488944.

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.

6/13/2000

Date


Joyce McGough
Regulatory Technician

INLAND PRODUCTION COMPANY

STANDARD OPERATING PRACTICES

GREEN RIVER DEVELOPMENT PROGRAM Duchesne and Uintah Counties, Utah

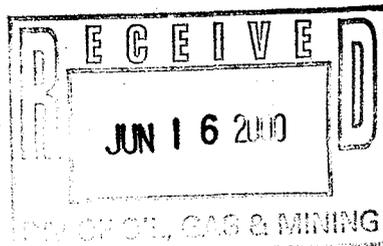
DRILLING PROGRAM

All operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43CFR3100), Onshore Oil and Gas Orders, Notices to Lessees, and the approved Plan of Operations. As Operator, Inland Production Company (Inland) is fully responsible for the actions of its subcontractors. A copy of these Standard Operating Practices as well as any Conditions Of Approval (COAs) will be supplied to the field representative to ensure compliance.

BLM Notification Requirements

Location Construction:	48 hours prior to construction of location and access roads including, if applicable, the Ute Tribe Energy and Mineral Department, or private surface owner.
Location Completion:	Prior to moving the drilling rig.
Spud Notice:	At least 24 hours prior to spudding the well.
Casing String & Cementing:	At least 24 hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests:	At least 24 hours prior to initiating pressure tests.
First Production Notice:	Within 5 days after new well begins or production resumes after well has been off production for more than 90 days.

Details of the on-site inspection, including date, time, and individuals present, will be submitted with the site specific APD.



1. Estimated Tops of Important Geologic Markers:

Within the Monument Butte Green River Development Field, surface locations are in the Uinta Formation.

The top of the Green River formation will be encountered between 1300'-1900'.

The Mahogany Shale occurs between 2900'-3200'.

The Wasatch Formation, occurring between 6300'-6900', will not be penetrated in a standard Monument Butte Field Green River development well.

2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Gilsonite may be encountered between 0'-3200'.

It is anticipated that oil & associated gas will be encountered in the Green River Formation, with economically producible hydrocarbons between 4000'-TD.

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 600'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 ppm TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (according to State of Utah)	
Dissolved Iron (Fe) (ug/l)	Dissolved Calcium (Ca) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Bicarbonate (NaHCO ₃) (mg/l)	Dissolved Carbonate (CO ₃) (mg/l)
Dissolved Sulfate (SO ₄) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Total Solids (TDS) (mg/l)	

3. **Pressure Control Equipment:** (Schematic Attached)

Inland's minimum specifications for pressure control equipment for a standard Monument Butte Field Green River development well are as follows:

A Double Ram BOP with a hydraulic closing, plus either an Annular Bag type BOP or a Rotating BOP will be utilized. If no annular preventer is used, ramblocks will be changed to match casing outside diameter and the stack will be re-tested prior to running any casing string or long string.

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 2M system, and individual components shall be operable as designed.

Function test of the BOP equipment shall be made daily. All required BOP tests and/or drills shall be recorded in the Driller's report.

Chart recorders will be used for all pressure tests. Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to BLM representatives upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2 regarding air or gas shall be adhered to. If a mist system is being utilized, the requirement for a deduster shall be waived.

Auxiliary well control equipment to be used as follows:

1. Kelly cock.
2. A bit float is not deemed necessary, but may be utilized to protect downhole mud motors.
3. A sub with a full opening (TIW) valve having threads compatible with all drill string tubulars shall be readily accessible to the drill crews at all times.

4. **Proposed Casing and Cementing Program:**

a. **Casing Design:**

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt/ft</u>	<u>Grade</u>	<u>Type</u>
Surface	0-300'	12-1/4"	8-5/8"	24#	J-55	ST&C
Production	0-TD	7-7/8"	5-1/2"	15.5#	J-55	LT&C

With the exception of conductor casing, all casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

b. Cement Design:

<u>Function</u>	<u>Hole Size</u>	<u>Csg Dia.</u>	<u>Wt./ft.</u>	<u>Shoe Depth</u>	<u>Sacks of Cement</u>
Surface	12-1/4"	8-5/8"	24#	300"	120sx
Production	7-7/8"	5-1/2"	15.5#	TD	350 lead / 330 tail

Surface Pipe: 120 Sacks Premium Plus Cement, w/ 2% Gel, 2% CaCl₂, 1/4#/sk Flocele
Weight: 14.8 PPG Yield: 1.37 cu ft/sk. H₂O Req.: 6.4 Gal/sk.

Waiting On Cement: A minimum of four (4) hours shall elapse prior to attempting any pressure testing of the BOP equipment which would subject the surface casing cement to pressure, and a minimum of six (6) hours shall elapse before drilling out of the wiper plug, cement, or shoe is begun. WOC time shall be recorded in the Driller's Log. Compressive Strength shall be a Minimum of 500 psi prior to drilling out.

Long String: Flush: 20 bbls dyed water followed by 20 bbls gelled water.

Lead: 350 sacks Hibond 65 Modified.
Weight: 11.0 PPG. Yield: 3.00 cu ft/sk. H₂O Req.: 18.08 Gal/sk.

Tail: 330 sacks Premium Plus Thixotropic w/ 10% CalSeal.
Weight: 14.2 PPG. Yield: 1.59 cu ft/sk. H₂O Req.: 7.88 Gal/sk.

(Actual cement volumes will be calculated from open hole logs, plus 15% excess).

The Vernal BLM Office shall be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

The production casing cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals.

If conductor drive pipe is used, it may be left in place if its total length is less than 20 feet below the surface. If the total length of the drive pipe is equal to or greater than 20 feet, it will be

pulled prior to cementing surface casing, or it may be cemented in place. The minimum diameter for conductor drive pipe shall be 13 3/8".

As a minimum, usable water zones shall be isolated and/or protected by having a cement top for the production casing at least 200 feet above the base of the usable water. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc., shall be utilized to help isolate the cement from contamination by the mud being displaced ahead of the cement slurry.

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or to 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action shall be taken.

The following reports shall be filed with the Vernal Office Manager within 30 days after the work is completed:

Progress reports, Form 3160-5, "Sundry Notices and Reports on Wells," must include the following information:

Setting of each string of casing showing the size, grade, weight of casing set, depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of the cementing tools used, casing test method and results, and the date of the work done. Spud date will be shown on the first reports submitted.

5. **Drilling Fluids Program:**

a. **Type and Characteristics of the Circulation Muds:**

From surface to \pm 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/polymer/DAP (Di-Ammonium Phosphate, commonly known as fertilizer) system will be utilized. Clay inhibition and hole stability will be achieved with additions of 5 - 8 lbs. per barrel of DAP. 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 on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

6. **Evaluation Program:**

a. **Logging Program:**

(the log types run may change at the discretion of the geologist)

DLL/CALIPER: TD to base of surface casing.

FDC/CNL/GR: TD - 3,000'

CBL: A cement bond log will be run from TD to cement top.
A field copy will be submitted to the Vernal BLM Office.

b. **Cores:** As deemed necessary.

c. **Drill Stem Tests:** No DSTs are planned in Green River Development Wells.

Drill stem tests, if they are run, will adhere to the following requirements: Initial opening of the drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the Authorized Officer (AO). However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released but tripping shall not begin before daylight, unless prior approval is obtained from the AO. Closed chamber DSTs may be performed day or night.

Some means of reverse circulation shall be provided in case of flow to the surface showing evidence of hydrocarbons.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

If a DST is performed, all engines within 100 feet of the wellbore that are required to be operational during the test shall have spark arresters or water-cooled exhausts.

7. Abnormal Conditions:

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.4 psi/foot gradient.

8. Anticipated Starting Dates and Notification of Operations:

a. **Drilling Activity**

Anticipated Commencement Date: Upon approval of the site specific APD.

Drilling Days: Approximately 7 days.

Completion Days: Approximately 10 - 14 days.

b. **Notification of Operations**

The Vernal BLM office will be notified at least 24 hours **prior** to the commencement of spudding the well (to be followed with a Sundry Notice, Form 3160-5), of initiating pressure tests of the blowout preventer and related equipment, and running casing and cementing of all casing strings. Notification will be made during regular work hours (7:45 a.m.-4:30 p.m., Monday - Friday except holidays).

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in suspended status without prior approval from the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Daily drilling and completion reports shall be submitted to the Vernal BLM Office on a weekly basis. Daily drilling reports also shall be submitted to the Vernal BLM Office after drilling operations are completed for each well, and daily completion records shall be submitted with the completion report for each well.

Whether the well is completed as a dry hole or a producer, the "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. One copy of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Authorized Officer (AO).

A completion rig will be used for completion operations. All conditions of this approved plan will be applicable during all operations conducted with the completion rig.

Operator shall report production data to the MMS pursuant to 30 CFR 216.5 using form MMS/3160. In accordance with Onshore Oil and Gas Order No. 1, a well will be reported on form 3160-6, "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM Office.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated, or the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever occurs first; and for gas wells, as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated, or the date on which gas is measured through permanent metering facilities, whichever occurs first.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by written communication not later than 5 days following the date when the well is placed on production.

Pursuant to Onshore Order No. 7, with the approval of the AO, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During this period, an application for approval of the permanent disposal method must be submitted to the AO.

Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during the initial well evaluation tests, not to exceed 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the AO and approval received for any venting/flaring of gas beyond the initial 30 days or authorized test period.

A schematic facilities diagram, as required by 43 CFR 3162.7-5(b.9.d), shall be submitted to the Vernal BLM Office within 60 days of installation or first production, whichever occurs first. All site security regulations, as specified in Onshore Oil & Gas Order No. 3, shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5(b.4).

Well abandonment operations shall not be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment", Form 3160-5, will be filed with the Authorized Officer within 30 days following completion of the well for abandonment. This report will indicate placement of the plugs and current

status of the surface restoration. Final Abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate surface managing agency.

Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with the State and local laws, to the extent to which they are applicable, to operations on Federal or Indian lands.

9. *Variances:*

The Operator requests approval to perform drilling operations without an automatic igniter, and to ignite as needed, with the flowline at 80 feet.

The Operator requests a variance from a straight-run blooie line, the flowline will contain two (2) 90-degree turns.

The Operator requests that the requirement for a deduster be waived if a mist system is utilized.

10. *Other Information:*

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted following initial installation and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal BLM Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3. **Mineral materials displaced in the ordinary course of conducting operations and/or construction activities may be used for oil and gas development purposes within the subject lease in accordance with BLM approved actions. Mineral materials may also be obtained by making application for a mineral material sale under the provisions of 43 CFR 3610.1-1.**

Deviations from the proposed drilling and/or workover program shall be approved by the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the Authorized Officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

Failure to comply with the royalty notice requirement in the manner and time allowed shall result in a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See section (109)(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approval or notification is necessary, one of the following individuals will be contacted:

Wayne Bankert (435)789-4170
Petroleum Engineer

Ed Forsman (435)789-7077
Petroleum Engineer

Jerry Kenczka (435)781-1190
Petroleum Engineer

BLM FAX Machine (435)781-4410

INLAND PRODUCTION COMPANY

STANDARD OPERATING PRACTICES

GREEN RIVER DEVELOPMENT PROGRAM Duchesne and Uintah Counties, Utah

SURFACE USE PLAN OF OPERATIONS

1. **Existing Roads:**

The location of each well will be shown on maps and described in the **submitted**, site specific APD.

All improvements to existing access roads will be described in the site specific APD and will comply with the Planned Access Road Standard Operating Practices described in Section 2 of this document.

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. **Planned Access Roads:**

Descriptions of the access road will be included in site specific APD. New access roads on BLM surface will be crowned (2 - 3%), ditched, and constructed with a running surface of 18 feet and a maximum disturbed width of 30 feet. Graveling or capping the roadbed will be performed as necessary to provide a well constructed, safe road. Prior to construction or upgrading, the proposed road shall be cleared of any snow and allowed to dry completely. On Ute Tribal, private, and/or state surface, access roads will be constructed according to the surface owner's specifications. These specifications or Rights-Of-Way (ROWs) will be attached to the site-specific APD. Where deep cuts are required for road construction, or where intersections or sharp curves occur, or when approval is issued by the BLM's Authorized Officer (AO), the road may be wider than 18 feet to accommodate larger equipment. Appropriate water control will be installed to control erosion.

Unless specified in the site-specific APD, the following specifications will apply:

- No pipelines will be crossed with the new construction.
- The maximum grade will be less than 8%.
- There will be no turnouts.

- There will be no major cut and fills, culverts, or bridges. If it becomes necessary to install a culvert at some time after approval of the APD, the BLM will be notified of the installation via sundry.
- The access road will be centerline flagged during time of staking.
- There will be no gates, cattle guards, fence cuts, or modifications to existing facilities.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

Access roads and surface disturbing activities will conform to standards outlined in the BLM and Forest Service publication: Surface Operating Standards for Oil and gas Exploration and Development, 1989.

