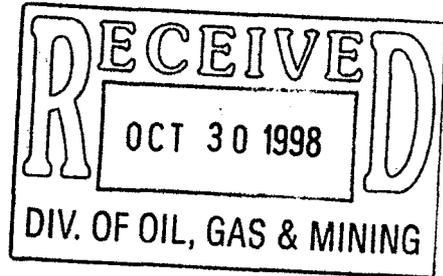




October 29, 1998



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

ATTENTION: Lisha Cordova

**RE: Castle Draw #9-2-9-17
NE/SE Sec. 2, T9S, R17E
Uintah County, Utah**

**Castle Draw #15-2-9-17
SW/SE Sec. 2, T9S, R17E
Uintah County, Utah**

**Castle Draw #16-2-9-17
SE/SE Sec. 2, T9S R17E
Uintah County, Utah**

Dear Lisha,

Enclosed are the originals and two (2) copies each of the Application For Permit To Drill, for the above referenced locations. Included is a copy of the Cultural Resource Evaluation.

You may contact me at (435) 789-1866 in order to schedule an onsite date or Brad Mecham in the Pleasant Valley Field Office (435) 646-3721.

Please do not hesitate to call me if you have any questions, or need additional information.

Sincerely,

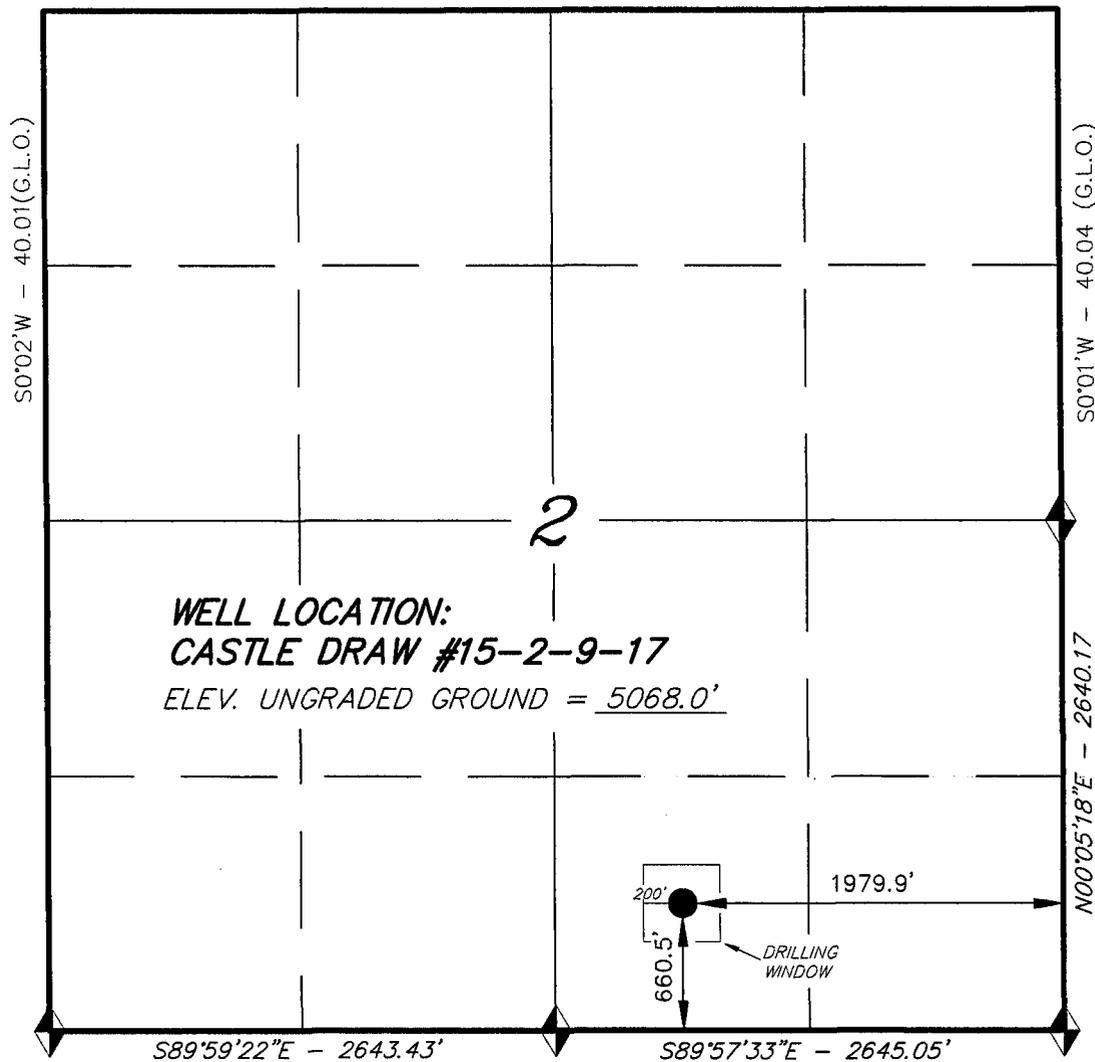
Cheryl Cameron
Regulatory Specialist

cc: Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, Utah 84078

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

INLAND PRODUCTION COMPANY

N89°58'E (G.L.O.)



WELL LOCATION:
CASTLE DRAW #15-2-9-17
 ELEV. UNGRADED GROUND = 5068.0'

S89°59'22"E - 2643.43'

S89°57'33"E - 2645.05'

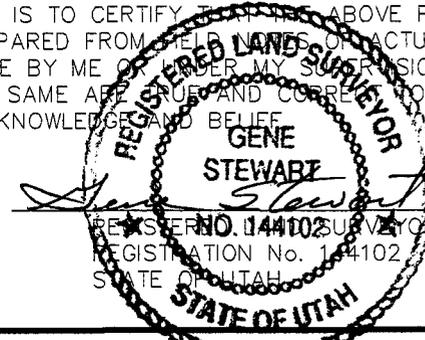
S0°02'W - 40.01 (G.L.O.)

S0°01'W - 40.04 (G.L.O.)

N00°05'18"E - 2640.17



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



TRI STATE LAND SURVEYING & CONSULTING

38 WEST 100 NORTH - VERNAL, UTAH 84078
 (801) 781-2501

◆ = SECTION CORNERS LOCATED

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

BASIS OF BEARINGS IS A GLOBAL POSITIONING SATELITE OBSERVATION

SCALE: 1" = 1000'

SURVEYED BY: D.S.

DATE: 10-4-98

WEATHER: WARM

REVISIONS: 10-12-98

FILE #

**INLAND PRODUCTION COMPANY
CASTLE DRAW #15-2-9-17
SW/SE SECTION 2, T9S, R17E
UINTAH COUNTY, UTAH**

TEN POINT WELL PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	0' - 1450'
Green River	1450'
Wasatch	6500'

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

Green River Formation 1450' - 6500' - Oil

4. PROPOSED CASING PROGRAM

8 5/8", J-55, 24# w/ ST&C collars; set at 300' (New)
5 1/2", J-55, 15.5# w/ LT&C collars; set at TD (New)

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

The operators minimum specifications for pressure control equipment are as follows:

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

(See Exhibit F)

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

The well will be drilled with fresh water through the Uinta Formation. From the top of the Green River Formation @ 3050' ±, to TD, a fresh water/polymer system will be utilized. If necessary to control formation fluids, the system will be weighted with the addition of bentonite gel, and if conditions warrant, barite. Clay inhibition will be achieved with additions of 5 lb. - 8 lb. per barrel of DAP (Di-Ammonium Phosphate, commonly known as fertilizer). This fresh water system will contain Total Dissolved Solids (TDS) of less than 3000 PPM. Neither potassium chloride or chromate's will be utilized in the fluid system. The anticipated mud weight is 8.4 ppg and weighted as necessary for gas control.

AIR DRILLING

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

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

MUD PROGRAM

MUD TYPE

Surface - 320'	Air
320' - 4200'	Air/Mist & Foam
4200' - TD	The well will be drilled with fresh water through the Green River Formation @ 4200' ±, to TD, a fresh water/polymer system will be utilized. If necessary to control formation fluids, the system will be weighted with the addition of bentonite gel, and if conditions warrant, barite. Clay inhibition will be achieved with additions or by adding DAP (Di-Ammonium Phosphate, commonly known as fertilizer.) Typically, this fresh water/polymer system will contain Total Dissolved Solids (TDS) of less than 3000 PPM. Neither potassium chloride or chromates will be utilized in the fluid system. The anticipated mud weight is 8.4 ppg and weighted as necessary for gas control.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

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

8. TESTING, LOGGING AND CORING PROGRAMS:

No drill stem testing has been scheduled for this well. It is anticipated at this time that the logging will consist of a Dual Induction Laterolog, Gamma Ray/Caliber from TD to base of surface casing @ 300' ±, and a Compensated Neutron-Formation Density Log. Logs will run from TD to 3500' ±. The cement bond log will be run from PBTD to cement top. An automated mud logging system will be utilized while drilling to monitor and record penetration rate, and relative gas concentration, in the fluid system.

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; nor that any other abnormal hazards such as H2S will be encountered in this area.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

It is anticipated that the drilling operations will commence the forth quarter of 1998, and take approximately six days to drill.

**INLAND PRODUCTION COMPANY
CASTLE DRAW #15-2-9-17
SW/SE SECTION 2, T9S, R17E
UINTAH COUNTY, UTAH**

THIRTEEN POINT WELL PROGRAM

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Inland Production Company well location site Castle Draw #15-2-9-17 located in the SW ¼ SE ¼ Section 2, T9S, R17E, S.L.B. & M. Uintah County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 - 1.6 miles ± to the junction of this highway and Utah State Highway 53; proceed southerly along Utah State Highway 53 - 12.9 miles to its junction with an existing dirt road to the northeast; proceed northeasterly along this road - 1.4 miles to its junction with a dirt road to the southeast; proceed southeasterly 0.9 miles to the beginning of the proposed access road, to be discussed in Item #2.

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

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

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

2. PLANNED ACCESS ROAD

Approximately 0.2 miles of access road is proposed.
See Topographic Map "B".

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

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

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

CASTLE DRAW #15-2-9-17

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

3. **LOCATION OF EXISTING WELLS**

See Exhibit "D".

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

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

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

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

Tank batteries will be built to State specifications.

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

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

Inland Production Company has purchased a 3" water connection with Johnson Water District (a public water source) to supply the Monument Butte, Travis, and Gilsonite oil fields. Johnson Water District has given permission to Inland Production Company to use water from this system, for the purpose of drilling and completing the Castle Draw #15-2-9-17. A temporary line may be used for water transportation from our existing supply line, from Johnson Water District, or trucked from Inland Production Company's water supply line located at the Gilsonite State #7-32 (SW/NE Sec. 32, T8S, R17E), or the Monument Butte Federal #5-35 (SW/NW Sec. 35, T8S, R16E), or the Travis Federal #15-28 (SW/SE Sec. 28, T8S, R16E), or other taps which may be installed on Inland's water system in the future. The system being tapped will have prior approval by the AO. See Exhibit "C".

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

See Location Layout Sheet - Exhibit "E".

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

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

See Location Layout Sheet - Exhibit "E".

A small reserve pit (90' X 40' X 8' deep, or less) will be constructed from native soil and clay materials. A water processing unit will be employed to continuously recycle the drilling fluid as it is used, returning the fluid component to the drilling rig's steel tanks. The reserve pit will primarily receive the processed drill cuttings (wet sand, shale & rock) removed from the well bore. Any drilling fluids which do accumulate in the pit as a result of sale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed by the water recycling unit and then returned to the steel rig tanks. All drilling fluids will be fresh water based containing DAP (Di-Ammonium Phosphate, commonly known as fertilizer), typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride chromate's, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be utilized in the reserve pit.

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

A portable toilet will be provided for human waste.

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

Immediately upon first production, all produced water will be confined in storage tanks. Inland requests temporary approval to transfer the produced water to Inland's nearby waterflood, for re-injection into the waterflood reservoirs via existing approved injection wells. Within 90 days of first production, a water analysis will be submitted to the Authorized Officer, along with an application for approval of this, as a permanent disposal method.

8. **ANCILLARY FACILITIES**

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

9. **WELL SITE LAYOUT**

See attached Location Layout Sheet - Exhibit "E".

The reserve pit will be located on the north between stakes 4 & 5.

The stockpiled topsoil (first six (6) inches) will be stored on the west between stakes 2 & 4.

Access to the well pad will be from the east between stakes 7 & 8.

Fencing Requirements

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

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

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

10. PLANS FOR RESTORATION OF SURFACE

a) *Producing Location*

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

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

When the drilling and completion phase ends, reclamation of unused disturbed areas on the well pad/access road no longer needed for operations, such as cut slopes, and fill areas will be accomplished by grading, leveling and seeding as recommended by the Authorized Officer. The seed mixture will be per State of Utah, and stated in the conditions of approval.

b) *Dry Hole Abandoned Location*

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

11. SURFACE OWNERSHIP – State of Utah

12. **OTHER ADDITIONAL INFORMATION**

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

The Archaeological Cultural Resource Survey Report is attached.

Additional Surface Stipulations

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

Hazardous Material Declaration

Inland Production Company guarantees that during the drilling and completion of the Castle Draw #15-2-9-17, we will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Inland also guarantees that during the drilling and completion of the Castle Draw #15-2-9-17 we will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

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

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

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

13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name: Cheryl Cameron
Address: P.O. Box 790233 Vernal, UT 84079
Telephone: (435) 789-1866

Certification

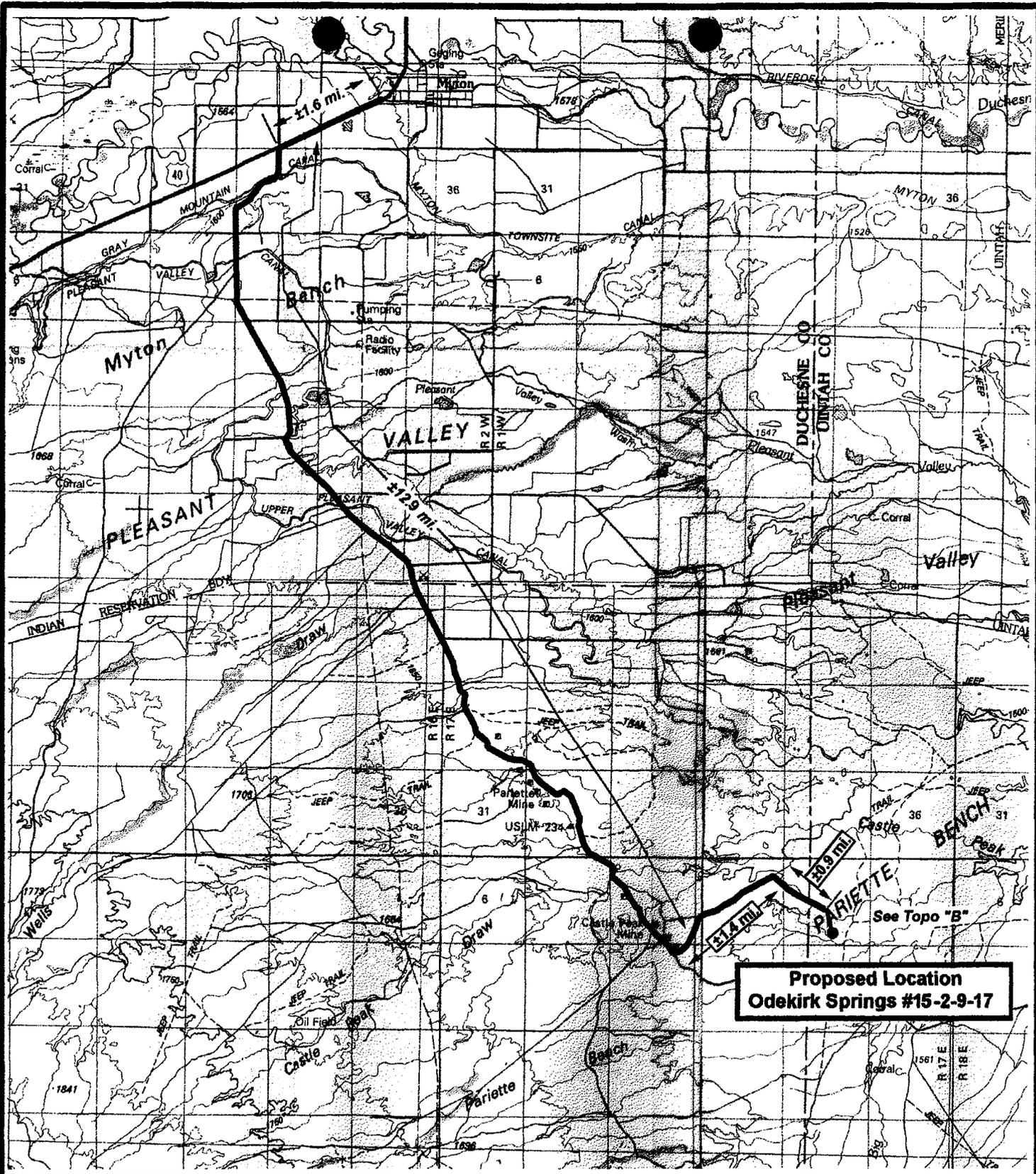
Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of Well #15-2-9-17 Section 2, Township 9S, Range 17E: Lease #ML-45555 Uintah County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4471291.

I hereby certify that the proposed drillsite 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 Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

10/28/98

Date


Cheryl Cameron
Regulatory Specialist



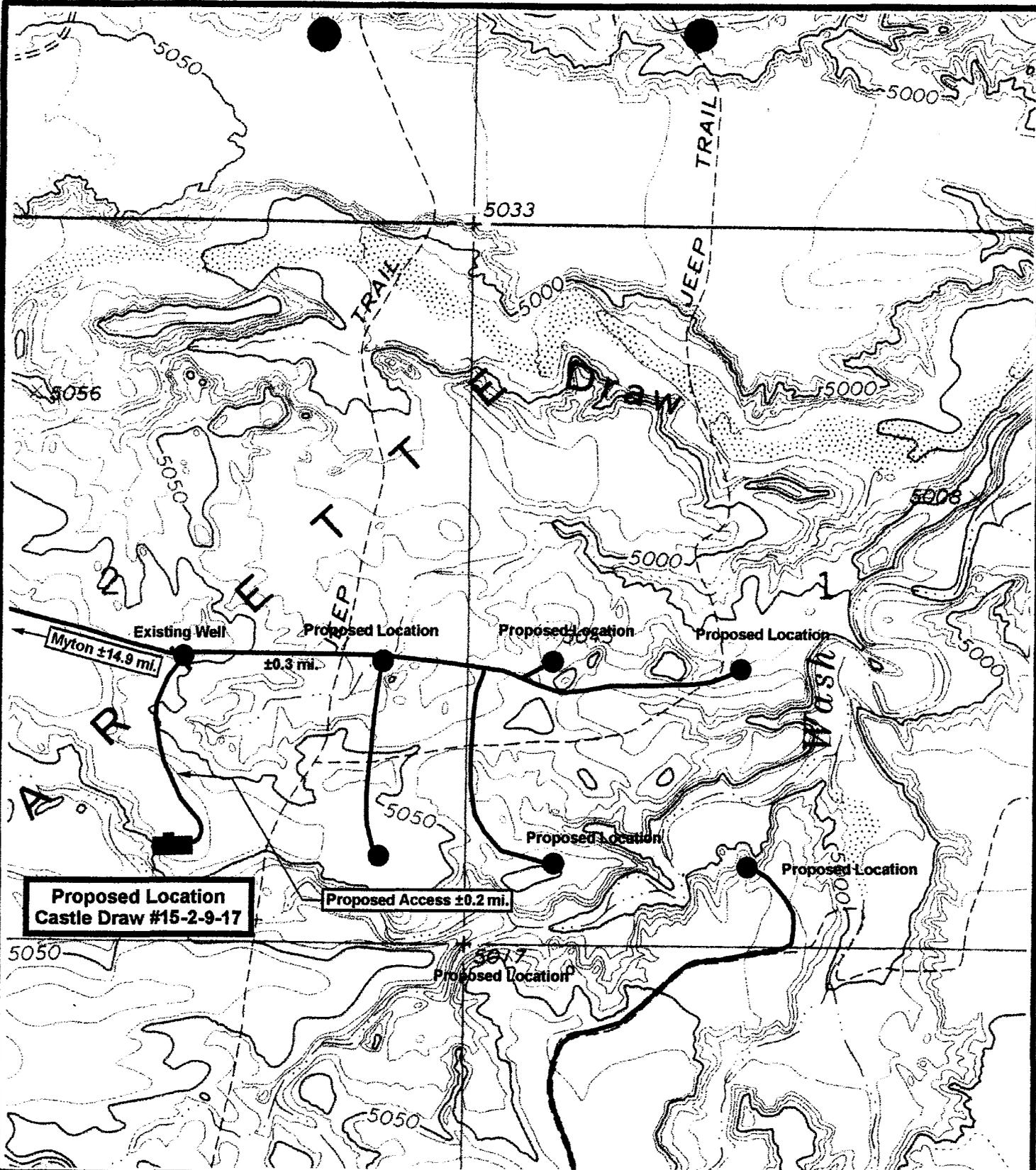
**Proposed Location
Odekirk Springs #15-2-9-17**



**ODEKIRK SPRINGS #15-2-9-17
SEC. 2, T9S, R17E, S.L.B.&M.
TOPOGRAPHIC MAP "A"**



Drawn By: SS	Revision:
Scale: 1 : 100,000	File:
Date: 9/28/98	
Tri-State Land Surveying Inc. P.O. Box 533, Vernal, UT 84078 435-781-2501 Fax 434-781-2518	



**Proposed Location
Castle Draw #15-2-9-17**

Proposed Access ±0.2 mi.



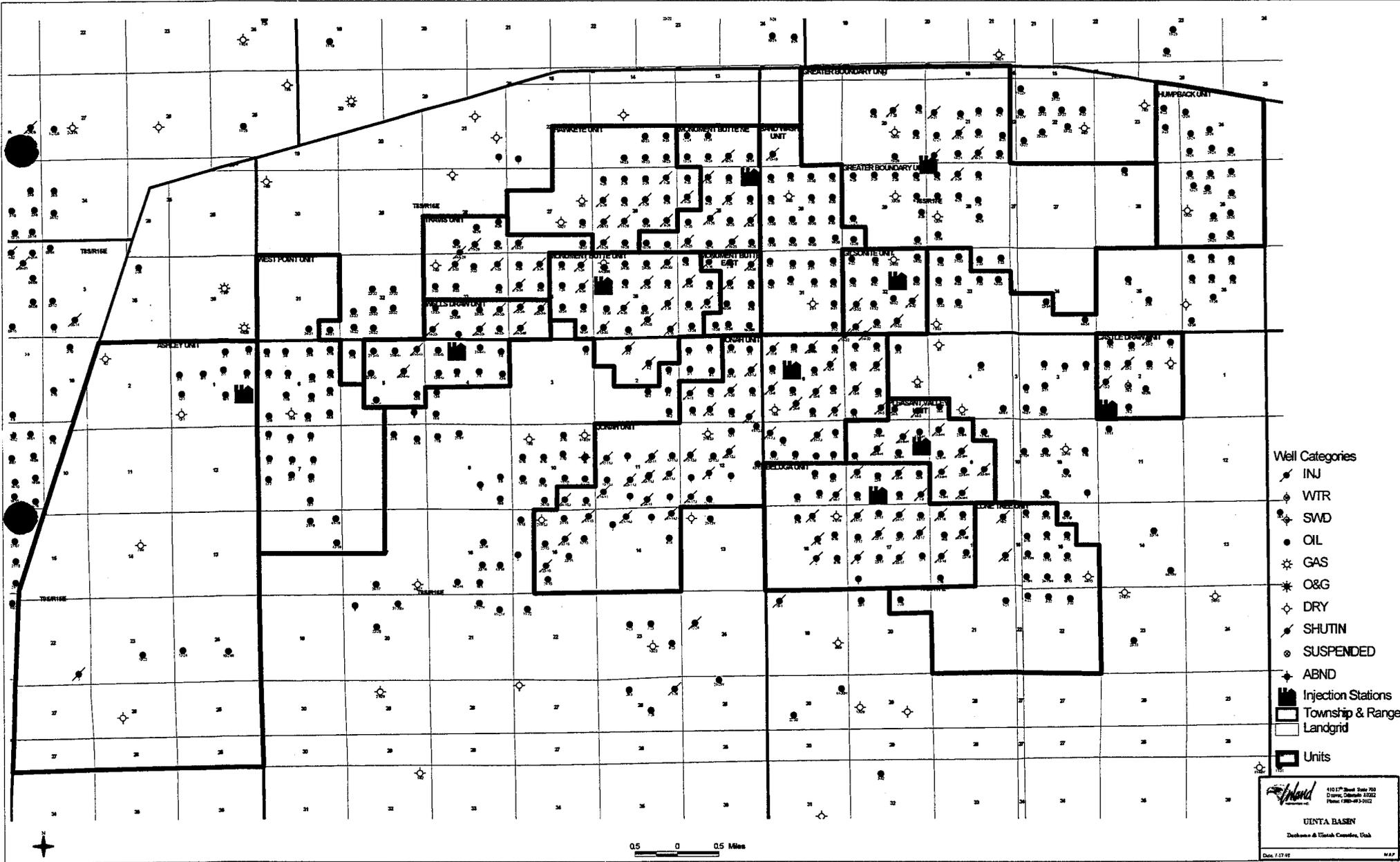
RESOURCES INC.