The road surface and shoulders will be kept in a safe and usable condition and will be maintained in accordance with the original construction standards. All drainage ditches and culverts will be kept clear and free-flowing and will be maintained according to original construction standards. The access road ROW will be kept free of trash during operations. All traffic will be confined to the approved ROW. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Should mud holes develop, they shall be filled in and detours around them avoided. When snow is removed from the road during the winter months, the snow should be pushed outside of the borrow ditches, and the turnouts kept clear so that snowmelt will be channeled away from the road.

3. **Location of Existing Wells Within a 1-Mile Radius:**

A map will be provided with the site-specific APD showing the location of existing wells within a one mile radius.

4. **Location of Existing and Proposed Facilities:**

The following guidelines will apply if the well is productive.

- A dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut. The specific APD will address additional capacity if such is needed due to environmental concerns. (The use of topsoil for the construction of dikes will not be allowed)

- All permanent (on site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors which are described by the five state Rocky Mountain Inter-Agency Committee. The AO will make a determination of which color is appropriate.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Desert Brown, Munsell standard color number.

- A description of the proposed pipelines and a map will be included with the site-specific APD. Pipelines will be constructed of 4" OD steel. Pipeline segments will be welded together on disturbed areas in or near the location (whenever possible), and dragged into place.

5. **Location and Type of Water Supply:**

Unless otherwise specified in the site-specific APD, water for drilling and completion purposes will be obtained from Johnson Water District. A temporary line may be used for water transportation from our existing supply line, from Johnson Water District, or trucked from Inland's water supply lines, located at the Gilsonite State #7-32 (SW/NE, Sec. 32, T08S, R17E, SLM), or the Monument Butte Federal #5-35 (SW/NW, Sec. 35, T08S, R16E, SLM), or the Travis Federal #15-28 (SW/SE, Sec. 28, T08S, R16E, SLM), or other taps which may be installed on Inland's water system in the future.

Water will be hauled to location over the roads marked on maps included with the site-specific APD.

6. **Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2-3.

7. **Methods of Handling Waste Materials:**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be used at the next drill site or will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated. Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

Unless specified in the site-specific APD, the reserve pit will be constructed on the location and will not be located within natural drainage ways, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

If it is determined at the onsite inspection that a pit liner is necessary, the reserve pit will be lined with a synthetic reinforced liner a minimum of 12 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. Trash or scrap that could puncture the liner will not be disposed of in the pit.

Reserve pit leaks are considered an undesirable event and will be orally reported to the AO.

After first production, produced wastewater will be confined to the approved pit or storage tank, or removed and disposed of at an approved facility, for a period not to exceed 90 days. During the 90 day period, in accordance with Onshore Order # 7, an application for approval of a permanent disposal method and location will be submitted for the Authorized Officer's approval.

On BIA administered lands, production fluids will be contained in leak-proof tanks. All production fluids will be disposed of at approved disposal sites. Produced water, oil, and other byproducts will not be applied to roads or well pads for control of dust or weeds.

The indiscriminate dumping of produced fluids on roads, well sites, or other areas will not be allowed.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. Trash will not be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of wells within the Monument Butte Field (MBF). Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of wells within the MBF. Specific APDs shall address any modifications from this policy.

Attachment 1 contains the EPA List of Nonexempt Exploration and Production Wastes.

8. Ancillary Facilities:

Surface gas lines:

- No installation of surface gas lines will be performed during periods when the soil is too wet to adequately support installation equipment. If such equipment creates ruts in excess of three (3) inches deep, the soil will be deemed too wet to adequately support the equipment.
- Where possible, surface gas lines shall be placed as close to existing oil field roads as possible without interfering with normal road travel or road maintenance activities. For lines that are installed cross-country (not along access roads), travel along the lines will be infrequent and for maintenance needs only. If surface disturbance occurs along the lines, the operator will reclaim the land to the satisfaction of the AO of the appropriate surface management agency.
- All surface lines will be either black or brown in color.

9. Well Site Layout:

A Location Layout Diagram describing drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s), and the surface material stockpile(s) will be included with the site-specific APD.

The diagram will describe rig orientation, parking areas, and access roads, as well as the location of the following:

- The reserve pit.
- The stockpiled topsoil (first six inches); All brush removed from the well pad during construction will be stockpiled with the topsoil. Topsoil shall not be used in the construction of facility berms.
- Access road.

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

- 39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

- Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.
- All wire shall be stretched using a stretching device before it is attached to corner posts.
- The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.
- If flare pits are utilized, they will be located downwind from the prevailing wind direction **and constructed in accordance with appropriate BLM guidelines and regulations.**

10. **Plans for Reclamation of the Surface:**

Producing Location:

- Immediately upon well completion, the location and surrounding area will be cleared of trash and debris and all unused tubing and materials not required for production.
- Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.
- If a synthetic, nylon-reinforced liner is used, the excess liner will be cut off and removed and the remaining liner will be torn and perforated while backfilling the reserve pit. Alternatively, the pit will be pumped dry, the liner folded into the pit, and the pit backfilled. The liner will be buried to a minimum of four (4) feet deep. The AO will provide a seed mixture to revegetate the reserve pit and other unused disturbed areas at the time of the onsite.
- The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to approximate the natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion, weather permitting. This will be completed by the backfilling and crowning of the pit to prevent water from standing. **Topsoil will be respread, and the pit area reseeded immediately following the respreading of the topsoil. The appropriate seed mixture will be provided by the AO.**

Dry Hole/Abandoned Location:

- At the time of final abandonment, the intent of reclamation will be to return disturbed areas to near natural conditions. All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed within six (6) months, weather permitting, after final abandonment. The surface of disturbed areas will be recontoured to blend all cuts, fills, road berms, and borrow ditches to be natural in appearance as compared to the surrounding terrain. Abandoned well sites, road, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions may include the reestablishment of irrigation systems, the reestablishment of appropriate soil conditions, and the reestablishment of vegetation as specified.
- After recontouring of disturbed areas, any stockpiled topsoil will be spread over the surface, and the area reseeded **immediately**. The location and access road will be revegetated to the satisfaction of the AO of the appropriate surface management agency. **The seed mixture will be that provided at the time of the onsite or**, the AO will be contacted at the time of reclamation for the appropriate seed mixture. Seed will be drilled on the contour to an appropriate depth. Reseeding operations will be performed **immediately** after completion of reclamation operations.

11. **Surface Ownership:**

The ownership of the access roads will be specified on the site-specific APD.

The ownership of well pad will be specified on the site-specific APD.

12. **Other Information:**

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

All travel will be restricted to approved travel routes.

The Operator will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the BLM or the appropriate County Extension Office. On BLM administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides or other pesticides or possibly hazardous chemicals.

Drilling rigs and/or equipment used during drilling operations on this location will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without

BLM authorization. If BLM authorization is obtained, such storage is only a temporary measure.

Unless previously conducted, a Class III archeological survey will be conducted on all Federal and/or Tribal lands. All personnel will refrain from collecting artifacts and from disturbing any significant cultural resources in the area. The Operator is responsible for informing all persons in the area who are associated with this project that they may be subject to prosecution for knowingly disturbing historic or archaeological sites or for collecting artifacts. All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in the archaeological report, and to the existing roadways and/or evaluated access routes. If historic or archaeological materials are uncovered during construction, the Operator is to immediately stop work that might further disturb such materials and contact the AO and the Ute Tribe Energy and Mineral Department.

Within five working days, the AO will inform the Operator as to:

- Whether the materials appear eligible for the National Historic Register of Historic Places;
- The mitigation measures the Operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and,
- A time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the Operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise the Operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Authorized Officer (AO) that required mitigation has been completed, the Operator will then be allowed to resume construction.

On surface administered by the BIA, all Surface Use Conditions of Approval associated with the BIA Concurrence letter and Environmental Analysis Mitigation Stipulations will be adhered to, including:

- Any/all contractors used by Inland will have acquired a Tribal Business License and have access permits prior to construction.
- If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an approved right-of-way will be obtained from the BIA before the Operator begins any construction activities. The BIA right-of-way application will be delivered under separate cover. If the surface is owned by another entity and the mineral rights are owned by the Ute Indian Tribe, a right-of-way will be obtained from the other entity.

- Upon completion of the APD and right-of-way construction, the Ute Tribe Energy and Mineral Department will be notified so that a Tribal Technician can verify an Affidavit of Completion.
- Operator's employees, including subcontractors, will not gather firewood along roads constructed by the Operator. If woodcutting is required, a permit will be obtained from the Forestry Department of the BIA pursuant to 25 CFR 169.13 "Assessed Damages Incident to Right-of Way Authorization." The Operator, subcontractors, vendors and their employees or agents may not disturb saleable timber (including firewood) without a duly granted wood permit from the BIA Forester.
- All roads constructed by the Operator on the Uinta and Ouray Indian Reservation will have appropriate signs. Signs will be neat and of sound construction. The sign will state:
(a) that the land is owned by the Ute Indian Tribe, (b) the name of the Operator, (c) that firearms are prohibited to all non-Ute Tribal members, (d) that permits must be obtained from the BIA before cutting firewood or other timber products, and (e) only authorized personnel permitted.
- All well site locations on the Uinta and Ouray Indian Reservation will have an appropriate sign indicating the name of the Operator, the lease serial number, the well name and number, the survey description of the well (either footages or the quarter/quarter section, the section, township, and range).

Attachment 1

EPA's LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Painting wastes
- Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste
- Refinery wastes
- Liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Used equipment lubrication oils
- Waste compressor oil, filters, and blowdown
- Used hydraulic fluids
- Waste solvents
- Waste in transportation pipeline-related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler refractory bricks
- Incinerator ash
- Laboratory wastes
- Sanitary wastes
- Pesticide wastes
- Radioactive tracer wastes
- Drums, insulation and miscellaneous solids



September 5, 2000

Bureau of Land Management
Vernal District Office, Division of Minerals
170 South 500 East
Vernal, Utah 84078

Attn: Mr. Edwin I. Forsman

Re: Geologic Prognosis

Dear Mr. Forsman:

Enclosed please find the prognosis for the following wells:

- Jonah Federal #1-11-9-16
- Jonah Federal #2-11-9-16
- Jonah Federal #3-11-9-16
- Jonah Unit #4-12-9-16
- Wells Draw #5-5-9-16
- West Point #12-5-9-16
- West Point #13-5-9-16
- ~~Nine Mile #12-6-9-16~~ *West Point U 12-6-9-16*
- West Point #9-31-8-16
- Odekirk Spring #1-~~A-35-8-17~~
- Odekirk Spring #9-36-8-17
- Odekirk Spring #16-36-8-17

If you should have any questions, please contact me at (303) 893-0102.

Sincerely,

Madalyn M. Runge
Operations Secretary

Enclosures

cc: State of Utah, Division of Oil, Gas and Mining
Attn: Mr. Robert Krueger
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Well File - Denver
Well File - Roosevelt

RECEIVED

SEP 07 2000

DIVISION OF
OIL, GAS AND MINING

INLAND PRODUCTION COMPANY
GEOLOGIC PROGNOSIS AND LOG DISTRIBUTION LIST

(Updated 8/24/00)

WELL: Odekirk Spring 1-A-35-8-17

API Number: 43-047-33549

LOCATION: 660' FNL, 660' FEL (NENE)

Section 35, T8S, R17E

Uintah County, Utah

ELEVATION: 5097' Ground
5107' KB

TOPS:

Uinta Formation	surface
Green River Formation	
Garden Gulch Member	4105'
Point Three Marker	4600'
'X' Marker	4820'
'Y' Marker	4860'
Douglas Creek Member	4990'
Bicarbonate	5240'
B Limestone	5380'
Castle Peak Limestone	5810'
Basal Limestones	

ANTICIPATED PAY SANDS:

D-1	5020
C	5200'
A-1	5475'
A-3	5505'
LODC	5530'
CP-2	5920'
CP-4	6060'

TOTAL DEPTH: 6200'

CORES: None planned

DSTS: None planned

SAMPLES: 30' samples from 3000' to TD

DRILLING:

Union Rig#14: (435) 828 6434

Pusher: (435) 828 6433 Rex Harris

Superintendent: David Gray (435) 828 8031 (cellular)

REPORT WATER FLOWS TO UTAH DIVISION OF OIL, GAS AND MINING: (801) 538 5340

OPEN HOLE LOGGING:

Phoenix Surveys: David Jull (435) 637 4420

DIGL/SP/GR Suite: TD to surface casing

CDL/CNL/GR/CAL Suite logs: TD to 3000'

Gamma Ray scale 0-150

Matrix density 2.68

LAS data floppy required.

DATA DISTRIBUTION:

Inland Production Company (Mail 6 copies)
Route #3 Box 3630
Myton, UT 84052
Attn: Brad Mecham

Inland Production Company (Mail 6 copies,
EXPRESS)
410 17th St., Suite 700
Denver, CO 80202
Fax: 303-382-4455
Attn: Madalyn M. Runge

State of Utah
Division of Oil, Gas and Mining (Mail 1 copy)
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Bureau of Land Management (Mail 1 copy)
170 S. 500 East
Vernal, UT 84078
Attn: Ed Forsman

COMPANY CONTACTS:

Pat Wisener (District Drilling Foreman)
(435) 646 3721 office
(435) 646 3031 office fax
(435) 823 7468 cellular
(435) 646 1270 pager

Brad Mecham (District Manager)
(435) 646 3721 office
(435) 646 3031 office fax
(435) 823 6205 cellular
(435) 353 4211 home

Kevin Weller (Operations Manager)
(303) 382-4436 office
(303) 279-7945 home
(303) 358-3080 cellular

PARTNERS:

Yates Drilling Company
Abo Petroleum Corporation
Myco Industries, Inc.
Attention: Mark Mauritsen
105 South Fourth Street
Artesia, NM 88210
(505) 748 1471
(505) 748 4570 office fax
(Mail 1 field print & 2 copies of the final prints)
(Fax 1 Field print to: (505) 748 4321)

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: INLAND PRODUCTION COMPANY

Well Name: ODEKIRK SPRINGS 1A-35-8-17

Api No. 43-047-33549 LEASE TYPE: FEDERAL

Section 35 Township 08S Range 17E County UINTAH

Drilling Contractor LEON ROSS DRILLING RIG # 14

SPUDDED:

Date 09/26/2000

Time 3:00 PM

How DRY

Drilling will commence _____

Reported by PAT WISENER

Telephone # 1-435-823-7468

Date 09/28/2000 Signed: CHD

P. 02

FAX NO. 435 636 3031

INLAND PRODUCTION CO

OCT-04-00 WED 06:44 AM

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

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

OPERATOR ACCT. NO. N516D

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12909	43-047-33549	Odekirk Springs #1A-35	NE/NE	35	8S	17	Uintah	September 26, 2000	09/26/2000
WELL 1 COMMENTS: 10-10-00											
A	99999	12910	43-047-33200	Odekirk Springs #16-36	SE/SE	36	8S	17	Uintah	September 29, 2000	09/29/2000
WELL 2 COMMENTS: 10-10-00											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

- ACTION CODES (See instructions on back of form)
- 1. Establish new entity, separate well (single well)
 - 2. Add new well to existing entity (group of wells)
 - 3. Re-assess well from one existing entity to another existing entity
 - 4. Re-assess well from one existing entity to a new entity
 - 5. Other (explain in comments section)

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

Signature Kebbie S. Jones
 Production Clerk
 Date October 4, 2000

STATE OF UTAH DIVISION OF OIL, GAS AND MINING



October 2, 2000

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

Dear Carol:

Please find enclosed form 3160-5: for the Odekirk Springs 1a-35-8-17. If you have any questions feel free to call me @ 435-823-7468 cell, or 435-646-3721 office any time.

Sincerely,

PAT WISENER
Drilling Foreman

Enclosures

pw

RECEIVED

OCT 04 2000

DIVISION OF
OIL, GAS AND MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

U-40026

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

Odekirk Springs

8. Well Name and No.

#1a-35-8-17

9. API Well No.

43-047-33549

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

Uintah County

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

Route 3 Box 3630 Myton, Utah 84052 435-646-3721

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

**660' FNL & 660' FEL NE/NE
Sec.35, T8S, R17E**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other Surface Spud
	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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

MIRU Leon Ross RIG # 14. Drill mouse hole & rat hole. Spud well @ 3:00PM 9/26/00. Drill 12 1/4" hole with air mist to a depth of 307". TIH w/ 85/8" J-55 csg. Landed @ 295.19 GL. On 9/29/00. Cement with *155 sks class "G" w/ 2% CaCL2 & 1/4#/sk Cello-flake mixed @ 15.8ppg.>1.17 YLD. Estimated 5 bbls cement to surface.

RECEIVED
OCT 1 2000
DIVISION OF
OIL, GAS AND MINING

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

Signed

[Signature]

Title

Drilling Foreman

Date

10/02/2000

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: UTAH DOGM

INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8" CASING SET AT 295.19 GL / 305.19 KB

LAST CASING _____ SET AT _____
 DATUM 10' KB
 DATUM TO CUT OFF CASING _____
 DATUM TO BRADENHEAD FLANGE _____
 TD DRILLE 307' LOGGER _____
 HOLE SIZ 12 1/4"

OPERATOR INLAND PRODUCTION COMPANY
 WELL Odekirk Springs 1A-35-8-17
 FIELD/PROSPECT Monument Butte
 CONTRACTOR & RIG # Leon Ross

LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
1	8-5/8"	Landing joint			8rd	B	3.7
1		WHI-92 Csg head			8rd	A	0.95
7	8-5/8"	ST&C Maverick csg	24	J-55	8rd	A	293.34
		8-5/8" Guide SHOE -			8rd	A	0.9

CASING INVENTORY BAL.	FEET	JTS	TOTAL LENGTH OF STRING	298.89
TOTAL LENGTH OF STRING	298.89	7	LESS LANDING JOINT	3.7
LESS NON CSG. ITEMS	5.55		PLUS DATUM TO T/CUT OFF CSG	
PLUS FULL JTS. LEFT OUT	0		CASING SET DEPTH	295.19 GL

TOTAL	293.34		} COMPARE
TOTAL CSG. DEL.(W/O THRDS)	293.34	7	
TIMING	1ST STAGE	2ND STAGE	
BEGIN RUN CSG.			GOOD CIRC THRU JOB <u>YES</u>
CSG. IN HOLE			Bbls CMT CIRC TO SURFACE <u>5 BBLs</u>
BEGIN CIRC	1:26 PM		RECIPROCATED PIPE FOR <u> </u> THRU <u> </u> FT STROKE
BEGIN PUMP CMT	1:40: PM		DID BACK PRES. VALVE HOLD ? <u> </u>
BEGIN DSPL. CMT	1:48 PM		BUMPED PLUG TO <u> </u> 200 <u> </u> PSI
PLUG DOWN	1:55 PM		

CEMENT USED		CEMENT COMPANY- <u>BJ Services</u>
STAGE	# SX	CEMENT TYPE & ADDITIVES
1	155	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield

CENTRALIZER & SCRATCHER PLACEMENT	SHOW MAKE & SPACING
Centralizers on middle of first JT, top of second & top of third for 3	

COMPANY REPRESENTATIVE Brad Mecham DATE 9/29/99

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
U-40026

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA, Agreement Designation
Odekirk Springs

8. Well Name and No.
1a-35-8-17

9. API Well No.
43-047-33549

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

11. County or Parish, State
Uintah County, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
INLAND PRODUCTION COMPANY

3. Address and Telephone No.
Route 3 Box 3630 Myton, Utah 84052 435-646-3721

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)
**660' FNL & 660' FEL NE/NE
Sec.35, T8S, R17E**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <u>Weekly Status</u>
	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

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

Weekly Status for the period of 10/02/00 tru 10/09/00.

On 10/04/00. MIRU Union Rig # 14. Set equipment. Pressure test BOP's & Choke Manifold, TIW, Kelly, to 2,000 psi. Test 85/8" csgn to 1,500 psi. BLM & State were notified by phone. Drill out cement and shoe. Drill 77/8" hole with air mist to a depth of 3499'. TOH with drill string. PU & MU, Bit #2, MM, BHA and TIH. Drill 77/8" hole with water based mud to a depth of 4526'.

RECEIVED

OCT 11 2000

DIVISION OF
OIL, GAS AND MINING

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

Signed *Kat Wisener* Title Drilling Foreman Date 10/09/2000

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

CC: UTAH DOGM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
U-40026

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA, Agreement Designation
Odekirk Springs

8. Well Name and No.
1a-35-8-17

9. API Well No.
43-047-33549

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

11. County or Parish, State
Uintah County, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator
INLAND PRODUCTION COMPANY

3. Address and Telephone No.
Route 3 Box 3630 Myton, Utah 84052 435-646-3721

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)
**660' FNL & 660' FEL NE/NE
Sec.35, T8S, R17E**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Weekly Status</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

Weekly Status for the period of 10/09/00 tru 10/16/00.

Can't to drill 7 7/8" hole with water based mud to a depth of 6222'. Lay down drill string and BHA. Open hole log. PU & MU 1jt 5 1/2" csgn. Float collar, 145jt's 5 1/2" 15.5# J-55 csgn. Set @ 6193/KB. Cement with the following; *300 sks Premlite II w/10% GEL. & 3% KCL mixed to 11.ppg >3.43 YLD. *550 sks 50/50 POZ w/3% GEL. & 3% KCL mixed to 14.4 ppg. >1.23YLD. Good returns. Bump plug to 2250 psi. Nipple down BOP's. Drop slips with 78,000#. Release rig @ 12:00am on 10/11/00. *woc.*

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

Signed *Pat Wisene* Title Drilling Foreman Date 10/16/2000

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

CC: UTAH DOGM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

U-40026

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA, Agreement Designation
NA

8. Well Name and No.

Odekirk Spring 1a-35-8-17

9. API Well No.

43-047-33549

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State
Uinta County

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Inland Production Company

3. Address and Telephone No.

Route #3 Box 3630 Myton, Utah 84052 435-646-3721

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

660' FNL & 660' FEL NE/NE Section 35, T8S, R17E

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

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent
 Subsequent Report
 Final Abandonment Notice

Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other **Status report**

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

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

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

Status report for Time period 11/6/00 through 11/12/00.
Subject well had completion procedures initiated on 11/7/00. A total of four Green River intervals were perforated and hydraulically fractured. Sand plugs and bridge plugs were removed from wellbore. Zones are being swab tested for cleanup at present time.

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

Signed

Gary Dietz
Gary Dietz

Title

Completion Foreman

Date

13-Nov-00

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

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

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Inland Production Company

3. Address and Telephone No.

Route #3 Box 3630 Myton, Utah 84052 435-646-3721

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

660' FNL & 660' FEL NE/NE Section 35, T8S, R17E

5. Lease Designation and Serial No.

U-40026

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

Odekirk Spring 1a-35-8-17

9. API Well No.

43-047-33549

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Uinta County

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

TYPE OF SUBMISSION

Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other **Status report**

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

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

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

Status report for Time period 11/13/00 through 11/19/00.
Subject well had completion procedures initiated on 11/7/00. A total of four Green River intervals were perforated and hydraulically fractured. Sand plugs and bridge plugs were removed from wellbore. Zones were swab tested for cleanup. Production equipment was ran in well. Well began producing on pump on 11/14/00.

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

Signed

Gary Dietz

Title

Completion Foreman

Date

20-Nov-00

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

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

*See Instruction on Reverse Side

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WORK OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____ 1b. TYPE OF WELL NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF RESVR. <input type="checkbox"/> Other _____	5. LEASE DESIGNATION AND SERIAL NO. U-40026 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME, WELL NO. ODEKIRK SPRINGS
--	--

2. NAME OF OPERATOR INLAND RESOURCES INC.	9. API WELL NO. 1A-35-8-17
---	--------------------------------------

3. ADDRESS AND TELEPHONE NO. 410 17th St. Suite 700 Denver, CO 80202	10. FIELD AND POOL OR WILDCAT MONUMENT BUTTE
--	--

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)* At Surface NE / NE 660' FNL & 660' FEL At top prod. Interval reported below At total depth	11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SECTION 35-T8S-R17E
---	---

14. PERMIT NO. 43-047-3349	DATE ISSUED 6/1/00	12. COUNTY OR PARISH Uintah	13. STATE UT
--------------------------------------	------------------------------	---------------------------------------	------------------------

15. DATE SPUNDED 10/01/00	16. DATE T.D. REACHED 10/11/00	17. DATE COMPL. (Ready to prod.) 11/14/00	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5097	GR	19. ELEV. CASINGHEAD
-------------------------------------	--	---	--	-----------	-----------------------------

20. TOTAL DEPTH, MD & TVD 6213	21. PLUG BACK T.D., MD & TVD 6144	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY ----->	ROTARY TOOLS X	CABLE TOOLS
--	---	--	---	--------------------------	--------------------

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)* Green River	25. WAS DIRECTIONAL SURVEY MADE No
--	--

26. TYPE ELECTRIC AND OTHER LOGS RUN DIGL/SP/CDL/GR-11-13-00	27. WAS WELL CORED No
--	-------------------------------------

23. CASING RECORD (Report all strings set in well)					
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8	24#	305.59	12-1/4	Prem lite II w/10% GEL & 3% KCL	
5-1/2	15.5#	6193.19	7-7/8	50/50 POZ w/ 2% GEL & 3% KCL	

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8	EOT @	TA @
						6073.69	6006.35

31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	
3B4 SD) 4536-4542, (GB3 SD) 4576-4582	4	40	4536-4542, 4576-4580	FRAC W/52,380# 20/40 SD IN 394 BBLS FLUID	
(D2 SD) 5073-5082	4	36	5073-5082	FRAC W/46333# 20/40 SD IN 357 BBLS FLUID	
(A/LDC SD) 5517-5520, 5604-5632	4	124	5517-5520, 5604-5632	FRAC W/154,350# 20/40 SD IN 867 BBLS FLUID	
CP.5 SD)5829-5838 (CP4 SD) 6050-6054	4	52	5829-5838, 6050-6054	FRAC W/64637# 20/40 SD IN 456 BBLS FLUID	

33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)				WELL STATUS (Producing or shut-in)	
11/14/00		2-1/2" x 1-1/2" x 15.5' RHAC Pump				PRODUCING	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
10 day average				84.9	26.5	19.2	312
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold & Used for Fuel	TEST WITNESSED BY DEC 15 2000
---	---

35. LIST OF ATTACHMENTS Logs In Item #26	DIVISION OF OIL, GAS AND MINING
--	---

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

SIGNED <i>[Signature]</i>	TITLE <u>Operations Secretary</u>	DATE <u>12/12/00</u>
---------------------------	-----------------------------------	----------------------

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

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			ODEKIRK SPRINGS 1A-35-8-17	Garden Gulch Mkr	4030	
				Garden Gulch 2	4320	
				Point 3 Mkr	4596	
				X Mkr	4822	
				Y-Mkr	4859	
				Douglas Creek Mkr	4999	
				BiCarbonate Mkr	5236	
				B Limestone Mkr	5374	
				Castle Peak	5810	
				Basal Carbonate	0	
				Total Depth (LOGGERS)	6222	



United States Department of the Interior



BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, UT 84145-0155

<http://www.blm.gov>

IN REPLY REFER TO:
3106
(UT-924)

September 16, 2004

Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard
Acting Chief, Branch of
Fluid Minerals

Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114
Teresa Thompson
Joe Incardine
Connie Seare

UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		



Office of the Secretary of State

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

Newfield Production Company
Filing Number: 41530400

Articles of Amendment

September 02, 2004

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



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

Secretary of State

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

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

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

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

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

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

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

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

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

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

INLAND RESOURCES INC.