**CASTLE DRAW #15-2-9-17
SEC. 2, T9S, R17E, S.L.B.&M.
TOPOGRAPHIC MAP "B"**



Drawn By: SS	Revision:
Scale: 1" = 1000'	File:
Date: 9/24/98	
Tri-State Land Surveying Inc. P.O. Box 533, Vernal, UT 84078 435-781-2501 Fax 434-781-2518	

EXHIBIT "C"



- Well Categories**
- INJ
 - WTR
 - SWD
 - OIL
 - GAS
 - O&G
 - DRY
 - SHUTIN
 - SUSPENDED
 - ABND
 - Injection Stations
 - Township & Range
 - Landgrid
 - Units

8S/17E

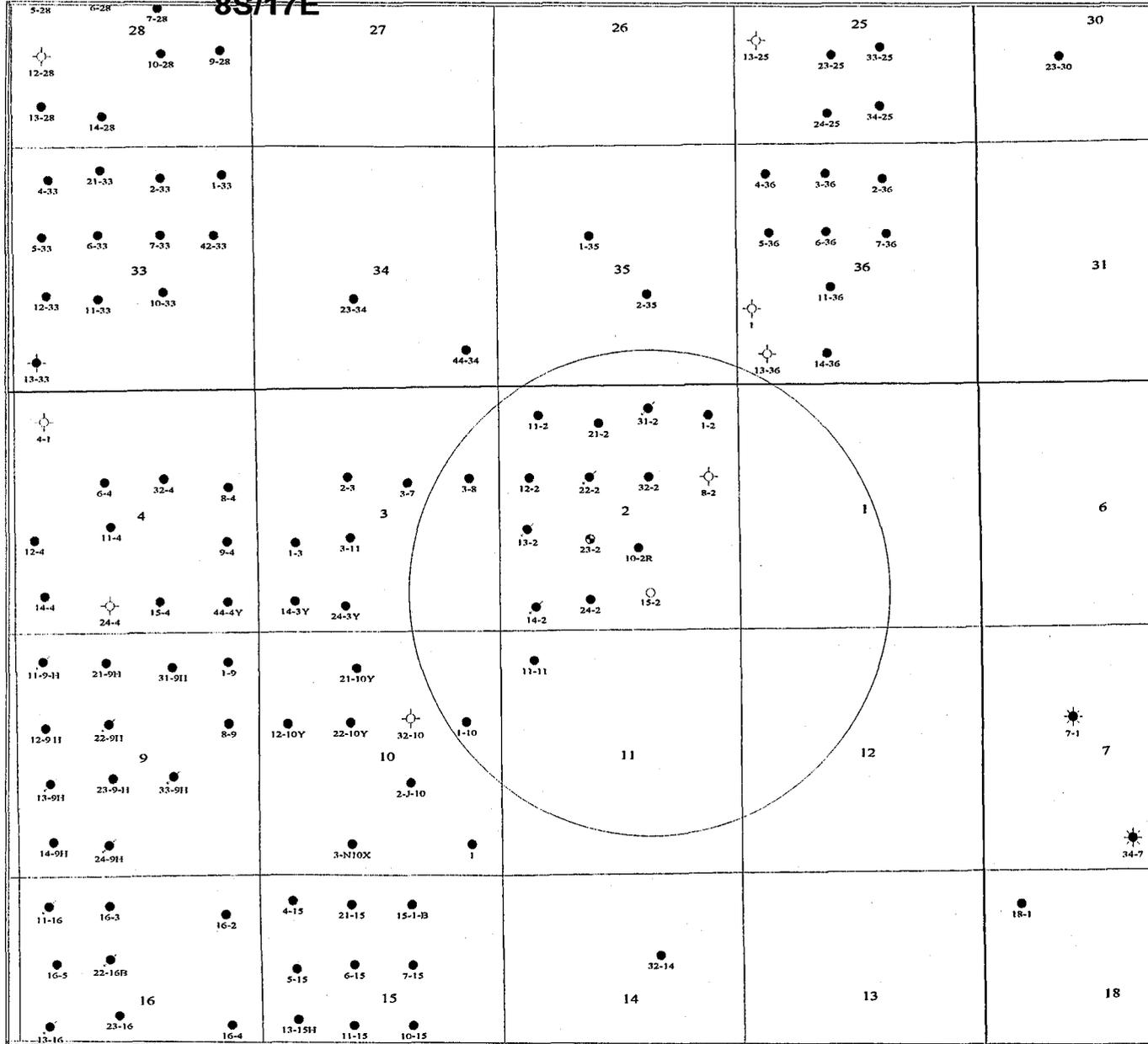
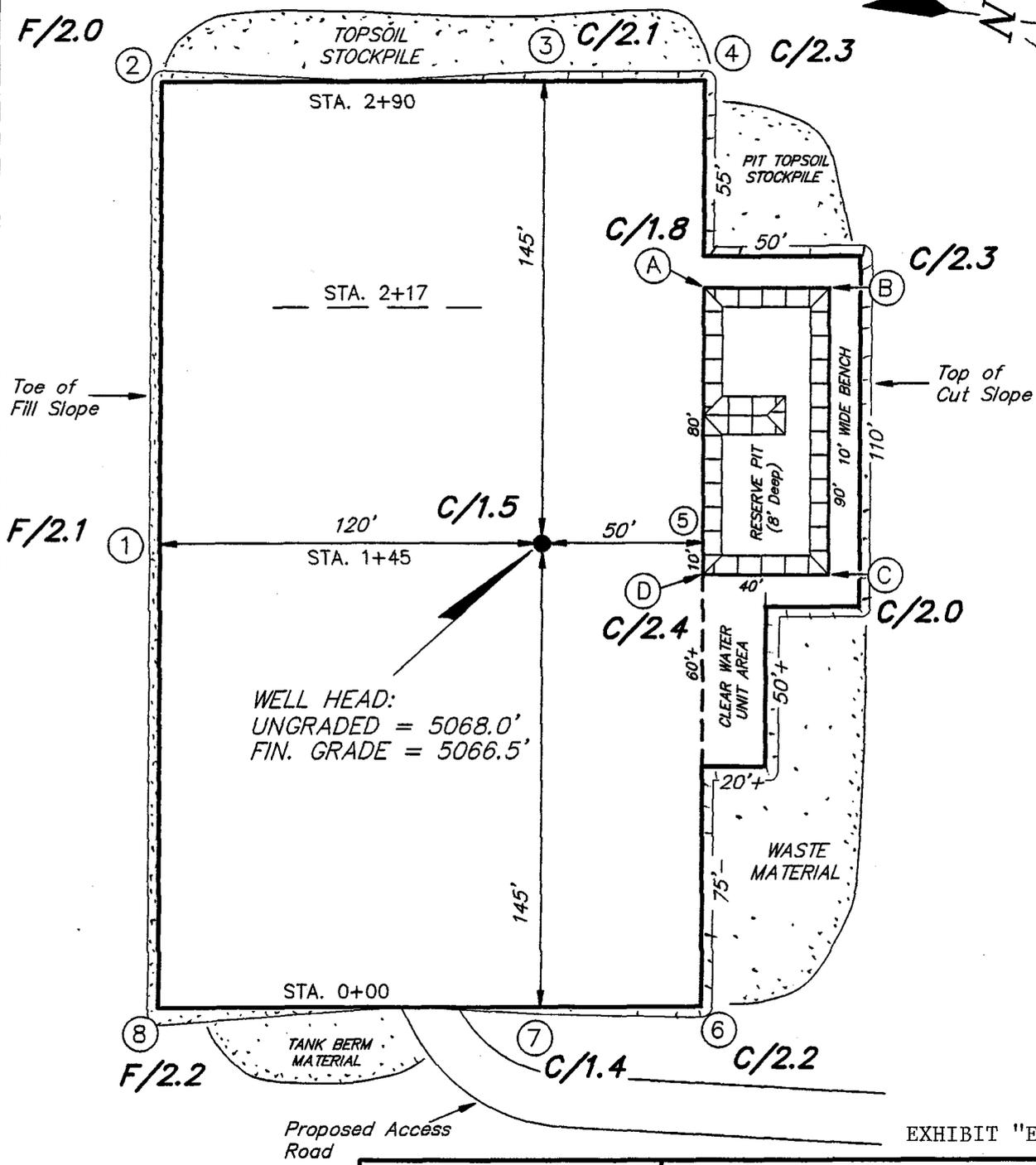
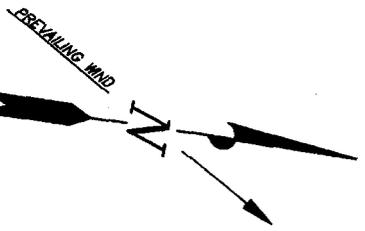


EXHIBIT "D"

INLAND PRODUCTION COMPANY		
ONE MILE RADIUS Castle Draw #15-2-9-17		
John Axelson	Scale 1:42547.14	10/20/98

INLAND PRODUCTION COMPANY

**CASTLE DRAW #15-2-9-17
SEC. 2, T9S, R17E, S.L.B.&M.**



WELL HEAD:
UNGRADED = 5068.0'
FIN. GRADE = 5066.5'

EXHIBIT "E"

REFERENCE POINTS

- 200' WEST = 5068.2'
- 250' WEST = 5068.0'
- 140' NORTH = 5068.8'
- 190' NORTH = 5069.3'

SURVEYED BY:	G.S.
DRAWN BY:	J.R.S.
DATE:	10-4-98
SCALE:	1" = 50'
REVISIONS:	

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

CROSS SECTIONS

CASTLE DRAW #15-2-9-17

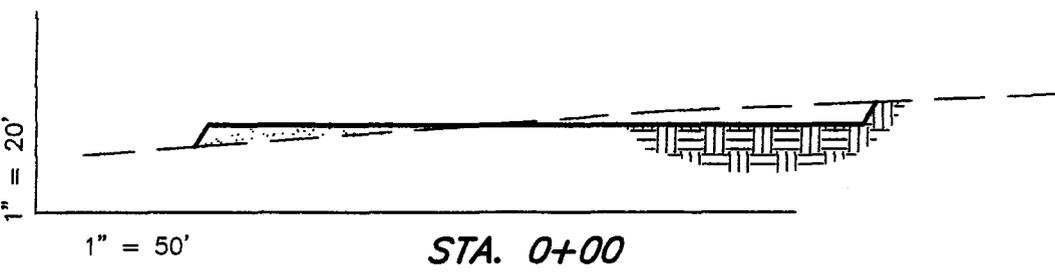
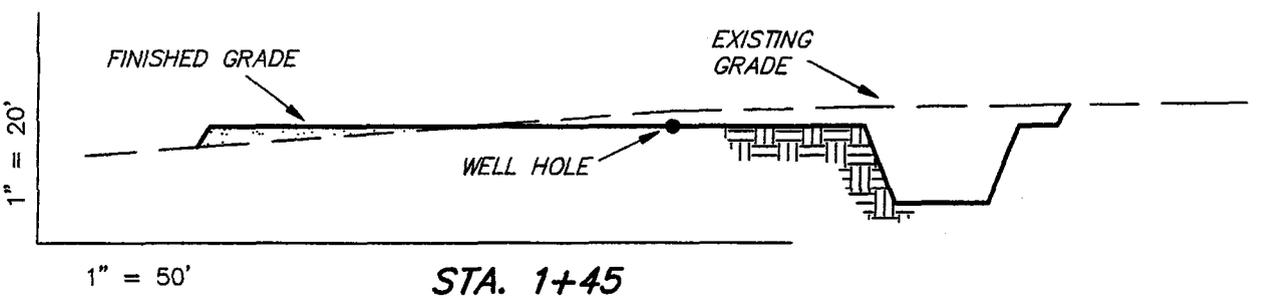
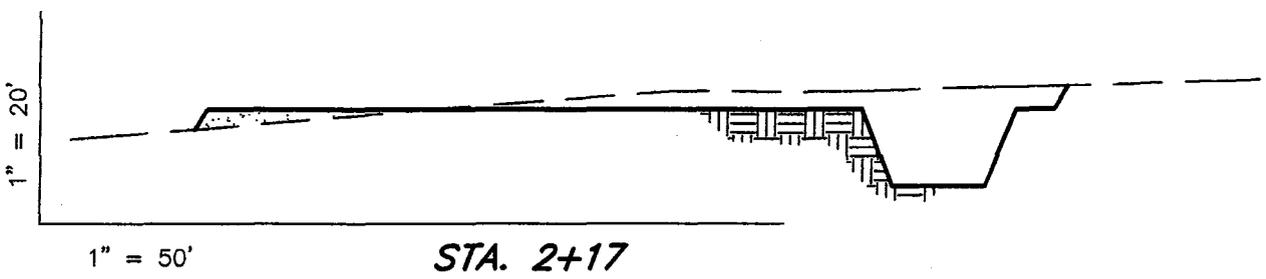
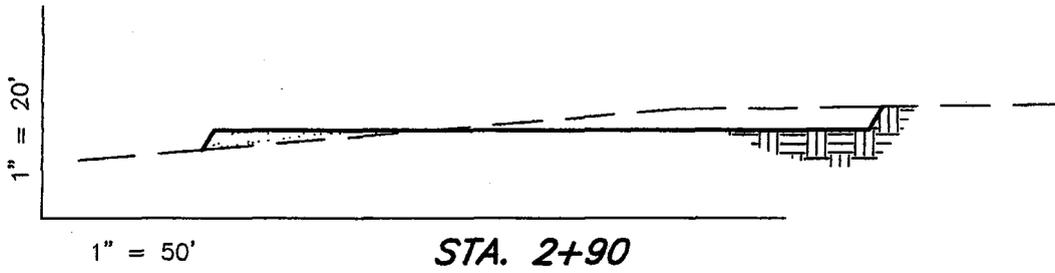


EXHIBIT "E-1"

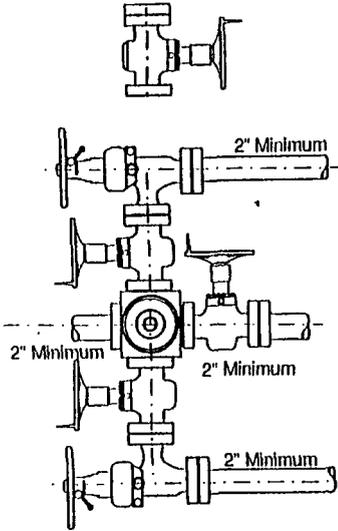
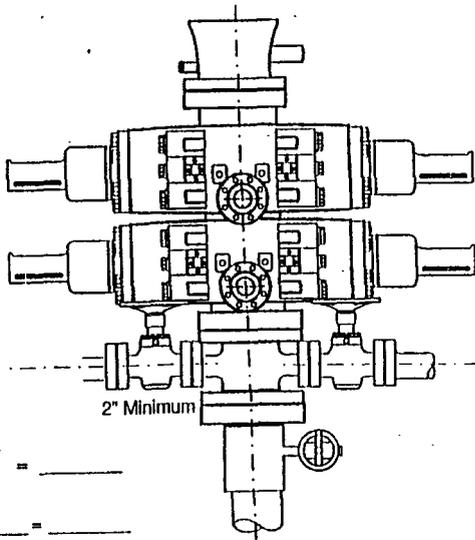
APPROXIMATE YARDAGES

- CUT = 1,190 Cu. Yds.
- FILL = 1,170 Cu. Yds.
- PIT = 920 Cu. Yds.
- 6" TOPSOIL = 1,030 Cu. Yds.

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

2-M SYSTEM

RAM TYPE B.O.P.
 Make:
 Size:
 Model:



GAL TO CLOSE
 Annular BOP = _____
 Ramtype BOP
 _____ Rams x _____ = _____ Gal.
 _____ x 2 = _____ Total Gal.

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

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/30/98

API NO. ASSIGNED: 43-047-33239

WELL NAME: CASTLE DRAW 15-2-9-17
 OPERATOR: INLAND PRODUCTION COMPANY (N5160)
 CONTACT: Cheryl Cameron (435)789-1866

PROPOSED LOCATION:
 SWSE 02 - T09S - R17E
 SURFACE: 0661-FSL-1980-FEL
 BOTTOM: 0661-FSL-1980-FEL
 UINTAH COUNTY
 EIGHT MILE FLAT NORTH FIELD (590)

INSPECT LOCATION BY: 11/15/98		
TECH REVIEW	Initials	Date
Engineering	RML	1-3-00
Geology		
Surface		

LEASE TYPE: STA
 LEASE NUMBER: ML-4555
 SURFACE OWNER: State

PROPOSED FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

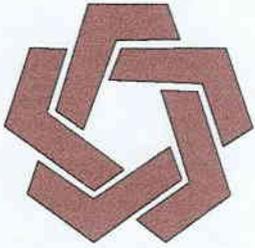
Plat
 Bond: Federal [] State [Fee []
 (No. #4471291)
 Potash (Y/N)
 Oil Shale (Y/N) *190-5(B)
 Water Permit
 (No. Johnson Water District)
 RDCC Review (Y/N)
 (Date: _____)
 Fee Surf Agreement (Y/N)

LOCATION AND SITING:

___ R649-2-3. Unit Castle Draw Sec. Rec.
 R649-3-2. General
 ___ R649-3-3. Exception
 ___ Drilling Unit
 Board Cause No: _____
 Date: _____

COMMENTS: * Castle Draw Secondary Recovery Unit.
* Need Presite. (Conducted 12-2-99)

STIPULATIONS: _____



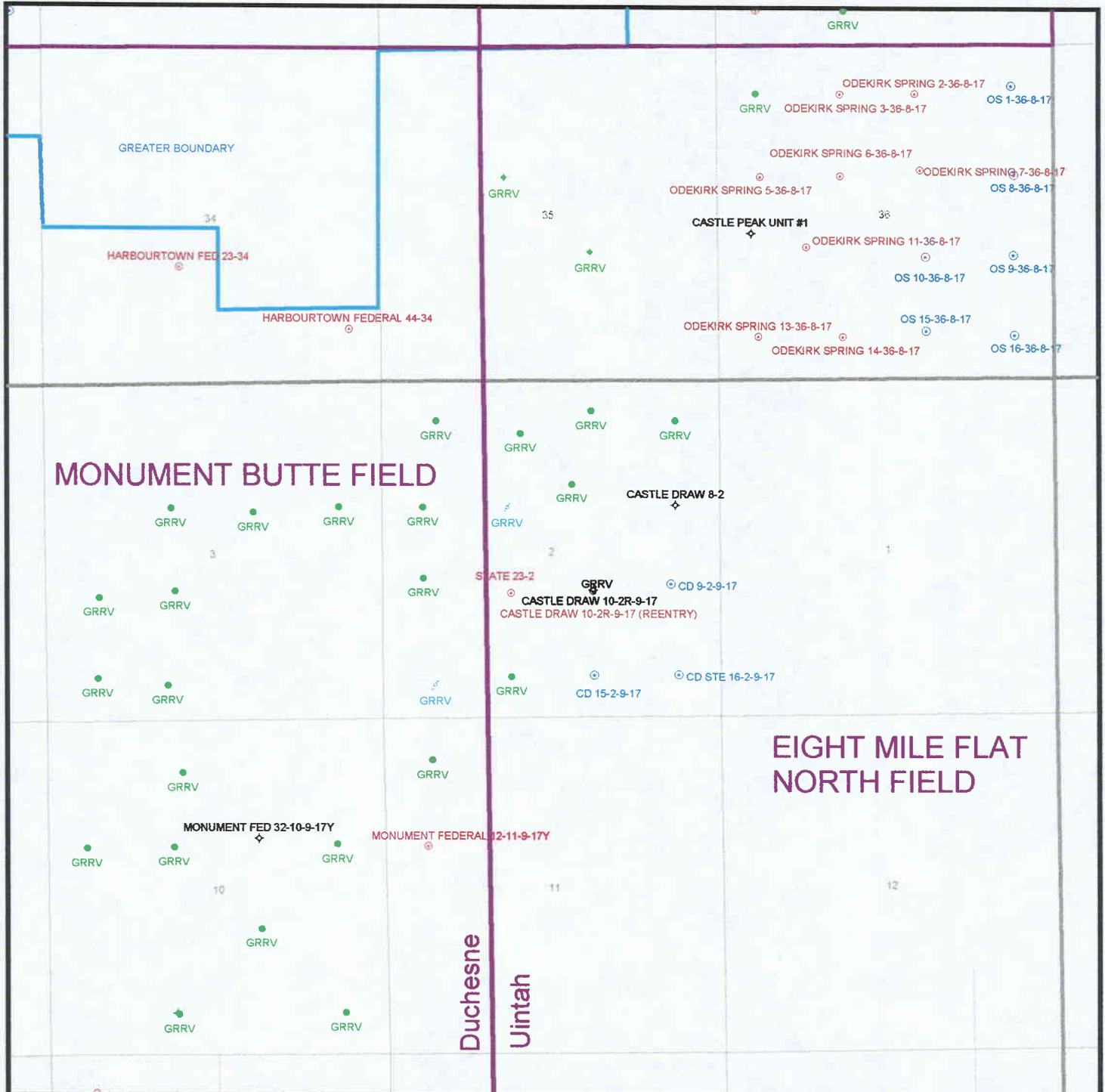
DIVISION OF OIL, GAS & MINING

OPERATOR: INLAND PRODUCTION COMPANY (N5160)

FIELD: EIGHT MILE FLAT NORTH (590)

SEC. 2, TWP 9S, RNG 17E

COUNTY: UINTAH UNIT: NONE



DATE PREPARED:
2-NOV-1998

Operator: Inland Production Company
Well Name & Number: Castle Draw 15-2-9-17
API Number: 43-047-33239
Lease: State **Surface Owner:** State
Location: SW SE **Sec.** 2 **T.** 9 S. **R.** 17 E.

Conditions of Approval

1. General

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

2. Notification Requirements

Notify the Division of the following actions during drilling of this well:

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

Division contacts (please leave a voice mail message if person is not available to take the call):

- . Dan Jarvis at (801) 538-5338
- . Robert Krueger at (801) 538-5274 (plugging)
- . Carol Daniels at (801) 538-5284 (spud)

3. Reporting Requirements

All required reports, forms and submittals shall 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.

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

Operator Name: INLAND PRODUCTION CO.

Name & Number: CASTLE DRAW 15-2-9-17

API Number: 43-047-33239

Location: 1/4,1/4 SW/SE Sec. 2 T. 9S R. 17E

Geology/Ground Water:

The Division of Water Rights has no records of any water wells within 10000 feet of the proposed location. There are 12 surface points of diversion in the searched area. The depth of the moderately saline ground water is at approximately 500'. The Uinta Formation is found at the surface and in the near surface at this location. The Uinta Fm. Is made up of discontinuous sandstones interbedded with shales. The Uinta is not expected to be a significant aquifer in this area. The proposed surface casing program should adequately protect any potential aquifers.

Reviewer: Brad Hill

Date: 12/21/99

Surface:

The pre-site investigation of the surface was performed by field personnel on 12/2/99 . SITLA and DWR were notified of this investigation on 11/30/99. Neither agency chose to attend. This site has very little top soil. This site is a legal location per general state siting rule.

Reviewer: DAVID W. HACKFORD

Date: 12/16/99

Conditions of Approval/Application for Permit to Drill:

None

ON-SITE PREDRILL EVALUATION

Division of Oil, Gas and Mining

OPERATOR: INLAND PRODUCTION CO.
WELL NAME & NUMBER: CASTLE DRAW 15-2-9-17
API NUMBER: 43-047-33239
LEASE: ML 45555 FIELD/UNIT: MONUMENT BUTTE
LOCATION: 1/4, 1/4 SW/SE Sec: 2 TWP: 9S RNG: 17E 660' FSL 1980' FEL
LEGAL WELL SITING: 660' F SEC. LINE; 660' F 1/4, 1/4 LINE; _____ F ANOTHER WELL.
GPS COORD (UTM) 12587758E 4434275N
SURFACE OWNER: STATE TRUST LANDS

PARTICIPANTS

BRAD MECHAM, JOHN HOLST, (INLAND); DAVID W. HACKFORD, DENNIS INGRAM,
(D.O.G.M.)

REGIONAL/LOCAL SETTING & TOPOGRAPHY

SITE IS LOCATED ON AN EXTENDED FLAT WITH SHALLOW DRAWS TO THE SOUTH
AND NORTH. BOTH DRAWS DRAIN TO THE EAST.

SURFACE USE PLAN

CURRENT SURFACE USE: LIVESTOCK AND WILDLIFE GRAZING.

PROPOSED SURFACE DISTURBANCE: LOCATION WILL BE 290' X 210'.
ACCESS ROAD WILL BE 0.2 MILES.

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

LOCATION OF PRODUCTION FACILITIES AND PIPELINES:
ALL PRODUCTION FACILITIES WILL BE ON LOCATION AND ADDED AFTER
DRILLING WELL.

SOURCE OF CONSTRUCTION MATERIAL: ALL CONSTRUCTION MATERIAL WILL BE
BORROWED FROM THIS SITE DURING CONSTRUCTION AND IS NATIVE.

ANCILLARY FACILITIES: NONE WILL BE REQUIRED.

WASTE MANAGEMENT PLAN:

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

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: NONE

FLORA/FAUNA: NATIVE GRASSES, SHADSCALE, SAGE, SALTBUSH, GREASEWOOD,
PRICKLY PEAR; PRONGHORN, RODENTS, COYOTES, SONGBIRDS, RAPTORS.

SOIL TYPE AND CHARACTERISTICS: LIGHT BROWN SANDY CLAY WITH PEA SIZE
MULTI-COLORED GRAVEL.

SURFACE FORMATION & CHARACTERISTICS: UINTAH FORMATION, SOUTH FLANK OF THE UINTAH MOUNTAINS.

EROSION/SEDIMENTATION/STABILITY: MINOR EROSION, MINOR SEDIMENTATION, NO STABILITY PROBLEMS ANTICIPATED.

PALEONTOLOGICAL POTENTIAL: NONE OBSERVED.

RESERVE PIT

CHARACTERISTICS: 110' BY 40' AND 8' DEEP.

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

SURFACE RESTORATION/RECLAMATION PLAN

AS PER STATE LANDS.

SURFACE AGREEMENT: STATE TRUST LANDS.

CULTURAL RESOURCES/ARCHAEOLOGY: A REPORT OF THE ARCHAEOLOGY INVESTIGATION PERFORMED BY A.E.R.C. OF BOUNTIFUL, UTAH WILL BE SUBMITTED.

OTHER OBSERVATIONS/COMMENTS

INVESTIGATION WAS DONE ON A COLD DAY WITH NO SNOW COVER.

ATTACHMENTS:

PHOTOS OF PROPOSED SITE WILL BE PLACED ON FILE.

DAVID W. HACKFORD
DOGM REPRESENTATIVE

12/2/99 11:30 AM
DATE/TIME

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

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

Final Score (Level II Sensitivity)











*** 9 ***
 A**

UTAH DIVISION OF WATER RI
 NWPLAT POINT OF DIVERSION LOCA

MAP CHAR	WATER RIGHT	CFS	QUANTITY AND/OR	AC-FT	SOURCE DESCRIPTION or WELL INFO	DIAMETER	DEPTH	YEAR LOG	N	
0	<u>47 1180</u>	.0000		.00	North Branch Castle Peak Draw					
			WATER USE(S): STOCKWATERING State of Utah School & Institutional Tru 675 East 500 South, 5t							
1	<u>47 1180</u>	.0000		.00	North Branch Castle Peak Draw					
			WATER USE(S): STOCKWATERING State of Utah School & Institutional Tru 675 East 500 South, 5t							
2	<u>47 1300</u>	.0000		.00	North Branch Castle Peak Draw					
			WATER USE(S): STOCKWATERING USA Bureau of Land Management 2370 South 2300 West							
3	<u>47 1300</u>	.0000		.00	North Branch Castle Peak Draw					
			WATER USE(S): STOCKWATERING USA Bureau of Land Management 2370 South 2300 West							
4	<u>47 1301</u>	.0000		.00	North Branch Castle Peak Draw					
			WATER USE(S): STOCKWATERING USA Bureau of Land Management 2370 South 2300 West							
5	<u>47 1680</u>	.0000		.12	Unnamed tributary				S	
			WATER USE(S): STOCKWATERING USA Bureau of Land Management (Vernal Di 170 South 500 East							
6	<u>47 1681</u>	.0000		.12	Unnamed tributary				S	
			WATER USE(S): STOCKWATERING USA Bureau of Land Management (Vernal Di 170 South 500 East							
7	<u>47 1578</u>	.0000		.00	unnamed stream					
			WATER USE(S): STOCKWATERING USA Bureau of Land Management 170 South 500 East							
8	<u>47 1580</u>	.0000		.00	unnamed stream					
			WATER USE(S): STOCKWATERING USA Bureau of Land Management 170 South 500 East							
8	<u>47 1577</u>	.0000		.00	unnamed stream					

WATER USE(S): STOCKWATERING
USA Bureau of Land Management 170 South 500 East

9 47 1677 .0000 .18 Unnamed tributary N

WATER USE(S): STOCKWATERING
USA Bureau of Land Management (Vernal Di 170 South 500 East

A 47 1685 .0000 .12 Unnamed tributary N

WATER USE(S): STOCKWATERING
USA Bureau of Land Management (Vernal Di 170 South 500 East



RECEIVED

DEC 20 1999

DIVISION OF OIL, GAS & MINING

December 16, 1999

Ms. Lisha Cordova
Utah Division of Oil Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114-5801

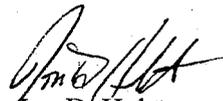
43-047-33239

RE: Archeological Reports for Inland Resources Proposed Well Locations: South Wells Draw 11-2-9-16, South Wells Draw 12-2-9-16, South Wells Draw 13-2-9-16, South Wells Draw 14-2-9-16, Castle Draw 9-2-2-17, Castle Draw 15-2-9-17, Castle Draw 16-2-9-17.

Dear Lisha:

Please find enclosed the Archeological Reports for the above-referenced proposed well locations. Feel free to give me a call if you have any questions or need additional information.

Respectfully,


Jon D. Holst
Counsel

Enc.

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

Report Prepared for Inland Resources, Inc.

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

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

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

AERC Project 1597 (CNG98-3B)

Author of the Report:

F. Richard Hauck



ARCHEOLOGICAL-ENVIRONMENTAL RESEARCH CORPORATION

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

P.O. Box 853, Bountiful, Utah 84011

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

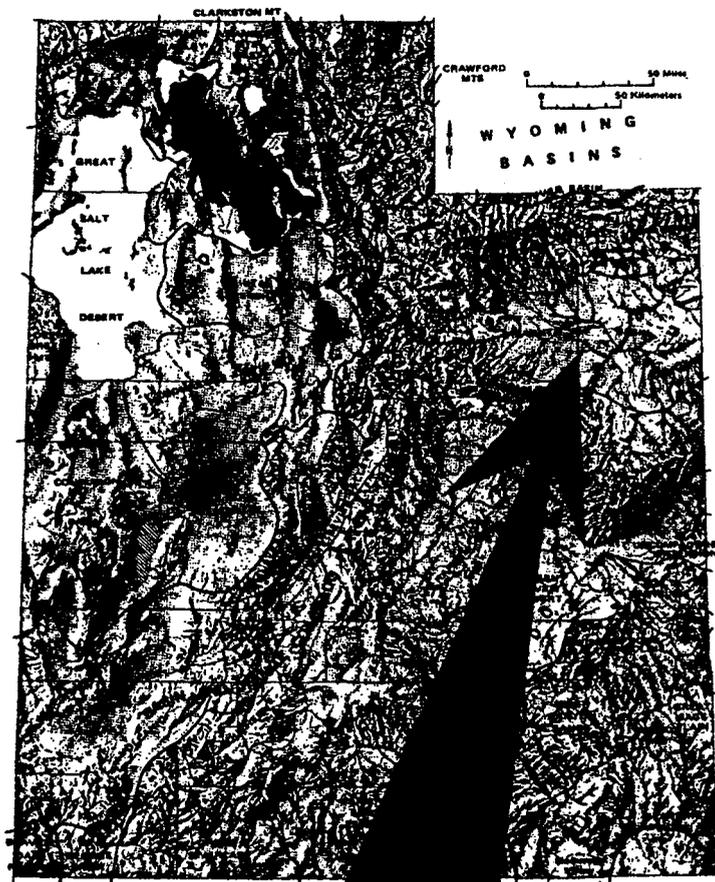
The project area is located in the South Wells Draw Unit, Pariette Bench and Castle Peak Draw localities of Duchesne and Uintah Counties, Utah. The various project areas are situated on the Myton SE and Pariette Draw SW 7.5 minute quads as shown on Maps 2 through 5. The inventoried areas and surveyed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



UTAH GEOLOGICAL
 MAP
 PHYSIOGRAPHIC

PROJECT AREA

TOWNSHIP: multiple
RANGE: multiple
MERIDIAN: multiple

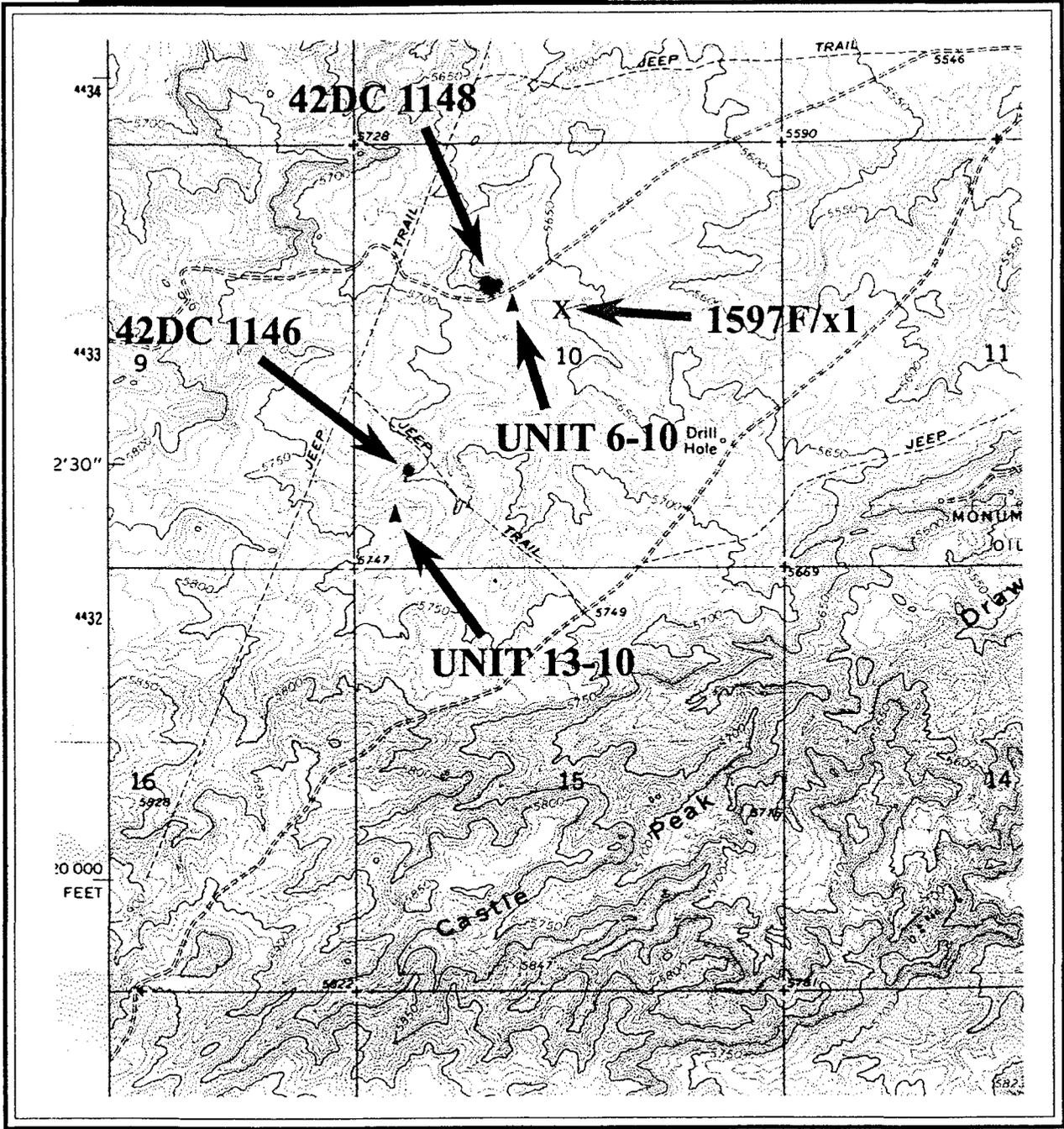
Utah Geological and Mineral Survey
 Map 43 1977
 Physiographic Subdivisions of Utah
 by W.L. Stokes



MAP 2
CULTURAL RESOURCE SURVEY
OF INLAND 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.

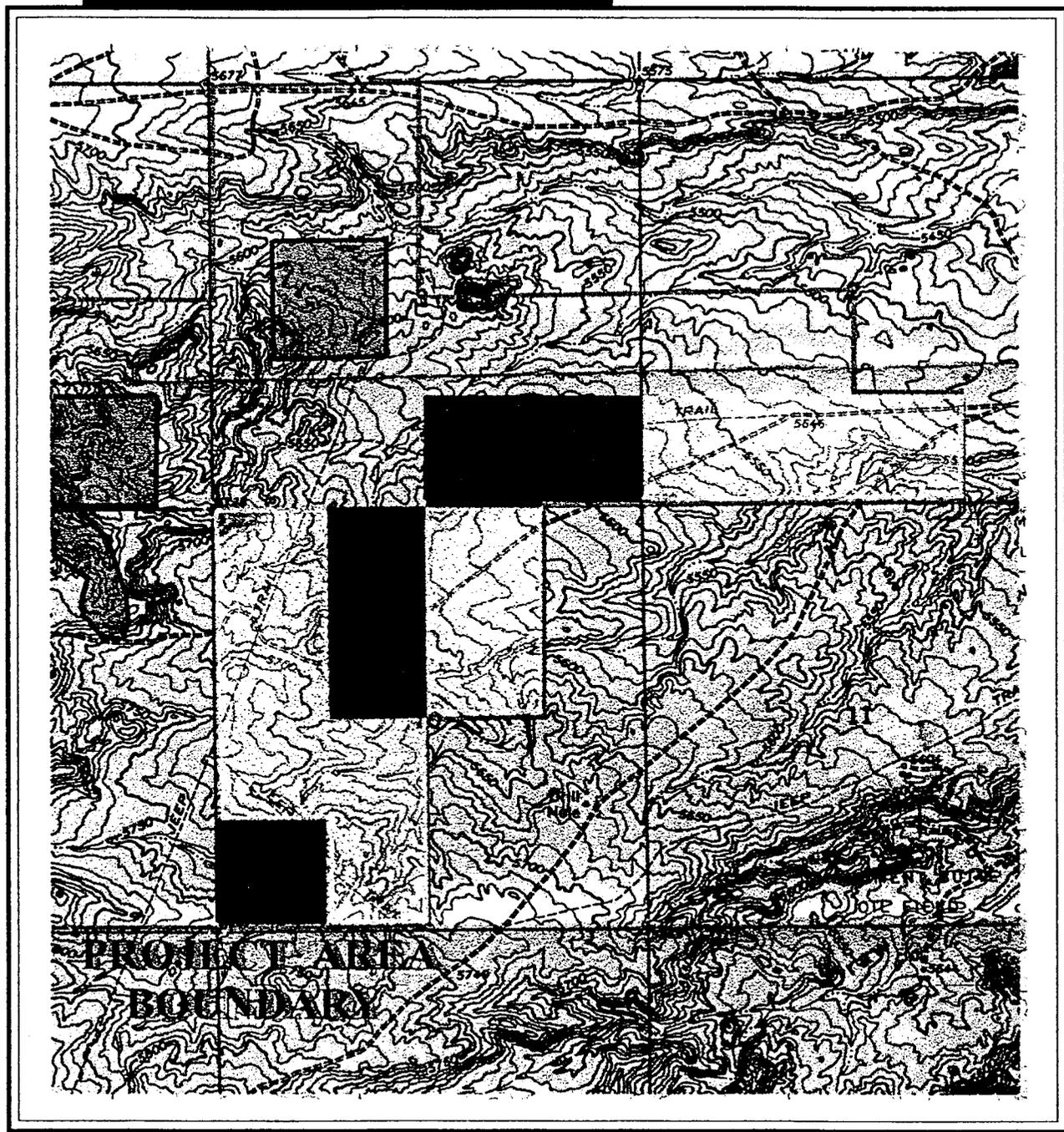
LEGEND

- WELL LOCATION
- CULTURAL SITE
- ISOLATED ARTIFACT

**MAP 3
CULTURAL RESOURCE SURVEY
OF INLAND UNITS 5-10 & 13-16
IN THE SOUTH WELLS DRAW UNIT
OF DUCHESNE CO., UTAH**



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



**PROJECT AREA
BOUNDARY**

LEGEND



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

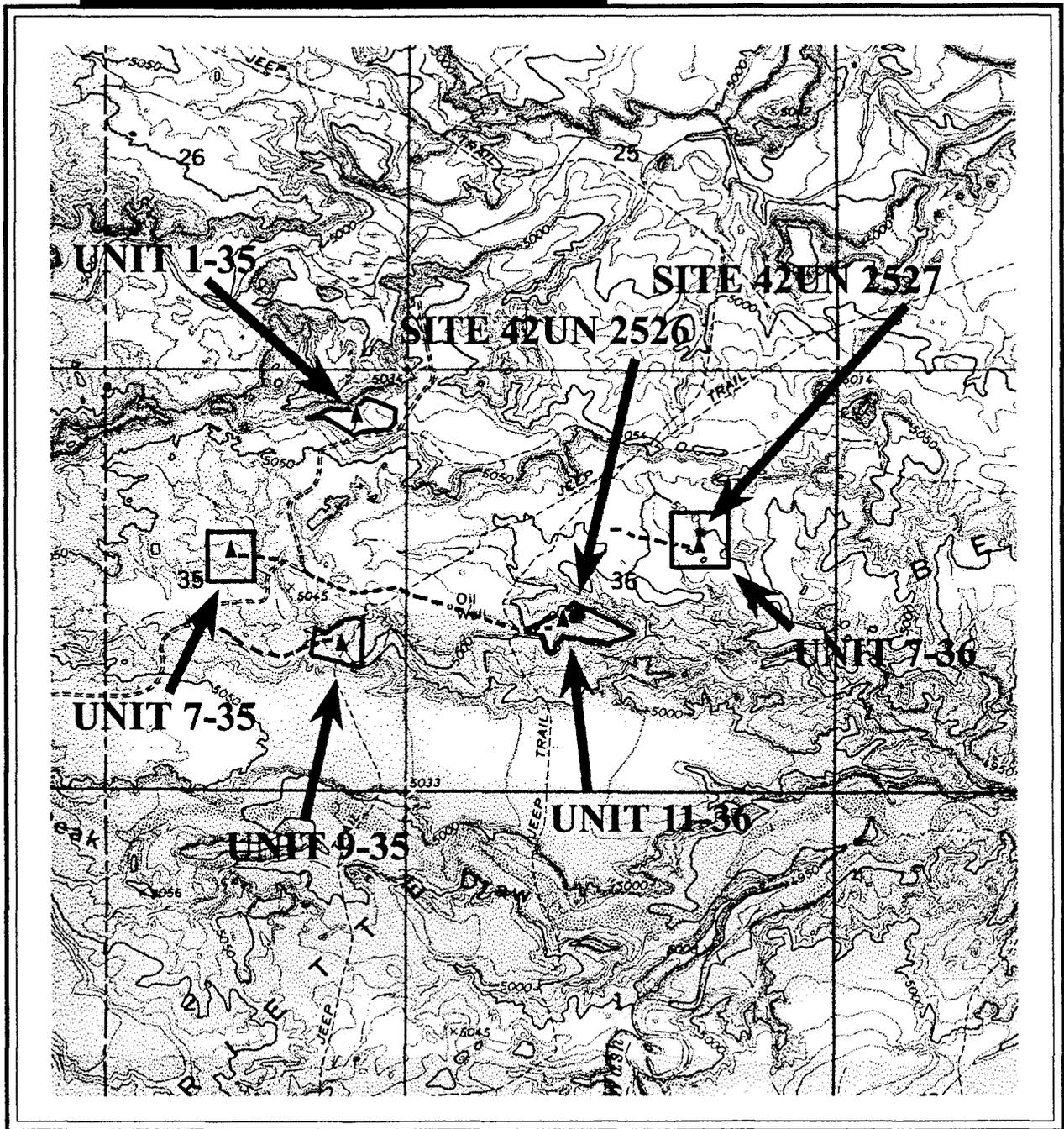
- △ WELL LOCATION
- CULTURAL SITE
- X ISOLATED ARTIFACT



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

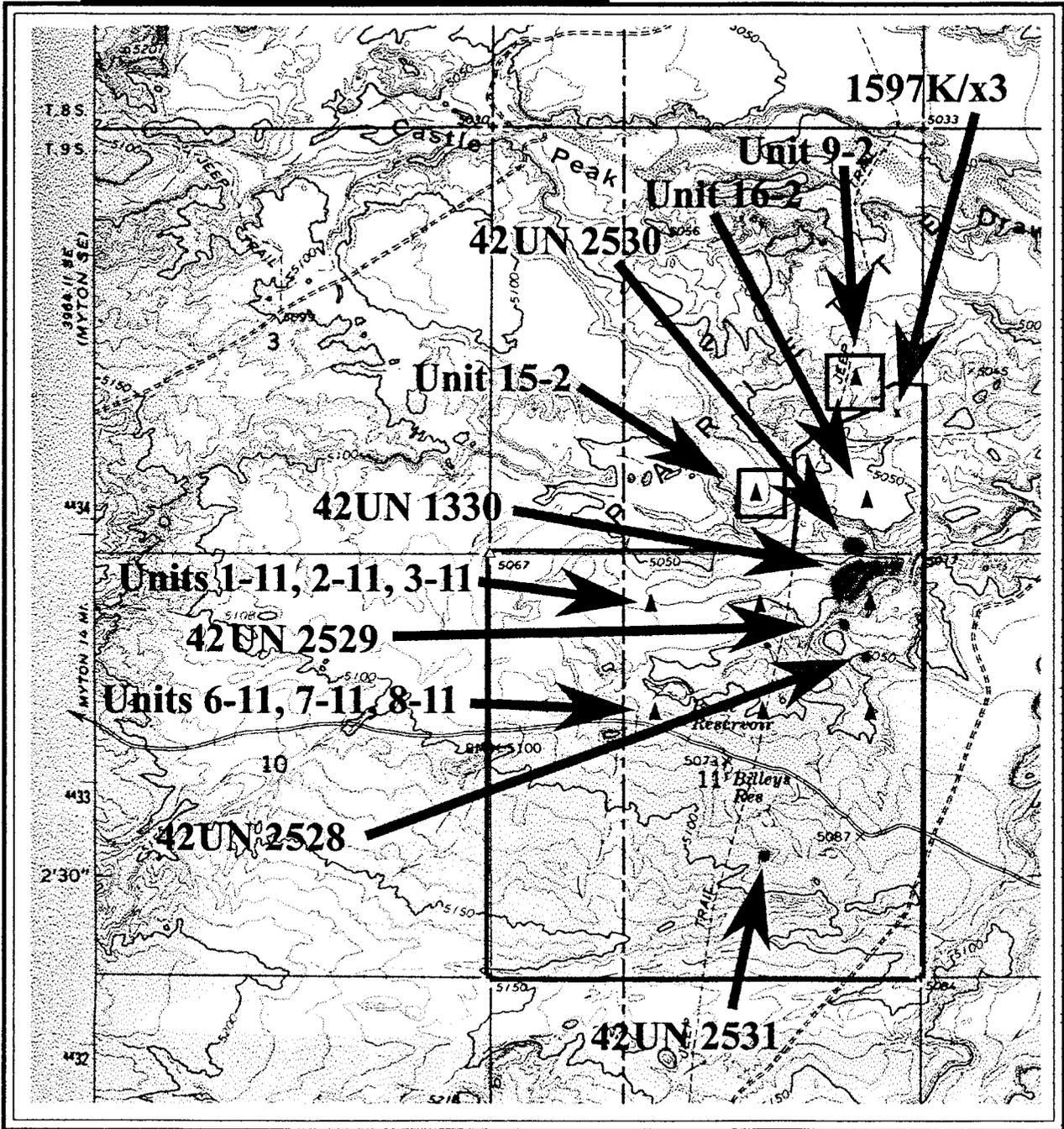
 ACCESS ROUTE

 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
 -  CULTURAL SITE
 -  BULK SURVEY AREA
 -  ISOLATED ARTIFACT

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

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

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

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

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

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

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

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

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

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

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

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

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

Environmental Description

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

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

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

PREVIOUS RESEARCH IN THE LOCALITY

File Search

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

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

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

Prehistory of the Cultural Region

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

Site Potential in the Project Development Zone

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

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

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

FIELD EVALUATIONS

Methodology

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

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

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

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

Site Significance Criteria

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

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

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

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

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

Results of the Inventory

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

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

National Register Status: not significant — site lacks depth potential

Potential for Project-related Disturbance: none

Recommendations: none

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

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

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

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

Recommendations: none

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

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

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

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

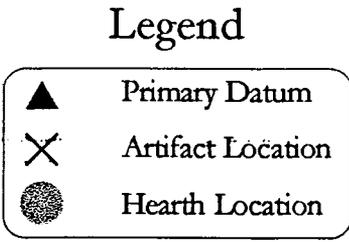
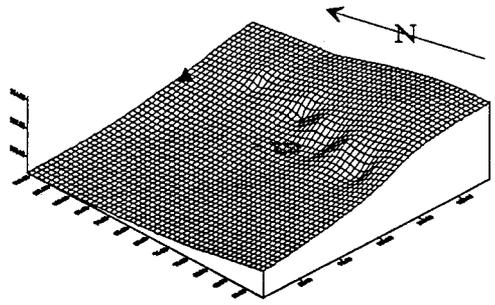
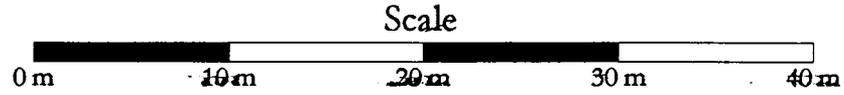
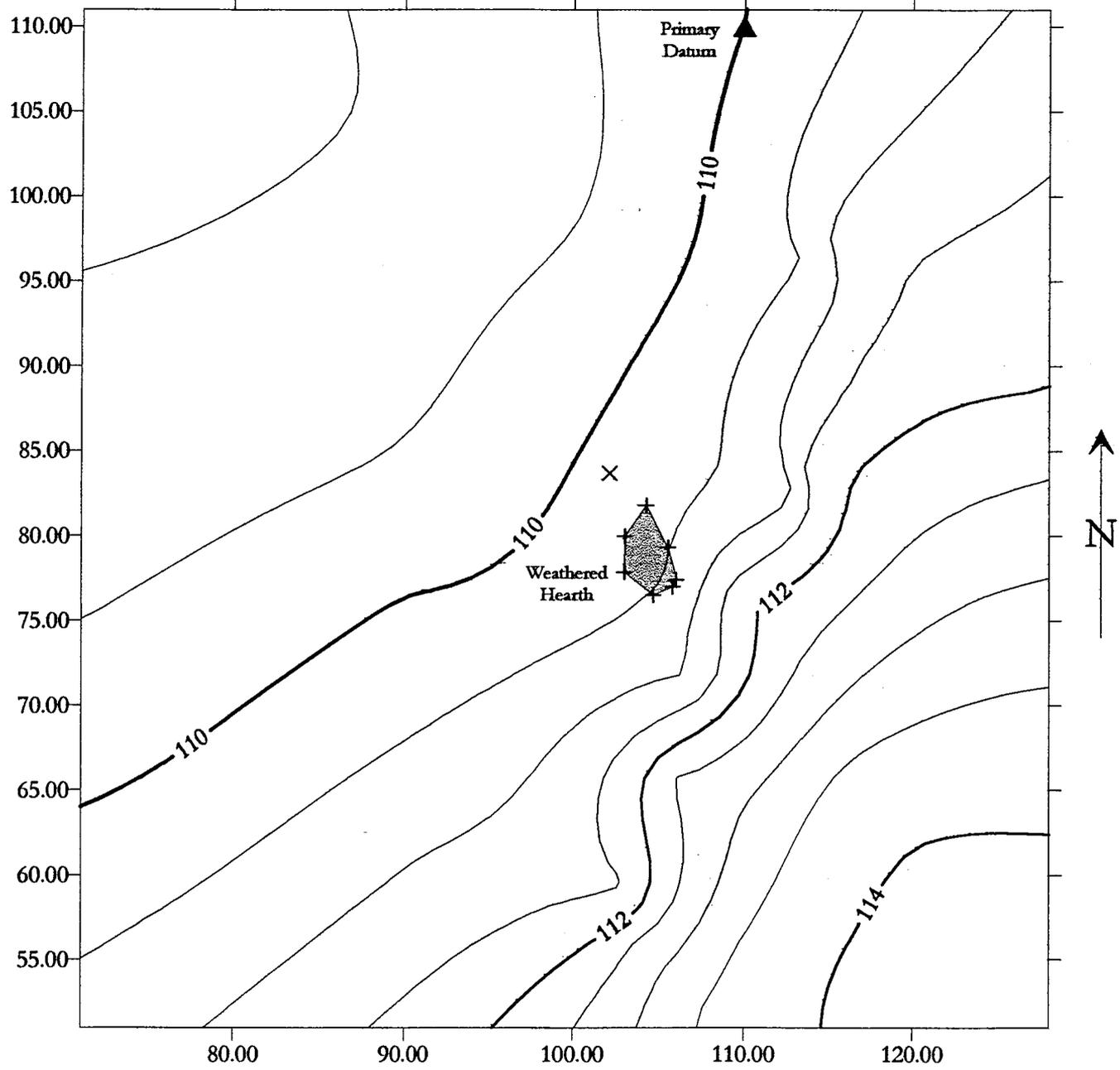
Site 42UN 2527 (see Maps 4 & 9) This site consists of a sparse scatter of highly patinated, expediency tools generally associated with the initial dismemberment of large game after a kill. Tools were probably prepared, used and discarded in the site area. The several opposing-flake biface choppers observed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

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

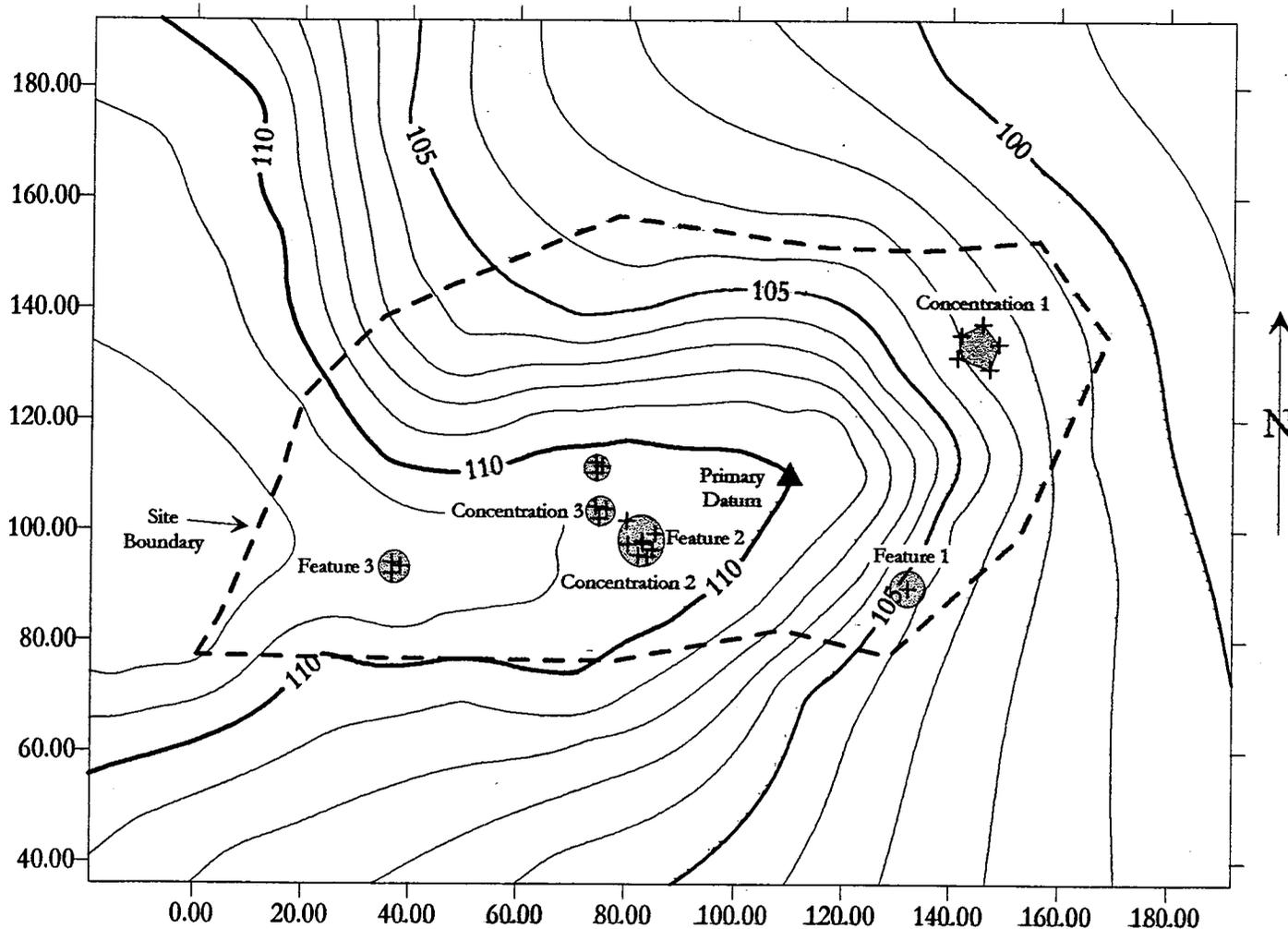
Potential for Project-related Disturbance: none — site is just north and outside the northern perimeter for Unit 7-36.