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

OPERATOR CHANGE WORKSHEET

ROUTING	
1. GLH	
2. CDW	
3. FILE	

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:		9/1/2004
FROM: (Old Operator): N5160-Inland Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721	TO: (New Operator): N2695-Newfield Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721	

CA No.

Unit:

WELL(S)									
NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	
HANCOCK 14-23-4-1	23	040S	010W	4304733080	12331	Fee	OW	P	
HANCOCK 11-23-4-1	23	040S	010W	4304733081	12355	Fee	OW	P	
HANCOCK 4-26-4-1	26	040S	010W	4304733082	12492	Fee	OW	P	
ODEKIRK SPRINGS 1A-35-8-17	35	080S	170E	4304733549	12909	Federal	OW	P	
ODEKIRK SPRINGS 15-35-8-17	35	080S	170E	4304733550	13094	Federal	OW	P	
ODEKIRK SPRING 13-36-8-17	36	080S	170E	4304733076	12420	State	D	PA	
SUNDANCE FED 14-31-8-18	31	080S	180E	4304734287		Federal	OW	APD	K
FEDERAL 1-31-8-18	31	080S	180E	4304734494	13927	Federal	OW	P	K
FEDERAL 2-31-8-18	31	080S	180E	4304734495	13959	Federal	OW	OPS	K
SUNDANCE 7-32-8-18	32	080S	180E	4304734458	13987	State	OW	P	K
SUNDANCE 8-32-8-18	32	080S	180E	4304734459	14047	State	OW	P	K
SUNDANCE 9-32-8-18	32	080S	180E	4304734460	13988	State	OW	OPS	K
SUNDANCE 11-32-8-18	32	080S	180E	4304734461	13962	State	OW	P	K
SUNDANCE 12-32-8-18	32	080S	180E	4304734462	14031	State	OW	P	K
SUNDANCE 13-32-8-18	32	080S	180E	4304734463	13964	State	OW	P	K
SUNDANCE 14-32-8-18	32	080S	180E	4304734464	14046	State	OW	P	K
SUNDANCE 15-32-8-18	32	080S	180E	4304734465	13978	State	OW	P	K
SUNDANCE 16-32-8-18	32	080S	180E	4304734466	14028	State	OW	OPS	K
FEDERAL 2-6-9-18	06	090S	180E	4304734013		Federal	OW	APD	K
FEDERAL 3-6-9-18	06	090S	180E	4304734425		Federal	OW	APD	K

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

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

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

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

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

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

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

DATA ENTRY:

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

FEDERAL WELL(S) BOND VERIFICATION:

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

INDIAN WELL(S) BOND VERIFICATION:

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

FEE & STATE WELL(S) BOND VERIFICATION:

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

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS:

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
1595 WYNKOOP STREET
DENVER, CO 80202-1129
http://www.epa.gov/region8

APR 14 2009

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Eric Sundberg
Newfield Production Company
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

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

Re: FINAL Permit
AOR Corrective Action Required
EPA UIC Permit UT21203-08271
Well: Odekirk Springs #1A-35-8-17
NENE Sec. 35-T8S-R17E
Uintah County, UT
API No.: 43-047-33549

Dear Mr. Sundberg:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed Odekirk Springs #1A-35-8-17 injection well. A Statement of Basis that discusses the conditions and requirements of this EPA UIC Permit, is also included.

The Public Comment period for this Permit ended on APR 03 2009. No comments on the Draft Permit were received during the Public Notice period; therefore the Effective Date for this EPA UIC Permit is the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect as of the Effective Date of this Permit.

Please note that under the terms and conditions of this Final Permit you are authorized only to construct the proposed injection well. Prior to commencing injection, you first must fulfill all "Prior to Commencing Injection" requirements of the Final Permit, Part II Section C.1, and obtain written Authorization to Inject from the EPA. It is your responsibility to be familiar with and to comply with all provisions of your Final Permit. The EPA forms referenced in the permit are available at http://www.epa.gov/safewater/uic/reportingforms.html. Guidance documents for Cement Bond Logging, Radioactive Tracer testing, Step Rate testing, Mechanical Integrity demonstration, Procedure in the Event of a Mechanical Integrity Loss, and other UIC guidances, are available at http://www.epa.gov/region8/water/uic/deep_injection.html. Upon request, hard copies of the EPA forms and guidances can be provided.

RECEIVED
APR 20 2009

This EPA UIC Permit is issued for the operating life of the well unless terminated (Part III, Section B). The EPA may review this Permit at least every five (5) years to determine whether any action is warranted pursuant to 40 CFR § 144.36(a).

If you have any questions on the enclosed Final Permit or Statement of Basis, please call Sarah Bahrman of my staff at (303) 312-6243, or toll-free at (800) 227-8917, ext. 312-6243.

FOR RECORD ONLY

Sincerely,



Eddie A. Sierra
Acting Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

enclosure: Final UIC Permit
Statement of Basis

cc: Final Permit Letter:
Uintah & Ouray Business Committee, Ute Indian Tribe
Curtis Cesspooch, Chairman
Irene Cuch, Vice-Chairwoman
Frances Poowegup, Councilwoman
Ronald Groves, Councilman
Phillip Chimburas, Councilman
Steven Cesspooch, Councilman

Daniel Picard, Superintendent
U.S. Bureau of Indian Affairs
Uintah & Ouray Indian Agency

All enclosures:

Larry Love, Director
Energy and Minerals Department
Ute Indian Tribe

Ferron Secakuku
Director, Natural Resources
Ute Indian Tribe

Gil Hunt, Associate Director
Utah Division of Oil, Gas and Mining

Fluid Minerals Engineering Office
U.S. Bureau of Land Management
Vernal Office

Michael Guinn, District Manager
Newfield Production Company
Myton, Utah



**UNDERGROUND INJECTION CONTROL PROGRAM
PERMIT**

PREPARED: April 2009

Permit No. UT21203-08271

Class II Enhanced Oil Recovery Injection Well

**Odekirk Springs #1A-35-8-17
Uintah County, UT**

Issued To

Newfield Production Company

1001 Seventeenth Street, Suite 2000
Denver, CO 80202

PART I. AUTHORIZATION TO CONSTRUCT AND OPERATE	2
PART II. SPECIFIC PERMIT CONDITIONS	3
Section A. WELL CONSTRUCTION REQUIREMENTS	3
1. Casing and Cement	3
2. Injection Tubing and Packer	3
3. Sampling and Monitoring Devices	3
4. Well Logging and Testing	4
5. Postponement of Construction or Conversion	4
6. Workovers and Alterations	4
Section B. MECHANICAL INTEGRITY	4
1. Demonstration of Mechanical Integrity (MI)	5
2. Mechanical Integrity Test Methods and Criteria	5
3. Notification Prior to Testing	5
4. Loss of Mechanical Integrity	5
Section C. WELL OPERATION	6
1. Requirements Prior to Commencing Injection	6
2. Injection Interval	6
3. Injection Pressure Limitation	6
4. Injection Volume Limitation	7
5. Injection Fluid Limitation	7
6. Tubing-Casing Annulus (TCA)	7
Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS	7
1. Monitoring Parameters, Frequency, Records and Reports	7
2. Monitoring Methods	7
3. Records Retention	8
4. Annual Reports	8
Section E. PLUGGING AND ABANDONMENT	8
1. Notification of Well Abandonment, Conversion or Closure	9
2. Well Plugging Requirements	9
3. Approved Plugging and Abandonment Plan	9
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Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit,

Newfield Production Company
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

is authorized to construct and to operate the following Class II injection well or wells:

Odekirk Springs #1A-35-8-17
660' FNL & 660' FEL, NENE S35, T8S, R17E
Uintah County, UT

EPA regulates the injection of fluids into injection wells so that injection does not endanger underground sources of drinking water (USDWs). EPA UIC Permit conditions are based on authorities set forth at 40 CFR Parts 144 and 146, and address potential impacts to USDWs.

Under 40 CFR Part 144, Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General permit conditions for which the content is mandatory and not subject to site-specific differences are not discussed in this document. Issuance of this Permit does not convey any property rights of any sort or any exclusive privilege, nor does it authorize injury to persons or property or invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. (40 CFR §144.35) An EPA UIC Permit may be issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR §§144.39, 144.40 and 144.41, and may be reviewed at least once every five (5) years to determine if action is required under 40 CFR §144.36(a).

This Permit is issued for the life of the well(s) unless modified, revoked and reissued, or terminated under 40 CFR 144.39 or 144.40. This EPA Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for a UIC Program is delegated to an Indian Tribe or State. Upon the effective date of delegation, reports, notifications, questions and other correspondence should be directed to the Indian Tribe or State Director.

Issue Date: APR 14 2009

Effective Date APR 14 2009



for Eddie A. Sierra
Acting Assistant Regional Administrator*
Office of Partnerships and Regulatory Assistance

*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

PART II. SPECIFIC PERMIT CONDITIONS

Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

1. Casing and Cement.

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

2. Injection Tubing and Packer.

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

3. Sampling and Monitoring Devices.

The Permittee shall install and maintain in good operating condition:

- (a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and
- (b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:
 - (i) on the injection tubing; and
 - (ii) on the tubing-casing annulus (TCA); and
- (c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure (MAIP) specified in APPENDIX C is reached at the wellhead; and
- (d) a non-resettable cumulative volume recorder attached to the injection line.

4. Well Logging and Testing

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

5. Postponement of Construction or Conversion

The Permittee shall complete well construction within one year of the Effective Date of the Permit, or in the case of an Area Permit within one year of Authorization of the additional well. Authorization to construct and operate shall expire if the well has not been constructed within one year of the Effective Date of the Permit or Authorization and the Permit may be terminated under 40 CFR 144.40, unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate may be reissued.

6. Workovers and Alterations

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to an injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

Section B. MECHANICAL INTEGRITY

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

- (a) There is no significant leak in the casing, tubing, or packer (Part I); and
- (b) There is no significant fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore (Part II).

1. Demonstration of Mechanical Integrity (MI).

The operator shall demonstrate MI prior to commencing injection and periodically thereafter. Well-specific conditions dictate the methods and the frequency for demonstrating MI and are discussed in the Statement of Basis. The logs and tests are designed to demonstrate both internal (Part I) and external (Part II) MI as described above. The conditions present at this well site warrant the methods and frequency required in Appendix B of this Permit.

In addition to these regularly scheduled demonstrations of MI, the operator shall demonstrate internal (Part I) MI after any workover which affects the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

2. Mechanical Integrity Test Methods and Criteria

EPA-approved methods shall be used to demonstrate mechanical integrity. Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are available from EPA and will be provided upon request.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

3. Notification Prior to Testing.

The Permittee shall notify the Director at least 30 days prior to any scheduled mechanical integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

4. Loss of Mechanical Integrity.

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit) and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

Section C. WELL OPERATION

INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.