Recommendations: none

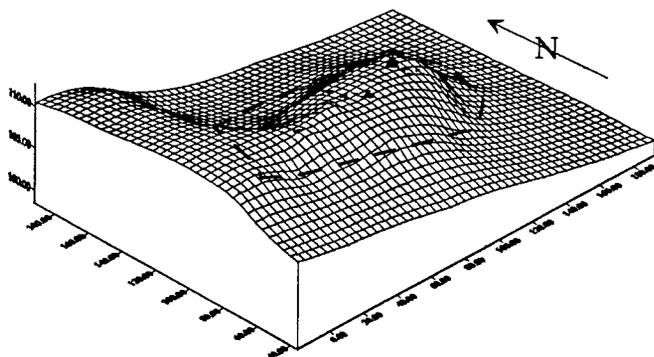
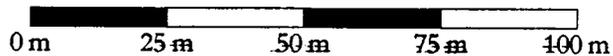
MAP 6: Artifact Distribution at 42DC1146



MAP 7: Artifact Distribution at 42DC1148



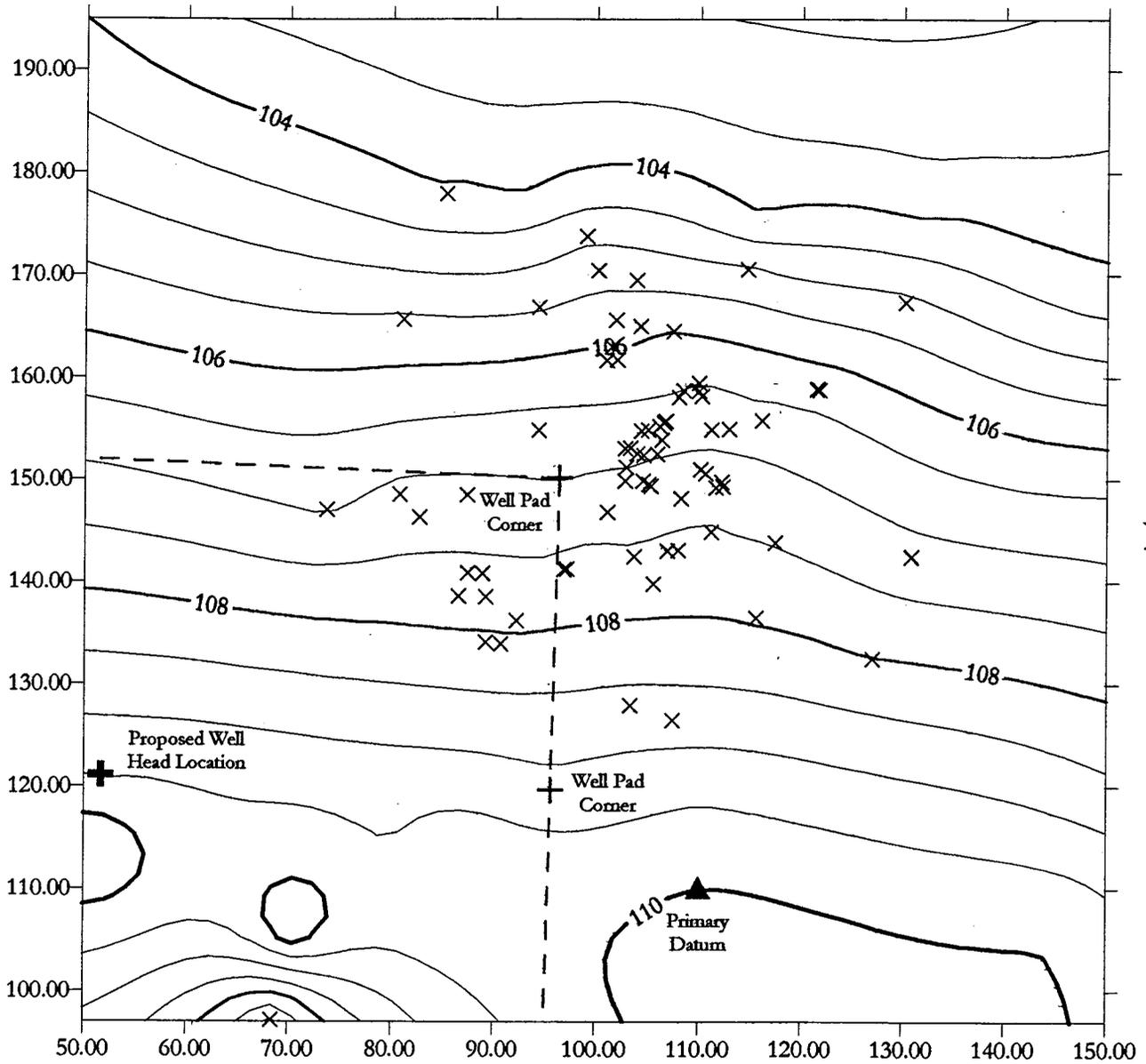
Scale



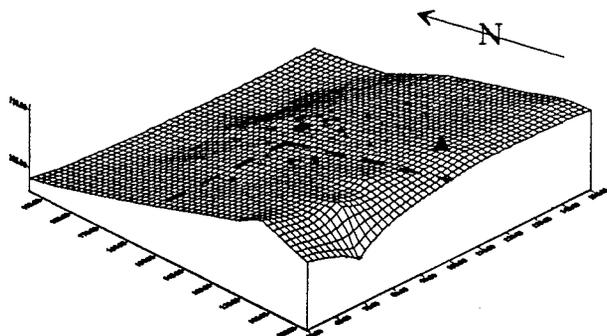
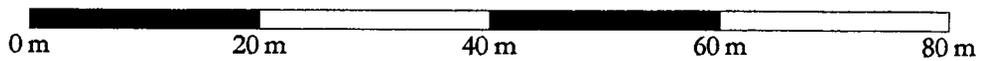
Legend

-  Primary Datum
-  Artifact Concentration
-  Site Boundary

MAP 8: Artifact Distribution at 42UN2526



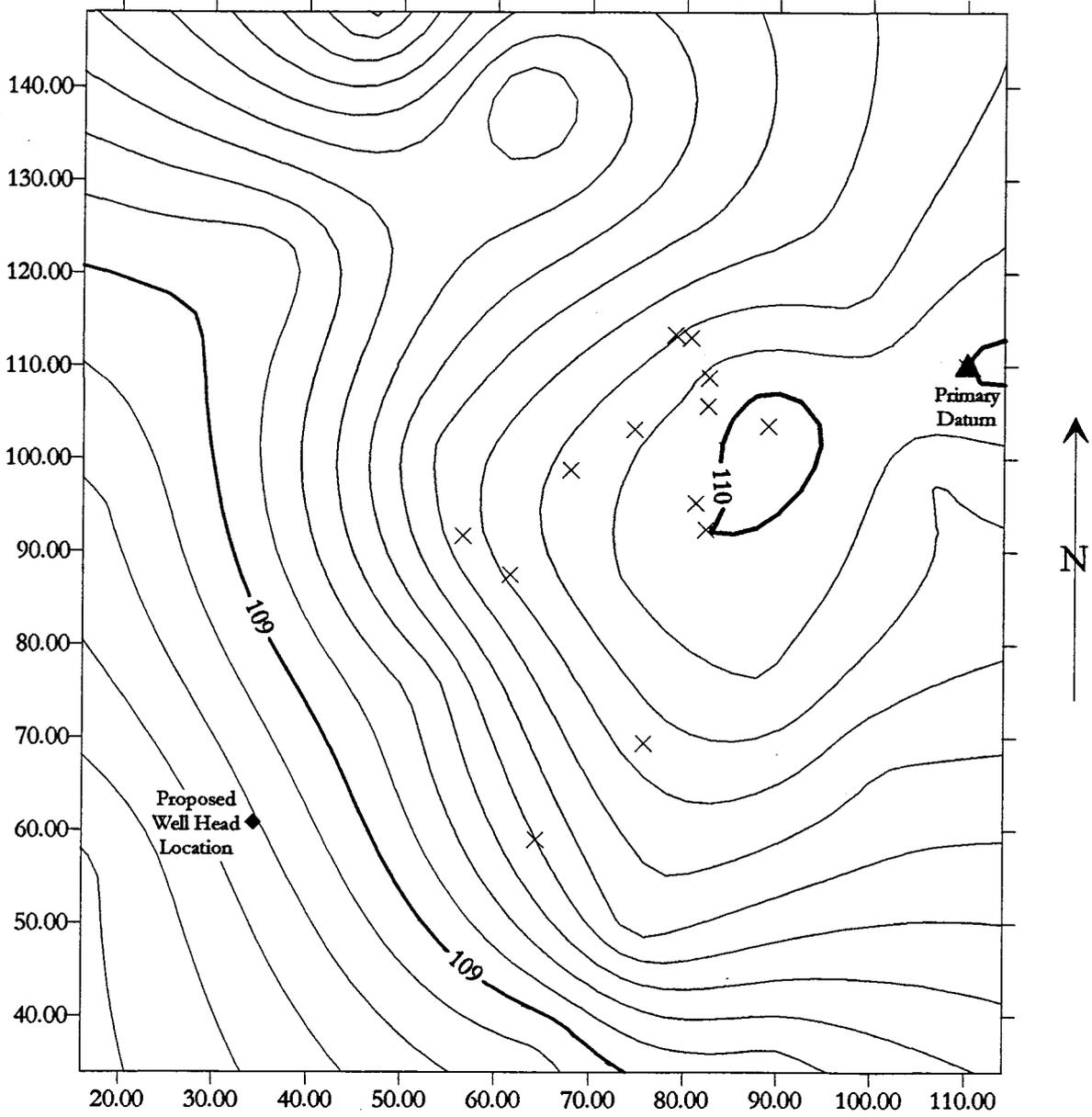
Scale



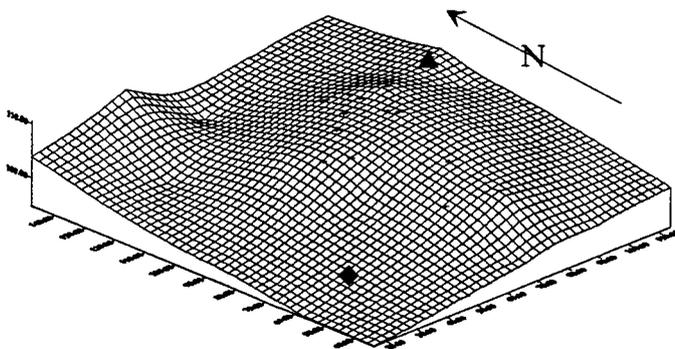
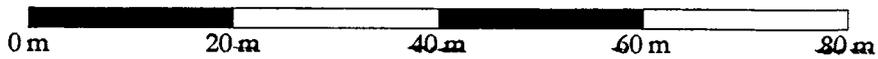
Legend

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

MAP 9: Artifact Distribution at 42UN2527



Scale



Legend

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

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

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

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

Recommendations: none

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

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

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

Recommendations: none

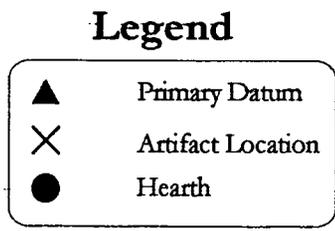
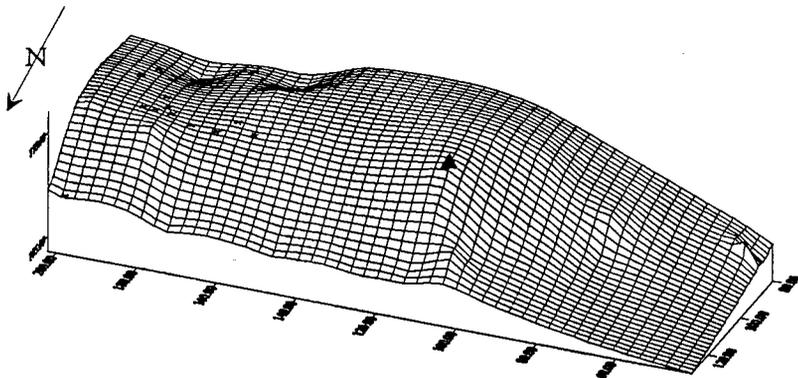
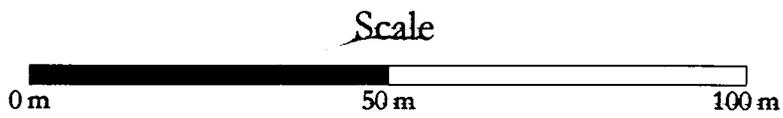
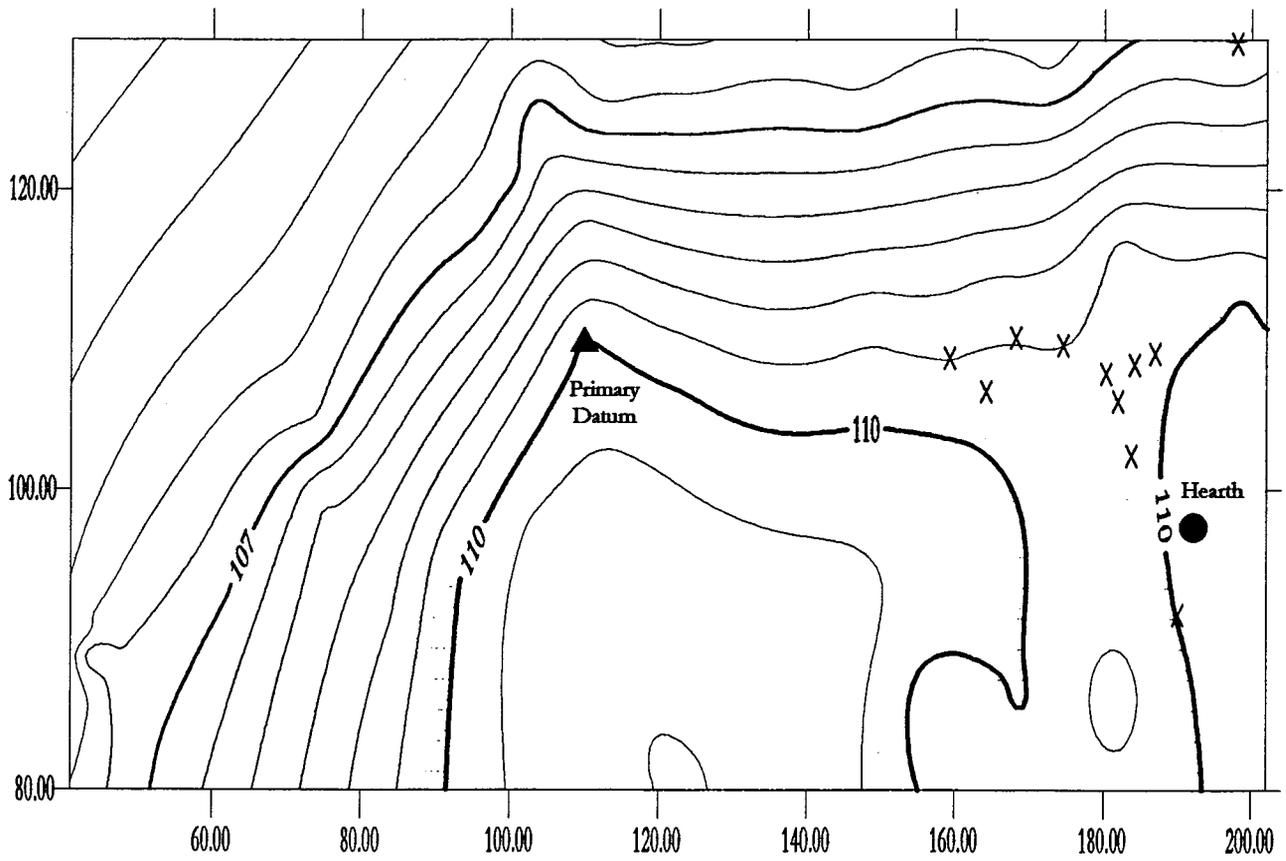
Site 42UN 2530 (see Map 5 & 12) This site consists of an open occupation located on the north slope and bench of a ridge on the south side of a tributary drainage of Big Wash. Site is ca. 50 x 100 meters in size and has depth potential. Site is adjacent to 42UN 1330 which is above and to the south in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

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

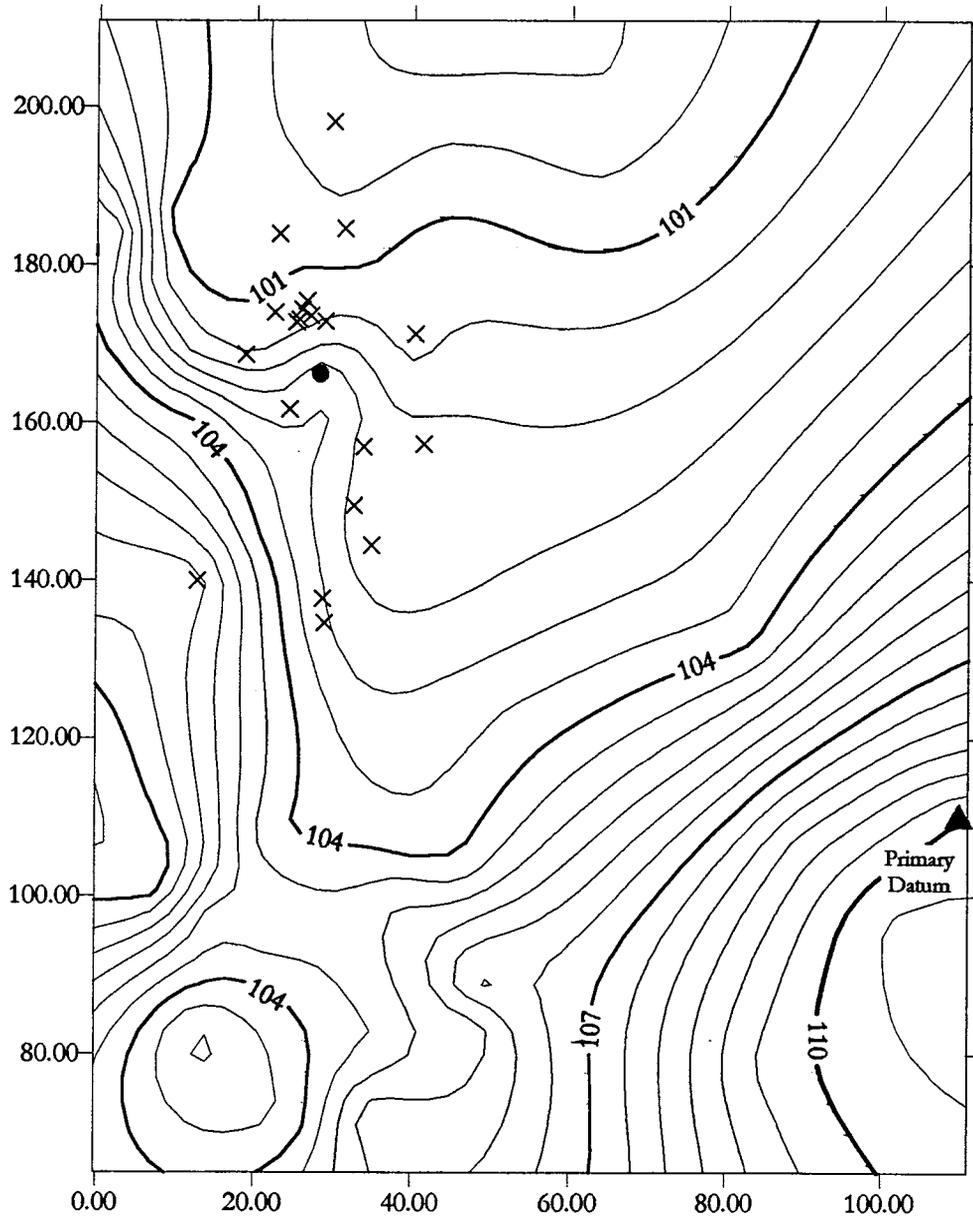
Potential for Project-related Disturbance: none — site is outside the perimeters of Units 1-11 and 16-2 and can easily be avoided during the construction of those well locations.

Recommendations: none

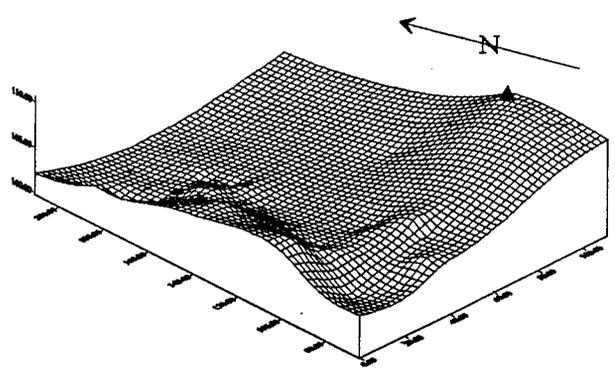
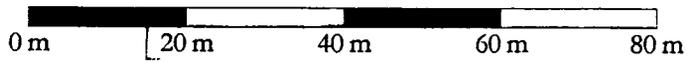
MAP 10: Artifact Distribution at 42UN2528



MAP 11: Artifact Distribution at 42UN2529



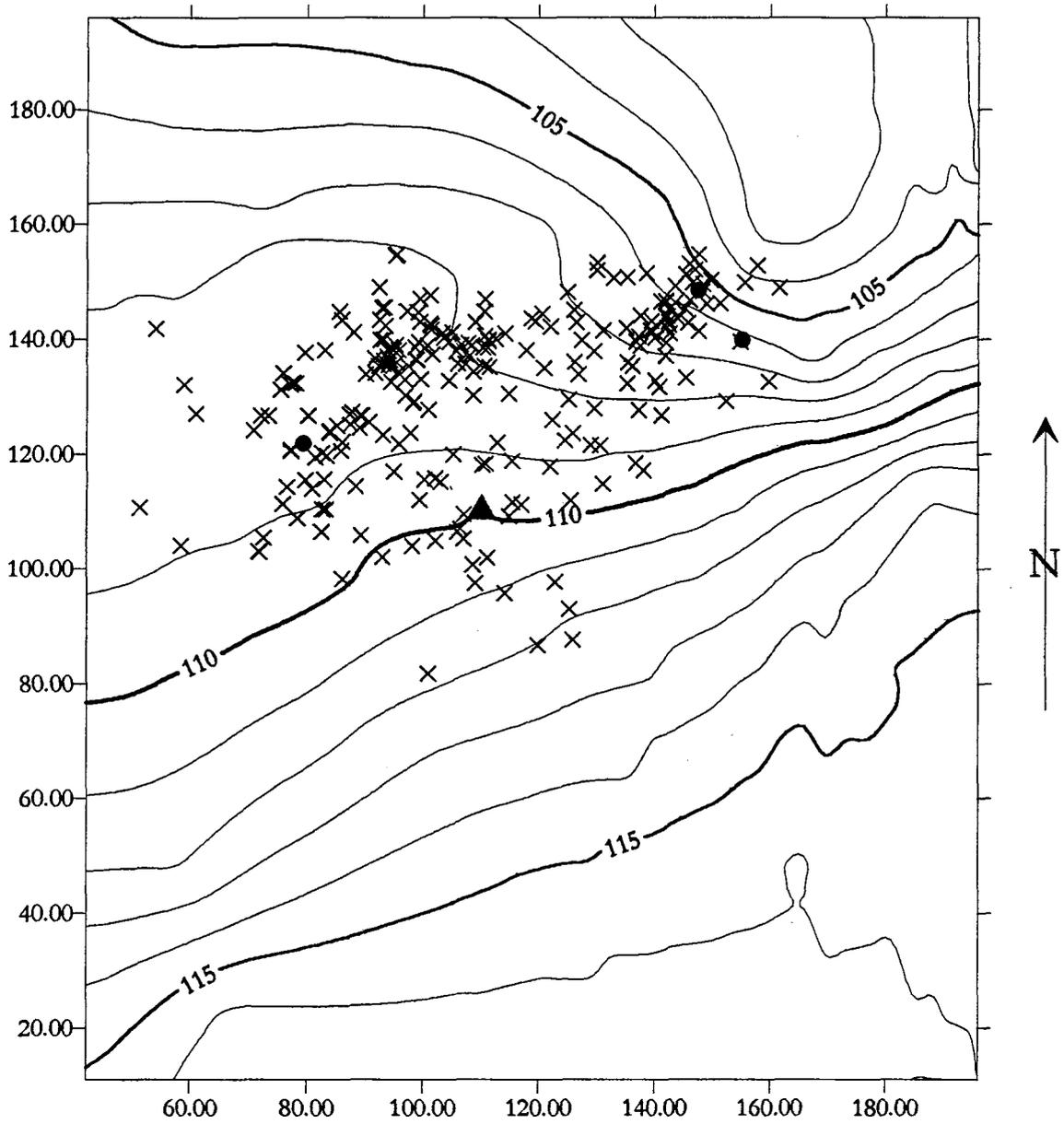
Scale



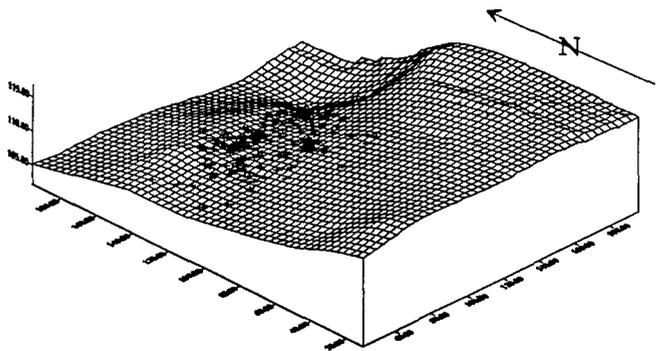
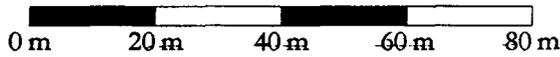
Legend

- ▲ 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.

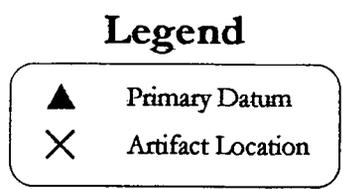
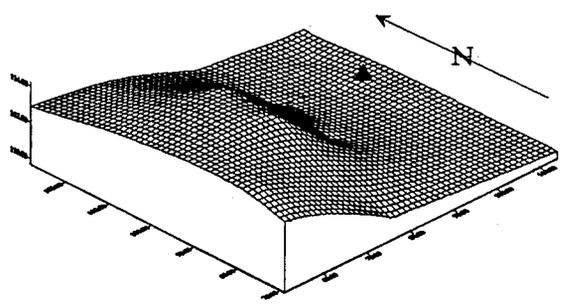
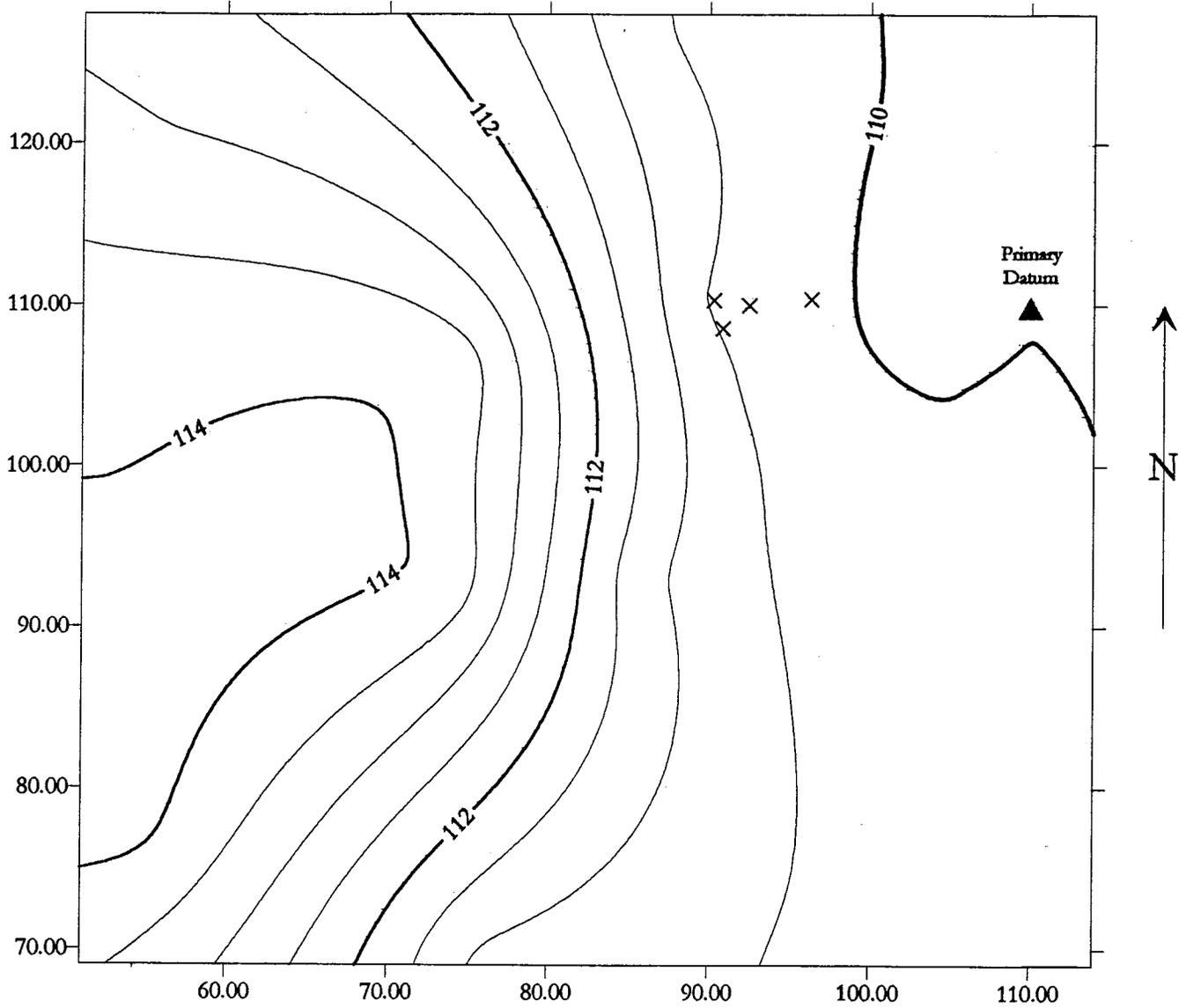
Potential for Project-related Disturbance: moderate due to proximity between site and well pad construction area for Unit 1-11.

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



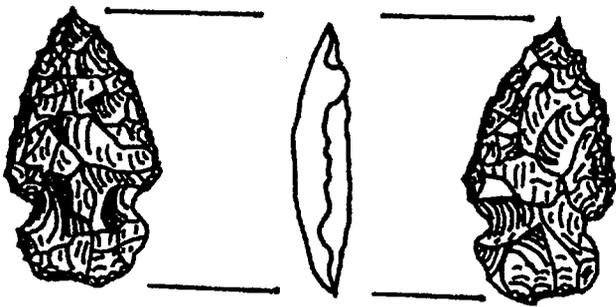


FIGURE 1:
Side-notch Projectile Point
recovered from 42DC1146

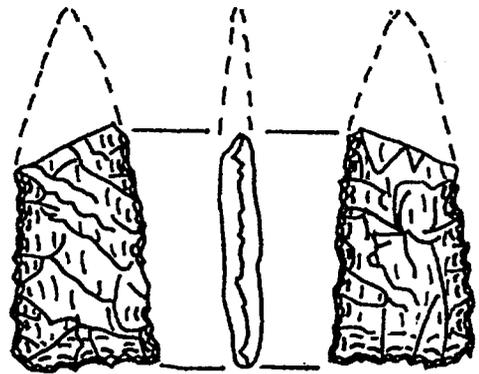


FIGURE 2:
Goshen (Plainview) Style Projectile
Point recovered from 42UN2530

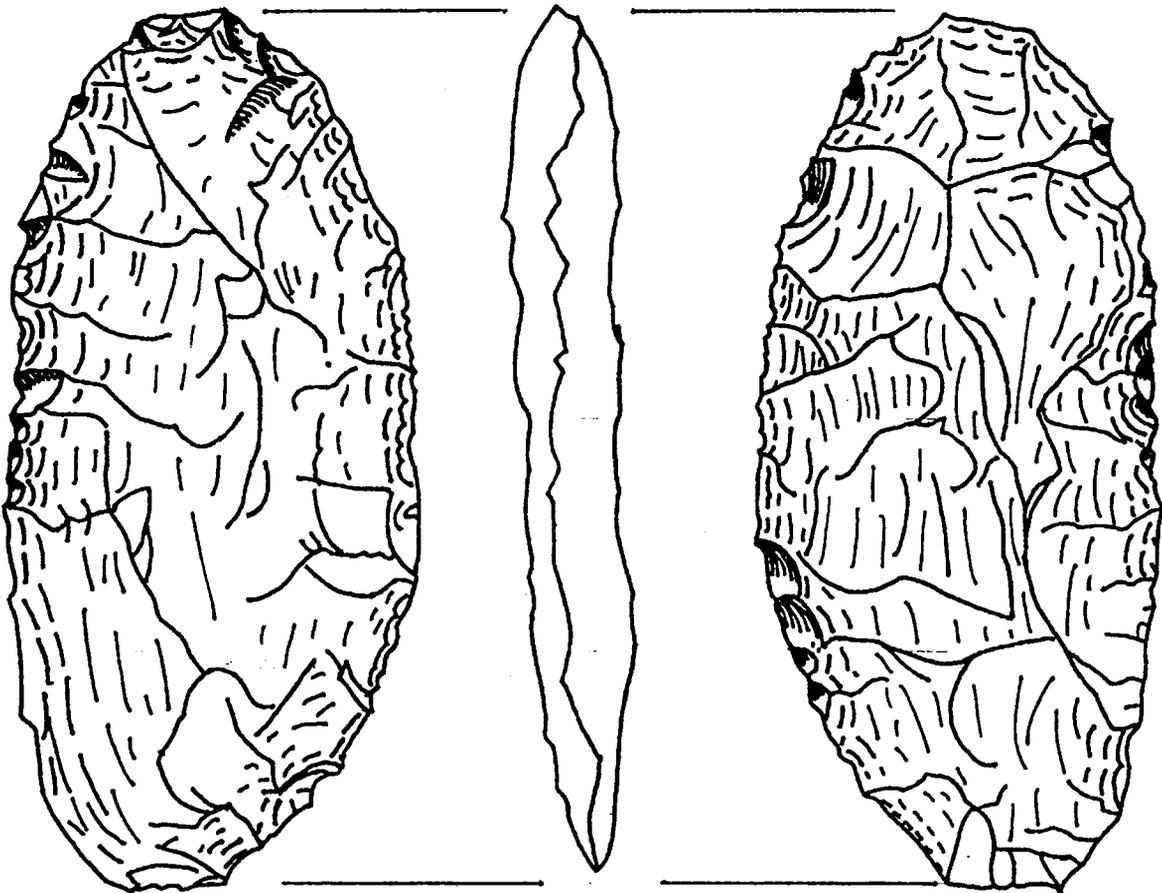


FIGURE 3:
Knife recovered from
42UN2530

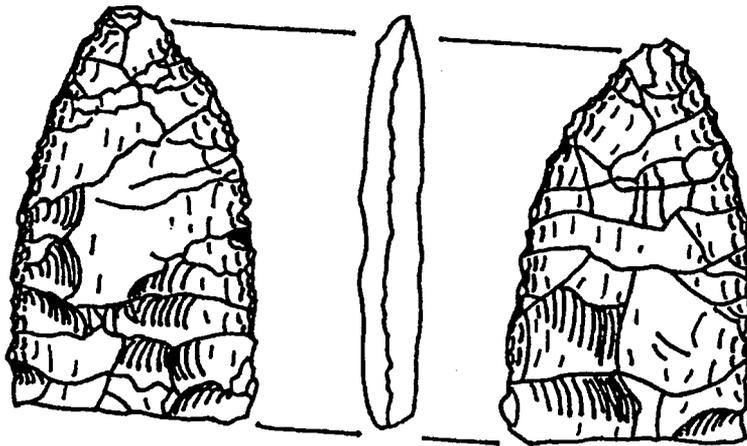


FIGURE 4:
Isolated find 1597F/x1

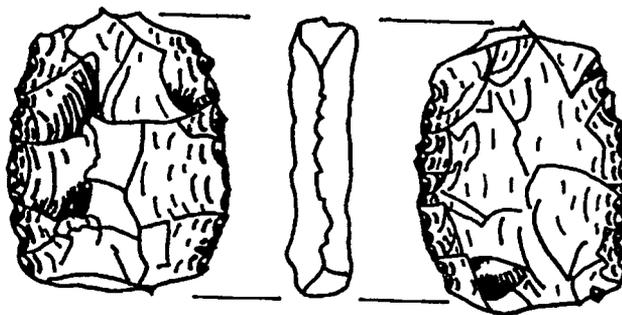


FIGURE 5:
Isolated find 1597K/x3

CONCLUSION AND RECOMMENDATIONS

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

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

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



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

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Hauck, F. Richard

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- 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.

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- 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.
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- 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.

Well name:	1-00 Inland CD 15-2-9-17	
Operator:	Inland	Project ID:
String type:	Surface	43-047-33239
Location:	Uintah Co.	

Design parameters:	Minimum design factors:	Environment:
Collapse	Collapse:	H2S considered? No
Mud weight: 8.400 ppg	Design factor 1.125	Surface temperature: 75 °F
Design is based on evacuated pipe.		Bottom hole temperature: 79 °F
		Temperature gradient: 1.40 °F/100ft
		Minimum section length: 300 ft
	Burst:	Cement top: 0 ft
	Design factor 1.00	
Burst		
Max anticipated surface pressure: -2,574 psi	Tension:	Non-directional string.
Internal gradient: 9.018 psi/ft	8 Round STC: 1.80 (J)	
Calculated BHP 131 psi	8 Round LTC: 1.80 (J)	
No backup mud specified.	Buttress: 1.60 (J)	
	Premium: 1.50 (J)	
	Body yield: 1.50 (B)	
	Tension is based on buoyed weight.	Re subsequent strings:
	Neutral point: 262 ft	Next setting depth: 300 ft
		Next mud weight: 8.400 ppg
		Next setting BHP: 131 psi
		Fracture mud wt: 19.250 ppg
		Fracture depth: 300 ft
		Injection pressure 300 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft ³)
1	300	8.625	24.00	J-55	ST&C	300	300	7.972	14.4

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	131	1370	10.47	131	2950	22.54	6	244	38.79 J

Prepared RJK
by: Utah Dept. of Natural Resources

Date: January 3,2000
Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
Collapse is based on a vertical depth of 300 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.
In addition, burst strength is biaxially adjusted for tension.

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

Well name:	1-00 Inland CD 15-2-9-17	
Operator:	Inland	Project ID:
String type:	Production	43-047-33239
Location:	Uintah Co.	

Design parameters:

Collapse

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

Burst

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

 No backup mud specified.

Minimum design factors:

Collapse:

Design factor: 1.125

Burst:

Design factor: 1.00

Tension:

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

Tension is based on buoyed weight.
 Neutral point: 5,680 ft

Environment:

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

Cement top: Surface

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	6500	5.5	15.50	J-55	LT&C	6500	6500	4.825	203.7
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	2813	4040	1.44	2813	4812	1.71	88	217	2.46 J

Prepared by: RJK
 Utah Dept. of Natural Resources

Date: January 3,2000
 Salt Lake City, Utah

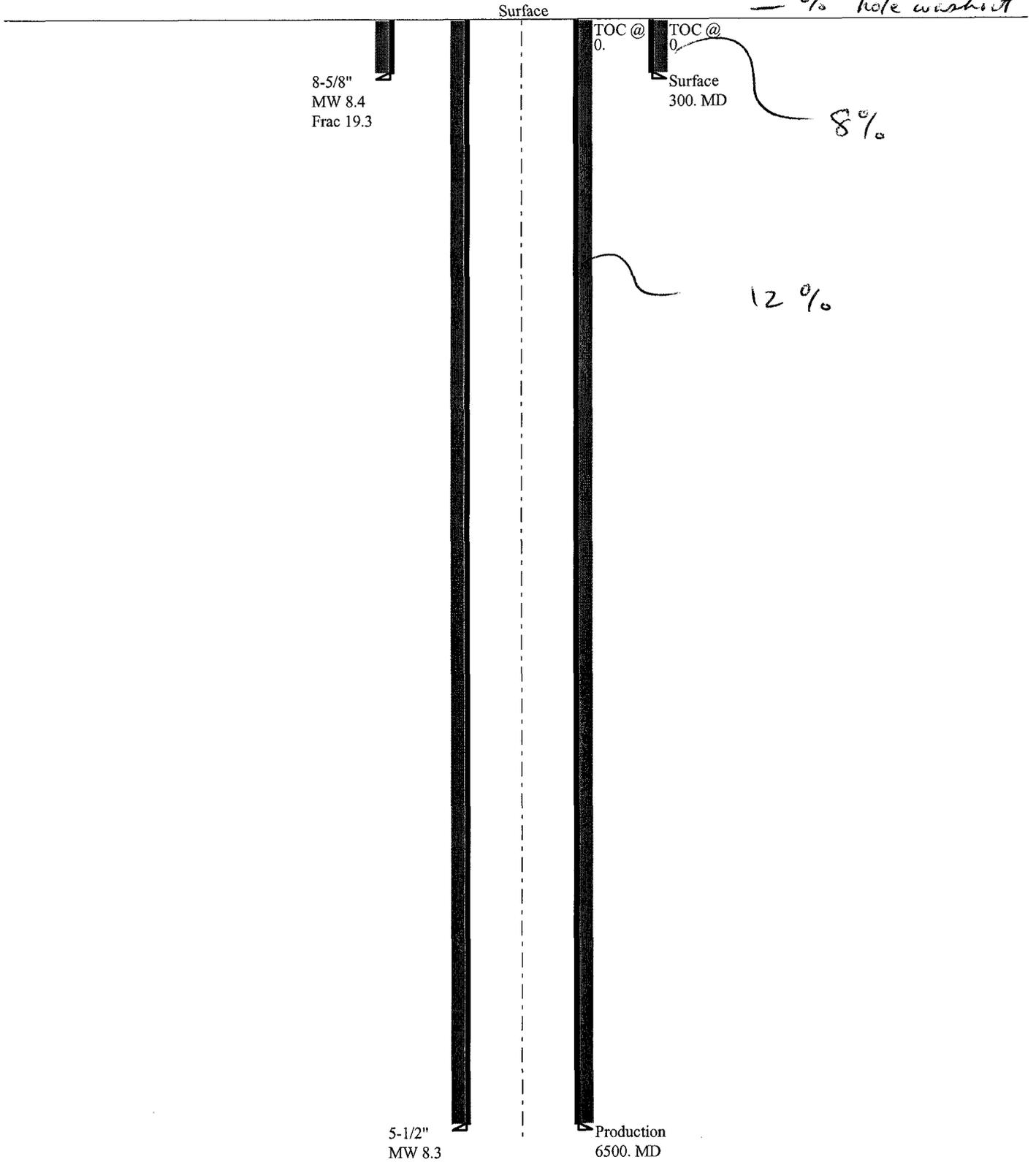
ENGINEERING STIPULATIONS: NONE
 Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
 Collapse is based on a vertical depth of 6500 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes.
 In addition, burst strength is biaxially adjusted for tension.

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

1-00 Inland CD 15-2-9-1

Casing Schematic

*Cement tops with
— 0% hole washout*





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)

January 3, 2000

Inland Production Company
P.O. Box 790233
Vernal, UT. 84079

Re: Castle Draw 15-2-9-17 Well, 661' FSL, 1980' FEL, SW SE, Sec. 2, T. 9 S., R. 17 E.,
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 43-047-33239.

Sincerely,

A handwritten signature in black ink that reads "John R. Baza".

John R. Baza
Associate Director

ecc

Enclosures

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

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: INLAND RESOURCES

Well Name: CASTLE DRAW 15-2-9-17

Api No. 43-047-33239 Lease Type: STATE

Section 02 Township 09S Range 17E County UINTAH

Drilling Contractor UNION DRILLING RIG # 14

SPUDDED:

Date 02/27/2000

Time 6:00 PM

How DRY HOLE

Drilling will commence _____

Reported by PAT WISENER

Telephone # 1-435-823-7468

Date 02/28/2000 Signed: CHD

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

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

OPERATOR ACCT NO. N5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12275	43-047-33239	Castle Draw 15-2-9-17	SWSE	2	9S	17E	Uintah	Feb. 27, 2000	
WELL 1 COMMENTS: Union rig #14 spud at 6 PM <i>000229 entity added (Castle draw/Sec Rec) KBR</i>											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
WELL 2 COMMENTS:											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
WELL 3 COMMENTS:											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
WELL 4 COMMENTS:											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
WELL 5 COMMENTS:											

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

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

Coit Mathison
 Signature
 Sr. Production Accounting Clerk February 28, 2000
 Title Date



PRODUCTION COMPANY
A Subsidiary of Inland Resources Inc.

March 6, 2000

RECEIVED

MAR 07 2000

**DIVISION OF
OIL, GAS AND MINING**

*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 Castle Draw 15-2-9-17. If you have any questions feel free to call me @ 435-823-7468 cell, or 435-646-3721 office any time.

Sincerely,

*PAT WISENER
Drilling Foreman*

Enclosures

pw

**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.
ML-45555

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA, Agreement Designation
Castle Draw

8. Well Name and No.
#15-2-9-17

9. API Well No.
43-013-33239

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

11. County or Parish, State
Uintah County, Utah

SUBMIT IN TRIPLICATE

RECEIVED

MAR 07 2000

**DIVISION OF
OIL, GAS AND MINING**

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)
**661' FSL & 1980' FEL SW/SE
Sec. 2.T 9S R 17E**

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 Spud Notice
	<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 UNION RIG # 14. Set equipment. Drill mouse hole & rat hole. **Spud well @ 6:00 pm. 2/27/00.** Drill 17 1/4" hole and set 23' of 13 3/8" conductor. Nipple up cellar. Drill 12 1/4" hole with air mist to a depth of 325'. TIH w/ 8 5/8" J-55 csg. Landed @ 297.7'. Cement with *141sks class "G" w/ 2% CaCL2 & 1/4#/sk Cello-flake mixed @ 15.8ppg.>1.17 YLD. Estimated 3 bbls cement to surface. WOC 4 hours. Break out & Nipple up BOP's. Pressure test Kelly, TIW, Choke manifold, & BOP's TO 2000 psi. Test 8 5/8" CSG. TO 1500 PSI. ALL TESTED GOOD. Vernal District BLM & Utah DOGM notified by phone. Drill 7 7/8" hole with water based mud to a depth of 5689'. Lay down drill string & BHA. Open hole log. PU & MU 71 jt's of 5 1/2" 15.5# J 55 & 62 jt's 17# N-80 csg. Set @ 5686.28'. Cement with *250 sks Premlite II w/ 10% Gel & 3% KCL mixed @ 11.0 ppg >3.43 YLD. * 400 sks 50/50 POZ w/ 2% GEL & 3% KCL mixed @ 14.4 ppg >1.24 YLD. Good circulation. Plug held. Nipple down BOP's and drop slips with 72,000 # string weight. Release rig 12:30 pm on 3/5/00. Wait on completion.

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

Signed *Pat Wisener* Title Drilling Foreman Date 3/6/00

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

CC: UTAH DOGM

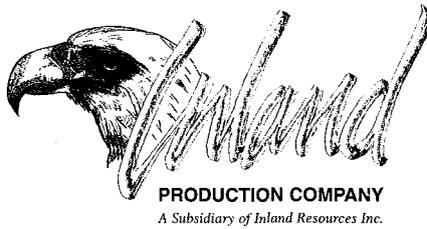
INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 5686.28

LAST CASING 8 5/8" SET AT 300.25
 DATUM 10' KB
 DATUM TO CUT OFF CASING _____
 DATUM TO BRADENHEAD FLANGE _____
 TD DRILLER 5687' LOGGER 5689'
 HOLE SIZE 7 7/8"

OPERATOR INLAND PRODUCTION COMPANY
 WELL Castle Draw #15-2-9-17
 FIELD/PROSPECT NMB
 CONTRACTOR & RIG # UNION RIG 14

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		LANDING JT					12.4
62	5 1/2"	Used & Inspected	17	N-80		B	2677.04
70	5 1/2"	Maverick SC&T CSG	15.5	J-55	8rd	A	2958.34
		FLOAT COLLAR (AUTO FILL)			8rd	A	0.6
1	5 1/2"	Used & Inspected	17	N-80	8rd	B	39.65
		SHOE - GUIDE			8rd	A	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			5688.68
TOTAL LENGTH OF STRING		5688.68	132	LESS CUT OFF PIECE			12.4
LESS NON CSG. ITEMS		13.65		PLUS DATUM TO T/CUT OFF CSG			10
PLUS FULL JTS. LEFT OUT		46.58	1	CASING SET DEPTH			5686.28
TOTAL		5721.61	133	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		5721.61	133				
TIMING		1ST STAGE					
BEGIN RUN CSG.		1:00AM		GOOD CIRC THRU JOB <u>YES</u>			
CSG. IN HOLE		5:30 AM		Bbls CMT CIRC TO SURFACE <u>12 bbls dye water</u>			
BEGIN CIRC		5:50 AM		RECIPROCATED PIPE FOR <u>10 mins</u> THRU <u>8' FT</u> STROKE			
BEGIN PUMP CMT		6:35 AM	6:55 AM	DID BACK PRES. VALVE HOLD ? <u>yes</u>			
BEGIN DSPL. CMT			7:13 AM	BUMPED PLUG TO <u>2155</u> PSI			
PLUG DOWN			7:32 AM				
CEMENT USED		CEMENT COMPANY- BJ			RECEIVED MAR 07 2000 DIVISION OF OIL, GAS AND MINING		
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	250	Prem Lite II w/ 10% GEL & 3% KCL mixed to 11.0 ppg > 3.43 YLD					
2	400	50/50 POZ w/ 2% GEL & 3% KCL mixed to 14.4 ppg > 1.24 YLD					
3							
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING				
1 on middle of first JT, 1 collar of the second & third JT. Then every 3rd collar for a total of 20.							



PRODUCTION COMPANY
A Subsidiary of Inland Resources Inc.

RECEIVED

MAR 21 2000

DIVISION OF
OIL, GAS AND MINING

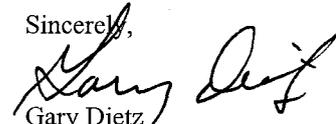
March 20, 2000

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 Castle Draw 15-2-9-17. If you have any questions please call me at 435-823-4211 (CELL) or 435-646-3721 (OFFICE) any time.

Sincerely,



Gary Dietz
Completion Foreman

Enclosures

gd

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.

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

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

660.5' FSL & 1979.5' FEL SW/SE Section 2, T9S, R17E

5. Lease Designation and Serial No.

ML-45555

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Castle Draw 15-2-9-17

9. API Well No.

43-047-33239

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Uintah County Utah

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 3/13/00 through 3/19/00.
Subject well had Completion procedures initiated on 3/18/00. No zones have been opened as of date.

RECEIVED
BUREAU OF LAND MANAGEMENT
MARCH 21 2000
SALT LAKE CITY, UTAH

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

Signed Gary Dietz Title Completion Foreman Date 20-Mar-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



March 27, 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 Castle Draw 15-2-9-17. If you have any questions please call me at 435-823-4211 (CELL) or 435-646-3721 (OFFICE) any time.

Sincerely,

Gary Dietz
Completion Foreman

Enclosures

gd

RECEIVED

MAR 28 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

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Use "APPLICATION FOR PERMIT - " for such proposals

5. Lease Designation and Serial No.
ML-45555

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Castle Draw 15-2-9-17

9. API Well No.

43-047-33239

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.

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

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

660.5' FSL & 1979.5' FEL SW/SE Section 2, T9S, 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 3/20/00 through 3/26/00.
Subject well Had 2 Green River zones perforated and hydraulically fractured. A third zone was perforated and broke down. Bridge plugs and sand plugs were removed from wellbore. Zones were swab tested to clean up sand. Production equipment was ran in well. Began producing on pump on 3/25/00.

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MAR 28 2000

**DIVISION OF
OIL, GAS AND MINING**

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

Signed

Gary Dietz

Title

Completion Foreman

Date

27-Mar-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

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NO.

ML-45555

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [] DRY [] Other []

7. UNIT AGREEMENT NAME

CASTLE DRAW

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [] DEEPEN [] PLUG BACK [] DIFF. RESVR. [] Other []

8. FARM OR LEASE NAME

CASTLE DRAW 15-2-9-17

2. NAME OF OPERATOR INLAND RESOURCES INC.

9. WELL NO.

3. ADDRESS OF OPERATOR 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 SWSE 661' FSL & 1980' FEL At top prod. interval reported below

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Section 2, T09S R17E

14. API NO. 43-047-33239 DATE ISSUED 1/3/00

12. COUNTY UINTAH 13. STATE UT

15. DATE SPUNNED 2/27/00 16. DATE T.D. REACHED 3/4/00 17. DATE COMPL. 3/25/00 18. ELEVATIONS (DF, RKB, RT, GR, ETC.) 5067' GR 5077' KB

20. TOTAL DEPTH, MD & TVD 5687' 21. PLUG BACK T.D., MD & TVD 5639' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 23. INTERVALS ROTARY TOOLS X

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD) GREEN RIVER 4063' - 5533' 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN DIGL/SP/GR/CAL - CN/CD/GR - CBI/CAL/GR 27. WAS WELL CORED? YES [] NO [X] DRILL STEM TEST? YES [] NO [X]

Table with 6 columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED. Rows include 8-5/8, 5-1/2 casing sizes.

Table with 8 columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT, SCREEN (MD), SIZE, DEPTH SET (MD), PACKER SET (MD). Rows include LINER RECORD and TUBING RECORD.

Table with 4 columns: INTERVAL, SIZE, NUMBER, ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. Rows include perforation intervals and material used.

Table with 8 columns: DATE FIRST PRODUCTION, PRODUCTION METHOD, WELL STATUS, DATE OF TEST, HOURS TESTED, CHOKE SIZE, PROD'N. FOR TEST PERIOD, OIL-BBLS, GAS-MCF, WATER-BBL, GAS-OIL RATIO.

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold and used for fuel TEST WITNESSED BY MAY 08 2000

35. LIST OF ATTACHMENTS Logs listed in item #26 DIVISION OF OIL, GAS AND MINING

36. I hereby certify that the foregoing and attached information is complete and correct as containing all available information. SIGNED [Signature] TITLE Operations Secretary DATE 5/4/00

INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.
 ITEMS: 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instruction for items 22 and 24 above).

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
Garden Gulch Mkr	3662'					
Garden Gulch 2	3953'					
Point 3 Mkr	4213'					
X Mkr	4448'					
Y-Mkr	4481'					
Douglas Creek Mkr	4610'					
BiCarbonate Mkr	4855'					
B Limestone Mkr	4981'					
Castle Peak	5427'					
Basal Carbonate	NDE					
Total Depth	5687'					

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MAY 08 2000

DIVISION OF
OIL, GAS AND MINING

CASTLE DRAW 15-2-9-17



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: CASTLE DRAW

WELL(S)								
NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
MON ST 14-2	02	090S	170E	4301331425	12275	State	WI	A
MONUMENT ST 12-2	02	090S	170E	4301331481	12275	State	OW	P
MONUMENT ST 13-2	02	090S	170E	4301331482	12275	State	WI	A
MONUMENT ST 11-2-9-17CD	02	090S	170E	4301331685	12275	State	WI	A
CASTLE DRAW 10-2R-9-17	02	090S	170E	4304731195	12275	State	WI	A
MON ST 31-2-9-17CD	02	090S	170E	4304732563	12275	State	WI	A
MONUMENT ST 22-2	02	090S	170E	4304732610	12275	State	WI	A
MONUMENT ST 24-2	02	090S	170E	4304732612	12275	State	OW	P
BALCRON MON ST 23-2	02	090S	170E	4304732613	12275	State	WS	I
MONUMENT ST 21-2-9-17	02	090S	170E	4304732703	12275	State	OW	P
MONUMENT ST 32-2	02	090S	170E	4304732737	12275	State	OW	P
CASTLE DRAW 8-2	02	090S	170E	4304732842	12275	State	D	PA
CASTLE DRAW 1-2-9-17	02	090S	170E	4304732843	12275	State	OW	S
CASTLE DRAW 9-2-9-17	02	090S	170E	4304733238	12275	State	OW	P
CASTLE DRAW 15-2-9-17	02	090S	170E	4304733239	12275	State	OW	P
CASTLE DRAW 16-2-9-17	02	090S	170E	4304733240	12275	State	WI	A

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
Phone 800-227-8917
<http://www.epa.gov/region08>

JUN 04 2009

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Eric Sundberg
Regulatory Analyst
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: Additional Well: Castle Draw Area Permit
Additional Testing Required on Injection well and
Corrective Action Required on AOR wells
UIC Permit No. UT20776-00000
Well ID: UT20776-08390
Castle Draw 15-2-9-17
661' FSL & 1980' FEL
SWSE Sec. 2 T9S-R17E
Uintah County, Utah
API #43-047-33239

Dear Mr. Sundberg:

The Newfield Production Company's request to convert the former Green River Formation oil well Castle Draw 15-2-9-17 to an enhanced recovery injection well under the Castle Draw Area Permit is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions of the Authorization for Additional Well.