Injection is approved under the following conditions:

1. Requirements Prior to Commencing Injection.

Well injection, including for new wells authorized by an Area Permit under 40 CFR 144.33 (c), may commence only after all well construction and pre-injection requirements herein have been met and approved. The Permittee may not commence injection until construction is complete, and

- (a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-10 or 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and
 - (i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or
 - (ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

2. Injection Interval.

Injection is permitted only within the approved injection interval, listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

3. Injection Pressure Limitation

- (a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injection or formation fluids into a USDW.
- (b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permittee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

4. Injection Volume Limitation.

Injection volume is limited to the total volume specified in APPENDIX C.

5. Injection Fluid Limitation.

Injected fluids are limited to those identified in 40 CFR 144.6(b)(2) as fluids used for enhanced recovery of oil or natural gas, including those which are brought to the surface in connection with conventional oil or natural gas production that may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are NOT approved for injection. This well is NOT approved for commercial brine injection, industrial waste fluid disposal or injection of hazardous waste as defined by CFR 40 Part 261. The Permittee shall provide a listing of the sources of injected fluids in accordance with the reporting requirements in Part II Section D Paragraph 4 and APPENDIX D of this Permit.

6. Tubing-Casing Annulus (TCA)

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure shall be maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Monitoring Parameters, Frequency, Records and Reports.

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

- (a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;
- (b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;
- (c) the analytical techniques or methods used for analysis.

2. Monitoring Methods.

- (a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.

- (b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.
- (c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.
- (d) Pressures are to be measured in pounds per square inch (psi).
- (e) Fluid volumes are to be measured in standard oil field barrels (bbl).
- (f) Fluid rates are to be measured in barrels per day (bbl/day).

3. Records Retention.

- (a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.
- (b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.

4. Annual Reports.

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

Section E. PLUGGING AND ABANDONMENT

1. Notification of Well Abandonment, Conversion or Closure.

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning an injection well, 2) converting to a non-injection well, and 3) in the case of an Area Permit, before closure of the project.

2. Well Plugging Requirements

Prior to abandonment, the injection well shall be plugged with cement in a manner which isolates the injection zone and prevents the movement of fluids into or between underground sources of drinking water, and in accordance with 40 CFR 146.10 and other applicable Federal, State or local law or regulations. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director.

3. Approved Plugging and Abandonment Plan.

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

4. Forty Five (45) Day Notice of Plugging and Abandonment.

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning a well and provide notice of any anticipated change to the approved plugging and abandonment plan.

5. Plugging and Abandonment Report.

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

- (a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or
- (b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

6. Inactive Wells.

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

- (a) Provides written notice to the Director;
- (b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and
- (c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

PART III. CONDITIONS APPLICABLE TO ALL PERMITS

Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of any other Federal, State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

Section B. CHANGES TO PERMIT CONDITIONS

1. Modification, Reissuance, or Termination.

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

2. Conversions.

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

3. Transfer of Permit.

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

4. Permittee Change of Address.

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

5. Construction Changes, Workovers, Logging and Testing Data

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging, or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this Permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

Section C. SEVERABILITY

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

Section D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

Section E. GENERAL PERMIT REQUIREMENTS

1. Duty to Comply.

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

2. Duty to Reapply.

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

3. Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

4. Duty to Mitigate.

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

5. Proper Operation and Maintenance.

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

6. Permit Actions.

This Permit may be modified, revoked and reissued or terminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

7. Property Rights.

This Permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to Provide Information.

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

9. Inspection and Entry.

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- (a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,
- (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

10. Signatory Requirements.

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

11. Reporting Requirements.

- (a) Planned changes. The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.
- (b) Anticipated noncompliance. The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) Monitoring Reports. Monitoring results shall be reported at the intervals specified in this Permit.
- (d) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- (e) Twenty-four hour reporting. The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:
 - (i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or
 - (ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

- (f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurrence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website <http://www.nrc.uscg.mil/index.htm>.
- (g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.
- (h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

Section F. FINANCIAL RESPONSIBILITY

1. Method of Providing Financial Responsibility.

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

2. Insolvency.

In the event of:

- (a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or
- (b) suspension or revocation of the authority of the trustee institution to act as trustee; or

- (c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

APPENDIX A

WELL CONSTRUCTION REQUIREMENTS

See diagram.

The Odekirk Springs No. 1A-35-8-17 was drilled to a total depth of 6,213 feet (KB) feet in the Basal Carbonate Member of the Green River Formation.

Surface casing (8-5/8 inch) was set at a depth of 306 feet in a 12-1/4 inch hole using 155 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 6,193 feet (KB) in a 7-7/8 inch hole with 300 sacks of Premium Lite II and 550 sacks of 50/50 poz mix. This well construction is considered adequate to protect USDWs.

The EPA calculates the top of cement as 704 feet from the surface. The Cement Bond Log (CBL) identifies top of cement at 480 feet. CBL analysis does identify adequate 80% cement bond index within the confining zone.

The schematic diagram shows proposed enhanced recovery injection perforations in the Garden Gulch and Douglas Creek Members of the Green River Formation. Additional perforations may be added at a later time between the depths of 4,030 feet and the top of the Wasatch Formation (estimated to be at a depth of 6,335 feet) provided the operator first notifies the Director and later submits an updated well completion report (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

Odekirk Spring Federal #1A-35-8-17

Spud Date: 10/01/00
 Put on Production: 11/14/00
 GL: 5097; KB: 5107

Initial Production: 85 BOPD,
 26.5 MCFD, 19 BWPD

Proposed Injection Wellbore Diagram

FRAC JOB

SURFACE CASING

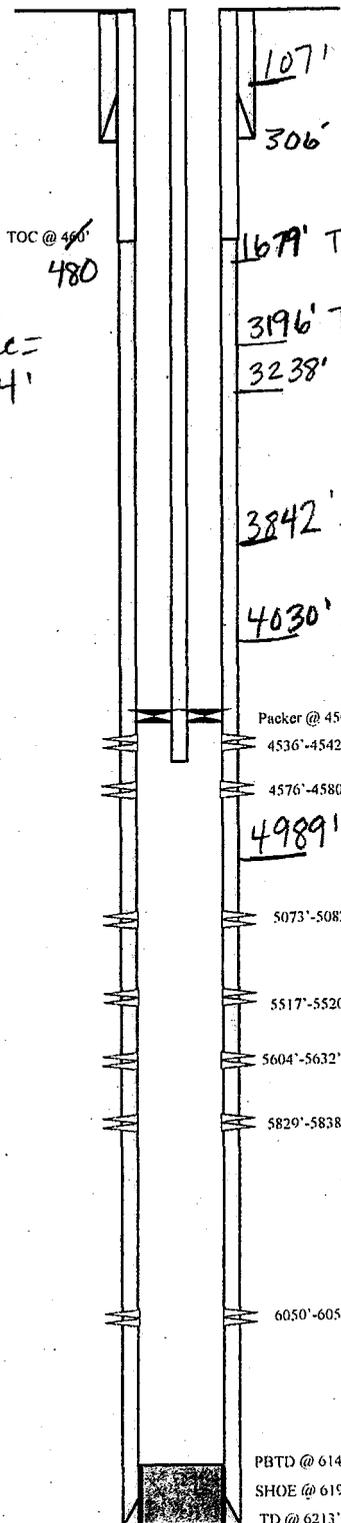
CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 293'
 DEPTH LANDED: 305'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 155 sx Class G, cmt to surface

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 6193'
 DEPTH LANDED: 6193'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 300 sx Premilit II & 550 sx 50/50 Pozmix
 CEMENT TOP AT: 480' per CBL

TUBING

SIZE/GRADE/WT: 2-7/8" / J-55
 NO. OF JOINTS: 1 jt 7/8 tbg (32.50'), 173 jts (5319.60'), 19 jts 2 7/8 tbg (617.22')
 TUBING ANCHOR AT: 5982.12'
 SEATING NIPPLE: 2-7/8" (1.10')
 NO of JOINTS: 1 jt (32.63')
 SN LANDED AT: 6015.85'
 NO of JOINTS: 1 jt (31.70')
 EOT @ 6048'



107' Base USOW (Pub 92)
 306'

11-09-00 4536'-4580'
 11-09-00 5073'-5082'

Frac sand as follows:
 52,380# 20/40 sand in 394 bbls Viking 1-25 fluid. Treated w/avg press of 2400 psi, w/avg rate of 31 BPM. ISIP-2570 psi.
 46,333# 20/40 sand in 357 bbls Viking 1-25 fluid. Treated @ avg press of 1800 psi w/avg rate of 31.6 BPM. ISIP 2990 psi.

1679' Top Green River
 11-08-00 5517'-5632'

Frac sand as follows:
 154,350# 20/40 sand in 867 bbls Viking 1-25 fluid. Treated @ avg press of 1600 psi w/avg rate of 31 BPM. ISIP 2050 psi.

3196' Top Trona
 3238' Top Mahogany Bench (to 3261')
 11-08-00 5829'-6054'

Frac sand as follows:
 64,637# 20/40 sand in 456 bbls Viking 1-25 fluid. Treated @ avg press of 29 BPM. ISIP 2440 psi.

3842' Top Confining zone (shale)
 09/07/04
 8/27/07

Tubing Leak: update rod detail
 Parted Rods. Updated rod & tubing detail

4030' Top Garden Gulch
 1-23-08

Parted rods. Updated rod & tubing details

80% cement bond index from 3846' to 3875' (29 ft)

Packer @ 4501'
 4536'-4542'
 4576'-4580'
 4989' Top Douglas Creek

PERFORATION RECORD

11-07-00	5829'-5838'	4 SPF	36 holes	✓
11-07-00	6050'-6054'	4 SPF	16 holes	✓
11-08-00	5517'-5520'	4 SPF	12 holes	✓
11-08-00	5604'-5632'	4 SPF	112 holes	✓
11-09-00	5073'-5082'	4 SPF	36 holes	✓
11-09-00	4536'-4542'	4 SPF	24 holes	✓
11-09-00	4576'-4580'	4 SPF	16 holes	✓

PBTD @ 6144'
 SHOE @ 6193'
 TD @ 6213'
 6210' Top Basal Carbonate
 6335' estimate Top Wasatch

NEWFIELD

Odekirk Spring Federal #1A-35-8-17
 660' FNL & 660' FEL
 NE/NE Section 35-T8S-R17E
 Uintah Co, Utah
 API #43-047-33549; Lease #UTU-40026

CT 10/10/08

APPENDIX B

LOGGING AND TESTING REQUIREMENTS

Logs.

Logs will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

NO LOGGING REQUIREMENTS

Tests.

Tests will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

WELL NAME: Odekirk Springs #1A-35-8-17	
TYPE OF TEST	DATE DUE
Pore Pressure	Prior to receiving authorization to inject
Standard Annulus Pressure	Prior to receiving authorization to inject and at least once every five (5) years after the last successful demonstration of Part I Mechanical Integrity

APPENDIX C

OPERATING REQUIREMENTS

MAXIMUM ALLOWABLE INJECTION PRESSURE:

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

WELL NAME	MAXIMUM ALLOWED INJECTION PRESSURE (psi)	
	ZONE 1 (Upper)	
Odekirk Springs #1A-35-8-17	1,135	

INJECTION INTERVAL(S):

Injection is permitted only within the approved injection interval listed below. Injection perforations may be altered provided they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6. Specific injection perforations can be found in Appendix A.

FORMATION NAME	APPROVED INJECTION INTERVAL (KB, ft)		FRACTURE GRADIENT (psi/ft)
	TOP	BOTTOM	
	WELL NAME: Odekirk Springs #1A-35-8-17		
Green River: Garden Gulch, Douglas Creek, and Basal Carbonate Members	4,030.00	6,335.00	0.690

ANNULUS PRESSURE:

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. of this permit.

MAXIMUM INJECTION VOLUME:

There is no limitation on the number of barrels per day (bbls/day) of water that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Appendix C.

APPENDIX D

MONITORING AND REPORTING PARAMETERS

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

OBSERVE MONTHLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS	
OBSERVE AND RECORD	Injection pressure (psig)
	Annulus pressure(s) (psig)
	Injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbls)
ANNUALLY	
ANALYZE	Injected fluid total dissolved solids (mg/l)
	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH
ANNUALLY	
REPORT	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and minimum annulus pressure(s) (psig)
	Each month's injected volume (bbl)
	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

In addition to these items, additional Logging and Testing results may be required periodically. For a list of those items and their due dates, please refer to **APPENDIX B - LOGGING AND TESTING REQUIREMENTS.**

APPENDIX E

PLUGGING AND ABANDONMENT REQUIREMENTS

See Schematic Diagram

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable Federal, State or local law or regulation. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Seal Injection Zone: Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top injection perforation. Place at least twenty (20) feet of cement plug on top of the CIBP.

PLUG NO. 2: Seal Mahogany Shale and Trona intervals: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale approximately 3,146 feet to 3,311 feet (unless pre-existing backside cement precludes cement-squeezing this interval) followed by a minimum 165-foot balanced cement plug inside the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale, approximately 3,146 feet to 3,311 feet.