The addition of the proposed injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Castle Draw Area Permit No. UT20776-00000 and subsequent modifications.

Please be aware that Newfield does not have authorization to begin injection operations into the well until all Prior to Commencing Injection requirements have been submitted and evaluated by the EPA, and has received written authorization from the Director to begin injection. Please note that the Permit limits injection to the gross interval within the Green River Formation between the depths of 3,662 feet and the top of the Wasatch Formation, estimated at 5,952 feet.

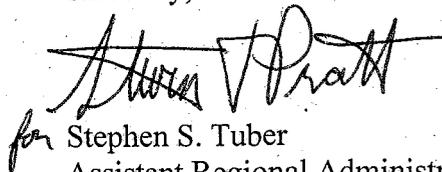
RECEIVED
JUN 08 2009
DIV. OF OIL, GAS & MINING

Prior to receiving authorization to inject, the EPA requires that Newfield submit for review and approval: (1) the results of a Part 1 (Internal) mechanical integrity test (MIT), (2) a pore pressure calculation of the injection interval, (3) the results of a radioactive tracer survey within a 180-day authorization to inject, and (4) a completed EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram.

The initial Maximum Allowable Injection Pressure (MAIP) for the Castle Draw 15-2-9-17 was determined to be 1,255 psig. UIC Area Permit UT20776-00000 also provides the opportunity for the permittee to request a change in the MAIP based upon results of a step rate test that demonstrates that the formation breakdown pressure will not be exceeded.

If you have any questions, please call Ms. Sarah Bahrman at (303) 312-6243 or 1-(800)-227-8917 (Ext. 312-6243). Please submit the required data to ATTENTION: Sarah Bahrman, at the letterhead address, citing MAIL CODE: 8P-W-GW very prominently.

Sincerely,



for Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

Encl: Authorization for Conversion of An Additional Well
EPA Form No. 7520-12 (Well Rework Record)
Proposed Wellbore and P&A Wellbore schematics for Castle Draw 15-2-9-17

cc: Permit Letter:
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

All Enclosures:

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

Michael Guinn
District Manager
Newfield Production Company
Myton, Utah



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

AUTHORIZATION FOR ADDITIONAL WELL

UIC Area Permit No: UT20776-00000

The Castle Draw Unit Final UIC Area Permit No. UT20776-00000, effective November 29, 1995, authorizes injection for the purpose of enhanced oil recovery in the Monument Butte Field. On March 10, 2009, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

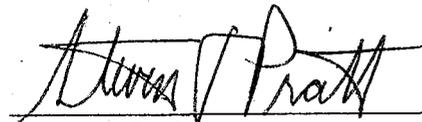
Well Name:	<u>Castle Draw 15-2-9-17</u>
EPA Well ID Number:	<u>UT 20776-08390</u>
Location:	661' FSL & 1980' FEL SWSE Sec. 2 T9S-R17E Uintah County, Utah API #43-047-33239

Pursuant to 40 CFR §144.33, Area UIC Permit No. UT20776-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit No. UT20776-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: JUN 04 2009


for **Stephen S. Tuber**
*Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

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

Authorization for Additional Well: UIC Area Permit UT20776-00000
Well: Castle Draw 15-2-9-17 EPA Well ID: UT20776-08390

INJECTION WELL-SPECIFIC REQUIREMENTS

Well Name: **Castle Draw 15-2-9-17**
EPA Well ID Number: **UT20776-08390**

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

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

Once these records are received and approved by EPA, the Director will provide written authorization to inject for a limited period of 180 days, during which time a **Radioactive Tracer Survey (RTS) is required** to demonstrate no significant upward migration of injection fluids behind the casing from the injection zone. It is intended that a maximum of 180 days of injection will allow the injection zone to adequately pressurize prior to executing the RTS.

Approved Injection Zone: Injection is approved between the top of the Garden Gulch Member of the Green River Formation at 3,662 feet (ft.) to the top of the Wasatch Formation, at an estimated depth of 5,952 ft. (KB).

Maximum Allowable Injection Pressure (MAIP): The initial MAIP is **1,255 psig**, based on the following calculation:

$$\text{MAIP} = [\text{FG} - (0.433)(\text{SG})] * \text{D}, \text{ where}$$
$$\text{FG} = 0.749 \text{ psi/ft} \quad \text{SG} = 1.015 \quad \text{D} = \underline{\mathbf{4,063 \text{ ft.}}}$$

(top perforation depth KB)

$$\text{MAIP} = \underline{\mathbf{1,255 \text{ psig}}}$$

UIC Area Permit No. UT20766-00000 provides the opportunity for the permittee to request a change of the MAIP based upon the submitted results of a Step Rate Test that demonstrates the formation breakdown pressure will not be exceeded.

Well Construction: Casing and Cementing: The well was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c). However, cementing records, including the cement bond log, have not satisfactorily demonstrated the presence of adequate cement to prevent the migration of injection fluids behind the casing from the injection zone.

Well Construction: Tubing and Packer: 2-7/8" or similar size injection tubing is approved; the packer shall be set at a depth no more than 50 ft. above the top perforation.

Demonstration of Mechanical Integrity:

- (1) A successful demonstration of Part I (Internal) Mechanical Integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than every five years after the last successful test.

(2) Because the cementing records have not satisfactorily demonstrated the presence of adequate cement to prevent migration of injection fluids behind the casing from the injection zone, a RTS is required to confirm the presence of adequate cement. If the RTS is not run, or if the RTS does not confirm adequate cement, the permittee shall demonstrate Part II (External) Mechanical Integrity pursuant to 40 CFR §146.8(a)(2) using an approved test method such as temperature log, noise log or oxygen activation log, and the demonstration of Part II Mechanical Integrity shall be repeated no less than every five years after the last successful test.

Demonstration of Financial Responsibility: 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.

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

PLUG NO. 1: Set a cast iron bridge plug (CIBP) no more than 50 ft. above the top perforation with a minimum of 20 ft. cement plug on top of the CIBP.

PLUG NO. 2: Perforate and squeeze cement up the backside of the 5-1/2" casing across the Trona Zone and the Mahogany Bench from approximately 2,777 ft. to 2,936 ft. (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 159-foot balanced cement plug inside the 5-1/2" casing from approximately 2,777-2,936 ft. (KB).

PLUG NO. 3: Perforate and squeeze cement up the backside of the 5-1/2" casing across the contact between the Uinta Formation and Green River Formation at 1,332 ft. (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot cement plug inside the 5-1/2" casing from approximately 1,272-1,392 ft. (KB).

PLUG NO. 4: Set a Class "G" cement plug within the 5-1/2" casing to 357 ft. and up the 5-1/2" x 8-5/8" casing annulus to the surface.

INJECTION WELL-SPECIFIC CONSIDERATIONS

Well Name: **Castle Draw 15-2-9-17**
EPA Well ID Number: **UT20776-08390**

Underground Sources of Drinking Water (USDWs): USDWs in the Castle Draw Unit Area Permit generally occur within the Uinta Formation. According to "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the base of moderately saline ground water may be found at approximately 177 ft. below ground surface in the Castle Draw 15-2-9-17 well.

http:NRWRT1.NR.STATE.UT.US: There are no reservoirs, streams, domestic or agricultural water wells within a quarter (1/4) mile of the well.

Composition of Source, Formation, and Injectate Water: (Total Dissolved Solids [TDS]):

- TDS of the Garden Gulch and Douglas Creek Members of the Green River Formation Water: 30,233 mg/l.

- TDS of Beluga Facility Injection System source water: 8,822 mg/l.

The **injectate** is water from the Beluga Facility Injection System blended with produced Green River Formation Water resulting in TDS < 10,000 mg/l.

Aquifer Exemption is not required because the TDS of water produced from the proposed injection well is greater than 10,000 mg/l.

Confining Zone: The Confining Zone, which directly overlies the Garden Gulch Member of the Green River Formation, is approximately 194 ft. of shale between the depths of 3,468 ft. and 3,662 ft. (KB).

Injection Zone: The Injection Zone at this well location is approximately 2,290 ft. of multiple lenticular sand units interbedded with shale, marlstone and limestone from the top of the Garden Gulch Member at 3,662 ft. (KB) to the top of the Wasatch Formation which is estimated to be at 5,952 ft. (KB). All formation tops are based on correlations to the Newfield Production Federal #1-26-8-17 (UT20702-04671) Type Log.

Well Construction: The CBL does not show 80% or greater cement bond index in the Confining Zone (3,468 to 3,662 ft. KB). Thus, further demonstration that well cement is adequate to prevent significant migration of injection fluids behind casing is required.

Surface Casing: 8-5/8" casing is set at 307 ft. (KB) in a 12-1/4" hole, using 141 sacks Class "G" cement, cemented to the surface.

Longstring Casing: 5-1/2" casing is set at 5,686 ft. (KB) in a 7-7/8" hole secured with 650 sacks of cement. Total driller depth 5,687 ft. Plugged back total depth is 5,639 ft. EPA calculates top of cement at 777 ft. Estimated CBL top of cement is 740 ft.

Perforations: Top perforation: 4,063 ft. (KB) Bottom perforation: 5,533 ft. (KB)

Authorization for Additional Well: UIC Area Permit UT20776-00000
Well: Castle Draw 15-2-9-17 EPA Well ID: UT20776-08390

AREA OF REVIEW (AOR) WELL REQUIREMENTS

The following six wells that penetrate the confining zone within or proximate to a 1/4 mile radius around the Castle Draw 15-2-9-17 were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs.

Well: Castle Draw 10-2R-9-17	API: 43-047-31195	NWSE Sec. 2-T9S-R17E
Well: Castle Draw State R-2-9-17	API: 43-047-39681	SWSE Sec. 2-T9S-R17E
Well: Monument State 24-2-9-17	API: 43-047-32612	SESW Sec. 2-T9S-R17E
Well: Federal 2-11-9-17	API: 43-047-35502	NWNE Sec. 11-T9S-R17E
Well: Castle Draw 16-2-9-17	API: 43-047-33240	SESE Sec. 2-T9S-R17E
Well: Castle Draw State S-2-9-17	API: 43-047-39680	NESE Sec. 2-T9S-R17E

Corrective Action Required on two AOR wells:

Well: Monument State 24-2-9-17 API: 43-047-32612 SESW Sec. 2-T9S-R17E
Less than 18 feet of 80 percent bond cement across confining zone (3,562-3,612 ft). TOC at 1,852 ft. Refer to corrective action plan described below.

Well: Castle Draw 16-2-9-17 API: 43-047-33240 SESE Sec. 2-T9S-R17E
Less than 18 feet of 80 percent bond cement across confining zone (3,622-3,672 ft). TOC at 1,457 ft. Refer to corrective action plan described below.

AOR Well Corrective Action Plan: The Monument State 24-2-9-17 and Castle Draw 16-2-9-17 wells shall 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" and the permittee is referred to this document.

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, the Permittee will shut in the Castle Draw 15-2-9-17 well immediately and notify the Director. No injection into the Castle Draw 15-2-9-17 well will be permitted until the Permittee has notified the Director that the situation has been resolved, submitted Reword Records (EPA Form No.7520-12) and a schematic diagram, and received authorization from the Director to recommence injection.

Corrective Action Not Required on four AOR wells:

Well: Castle Draw 10-2R-9-17 API: 43-047-31195 NWSE Sec. 2-T9S-R17E
Shows 1,378 ft of 80 percent or greater cement bond index from 3,502-4,880 ft, which includes cement across the confining zone.

Well: Castle Draw State R-2-9-17 API: 43-047-39681 SWSE Sec. 2-T9S-R17E.
Shows 18 ft. of 80 percent cement bond or greater from 3,651-3,669 ft.

Well: Federal 2-11-9-17 API: 43-047-35502 NWNE Sec. 11-T9S-R17E
Shows 225 ft of 80 percent or greater cement bond index from 3,420-3,645 ft, which includes cement across the confining zone.

Well: Castle Draw State S-2-9-17 API: 43-047-39680 NESE Sec. 2 -T9S-R17E
Shows 87 ft. of 80 percent cement bond or greater from 3,548-3,635 ft.

Reporting of Noncompliance:

- (a) Anticipated Noncompliance. The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than thirty (30) days following each schedule date.
- (c) Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five (5) days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

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

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.

- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

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

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

Other Information: Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

Castle Draw #15-2-9-17

Spud Date: 2/27/00

Put on Production: 3/25/00
GL: 5066.5' KB: 5076.5'

Initial Production:

Proposed Injection Wellbore Diagram

✓ SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (295.5')
DEPTH LANDED: 307' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 141 sxs lass "G" w/ 2% CaCl2 & 1/4#/sk Cello-Flake
2 bbl to surface

EPA TOC calc = 777 ft.

✓ PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55 & N-80
WEIGHT: 15.5# (J-55) 17# (N-80)
LENGTH: 133 jts. (5675')
DEPTH LANDED: 5686' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 250 sxs Prem Lite II w/ 10% Gel & 3% LCI
400 sxs 50/50 poz w/ 2% Gel & 3% KCl, 12 bbl dye water to surface
CEMENT TOP: 740' ✓

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 177 jts (5519')
TUBING ANCHOR: 5403.2'
SEATING NIPPLE: 2 - 7/8" (1.10')
TOTAL STRING LENGTH: ? (EOT @ 5565')
SN LANDED AT: 5438'

No 80% cement bond index
through C.Z.

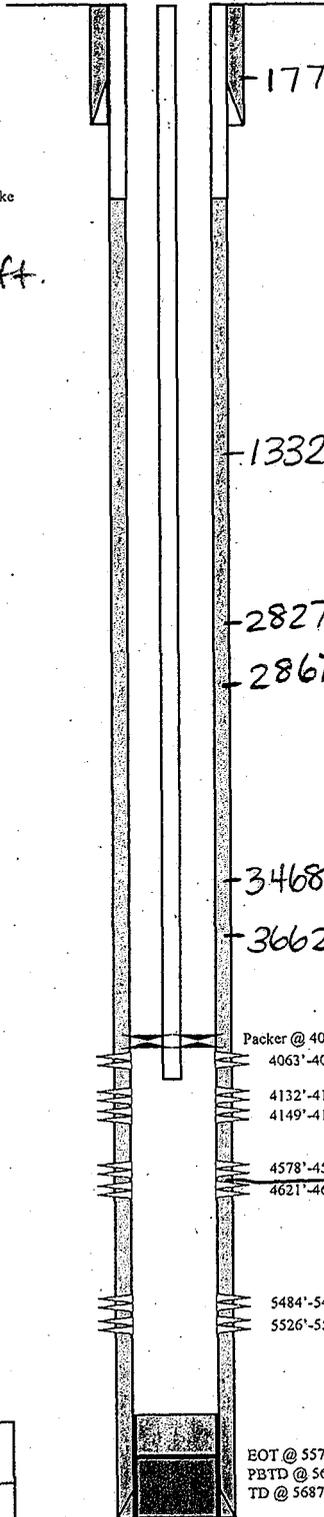
FRAC JOB

3/21/00 5484'-5533' Frac CP sand as follows:
78,192# of 20/40 sand in 504 bbls of Viking I-25. Breakdown @ 2300psi. Treated @ avg rate of 29.5 bpm w/avg press of 1500 psi. ISIP-1850 psi, 5-min 1698 psi. Flowback on 12/64" ck for 5 hours and died.

3/22/00 4578'-4625' Break Down DS/D sand as follows:
Perfs broke at 1500 psi. IR 3.2 BPM @ 1200 psi. Lost 1 bbl fluid.

3/23/00 4063'-4158' Frac GB sand as follows:
87,706# of 20/40 sand in 558 bbls of Viking I-25. Breakdown @ 2137 psi. Treated @ avg rate of 27 bpm w/avg press of 1800 psi. ISIP-2450 psi, 5-min 2272 psi. Flowback on 12/64" ck for 2-1/2 hours and died.

6/26/08 Stuck pump. Rod & tubing updated.



PERFORATION RECORD

Date	Depth Range	Perforation Type	Holes
3/22/00	4063'-4067'	4 JSPF	16 holes
3/22/00	4132'-4144'	4 JSPF	48 holes
3/22/00	4149'-4158'	4 JSPF	36 holes
3/22/00	4578'-4585'	4 JSPF	28 holes
3/22/00	4621'-4625'	4 JSPF	16 holes
3/20/00	5484'-5491'	4 JSPF	28 holes
3/20/00	5526'-5533'	4 JSPF	28 holes

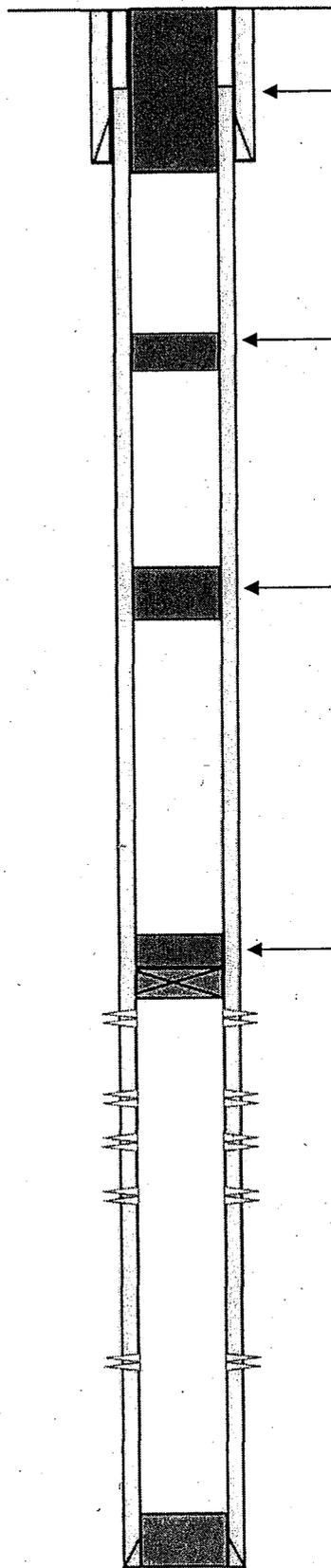
NEWFIELD

Castle Draw #15-2-9-17
661' FSL & 1980' FEL
SW/SE Section 2-T9S-R17E
Uintah County, Utah
API #43-047-33239; Lease # ML-45555

EOT @ 5578'
PBTD @ 5639'
TD @ 5687' ✓

5827' Basal Carbonate (est.)
5952' Wasatch (est.)

Plugging and Abandonment Diagram for Castle Draw 15-2-9-17



Plug 4: Set a Class "G" cement plug within the 5-1/2" casing beginning at 357 ft and up the 5-1/2" x 8-5/8" casing annulus to the surface.

Plug 3: Perforate and squeeze cement up the backside of the casing across the contact between the Uinta Formation and Green River Formation at 1,332 ft. (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot cement plug inside the casing from approximately 1,272-1,392 ft.

Plug 2: Perforate and squeeze cement up the backside of the casing across the Trona Zone and the Mahogany Bench from approximately 2,777 ft. to 2,936 ft. (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 159-foot balanced cement plug inside the casing from approximately 2,777 - 2,936 ft.

Plug 1: Set a cast iron bridge plug (CIBP) no more than 50 ft above the top perforation with a minimum of 20 ft cement plug on top of the CIBP.

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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTAH STATE ML-45555
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: GMBU
8. WELL NAME and NUMBER: CASTLE DRAW 15-2-9-17
9. API NUMBER: 4304733239
10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE

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 GAS WELL OTHER

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

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

4. LOCATION OF WELL:
FOOTAGES AT SURFACE: 661 FSL, 1980 FEL COUNTY: UINTAH
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWSE, 2, T9S, R17E STATE: UT

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTAH STATE ML-45555

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
GMBU

8. WELL NAME and NUMBER:
CASTLE DRAW 15-2-9-17

9. API NUMBER:
4304733239

10. FIELD AND POOL, OR WILDCAT:
MONUMENT BUTTE

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: <u>03/26/2010</u>	<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 03/23/2010. On 03/25/2010 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 03/26/2010 the casing was pressured up to 1440 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT20776-08390 API# 43-047-33239

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

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APR 05 2010

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant

SIGNATURE  DATE 03/30/2010

(This space for State use only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

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

5. Lease Serial No.
UTAH STATE ML-45555

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
GMBU

8. Well Name and No.
CASTLE DRAW 15-2-9-17

9. API Well No.
4304733239

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

11. County or Parish, State
UINTAH, UT

SUBMIT IN TRIPLICATE - Other Instructions on page 2

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

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

3b. Phone (include are code)
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
661 FSL 1980 FEL
SWSE Section 2 T9S R17E

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

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

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

The subject well has been converted from a producing oil well to an injection well on 03/23/2010. On 03/25/2010 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 03/26/2010 the casing was pressured up to 1440 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT20776-08390 API# 43-047-33239

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DIR OF OIL, GAS & MINES

I hereby certify that the foregoing is true and correct (Printed/ Typed) Lucy Chavez-Naupoto	Title Administrative Assistant
Signature 	Date 03/30/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

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

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: 3 / 26 / 2010
 Test conducted by: Dale Giles
 Others present: _____

Well Name: <u>Castle Draw 15-2-9-17</u>		Type: ER SWD	Status: AC TA UC
Field: _____			
Location: _____	Sec: <u>2 T 9 N (S) R 17 (E) W</u>	County: <u>Uintah</u>	State: <u>Ut.</u>
Operator: <u>Newfield Production Co.</u>			
Last MIT: <u>1 / 1</u>	Maximum Allowable Pressure: _____		PSIG

Is this a regularly scheduled test? Yes No
 Initial test for permit? Yes No
 Test after well rework? Yes No
 Well injecting during test? Yes No If Yes, rate: DIV. OF OIL, GAS & MINING

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Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	<u>0</u> psig	psig	psig
End of test pressure	<u>0</u> psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	<u>1440</u> psig	psig	psig
5 minutes	<u>1440</u> psig	psig	psig
10 minutes	<u>1440</u> psig	psig	psig
15 minutes	<u>1440</u> psig	psig	psig
20 minutes	<u>1440</u> psig	psig	psig
25 minutes	<u>1440</u> psig	psig	psig
30 minutes	<u>1440</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: _____

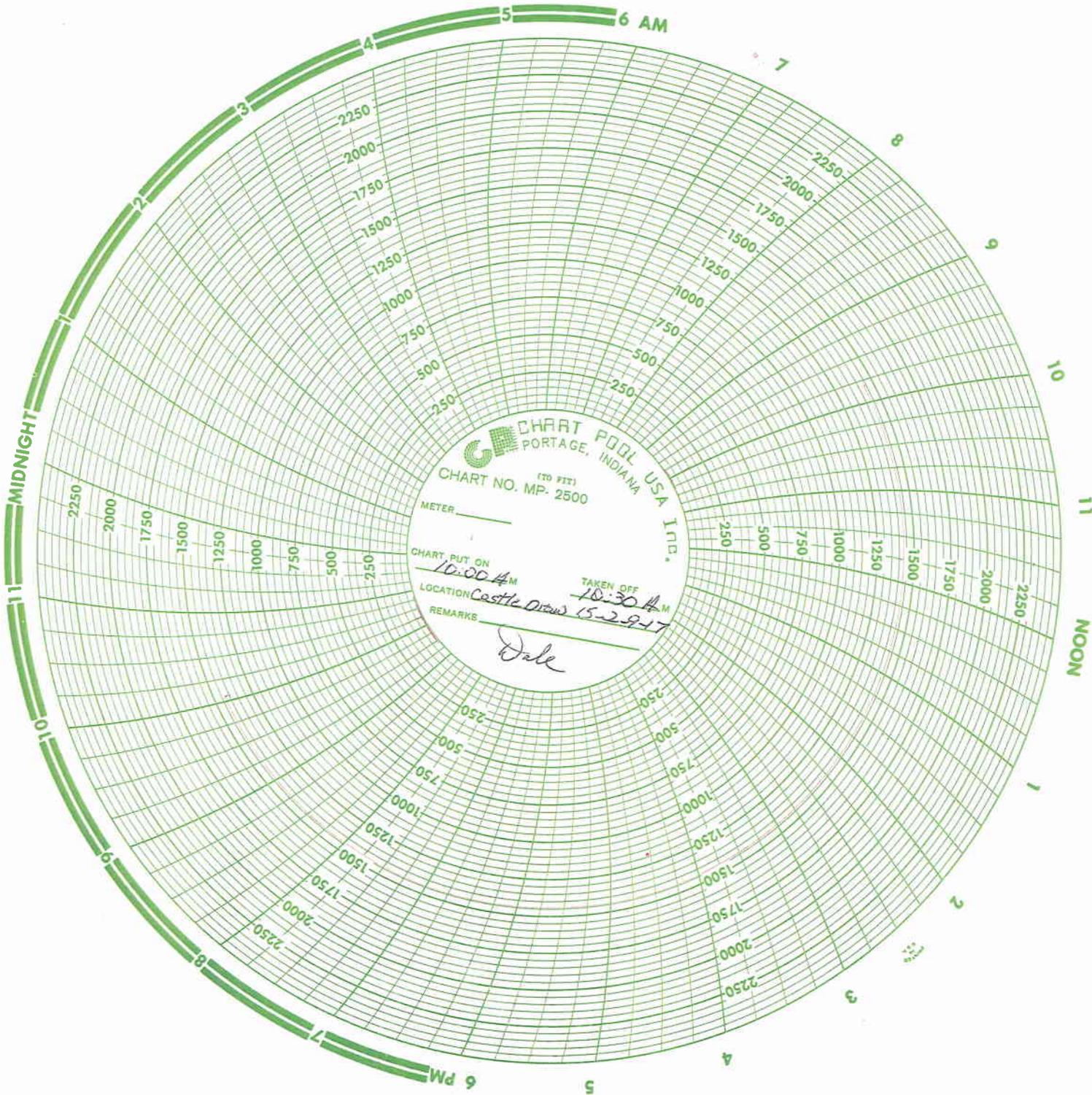


CHART POOL USA INC.
PORTAGE, INDIANA
(70 FT)
CHART NO. MP- 2500
METER _____

CHART PUT ON 10:00 A.M. TAKEN OFF 10:30 A.M.
LOCATION Castle Ditch 15-29-17

REMARKS Dale

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APR 05 2010
DIV. OF OIL, GAS & MINING

Daily Activity Report
Format For Sundry
CASTLE DRAW 15-2-9-17
1/1/2010 To 5/30/2010

3/22/2010 Day: 1**Conversion**

NC #3 on 3/22/2010 - MIRUSU. LD rods & start breaking tbg collars. - MIRUSU. Pump 60 bbls water down csg @ 250°. RD pumping unit. Unseat rod pump. Flush tbg & rods w/ 40 bbls water @ 250°. Softseat & pressure test tbg to 3000 psi w/ 10 bbls water. Good test. Unseat rod pump. TOH & LD w/ 100- 3/4 guided rods, 93- 3/4 plain rods, 20- 3/4 guided rods, 6- 1 1/2 wt bars, rod pump. Used 40 bbls water to keep rods clean. X- over to tbg eq. ND wellhead. Release TA. NU BOP. RU rig floor. TOH inspecting & doping pins w/ 100- jts 2 7/8. Used 20 bbls water to keep clean. SDFD.

Daily Cost: \$0**Cumulative Cost:** (\$34,187)

3/23/2010 Day: 2**Conversion**

NC #3 on 3/23/2010 - Cont TIH breaking collars. Pressure test tbg & Pkr. - Flush tbg w/ 30 bbls water @ 250°. Cont TOH inspecting & doping pins w/ 28- jts 2 7/8. LD 45- jts 2 7/8, TA, 5- jts 2 7/8, SN, 1- jt 2 7/8, NC. Used 20 bbls water to keep tbg clean. PU TIH w/ Arrowset Pkr, SN, 128- jts 2 7/8. Pump 10 bbls water down tbg & drop std valve. Pressure test tbg to 3000 psi w/ 15 bbls water for 1 hr. Good test. RU sandline to retrieve std valve. RD sandline. RD rig floor. ND BOP. NU wellhead. Pump 50 bbls fresh water w/ pkr fluid down csg. ND wellhead. Set Pkr w/ 18000 tension. Pressure test Pkr & csg to 1300 psi for 1 hr. Good test. RDMOSU. READY FOR MIT!!

Daily Cost: \$0**Cumulative Cost:** \$58,845

3/26/2010 Day: 3**Conversion**

Rigless on 3/26/2010 - MIT on well - On 3/25/2010 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well (Castle Draw 15-2-9-17). On 4/2/09 the csg was pressured up to 1440 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was not an EPA representative available to witness the test. Final Report EPA# UT20776-08390 API# 43-047-33239 **Finalized**

Daily Cost: \$0**Cumulative Cost:** \$59,145

Pertinent Files: Go to File List



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

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

APR 29 2010

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Michael Guinn
District Manager
Newfield Production Company
Route 3 – Box 3630
Myton, UT 84052

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

RE: Underground Injection Control (UIC)
Limited Authorization to Inject
EPA UIC Permit UT20776-08390
Well: Castle Draw 15-2-9-17
SWSE Sec. 2-T9S-R17E
Uintah County, Utah
API No.: 43-047-33239

Dear Mr. Guinn:

The Environmental Protection Agency Region 8 (EPA) has received Newfield Production Company's (Newfield) March 29, 2010, letter with enclosures. The enclosed Part I (internal) Mechanical Integrity test, Well Rework Record (EPA Form 7520-12), schematic diagram, and calculated pore pressure were reviewed and approved by EPA, satisfactorily completing all Prior to Commencing Injection Requirements for UIC Permit UT20776-08390.

As of the date of this letter, Newfield is authorized to commence injection into the Castle Draw 15-2-9-17 well at a Maximum Allowable Injection Pressure (MAIP) of 1,255 psig for a limited period of 180 days, during which time a Radioactive Tracer Survey (RTS) is required. If Newfield seeks a higher MAIP than 1,255 psig, it may be advantageous to run a step rate test prior to conducting the RTS because a RTS conducted at the higher MAIP will be required. Newfield must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

Please remember that it is Newfield's responsibility to be aware of and to comply with all conditions of Permit UT20776-08390.

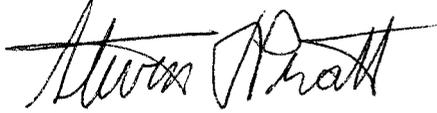
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MAY 12 2010

DIV. OF OIL, GAS & MINING

If you have questions regarding the above action, please call Jason Deardorff at 303-312-6583 or 1-800-227-8917, ext. 312-6583. The RTS log with interpretation should be mailed to Jason Deardorff at the letterhead address, citing mail code 8P-W-GW.

Sincerely,



for

Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

FOR RECORD
COURTESY OF
JASON DEARDORFF

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:
UTAH STATE ML-4555

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
GMBU

1. TYPE OF WELL: OIL WELL GAS WELL OTHER

8. WELL NAME and NUMBER:
CASTLE DRAW 15-2-9-17

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
4304733239

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

10. FIELD AND POOL, OR WILDCAT:
GREATER MB UNIT

4. LOCATION OF WELL:
FOOTAGES AT SURFACE: 661 FSL 1980 FEL
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWSE, 2, T9S, 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 05/06/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion:	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Put on Injection
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

The above reference well was put on injection at 2:00 PM on 05-06-2010.

EPA # UT20776-08390 API # 43-047-33239

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

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant

SIGNATURE *Lucy Chavez-Naupoto* DATE 05/10/2010

(This space for State use only)

**RECEIVED
MAY 13 2010
DIV. OF OIL, GAS & MINING**

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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTAH STATE ML-45555
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT OR CA AGREEMENT NAME: GMBU
8. WELL NAME and NUMBER: CASTLE DRAW 15-2-9-17
9. API NUMBER: 4304733239
10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT

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 GAS WELL OTHER WI

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

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

4. LOCATION OF WELL:
 FOOTAGES AT SURFACE: 661 FSL 1980 FEL COUNTY: UINTAH
 OTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE, 2, T9S, 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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: <u>09/02/2010</u>	<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: - Step Rate Test
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

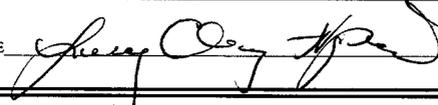
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A step rate test was conducted on the subject well on September 2, 2010. Results from the test indicate that the fracture gradient is 0.709 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed from 1255 psi to 1470 psi.

EPA: UT20776-08390 API: 43-047-33239

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

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant

SIGNATURE  DATE 09/27/2010

(This space for State use only)

RECEIVED
SEP 30 2010
 DIV. OF OIL, GAS & MINING

Step Rate Test (SRT) Analysis

Date: 09/03/2010

Operator:

Newfield Production Company

Well:

Castle Draw 15-2-9-17

Permit #:

UT # 20776-08390

Enter the following data :

Specific Gravity (sg) of injectate =	<u>0.801</u>	g/cc	
Depth to top perforation (D) =	<u>4063</u>	feet	4063
Top of permitted injection zone depth (blank=use top perforation to calculate fg) =		feet	
Estimated Formation Parting Pressure (Pfp) from SRT chart =	<u>1470</u>	psi	
Instantaneous Shut In Pressure (ISIP) from SRT =	<u>1499</u>	psi	1470
Bottom Hole Parting Pressure (Pbhp) from downhole pressure recorder =		psi	no downhole

Part One - Calculation of Fracture Gradient (fg)

Calculated Fracture Gradient = 0.709 psi/ft.

where: fg = Pbhp / D (Note: this formula uses the downhole recorded bottom hole parting pressure if available) = 1499

D = depth used = 4063

Pbhp used = 2879

Calculated Bottom Hole Parting Pressure (Pbhp) = 2879 psi

to calculate Bottom Hole Parting Pressure (Pbhp) = Formation Fracture Pressure (ISIP or Pfp) + (0.433 * SG * D)

(Use lesser of ISIP or Pfp) Value used = 1470

2879.182

Part Two - Calculation of Maximum Allowable Injection Pressure (MAIP)

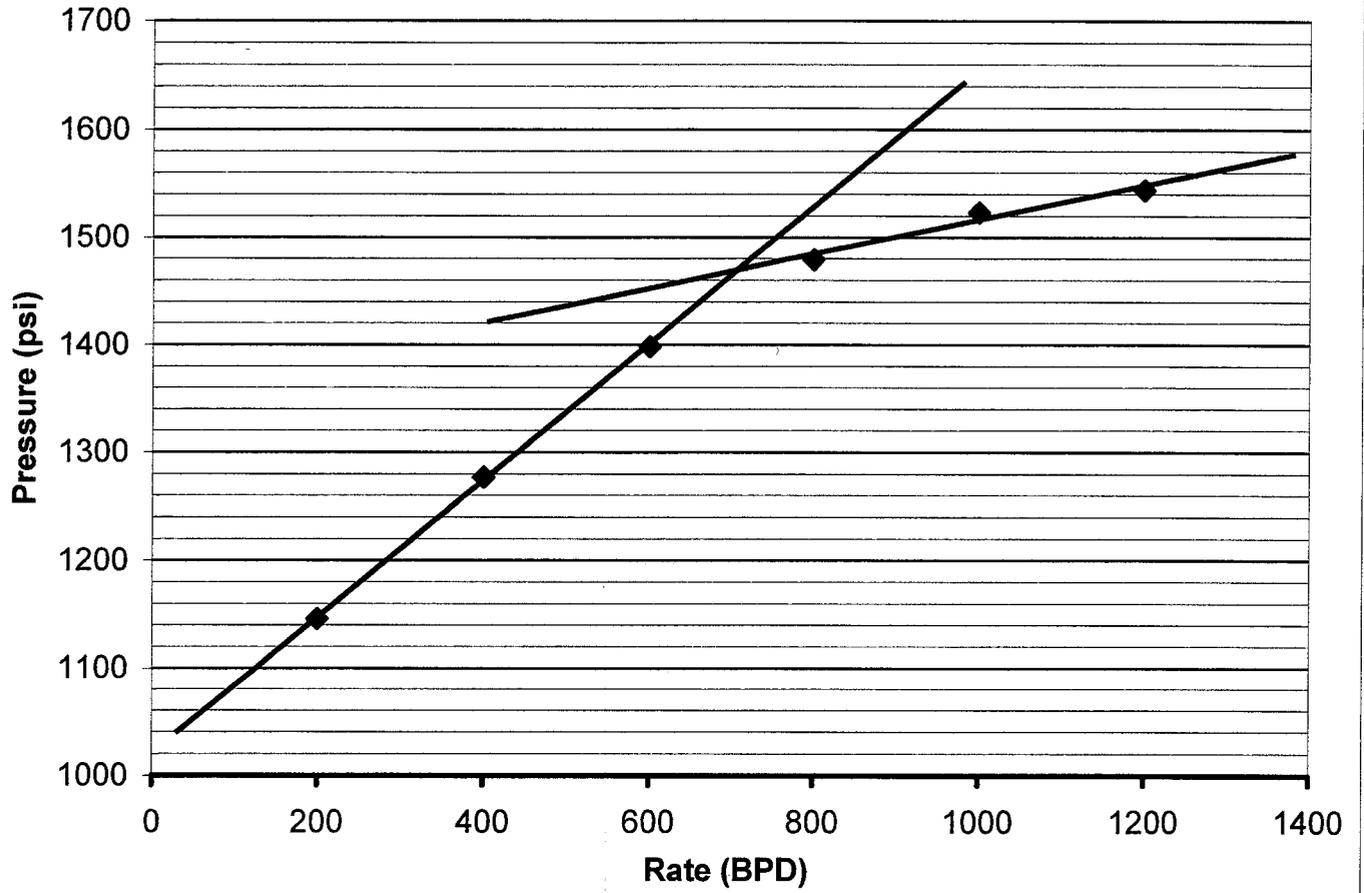
Maximum Allowable Injection Pressure (MAIP) = 1470 psig

D = depth used = 4063

MAIP = [fg * (0.433 * SG)] * D = 1471.485

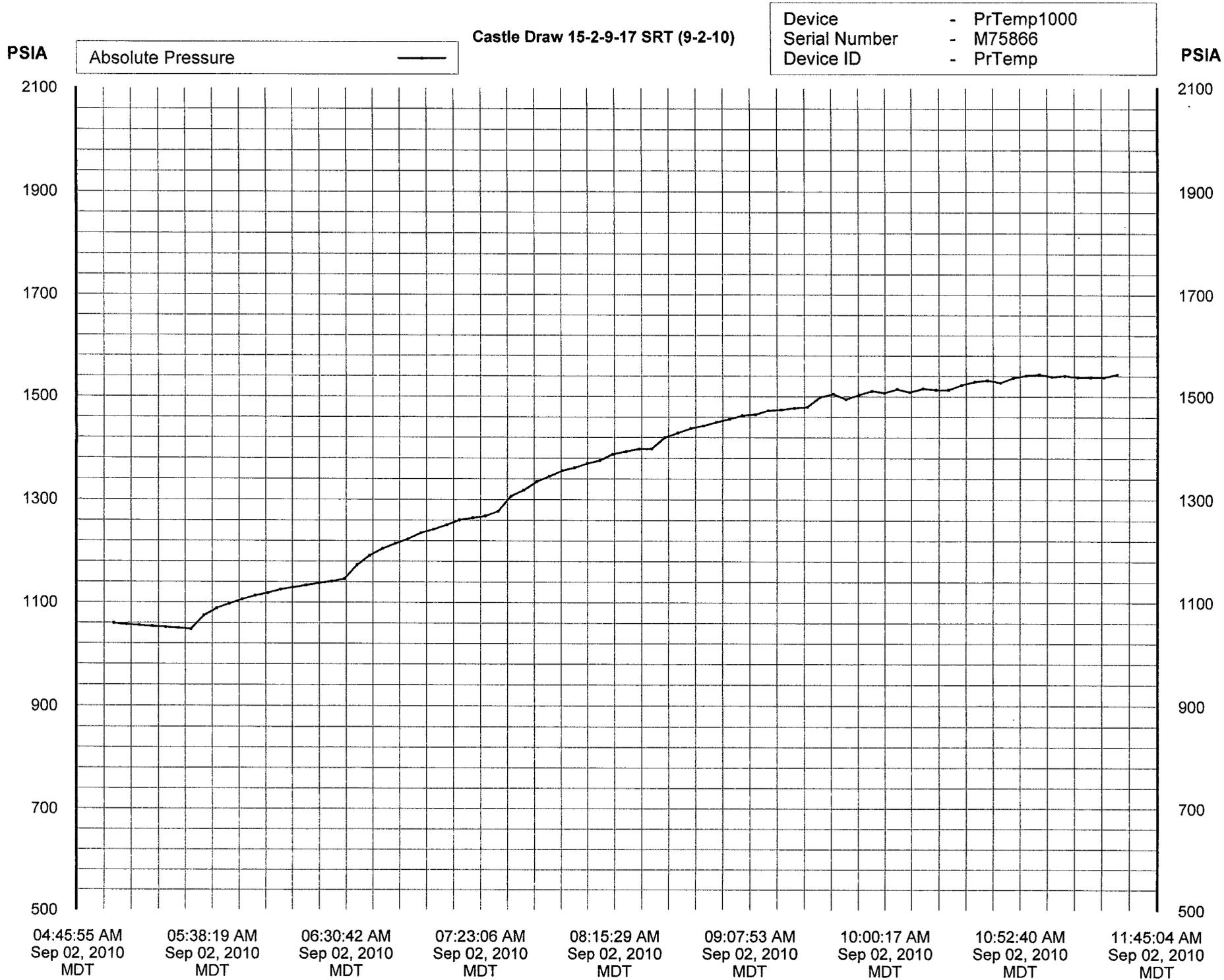
(rounded down to nearest 5 psig)

**Castle Draw 15-2-9-17
Greater Monument Butte Unit
Step Rate Test
September 2, 2010**



Start Pressure: 1048 psi
Instantaneous Shut In Pressure (ISIP): 1499 psi
Top Perforation: 4063 feet
Fracture pressure (Pfp): 1470 psi
FG: 0.801 psi/ft

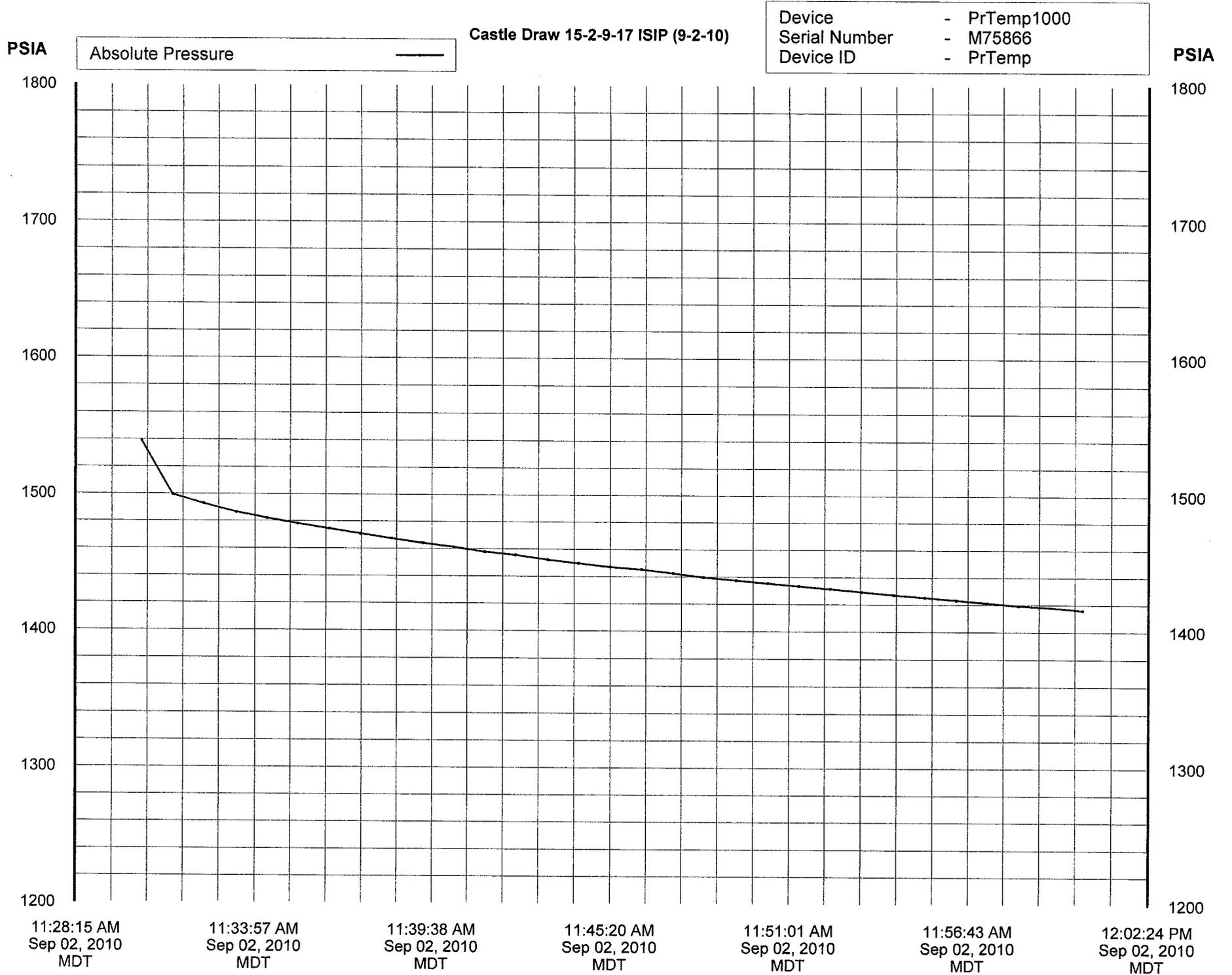
<u>Step</u>	<u>Rate(bpd)</u>	<u>Pressure(psi)</u>
1	200	1146
2	400	1277
3	600	1398
4	800	1479
5	1000	1523
6	1200	1544



Report Name: PrTemp1000 Data Table
 Report Date: Sep 03, 2010 08:23:43 AM MDT
 File Name: C:\Program Files\PTC\Instruments 2.00\Castle Draw 15-2-9-17 SRT (9-2-10).csv
 Title: Castle Draw 15-2-9-17 SRT (9-2-10)
 Device: PrTemp1000 - Temperature and Pressure Recorder
 Hardware Revision: REV2C (64K)
 Serial Number: M75866
 Device ID: PrTemp
 Data Start Date: Sep 02, 2010 05:00:00 AM MDT
 Data End Date: Sep 02, 2010 11:30:01 AM MDT
 Reading Rate: 2 Seconds
 Readings: 1 to 79 of 79
 Last Calibration Date: May 22, 2009
 Next Calibration Date: May 22, 2010

<u>Reading</u>	<u>Date and Time (MDT)</u>	<u>Absolute Pressure</u>	<u>Annotation</u>
1	Sep 02, 2010 05:00:00 AM	1059.200	PSIA
2	Sep 02, 2010 05:05:00 AM	1056.600	PSIA
3	Sep 02, 2010 05:10:00 AM	1055.000	PSIA
4	Sep 02, 2010 05:15:00 AM	1053.000	PSIA
5	Sep 02, 2010 05:20:01 AM	1051.400	PSIA
6	Sep 02, 2010 05:25:00 AM	1050.000	PSIA
7	Sep 02, 2010 05:30:01 AM	1047.600	PSIA
8	Sep 02, 2010 05:35:00 AM	1073.800	PSIA
9	Sep 02, 2010 05:40:01 AM	1088.200	PSIA
10	Sep 02, 2010 05:45:00 AM	1097.200	PSIA
11	Sep 02, 2010 05:50:00 AM	1105.400	PSIA
12	Sep 02, 2010 05:55:00 AM	1113.000	PSIA
13	Sep 02, 2010 06:00:00 AM	1118.000	PSIA
14	Sep 02, 2010 06:05:01 AM	1125.000	PSIA
15	Sep 02, 2010 06:10:01 AM	1129.200	PSIA
16	Sep 02, 2010 06:15:01 AM	1133.400	PSIA
17	Sep 02, 2010 06:20:00 AM	1137.800	PSIA
18	Sep 02, 2010 06:25:01 AM	1140.800	PSIA
19	Sep 02, 2010 06:30:00 AM	1145.800	PSIA
20	Sep 02, 2010 06:35:00 AM	1173.000	PSIA
21	Sep 02, 2010 06:40:01 AM	1191.400	PSIA
22	Sep 02, 2010 06:45:01 AM	1205.200	PSIA
23	Sep 02, 2010 06:50:02 AM	1215.000	PSIA
24	Sep 02, 2010 06:55:01 AM	1224.000	PSIA
25	Sep 02, 2010 07:00:01 AM	1235.400	PSIA
26	Sep 02, 2010 07:05:01 AM	1242.600	PSIA
27	Sep 02, 2010 07:10:01 AM	1251.200	PSIA
28	Sep 02, 2010 07:15:00 AM	1260.400	PSIA
29	Sep 02, 2010 07:20:00 AM	1264.400	PSIA
30	Sep 02, 2010 07:25:00 AM	1268.200	PSIA
31	Sep 02, 2010 07:30:00 AM	1277.200	PSIA
32	Sep 02, 2010 07:35:02 AM	1306.000	PSIA
33	Sep 02, 2010 07:40:01 AM	1317.800	PSIA
34	Sep 02, 2010 07:45:01 AM	1334.200	PSIA
35	Sep 02, 2010 07:50:01 AM	1344.400	PSIA
36	Sep 02, 2010 07:55:02 AM	1355.400	PSIA
37	Sep 02, 2010 08:00:01 AM	1361.200	PSIA
38	Sep 02, 2010 08:05:01 AM	1369.800	PSIA
39	Sep 02, 2010 08:10:01 AM	1375.600	PSIA
40	Sep 02, 2010 08:15:00 AM	1387.400	PSIA
41	Sep 02, 2010 08:20:01 AM	1392.800	PSIA
42	Sep 02, 2010 08:25:01 AM	1397.800	PSIA
43	Sep 02, 2010 08:30:01 AM	1398.200	PSIA
44	Sep 02, 2010 08:35:00 AM	1419.600	PSIA
45	Sep 02, 2010 08:40:01 AM	1428.600	PSIA
46	Sep 02, 2010 08:45:01 AM	1437.600	PSIA
47	Sep 02, 2010 08:50:01 AM	1442.800	PSIA
48	Sep 02, 2010 08:55:01 AM	1449.800	PSIA
49	Sep 02, 2010 09:00:01 AM	1455.600	PSIA
50	Sep 02, 2010 09:05:02 AM	1462.600	PSIA
51	Sep 02, 2010 09:10:01 AM	1464.600	PSIA
52	Sep 02, 2010 09:15:02 AM	1472.200	PSIA
53	Sep 02, 2010 09:20:01 AM	1473.800	PSIA
54	Sep 02, 2010 09:25:02 AM	1477.200	PSIA
55	Sep 02, 2010 09:30:01 AM	1479.400	PSIA
56	Sep 02, 2010 09:35:01 AM	1498.600	PSIA
57	Sep 02, 2010 09:40:03 AM	1505.000	PSIA
58	Sep 02, 2010 09:45:01 AM	1494.400	PSIA
59	Sep 02, 2010 09:50:02 AM	1503.200	PSIA
60	Sep 02, 2010 09:55:01 AM	1510.800	PSIA

61	Sep 02, 2010 10:00:01 AM	1507.200	PSIA
62	Sep 02, 2010 10:05:00 AM	1514.400	PSIA
63	Sep 02, 2010 10:10:02 AM	1508.600	PSIA
64	Sep 02, 2010 10:15:01 AM	1515.600	PSIA
65	Sep 02, 2010 10:20:00 AM	1513.200	PSIA
66	Sep 02, 2010 10:25:00 AM	1513.200	PSIA
67	Sep 02, 2010 10:30:00 AM	1522.600	PSIA
68	Sep 02, 2010 10:35:02 AM	1529.000	PSIA
69	Sep 02, 2010 10:40:00 AM	1531.600	PSIA
70	Sep 02, 2010 10:45:01 AM	1527.200	PSIA
71	Sep 02, 2010 10:50:01 AM	1536.200	PSIA
72	Sep 02, 2010 10:55:02 AM	1541.000	PSIA
73	Sep 02, 2010 11:00:00 AM	1543.200	PSIA
74	Sep 02, 2010 11:05:00 AM	1538.600	PSIA
75	Sep 02, 2010 11:10:00 AM	1540.600	PSIA
76	Sep 02, 2010 11:15:00 AM	1537.400	PSIA
77	Sep 02, 2010 11:20:02 AM	1537.200	PSIA
78	Sep 02, 2010 11:25:00 AM	1537.800	PSIA
79	Sep 02, 2010 11:30:01 AM	1543.600	PSIA



Report Name: PrTemp1000 Data Table
 Report Date: Sep 03, 2010 08:23:35 AM MDT
 File Name: C:\Program Files\PTC\Instruments 2.00\Castle Draw 15-2-9-17 ISIP (9-2-10).csv
 Title: Castle Draw 15-2-9-17 ISIP (9-2-10)
 Device: PrTemp1000 - Temperature and Pressure Recorder
 Hardware Revision: REV2C (64K)
 Serial Number: M75866
 Device ID: PrTemp
 Data Start Date: Sep 02, 2010 11:30:20 AM MDT
 Data End Date: Sep 02, 2010 12:00:22 PM MDT
 Reading Rate: 2 Seconds
 Readings: 1 to 31 of 31
 Last Calibration Date: May 22, 2009
 Next Calibration Date: May 22, 2010