PLUG NO. 3: Seal USDWs: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the base of the Uinta formation approximately 1,619 feet to 1,739 feet (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 120-foot balanced cement plug inside the 5-1/2 inch casing across the base of the Uinta Formation, approximately 1,619 feet to 1,739 feet.

PLUG NO.4: Seal Surface: Set a Class "G" cement plug within the 5-1/2 inch casing to 356 feet and up the 5-1/2 inch by 8-5/8 inch casings annulus to the surface.

Odekirk Spring Federal #1A-35-8-17

Spud Date: 10/01/00
 Put on Production: 11/14/00
 GL: 5097'; KB: 5107'

Initial Production: 85 BOPD,
 26.5 MCFD, 19 BWPD

Proposed P & A Wellbore Diagram

SURFACE CASING *Plug 4 -*

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 293'
 DEPTH LANDED: 295' *306'*
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 155 sx Class G, cmt to surface

from surface to 356 ft.
 Casing Shoe @ 295'

Circulate 97 sx Class "G" Cement down 5-1/2" casing and up the 5-1/2" x 8-5/8" annulus

Perforate 4 JSPF @ 356

TOC @ 460'

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 6193'
 DEPTH LANDED: 6193'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 300 sx Premilite II & 550 sx 50/50 Pozmix
 CEMENT TOP AT: 460'

Plug 3 - 120ft. balanced plug from 1619ft to 1739ft.

1679' Top Green River

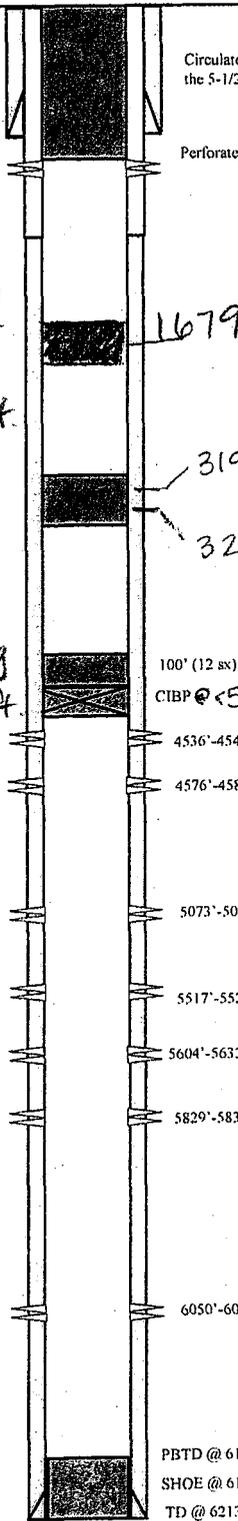
3196' Top Trona

3238' Top Mahogany Bench (to 3261')

Plug 2 - 165 ft. balanced plug from 3146 ft to 3311 ft.

100' (12 sx) Class G Cement plug on top of CIBP
 CIBP @ <50ft above top perf.

Plug 1 - Place 5' CIBP ≤ 50 ft. above top perf with at least 20ft cement on top.



NEWFIELD

Odekirk Spring Federal #1A-35-8-17
 660' FNL & 660' FEL
 NE/NE Section 35-T8S-R17E
 Uintah Co. Utah
 API #43-047-33549; Lease #UTU-40026

CT 10/10/08

APPENDIX F

CORRECTIVE ACTION REQUIREMENTS

The Federal No. 8-35-8-17 and Odekirk Springs No. 4-36-8-17 will be monitored weekly at the surface for evidence of fluid movement out of the injection zone.

In addition, Newfield developed a corrective action monitoring program, effective July 10, 2008, entitled "Procedure related to proposed Class II Enhanced Oil Recovery Injection Wells determined by the EPA to have specific Area of Review (AOR) wells with inadequate cement across the Confining Zone."

If possible fluid movement out of the injection zone is identified, either through the weekly monitoring, through Newfield's July 10, 2008 procedure described above, or through any other means (for example, evidence of fluid flow or increased bradenhead annulus pressure readings, tubing-casing annulus pressure readings, or other evidence of a mechanical integrity failure), the Permittee will shut in the Odekirk Springs No. 1A-35-8-17 immediately and notify the Director. No injection into the Odekirk Springs No. 1A-35-8-17 will be permitted until the Permittee has notified the Director that the situation has been resolved, submitted Rework Records (EPA Form No 7520-12) and a schematic diagram, and received authorization from the Director to re-commence injection.

STATEMENT OF BASIS

**NEWFIELD PRODUCTION COMPANY
ODEKIRK SPRINGS #1A-35-8-17
UINTAH COUNTY, UT**

EPA PERMIT NO. UT21203-08271

CONTACT: Sarah Bahrman
U. S. Environmental Protection Agency
Ground Water Program, 8P-W-GW
1595 Wynkoop Street
Denver, Colorado 80202-1129
Telephone: 1-800-227-8917 ext. 312-6243

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

EPA UIC permits regulate the injection of fluids into underground injection wells so that the injection does not endanger underground sources of drinking water. EPA UIC permit conditions are based upon the authorities set forth in regulatory provisions at 40 CFR Parts 144 and 146, and address potential impacts to underground sources of drinking water. Under 40 CFR 144.35 Issuance of this permit does not convey any property rights of any sort or any exclusive privilege, nor authorize injury to persons or property or invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which the content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the construction and operation of injection wells so that the injection does not endanger underground sources of drinking water, governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

PART I. General Information and Description of Facility

Newfield Production Company
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

on

October 24, 2008

submitted an application for an Underground Injection Control (UIC) Program Permit or Permit Modification for the following injection well or wells:

Odekirk Springs #1A-35-8-17
660' FNL & 660' FEL, NENE S35, T8S, R17E
Uintah County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The application, including the required information and data necessary to issue or modify a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed and determined by EPA to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

The Odekirk Springs No. 1A-35-8-17 is currently an active Green River Formation (Garden Gulch-Douglas Creek Members) oil well. It is the initial intent of the applicant to use the current production perforations for Class II enhanced recovery injection. The Odekirk Springs No. 1A-35-8-17 has total depth in the Basal Carbonate Member.

NEW WELLS		
Well Name	Well Status	Date of Operation
Odekirk Springs #1A-35-8-17	New	N/A

PART II. Permit Considerations (40 CFR 146.24)

Hydrogeologic Setting

Water wells for domestic supply in this area, when present, generally are completed into the shallow alluvium, the Duchesne River Formation, or the underlying Uinta Formation, and the water generally contains approximately 500 to 1,500 mg/L and higher total dissolved solids.

The Uinta-Animas aquifer in the Uinta Basin is present in water-yielding beds of sandstone, conglomerate, and siltstone of the Duchesne River and Uinta Formations, the Renegade Tongue of the Wasatch Formation, and the Douglas Creek Member of the Green River Formation. The Renegade Tongue of the Wasatch Formation and the Douglas Creek Member of the Green River Formation contain an aquifer along the southern and eastern margins of the basin where the rocks primarily consist of fluvial, massive, irregularly bedded sandstone and siltstone. Water-yielding units in the Uinta-Animas aquifer in the Uinta Basin commonly are separated from each other and from the underlying Mesaverde aquifer by units of low permeability composed of claystone, shale, marlstone, or limestone. In the Uinta Basin, for example, the part of the aquifer in the Duchesne River and Uinta Formations ranges in thickness from 0 feet at the southern margin of the aquifer to as much as 9,000 feet in the north-central part of the aquifer. Ground-water recharge to the Uinta-Animas aquifer generally occurs in the areas of higher altitude along the margins of the basin. Ground water is discharged mainly to streams, springs, and by transpiration from vegetation growing along stream valleys. The rate of groundwater withdrawal is small, and natural discharge is approximately equal to recharge. Recharge occurs near the southern margin of the aquifer, and discharge occurs near the White and Green Rivers (from USGS publication HA 730-C). Water samples from Mesaverde sands in the nearby Natural Buttes Unit yielded highly saline water.

Geologic Setting (TABLE 2.1)

The proposed enhanced oil recovery injection well is located in the Eight Mile North Flat Field, which is part of the Greater Monument Butte Field, T7-9S and R15-19E, which lies near the center of the broad, gently northward dipping south flank of the Uinta Basin. More than 450 million barrels of oil (63 MT) have been produced from sediments of the Uinta Basin. The Uinta Basin is a topographic and structural trough encompassing an area of more than 9300 square mi (14,900 km) in northeast Utah. The basin is sharply asymmetrical, with a steep north flank bounded by the east-west-trending Uinta Mountains, and a gently dipping south flank. The Uinta Basin was formed in Paleocene to Eocene time, creating a large area of internal drainage which was filled by the ancestral Lake Uinta. The lacustrine, or fresh water lake-formed, sediments deposited in and around Lake Uinta make up the Uintah and Green River Formations. The southern shore of Lake Uinta was very broad and flat, resulting in large cyclic shifts of the location of the shoreline during the many repeated transgressive and regressive cycles caused by the climatic and tectonic-induced rise and fall of water levels of the lake. Distributary-mouth bars, distributary channels, and near-shore bars are the primary oil producing sandstone reservoirs in the area. (Ref: "Reservoir Characterization of the Lower Green River Formation, Southwest Uinta Basin, Utah Biannual Technical Progress Report, 4/1/99-9/30/99", by C. D. Morgan, Program Manager, November 1999, Contract DE-AC26-98BC15103).

The Duchesne River Formation is absent in this area. Shale and siltstone of the Uintah Formation outcrop and compose the surface rock throughout the area. The lower 600 feet to 800 feet of the Uinta Formation, consisting generally of shale interbedded with occasionally water-bearing sandstone lenses between 5 feet to 20 feet thick, is underlain by the Green River Formation. The

Green River Formation is further subdivided into several Member and local marker units. The cyclic nature of Green River deposition in the southern shore area resulted in numerous stacked, intertonguing deltaic and near-shore sand and silt deposits. Red alluvial shale and siltstone deposits that intertongue with the Green River sediments are of the Colton and Wasatch Formations. Under the Wasatch Formation is the Mesaverde Formation, which consists primarily of continental-origin deposits of interbedded shale, sandstone, and coal.

The geologic dip is about 200 feet per mile, and there are no known surface faults in this area. Veins of gilsonite, a natural resinous hydrocarbon occasionally mined as a resource, occurs in the greater Uintah Basin though it is predominantly found on the eastern margin of the basin near the Colorado border. Vertical veins, generally between 2 ft to 6 ft wide but up to 28 ft wide, may extend many miles in length and occasionally extend as deep as 2000 ft. In this area within the Greater Monument Butte Field there is one known gilsonite vein. This vein is not considered to present a pathway for migration of fluid out of the injection zone because it terminates at depth of about 2000 ft, far above the protective confining layer and much deeper injection zone. Newfield and the owner of this former gilsonite mine have agreed to conditions for operation near this vein to ensure no potential for impact to this vein or to ground water from enhanced oil recovery operations.

**TABLE 2.1
GEOLOGIC SETTING
Odekirk Springs #1A-35-8-17**

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Uinta: USDW	0	107	< 10,000	Sand and shale
Uinta	0	1,679		Interbedded sand, shale, and carbonate, and fluvial sand and shale
Green River	1,679	6,335		Interbedded sand, shale, and carbonate, and fluvial sand and shale
Upper Green River: Trona	3,196	3,238		carbonate
Upper Green River: Mahogany Bench	3,238	3,261		oil shale
Upper Green River: Shale	3,842	4,030		shale
Green River: Garden Gulch	4,030	4,989	17,422	lacustrine sand, shale, carbonate, interbedded with fluvial sand and shale
Green River: Douglas Creek	4,989	5,810	17,422	interbedded sand, shale, and limestone
Green River: Basal Carbonate (estimated)	6,210	6,335		carbonate
Wasatch (estimated)	6,335			Lacustrine sand, shale, and conglomerate

Proposed Injection Zone(s) (TABLE 2.2)

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by a confining zone which is free of known open faults or fractures within the Area of Review.

The EPA approved interval for Class II enhanced recovery injection is located between the top of the Garden Gulch Member (at a depth of 4,030 feet) and the top of the Wasatch Formation estimated to be at a depth of 6,335 feet.

**TABLE 2.2
INJECTION ZONES
Odekirk Springs #1A-35-8-17**

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River: Garden Gulch, Douglas Creek, and Basal Carbonate Members	4,030	6,335	17,422	0.690		N/A

* C - Currently Exempted
E - Previously Exempted
P - Proposed Exemption
N/A - Not Applicable

Confining Zone(s) (TABLE 2.3)

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

The 188-foot (3,842 - 4,030 feet) shale Confining Zone overlies the top of the Garden Gulch Member.

**TABLE 2.3
CONFINING ZONES
Odekirk Springs #1A-35-8-17**

Formation Name	Formation Lithology	Top (ft)	Base (ft)
Upper Green River: Shale	shale	3,842	4,030

Underground Sources of Drinking Water (USDWs) (TABLE 2.4)

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

Throughout the Greater Monument Butte Field area undergoing enhanced oil recovery operations, water analyses of the Green River Formation generally exhibit total dissolved solids (TDS) content well in excess of 10,000 mg/l. However, some recent water analyses from the field showed lower TDS values closer to 10,000 mg/l. While rain and surface water recharge into Green River Formation outcrops further south along the Book Cliffs/Roan Cliffs in effect "freshens" the Green River Formation water near those outcrops, in this area of the Monument Butte Field the observed

occasional 'freshening' is ascribed to the effective dilution of the originally in-place high TDS water from injection of relatively fresh water for enhanced oil recovery operations. Water samples from deeper Mesaverde Formation sands in the nearby Natural Buttes Unit yield highly saline water.

The State of Utah Division of Water Rights identifies no public water supply wells within the one-quarter (1/4) mile Area-of-Review (AOR) around the Odekirk Springs No. 1A-35-8-17.

Technical Publication No. 92: State of Utah, Department of Natural Resources, cites the base of Underground Sources of Drinking Water (USDW) in the Uinta Formation approximately 97 feet from the surface. However, absent definitive information relative to the water quality of the Uinta Formation, from the depth of 97 feet to the base of the Uinta Formation (1,679 feet), the EPA will require, during plugging and abandonment, a cement plug at the base of the Uinta Formation to prevent contamination of possible Uinta USDWs.

TABLE 2.4
UNDERGROUND SOURCES OF DRINKING WATER (USDW)
Odekirk Springs #1A-35-8-17

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)
Uinta: USDW	Sand and shale	0	107	< 10,000
Uinta	Interbedded sand, shale, and carbonate, and fluvial sand and shale	107	1,679	

PART III. Well Construction (40 CFR 146.22)

TABLE 3.1
WELL CONSTRUCTION REQUIREMENTS
Odekirk Springs #1A-35-8-17

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
Surface	12.25	8.63	0 - 306	0 - 306
Longstring	7.88	5.50	0 - 6,193	480 - 6,193

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

See diagram.

The Odekirk Springs No. 1A-35-8-17 was drilled to a total depth of 6,213 feet (KB) feet in the Basal Carbonate Member of the Green River Formation.

Surface casing (8-5/8 inch) was set at a depth of 306 feet in a 12-1/4 inch hole using 155 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 6,193 feet (KB) in a 7-7/8 inch hole with 300 sacks of Premium Lite II and 550 sacks of 50/50 poz mix. This well construction is considered adequate to protect USDWs.

The EPA calculates the top of cement as 704 feet from the surface. The Cement Bond Log (CBL) identifies top of cement at 480 feet. CBL analysis does identify adequate 80% cement bond index within the confining zone.

The schematic diagram shows proposed enhanced recovery injection perforations in the Garden Gulch and Douglas Creek Members of the Green River Formation. Additional perforations may be added at a later time between the depths of 4,030 feet and the top of the Wasatch Formation (estimated to be at a depth of 6,335 feet) provided the operator first notifies the Director and later submits an updated well completion report (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

Casing and Cementing (TABLE 3.1)

The well construction plan was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction details for this "new" injection well is shown in TABLE 3.1.

Remedial cementing may be required if the casing cement is shown to be inadequate by cement bond log or other demonstration of Part II (External) mechanical integrity.

Tubing and Packer

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

Tubing-Casing Annulus (TCA)

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

The tubing-casing annulus must be kept closed at all times so that it can be monitored as required under conditions of the Permit.

Monitoring Devices

The permittee will be required to install and maintain wellhead equipment that allows for monitoring pressures and providing access for sampling the injected fluid. Required equipment may include but is not limited to: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) fittings or pressure gauges attached to the injection tubing and the TCA for monitoring the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)

**TABLE 4.1
AOR AND CORRECTIVE ACTION**

Well Name	Type	Status (Abandoned Y/N)	Total Depth (ft)	TOC Depth (ft)	CAP Required (Y/N)
Federal #2A-35-8-17	Producer	No	6,210	170	No
Federal #8-35-8-17	Producer	No	6,165	470	Yes
Odekirk Springs #4-36-8-17	Producer	No	6,000	2,100	Yes
Odekirk Springs G-36-9-17	Producer	No	6,345	180	No

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

Area Of Review

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less than one quarter (1/4) mile or a calculated zone of endangering influence. For Area Permits, a fixed width of not less than one quarter (1/4) mile for the circumscribing area may be used.

Corrective Action Plan

For wells in the AOR which are improperly sealed, completed, or abandoned, the applicant shall develop a Corrective Action Plan (CAP) consisting of the steps or modifications that are necessary to prevent movement of fluid into USDWs.

The CAP will be incorporated into the Permit as APPENDIX F and become binding on the permittee.

PART V. Well Operation Requirements (40 CFR 146.23)

TABLE 5.1
INJECTION ZONE PRESSURES
Odekirk Springs #1A-35-8-17

Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)
Green River: Garden Gulch, Douglas Creek, and Basal Carbonate Members	4,536	0.690	1,135

Approved Injection Fluid

The approved injection fluid is limited to Class II injection well fluids pursuant to 40 CFR § 144.6(b). For disposal wells injecting water brought to the surface in connection with natural gas storage operations, or conventional oil or natural gas production, the fluid may be commingled and the well used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Injection of non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes, and vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste, is prohibited.

The proposed injectate will be a blend of drinking-quality water from the Johnson Water District supply line and/or water from the Green River supply line, as well as Green River Formation water from wells proximate to the Odekirk Springs No. 1A-35-8-17 and mixed at the Boundary Injection Facility.

Injection Pressure Limitation

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit.

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

- FP = formation fracture pressure (measured at surface)
- fg = fracture gradient (from submitted data or tests)
- sg = specific gravity (of injected fluid)
- d = depth to top of injection zone (or top perforation)

Injection Volume Limitation

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs

into an aquifer that has been exempted from protection as a USDW.

There will be no restrictions on the cumulative volume or daily volume of authorized Class II fluid to be injected into the approved Green River Formation Interval. The Permittee shall not exceed the maximum authorized injection pressure.

Mechanical Integrity (40 CFR 146.8)

An injection well has mechanical integrity if:

1. there is no significant leak in the casing, tubing, or packer (Part I); and
2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore (Part II).

The Permit prohibits injection into a well which lacks mechanical integrity.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A demonstration of mechanical integrity includes both internal (Part I) and external (Part II). The methods and frequency for demonstrating Part I and Part II mechanical integrity are dependent upon well-specific conditions as explained below.

Well construction and site-specific conditions dictate the following requirements for Mechanical Integrity (MI) demonstrations:

PART I MI: Internal MI will be demonstrated prior to beginning injection. Since this well is constructed with a standard casing, tubing, and packer configuration, a successful mechanical integrity test (MIT) is required to take place at least once every five (5) years. A demonstration of Part I MI is also required prior to resuming injection following any workover operation that affects the casing, tubing, or packer. Part I MI may be demonstrated by a standard tubing-casing annulus pressure test using the maximum permitted injection pressure or 1,000 psi, whichever is less, with a ten (10) percent or less pressure loss over thirty (30) minutes.

Part II MI: The CBL indicates that cement meets the minimum requirements needed to demonstrate zone isolation (at least 18 feet of continuous 80% cement bond index, or better) through the Confining Zone.

PART VI. Monitoring, Recordkeeping and Reporting Requirements

Injection Well Monitoring Program

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, annulus pressure, monthly injection flow rate and cumulative fluid volume. This information is required to be reported annually as part of the Annual Report to the Director.

PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)

Plugging and Abandonment Plan

Prior to abandonment, the well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs, and in accordance with any applicable Federal, State or local law or regulation. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520 13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. The plugging and abandonment plan is described in Appendix E of the Permit.

See Schematic Diagram

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable Federal, State or local law or regulation. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Seal Injection Zone: Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top injection perforation. Place at least twenty (20) feet of cement plug on top of the CIBP.

PLUG NO. 2: Seal Mahogany Shale and Trona intervals: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale approximately 3,146 feet to 3,311 feet (unless pre-existing backside cement precludes cement-squeezing this interval) followed by a minimum 165-foot balanced cement plug inside the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale, approximately 3,146 feet to 3,311 feet.

PLUG NO. 3: Seal USDWs: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the base of the Uinta formation approximately 1,619 feet to 1,739 feet (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 120-foot balanced cement plug inside the 5-1/2 inch casing across the base of the Uinta Formation, approximately 1,619 feet to 1,739 feet.

PLUG NO.4: Seal Surface: Set a Class "G" cement plug within the 5-1/2 inch casing to 356 feet and up the 5-1/2 inch by 8-5/8 inch casings annulus to the surface.

PART VIII. Financial Responsibility (40 CFR 144.52)

Demonstration of Financial Responsibility

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

The applicant has demonstrated financial responsibility by a Financial Statement in the amount of \$59,344 that has been approved by the EPA. The Director may revise the amount required, and may require the permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment plan.

Financial Statement, received May 16, 2008

Evidence of continuing financial responsibility is required to be submitted to the Director annually.

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

5. LEASE DESIGNATION AND SERIAL NUMBER:
USA UTU-40026

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

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

1. TYPE OF WELL: OIL WELL GAS WELL OTHER

8. WELL NAME and NUMBER:
ODEKIRK SPRINGS 1A-35-8-17

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
4304733549

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

10. FIELD AND POOL, OR WILDCAT:
MONUMENT BUTTE

4. LOCATION OF WELL:
FOOTAGES AT SURFACE: 660 FNL 660 FEL

COUNTY: UINTAH

OTR/OTR. SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE, 35, T8S, R17E

STATE: UT

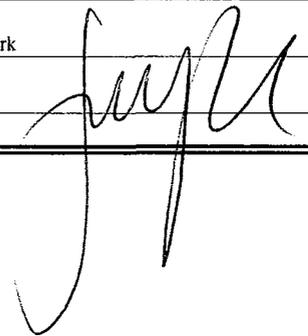
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 06/18/2009	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: -
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

The subject well has been converted from a producing oil well to an injection well on 06/10/09. On 05/18/09 Steven Pratt with the EPA was contacted concerning the initial MIT on the above listed well. Permission was given at that time to perform the test on 05/26/09. On 06/11/09 the casing was pressured up to 1200 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 280 psig during the test. There was not an EPA representative available to witness the test. EPA# UT21203-08271 API# 43-047-33549

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

NAME (PLEASE PRINT) Jentri Park TITLE Production Tech
SIGNATURE  DATE 06/18/2009

(This space for State use only)

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JUN 22 2009
DIV. OF OIL, GAS & MINING

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: _____ Date: 06/11/09
 Test conducted by: Dale Giles
 Others present: _____

Well Name: <u>Odekirk Springs 1A-35-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Odekirk Unit</u>		
Location: _____	Sec: <u>35</u> T <u>8</u> N <u>10</u> R <u>17</u> W	County: <u>Uintah</u> State: <u>WY</u>
Operator: <u>Newfield production CO.</u>		
Last MIT: <u>1</u> / <u>1</u> / _____	Maximum Allowable Pressure: _____	PSIG

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

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	<u>280</u> psig	psig	psig
End of test pressure	<u>280</u> psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	<u>1200</u> psig	psig	psig
5 minutes	<u>1200</u> psig	psig	psig
10 minutes	<u>1200</u> psig	psig	psig
15 minutes	<u>1200</u> psig	psig	psig
20 minutes	<u>1200</u> psig	psig	psig
25 minutes	<u>1200</u> psig	psig	psig
30 minutes	<u>1200</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

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

MECHANICAL INTEGRITY PRESSURE TEST

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

Signature of Witness: _____



CHART POOL USA INC.
PORTAGE, INDIANA
(70 FIT)
CHART NO. MP- 2500

METER _____
06-11-09
CHART PUT ON 11:00 A.M. TAKEN OFF 11:30 A.M.
LOCATION Odekirk Springs 1A-35-8-17
REMARKS Odekirk Unit

Dale



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

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

Ref: 8P-W-GW

JUL 22 2009

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

Mr. Michael Guinn
District Manager
Newfield Production Company
Route 3 - Box 3630
Myton, UT 84052

RE: Authority to Commence Injection
EPA UIC Permit UT21203-08271
Well: Odekirk Springs #1A-35-8-17
NE/NE Section 35 T8S R17E
Uintah County, Utah
API #: 43-047-33549

Dear Mr. Guinn:

Newfield Production Company (Newfield) has satisfactorily completed Environmental Protection Agency (EPA) Prior to Commencing Injection requirements for Final Permit UT21203-08271, effective April 14, 2009. The Part I (Internal) Mechanical Integrity Test (MIT), Well Rework Record (EPA Form No. 7520-12), schematic diagram, and pore pressure, were reviewed and approved by EPA on July 17, 2009.

As of the date of this letter, Newfield is authorized to commence injection into Odekirk Springs 1A-35-8-17 at a maximum allowable injection pressure (MAIP) of 1,135 psig. Until such time as the Permittee demonstrates through a Step Rate Test (SRT) that the Fracture Gradient (FG) is other than 0.69 psi/ft, Odekirk Springs 1A-35-8-17 shall be operated at a MAIP no greater than 1,135 psig.

As of this approval, responsibility for permit compliance and enforcement is transferred to Region 8 UIC Technical Enforcement Program office. Therefore, please direct all monitoring and compliance correspondence to the following address, referencing your well name and UIC Permit number on all correspondence regarding this well to:

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JUL 27 2009

DIV. OF OIL, GAS & MINING

Mr. Nathan Wisler
Technical Enforcement Program – UIC
U.S. EPA Region 8: Mail Code 8ENF-UFO
1595 Wynkoop Street
Denver, CO 80202-1129

Or, you may reach Mr. Wisler by telephone at 303-312-6211, or 1 800-227-8927, ext. 312-6211.

Please remember that it is your responsibility to be aware of and to comply with all conditions of injection well Permit UT21203-08271.

If you have questions regarding the above action, please call Sarah Bahrman at 303-312-6243 or 1-800-227-8917, ext. 312-6243.

Sincerely,


for Stephen S. Tuber

Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

cc:

Uintah & Ouray Business Committee:

Curtis Cesspooch, Chairman
Ronald Groves, Councilman
Irene Cuch, Vice-Chairwoman
Steven Cesspooch, Councilman
Phillip Chimburas, Councilman
Frances Poowegup, Councilwoman

Daniel Picard
BIA - Uintah & Ouray Indian Agency

Ferron Secakuku
Director, Natural Resources
Ute Indian Tribe

Larry Love
Director of Energy & Minerals Dept.
Ute Indian Tribe

Gil Hunt
Associate Director
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst
Newfield Production Company

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

5. LEASE DESIGNATION AND SERIAL NUMBER:
USA UTU-40026

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		8. WELL NAME and NUMBER: ODEKIRK SPRINGS 1A-35-8-17
PHONE NUMBER 435.646.3721		9. API NUMBER: 4304733549
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 660 FNL 660 FEL		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NENE, 35, T8S, R17E		COUNTY: UINTAH
		STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will <u>08/06/2009</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Change status put well on injection
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
The above reference well was put on injection at 11:00 AM on 8-6-09.

UT 21203-08271

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

NAME (PLEASE PRINT) <u>Kathy Chapman</u>	TITLE <u>Office Manager</u>
SIGNATURE 	DATE <u>08/10/2009</u>

(This space for State use only)

RECEIVED
AUG 11 2009
DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-40026
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Water Injection Well		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		8. WELL NAME and NUMBER: ODEKIRK SPRINGS 1A-35-8-17
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052		9. API NUMBER: 43047335490000
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0660 FNL 0660 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 35 Township: 08.0S Range: 17.0E Meridian: S		COUNTY: UINTAH
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/9/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="5 YR MIT"/>

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

5 YR MIT performed on the above listed well. On 05/09/2014 the casing was pressured up to 1082 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 1295 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-08271

**Accepted by the
Utah Division of
Oil, Gas and Mining**
FOR RECORD ONLY
May 27, 2014

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 5/20/2014	

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: _____ Date: 5/19/14
 Test conducted by: Chris Walters
 Others present: _____

Well Name: <u>Oderink Spgs 1A-35-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Mon. Butte</u>		
Location: <u>NE/NE Sec: 35 T 8 N16 R17 B/W</u> County: <u>Uintah</u> State: <u>UT</u>		
Operator: <u>Newfield</u>		
Last MIT: <u>1 1</u>	Maximum Allowable Pressure: <u>1360</u>	PSIG

Is this a regularly scheduled test? Yes No
 Initial test for permit? Yes No
 Test after well rework? Yes No
 Well injecting during test? Yes No If Yes, rate: 24 bpd

Pre-test casing/tubing annulus pressure: 1082 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	<u>1295</u> psig	psig	psig
End of test pressure	<u>1295</u> psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	<u>1082</u> psig	psig	psig
5 minutes	<u>1082</u> psig	psig	psig
10 minutes	<u>1082</u> psig	psig	psig
15 minutes	<u>1082</u> psig	psig	psig
20 minutes	<u>1082</u> psig	psig	psig
25 minutes	<u>1082</u> psig	psig	psig
30 minutes	<u>1082</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

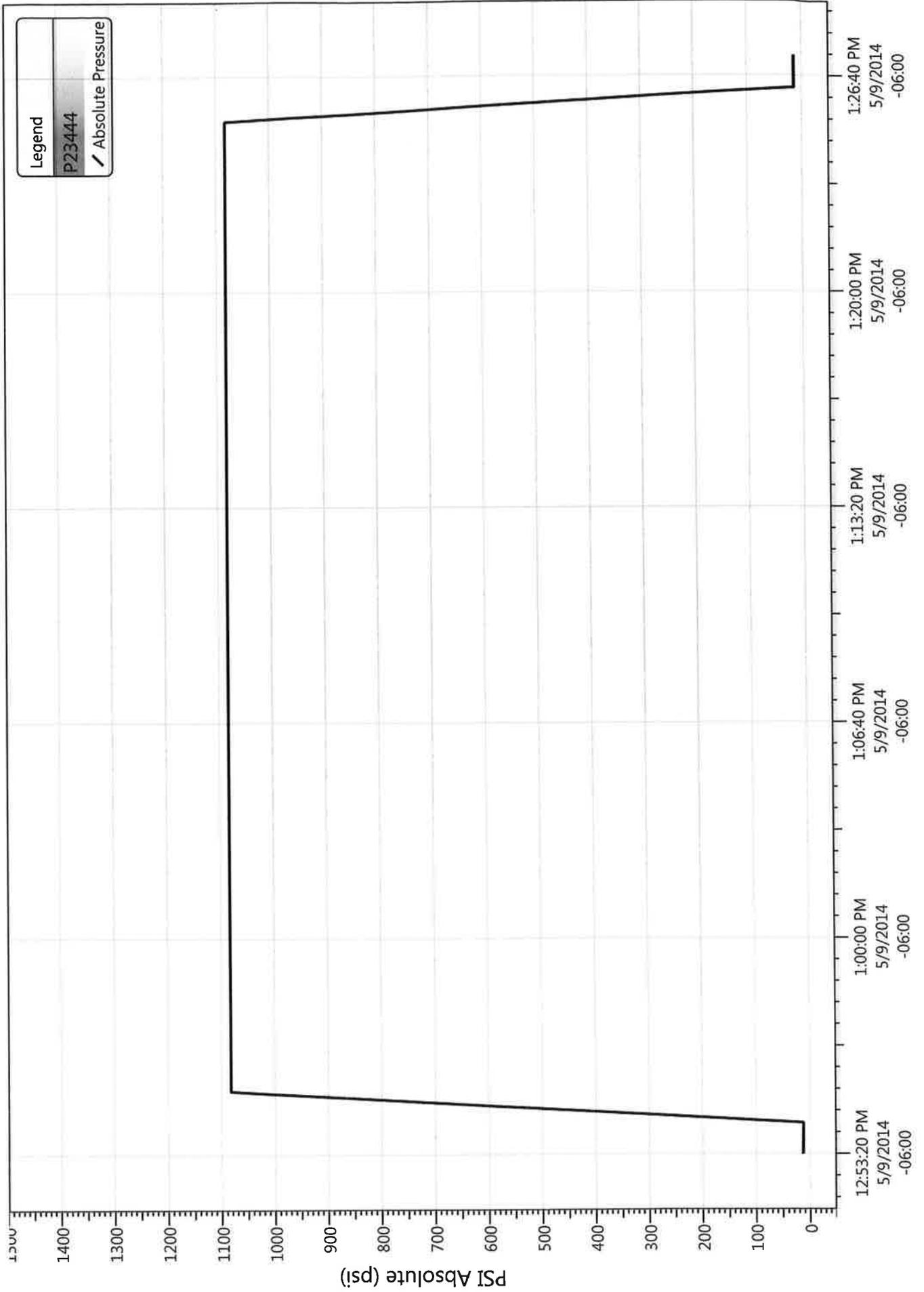
Does the annulus pressure build back up after the test? Yes No

MECHANICAL INTEGRITY PRESSURE TEST

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

Signature of Witness: _____

Odekirk Spgs 1A-35-8-17 5-yr MIT (5-9-14)
5/9/2014 12:52:30 PM



Odekirk Spring Federal #1A-35-8-17

Spud Date: 10 01 00
 Put on Production: 11 14 00
 GI.: 5097', KB: 5107'

Initial Production: 85 BOPD,
 26.5 MCFD, 19 BWPD

SURFACE CASING

CSG SIZE: 8-5 8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 293'
 DEPTH LANDED: 295'
 HOLE SIZE: 12-1 4"
 CEMENT DATA: 155 sx Class G, cmt to surface

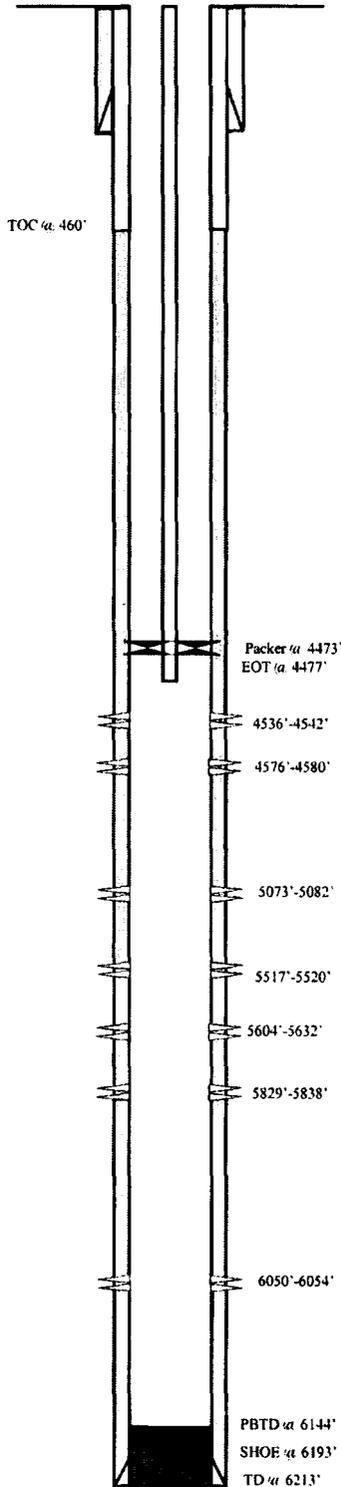
PRODUCTION CASING

CSG SIZE: 5-1 2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 6193'
 DEPTH LANDED: 6193'
 HOLE SIZE: 7-7 8"
 CEMENT DATA: 300 sx Premlite II & 550 sx 50 50 Pozmix
 CEMENT TOP AT: 460'

TUBING

SIZE GRADE WT.: 2-7 8" J-55
 NO. OF JOINTS: 150 jt 2-7 8 tbg @ 4459.04'
 SEATING NIPPLE: 2-7 8" (1.10')
 SN LANDED @ 4469.04
 ARROWSET 1-X PKR (7.20') @ 4470.14
 CE @ 4473.24
 EOT @ 4477.34

Injection Wellbore Diagram



FRAC JOB

11-09-00	4536'-4580'	Frac sand as follows: 52,380# 20/40 sand in 394 bbls Viking I-25 fluid. Treated w/avg press of 2400 psi, w/avg rate of 31 BPM. ISIP-2570 psi.
11-09-00	5073'-5082'	Frac sand as follows: 46,333# 20/40 sand in 357 bbls Viking I-25 fluid. Treated @ avg press of 1800 psi w/avg rate of 31.6 BPM. ISIP 2990 psi.
11-08-00	5517'-5632'	Frac sand as follows: 154,350# 20/40 sand in 867 bbls Viking I-25 fluid. Treated @ avg press of 1600 psi w/avg rate of 31 BPM. ISIP 2050 psi.
11-08-00	5829'-6054'	Frac sand as follows: 64,637# 20/40 sand in 456 bbls Viking I-25 fluid. Treated @ avg press of 1870 psi w/avg rate of 29 BPM. ISIP 2440 psi.
09/07/04		Tubing Leak : update rod detail
8 27 07		Parted Rods. Updated rod & tubing detail.
1-23-08		Parted rods. Updated rod & tubing details.
06/10/09		Converted to Injection well
06/11/09		MIT Completed, update tbg detail

PERFORATION RECORD

11-07-00	5829'-5838'	4 SPF	36 holes
11-07-00	6050'-6054'	4 SPF	16 holes
11-08-00	5517'-5520'	4 SPF	12 holes
11-08-00	5604'-5632'	4 SPF	112 holes
11-09-00	5073'-5082'	4 SPF	36 holes
11-09-00	4536'-4542'	4 SPF	24 holes
11-09-00	4576'-4580'	4 SPF	16 holes

NEWFIELD

Odekirk Spring Federal #1A-35-8-17
 660' FNL & 660' FEL
 NE/NE Section 35-T8S-R17E
 Uintah Co, Utah
 API #43-047-33549; Lease #UTU-40026