<u>Reading</u>	<u>Date and Time (MDT)</u>	<u>Absolute Pressure</u>	<u>Annotation</u>
1	Sep 02, 2010 11:30:20 AM	1539.200	PSIA
2	Sep 02, 2010 11:31:20 AM	1499.400	PSIA
3	Sep 02, 2010 11:32:19 AM	1492.800	PSIA
4	Sep 02, 2010 11:33:21 AM	1486.600	PSIA
5	Sep 02, 2010 11:34:20 AM	1482.000	PSIA
6	Sep 02, 2010 11:35:19 AM	1478.200	PSIA
7	Sep 02, 2010 11:36:20 AM	1474.400	PSIA
8	Sep 02, 2010 11:37:20 AM	1470.800	PSIA
9	Sep 02, 2010 11:38:20 AM	1467.400	PSIA
10	Sep 02, 2010 11:39:21 AM	1464.000	PSIA
11	Sep 02, 2010 11:40:20 AM	1461.200	PSIA
12	Sep 02, 2010 11:41:20 AM	1457.800	PSIA
13	Sep 02, 2010 11:42:19 AM	1455.600	PSIA
14	Sep 02, 2010 11:43:20 AM	1452.200	PSIA
15	Sep 02, 2010 11:44:20 AM	1449.600	PSIA
16	Sep 02, 2010 11:45:19 AM	1447.000	PSIA
17	Sep 02, 2010 11:46:20 AM	1445.200	PSIA
18	Sep 02, 2010 11:47:20 AM	1442.400	PSIA
19	Sep 02, 2010 11:48:19 AM	1439.600	PSIA
20	Sep 02, 2010 11:49:20 AM	1437.400	PSIA
21	Sep 02, 2010 11:50:21 AM	1435.400	PSIA
22	Sep 02, 2010 11:51:20 AM	1433.400	PSIA
23	Sep 02, 2010 11:52:20 AM	1431.400	PSIA
24	Sep 02, 2010 11:53:20 AM	1429.200	PSIA
25	Sep 02, 2010 11:54:21 AM	1427.000	PSIA
26	Sep 02, 2010 11:55:20 AM	1425.200	PSIA
27	Sep 02, 2010 11:56:20 AM	1423.200	PSIA
28	Sep 02, 2010 11:57:20 AM	1421.200	PSIA
29	Sep 02, 2010 11:58:19 AM	1419.400	PSIA
30	Sep 02, 2010 11:59:21 AM	1418.000	PSIA
31	Sep 02, 2010 12:00:22 PM	1416.000	PSIA

Castle Draw 15-2-9-17 Rate Sheet (9-2-10)

<i>Step # 1</i>	Time:	5:35	5:40	5:45	5:50	5:55	6:00
	Rate:	200.8	200.8	200.8	200.7	200.7	200.6
	Time:	6:05	6:10	6:15	6:20	6:25	6:30
	Rate:	200.6	200.6	200.6	200.6	200.5	200.5
<i>Step # 2</i>	Time:	6:35	6:40	6:45	6:50	6:55	7:00
	Rate:	400.5	400.5	400.4	400.4	400.4	400.4
	Time:	7:05	7:10	7:15	7:20	7:25	7:30
	Rate:	400.3	400.3	400.3	400.2	400.2	400.2
<i>Step # 3</i>	Time:	7:35	7:40	7:45	7:50	7:55	8:00
	Rate:	600.5	600.5	600.6	600.5	600.4	600.4
	Time:	8:05	8:10	8:15	8:20	8:25	8:30
	Rate:	600.4	600.4	600.4	600.3	600.3	600.3
<i>Step # 4</i>	Time:	8:35	8:40	8:45	8:50	8:55	9:00
	Rate:	800.7	800.7	800.7	800.7	800.6	800.6
	Time:	9:05	9:10	9:15	9:20	9:25	9:30
	Rate:	800.5	800.5	800.5	800.4	800.4	800.3
<i>Step # 5</i>	Time:	9:35	9:40	9:45	9:50	9:55	10:00
	Rate:	1000.5	1000.5	1000.4	1000.4	1000.4	1000.3
	Time:	10:05	10:10	10:15	10:20	10:25	10:30
	Rate:	1000.3	1000.3	1000.3	1000.2	1000.2	1000.2
<i>Step # 6</i>	Time:	10:35	10:40	10:45	10:50	10:55	11:00
	Rate:	1200.6	1200.6	1200.6	1200.6	1200.6	1200.5
	Time:	11:05	11:10	11:15	11:20	11:25	11:30
	Rate:	1200.5	1200.5	1200.4	1200.4	1200.3	1200.3
	Time:						
	Rate:						
	Time:						
	Rate:						
	Time:						
	Rate:						
	Time:						
	Rate:						



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

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

OCT 18 2010

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Michael Guinn
District Manager
Newfield Production Company
Route 3-Box 3630
Myton, UT 84502

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

RE: Underground Injection Control (UIC)
Minor Permit Modification
Authorization to Continue Injection
EPA UIC Permit UT20776-08390
Well: Castle Draw 15-2-9-17
SWSE Sec. 2-T9S-R17E
Utah ~~Duchesne~~ County, UT
API No.: 43-013-33239
047

Dear Mr. Guinn:

The U.S. Environmental Protection Agency (EPA), Region 8, has received Newfield Production Company's (Newfield) February 10, 2010, letter with enclosures requesting an increase in the Maximum Allowable Injection Pressure (MAIP) for the Harbourtown Federal 21-33-8-17 well. The enclosed Step Rate Test (SRT) and Radioactive Tracer Survey (RTS) results were reviewed and approved by EPA. Newfield's interpretation of the enclosed Step Rate Test (SRT) data concluded the fracture gradient to be 0.709 psi/ft. However, EPA's analysis of the data determined the fracture gradient to be 0.802 psi/ft., resulting in a calculated MAIP of 1,465 psig. The MAIP for UIC Permit UT20776-08390 is hereby increased to 1,465 psig from the 1,255 psig previously authorized.

As of the date of this letter, EPA authorizes continued injection into the Castle Draw 15-2-9-17 well under the terms and conditions of UIC Permit UT20776-08390 at the MAIP of 1,465 psig.

RECEIVED
OCT 27 2010
DIV. OF OIL, GAS & MINING

You may apply for a higher MAIP at a later date. Your application should be accompanied by the interpreted results of a SRT that measures the fracture parting pressure and determines the fracture gradient at the injection depth and location. A current copy of EPA guidelines for running and interpreting a SRT will be sent upon request. Should the SRT result in a request for a higher MAIP, a RTS conducted at the new MAIP is required.

As of this approval, responsibility for permit compliance and enforcement is transferred to the EPA Region 8 UIC Technical Enforcement Program Office. Therefore, please direct all future notification, reporting, monitoring and compliance correspondence to the following address, referencing the well name and UIC Permit number on all correspondence regarding this well:

US EPA, Region 8
Attn: Nathan Wiser
MC: ENF-UFO
1595 Wynkoop Street
Denver, CO 80202

For questions regarding notification, testing, monitoring, reporting or other permit requirements, Nathan Wiser of the UIC Technical Enforcement Program may be reached by calling 800-227-8917 (ext. 312-6211). Please be reminded that it is your responsibility to be aware of and to comply with all conditions of your Permit.

If you have any questions regarding this approval, please call Emmett Schmitz at 303-312-6174 or 800-227-8917 (ext. 312-6174).

Sincerely,



for
Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:
Frances Poowegup, Vice-Chairwoman
Curtis Cesspooch, Councilman
Phillip Chimburas, Councilman
Stewart Pike, Councilman
Irene Cuch, Councilwoman
Richard Jenks, Jr., Councilman

Daniel Picard
BIA - Uintah & Ouray Indian Agency

Mike Natchees
Environmental Coordinator
Ute Indian Tribe

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

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

Fluid Minerals Engineering Office
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst
Newfield Production Company
Denver, CO

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-45555
1. TYPE OF WELL Water Injection Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052		8. WELL NAME and NUMBER: CASTLE DRAW 15-2-9-17
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0661 FSL 1980 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 02 Township: 09.0S Range: 17.0E Meridian: S		9. API NUMBER: 43047332390000
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
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 type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <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"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/8/2012	<input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	OTHER: <input type="text" value="Step Rate Test"/>	
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. A step rate test was conducted on the subject well on March 8, 2012. Results from the test indicate that the fracture gradient is 0.865 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed from 1465 psi to 1725 psi. EPA: <div style="text-align: center;"> UT20776-08390 </div> <div style="text-align: right; margin-top: 20px;"> Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 09, 2012 </div>		
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 3/27/2012	

Step Rate Test (SRT) Analysis

Date: 03/09/2012

Operator: Newfield Production Company

Well: Castle Draw 15-2-9-17

Permit #: UT20776-08390

Enter the following data :

	Specific Gravity (sg) of injectate =	<u>1.015</u>	g/cc	
	Depth to top perforation (D) =	<u>4063</u>	feet	4063
Top of permitted injection zone depth (blank=use top perforation to calculate fg) = _____ feet				
	Estimated Formation Parting Pressure (P _{fp}) from SRT chart =	<u>1730</u>	psi	
	Instantaneous Shut In Pressure (ISIP) from SRT =	<u>1783</u>	psi	1730
	Bottom Hole Parting Pressure (P _{bhp}) from downhole pressure recorder =	_____	psi	no downhole

Part One - Calculation of Fracture Gradient (fg)

Calculated Fracture Gradient = 0.865 psi/ft.

where: fg = P_{bhp} / D (Note: this formula uses the downhole recorded bottom hole parting pressure if available) = 1783

D = depth used = 4063

P_{bhp} used = 3516

Calculated Bottom Hole Parting Pressure (P_{bhp}) = 3516 psi

3515.668

to calculate Bottom Hole Parting Pressure (P_{bhp}) = Formation Fracture Pressure (ISIP or P_{fp}) + (0.433 * SG * D)

(Uses lesser of ISIP or P_{fp}) Value used = 1730

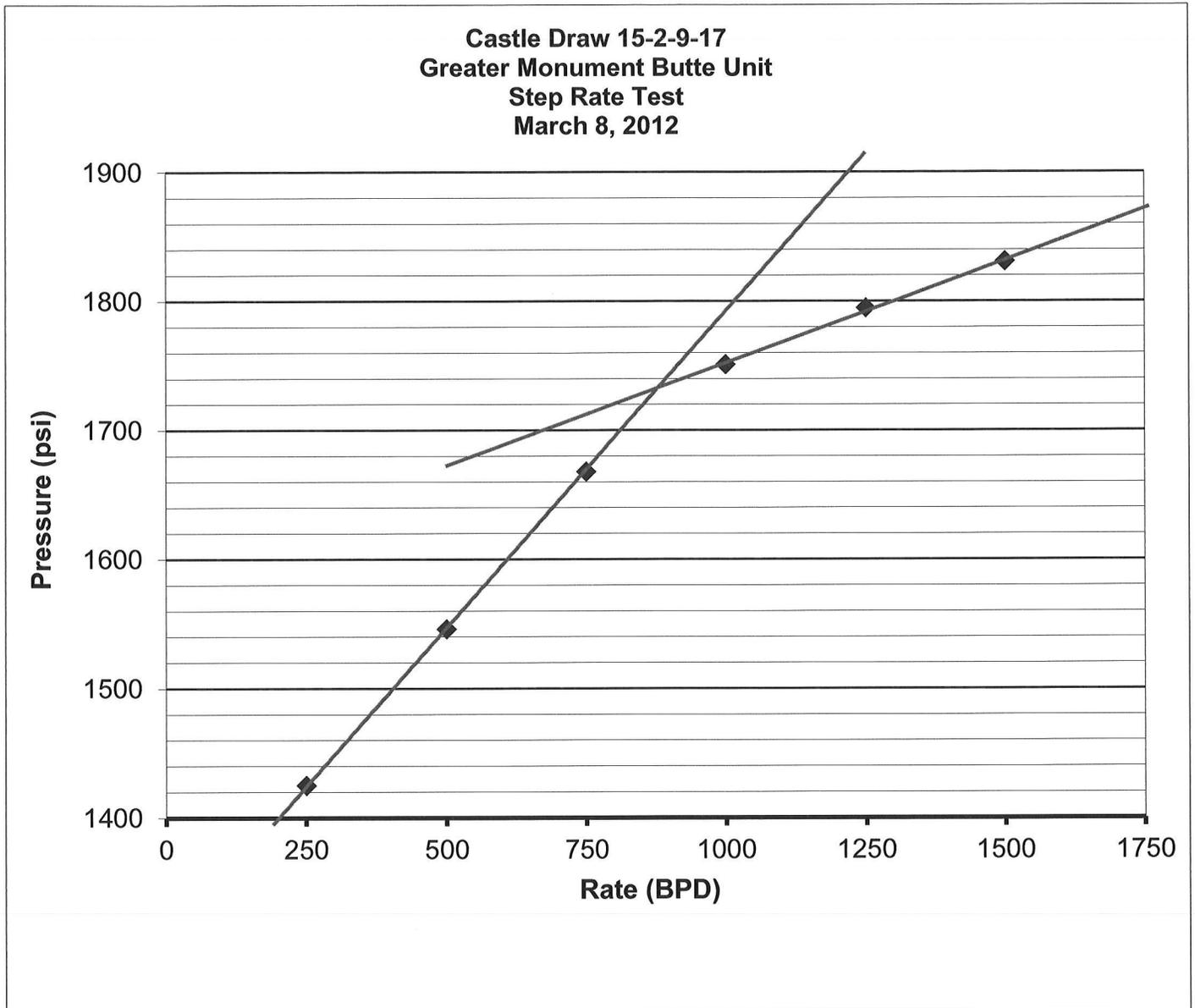
Part Two - Calculation of Maximum Allowable Injection Pressure (MAIP)

Maximum Allowable Injection Pressure (MAIP) = 1725 psig

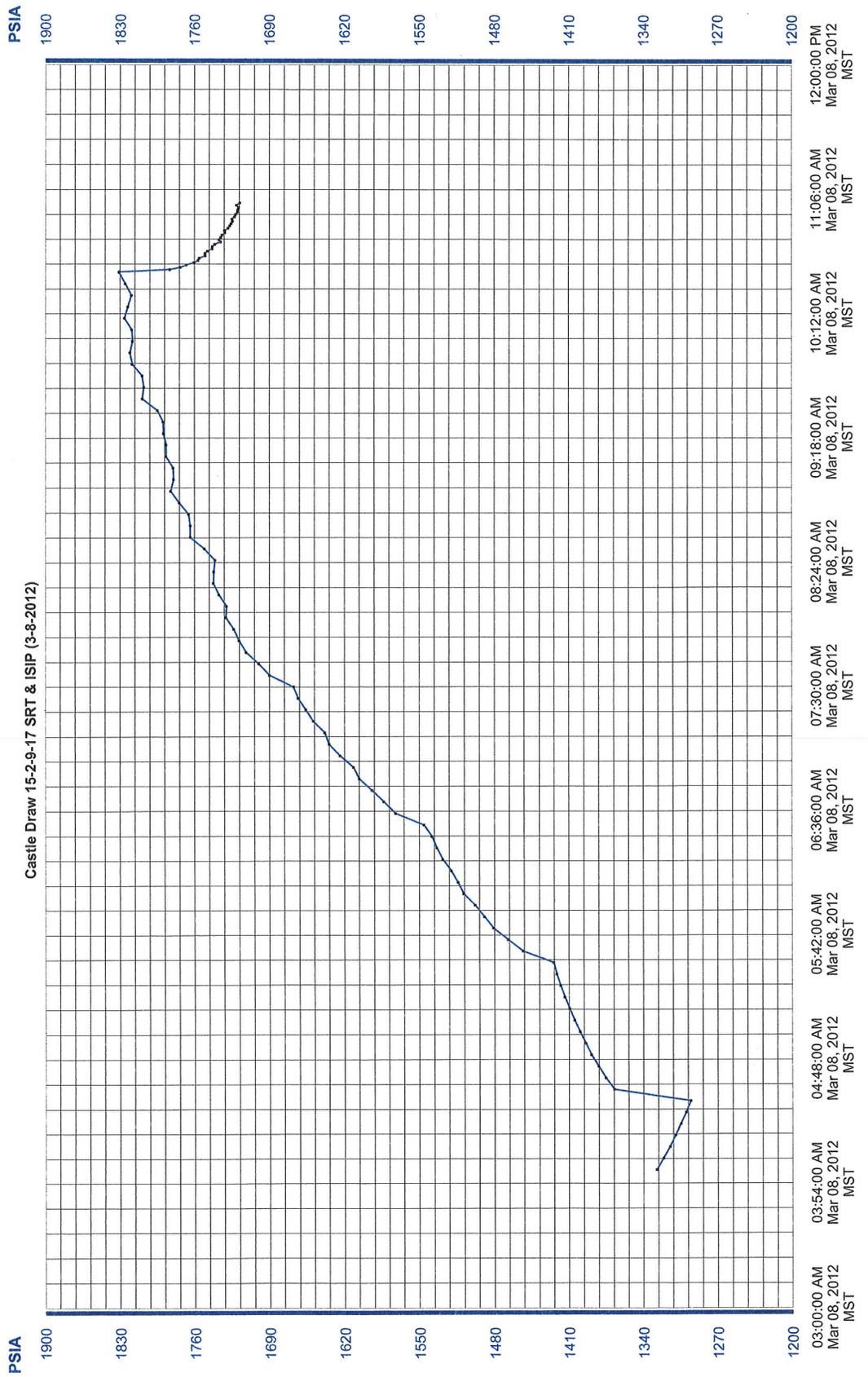
D = depth used = 4063

MAIP = ((fg - (0.433 * SG)) * D = 1728.827

(rounded down to nearest 5 psig)



Start Pressure:	1296 psi	Step	Rate(bpd)	Pressure(psi)
Instantaneous Shut In Pressure (ISIP):	1783 psi	1	250	1425
Top Perforation:	4063 feet	2	500	1546
Fracture pressure (Pfp):	1730 psi	3	750	1668
FG:	0.865 psi/ft	4	1000	1751
		5	1250	1795
		6	1500	1831



Data Table Report

Report Name: PrTemp1000 Data Table
 Report Date: 03/09/2012 10:30:29
 File Name: C:\Program Files\PTC® Instruments 2.03.12\
 Castle Draw 15-2-9-17 SRT (3-8-12).csv
 Device: PrTemp1000 - Temperature and Pressure Recorder
 Hardware Revision: REV2C (64K)
 Serial Number: M75866
 Device ID: PrTemp
 Data Start Date: Mar 08, 2012 03:59:59 AM MST
 Data End Date: Mar 08, 2012 10:29:59 AM MST
 Reading: 1 to 79 of 79
 Reading Rate: 2 Seconds
 Last Calibration Date: Apr 12, 2011
 Next Calibration Date: Apr 12, 2012
 Next Calibration Date: Apr 12, 2012

Castle Draw 15-2-9-17 SRT (3-8-2012)

Unit Type (All Units)

Reading	DateTime (MST)	Channel 2 PSIA
---------	----------------	-------------------

1	Mar 08, 2012 03:59:59 AM	1327.6
2	Mar 08, 2012 04:04:59 AM	1321.2
3	Mar 08, 2012 04:09:59 AM	1315.2
4	Mar 08, 2012 04:14:59 AM	1310
5	Mar 08, 2012 04:19:59 AM	1305
6	Mar 08, 2012 04:24:59 AM	1300
7	Mar 08, 2012 04:29:59 AM	1295.6
8	Mar 08, 2012 04:34:59 AM	1367.6
9	Mar 08, 2012 04:39:59 AM	1375.6
10	Mar 08, 2012 04:44:59 AM	1382.4
11	Mar 08, 2012 04:49:59 AM	1389
12	Mar 08, 2012 04:54:59 AM	1394.4
13	Mar 08, 2012 04:59:59 AM	1399.8
14	Mar 08, 2012 05:04:59 AM	1405
15	Mar 08, 2012 05:09:59 AM	1409.6
16	Mar 08, 2012 05:14:59 AM	1414
17	Mar 08, 2012 05:19:59 AM	1418
18	Mar 08, 2012 05:24:59 AM	1421.8
19	Mar 08, 2012 05:29:59 AM	1424.6
20	Mar 08, 2012 05:34:59 AM	1453.2
21	Mar 08, 2012 05:39:59 AM	1467.4
22	Mar 08, 2012 05:44:59 AM	1481
23	Mar 08, 2012 05:49:59 AM	1489.4
24	Mar 08, 2012 05:54:59 AM	1498.2
25	Mar 08, 2012 05:59:59 AM	1508.8
26	Mar 08, 2012 06:04:59 AM	1514
27	Mar 08, 2012 06:09:59 AM	1520.2
28	Mar 08, 2012 06:14:59 AM	1528.2
29	Mar 08, 2012 06:19:59 AM	1533.8
30	Mar 08, 2012 06:24:59 AM	1538.4
31	Mar 08, 2012 06:29:59 AM	1545.8
32	Mar 08, 2012 06:34:58 AM	1572
33	Mar 08, 2012 06:39:59 AM	1583.2
34	Mar 08, 2012 06:44:59 AM	1594.2
35	Mar 08, 2012 06:49:59 AM	1606.2
36	Mar 08, 2012 06:54:59 AM	1611.6
37	Mar 08, 2012 06:59:59 AM	1624.2
38	Mar 08, 2012 07:04:59 AM	1634.4

Castle Draw 15-2-9-17 SRT (3-8-2012)

Unit Type (All Units)

Reading	DateTime (MST)	Channel 2 PSIA
39	Mar 08, 2012 07:09:59 AM	1638.4
40	Mar 08, 2012 07:14:59 AM	1649.2
41	Mar 08, 2012 07:19:59 AM	1656.2
42	Mar 08, 2012 07:24:59 AM	1663.4
43	Mar 08, 2012 07:29:59 AM	1667.6
44	Mar 08, 2012 07:34:59 AM	1690
45	Mar 08, 2012 07:39:59 AM	1700
46	Mar 08, 2012 07:44:59 AM	1711.8
47	Mar 08, 2012 07:49:59 AM	1718.4
48	Mar 08, 2012 07:54:59 AM	1723.4
49	Mar 08, 2012 07:59:59 AM	1730.8
50	Mar 08, 2012 08:04:59 AM	1730.2
51	Mar 08, 2012 08:09:59 AM	1737.2
52	Mar 08, 2012 08:14:59 AM	1742.4
53	Mar 08, 2012 08:19:59 AM	1742
54	Mar 08, 2012 08:24:59 AM	1740.8
55	Mar 08, 2012 08:29:59 AM	1750.8
56	Mar 08, 2012 08:34:59 AM	1764
57	Mar 08, 2012 08:39:59 AM	1764
58	Mar 08, 2012 08:44:59 AM	1765.6
59	Mar 08, 2012 08:49:59 AM	1774.6
60	Mar 08, 2012 08:54:59 AM	1782.6
61	Mar 08, 2012 08:59:59 AM	1779.8
62	Mar 08, 2012 09:04:59 AM	1780.2
63	Mar 08, 2012 09:09:59 AM	1787
64	Mar 08, 2012 09:14:58 AM	1786.8
65	Mar 08, 2012 09:19:59 AM	1789.2
66	Mar 08, 2012 09:24:59 AM	1789.6
67	Mar 08, 2012 09:29:59 AM	1795
68	Mar 08, 2012 09:34:59 AM	1809.2
69	Mar 08, 2012 09:39:59 AM	1807.8
70	Mar 08, 2012 09:44:59 AM	1809.4
71	Mar 08, 2012 09:49:59 AM	1818.8
72	Mar 08, 2012 09:54:59 AM	1820.8
73	Mar 08, 2012 09:59:59 AM	1818.4
74	Mar 08, 2012 10:04:59 AM	1819.2
75	Mar 08, 2012 10:09:59 AM	1826
76	Mar 08, 2012 10:14:59 AM	1822.8
77	Mar 08, 2012 10:19:59 AM	1819.4
78	Mar 08, 2012 10:24:59 AM	1825.2
79	Mar 08, 2012 10:29:59 AM	1831.2

End of Report

Data Table Report

Report Name: PrTemp1000 Data Table
 Report Date: 03/09/2012 10:35:41
 File Name: C:\Program Files\PTC® Instruments 2.03.12\
 Castle Draw 15-2-9-17 ISIP (3-8-12).csv
 Device: PrTemp1000 - Temperature and Pressure Recorder
 Hardware Revision: REV2C (64K)
 Serial Number: M75866
 Device ID: PrTemp
 Data Start Date: Mar 08, 2012 10:30:10 AM MST
 Data End Date: Mar 08, 2012 11:00:11 AM MST
 Reading: 1 to 31 of 31
 Reading Rate: 2 Seconds
 Last Calibration Date: Apr 12, 2011
 Next Calibration Date: Apr 12, 2012
 Next Calibration Date: Apr 12, 2012

Castle Draw 15-2-9-17 ISIP (3-8-2012)

Unit Type	(All Units)	
Reading	DateTime (MST)	Channel 2 PSIA
1	Mar 08, 2012 10:30:10 AM	1831
2	Mar 08, 2012 10:31:11 AM	1783.2
3	Mar 08, 2012 10:32:10 AM	1773.4
4	Mar 08, 2012 10:33:10 AM	1767.8
5	Mar 08, 2012 10:34:11 AM	1760.4
6	Mar 08, 2012 10:35:10 AM	1756.6
7	Mar 08, 2012 10:36:10 AM	1755.4
8	Mar 08, 2012 10:37:11 AM	1749.8
9	Mar 08, 2012 10:38:11 AM	1750
10	Mar 08, 2012 10:39:10 AM	1747.8
11	Mar 08, 2012 10:40:10 AM	1743.4
12	Mar 08, 2012 10:41:11 AM	1743.2
13	Mar 08, 2012 10:42:10 AM	1741
14	Mar 08, 2012 10:43:10 AM	1735.6
15	Mar 08, 2012 10:44:11 AM	1737
16	Mar 08, 2012 10:45:09 AM	1735.4
17	Mar 08, 2012 10:46:10 AM	1734.2
18	Mar 08, 2012 10:47:11 AM	1731.6
19	Mar 08, 2012 10:48:09 AM	1731.8
20	Mar 08, 2012 10:49:10 AM	1728.6
21	Mar 08, 2012 10:50:11 AM	1727
22	Mar 08, 2012 10:51:09 AM	1725.8
23	Mar 08, 2012 10:52:10 AM	1724.6
24	Mar 08, 2012 10:53:11 AM	1724.8
25	Mar 08, 2012 10:54:11 AM	1722.6
26	Mar 08, 2012 10:55:10 AM	1721.6
27	Mar 08, 2012 10:56:10 AM	1719.8
28	Mar 08, 2012 10:57:11 AM	1719.6
29	Mar 08, 2012 10:58:10 AM	1718.8
30	Mar 08, 2012 10:59:10 AM	1720.8
31	Mar 08, 2012 11:00:11 AM	1717.6

End of Report

Castle Draw 15-2-9-17 Rate Sheet (3-8-12)

<i>Step # 1</i>	Time:	4:35	4:40	4:45	4:50	4:55	5:00
	Rate:	250.5	250.5	250.5	250.5	250.4	250.4
	Time:	5:05	5:10	5:15	5:20	5:25	5:30
	Rate:	250.3	250.3	250.3	250.3	250.3	250.3
<i>Step # 2</i>	Time:	5:35	5:40	5:45	5:50	5:55	6:00
	Rate:	500.3	500.3	500.3	500.2	500.2	500.2
	Time:	6:05	6:10	6:15	6:20	6:25	6:30
	Rate:	500.2	500.1	500.1	500.1	500	500
<i>Step # 3</i>	Time:	6:35	6:40	6:45	6:50	6:55	7:00
	Rate:	750.6	750.6	750.5	750.5	750.5	750.4
	Time:	7:05	7:10	7:15	7:20	7:25	7:30
	Rate:	750.4	750.3	750.3	750.3	750.3	750.3
<i>Step # 4</i>	Time:	7:35	7:40	7:45	7:50	7:55	8:00
	Rate:	1000.8	1000.8	1000.8	1000.7	1000.5	1000.5
	Time:	8:05	8:10	8:15	8:20	8:25	8:30
	Rate:	1000.5	1000.4	1000.4	1000.3	1000.3	1000.3
<i>Step # 5</i>	Time:	8:35	8:40	8:45	8:50	8:55	9:00
	Rate:	1250.5	1250.5	1250.5	1250.4	1250.4	1250.4
	Time:	9:05	9:10	9:15	9:20	9:25	9:30
	Rate:	1250.4	1250.3	1250.3	1250.3	1250.2	1250.2
<i>Step # 6</i>	Time:	9:35	9:40	9:45	9:50	9:55	10:00
	Rate:	1500.6	1500.6	1500.5	1500.5	1500.5	1500.5
	Time:	10:05	10:10	10:15	10:20	10:25	10:30
	Rate:	1500.4	1500.4	1500.3	1500.3	1500.3	1500.2
	Time:						
	Rate:						
	Time:						
	Rate:						
	Time:						
	Rate:						
	Time:						
	Rate:						

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: ML-45555
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.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: CASTLE DRAW 15-2-9-17
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43047332390000
3. ADDRESS OF OPERATOR: 1001 17th Street, Suite 2000 , Denver, CO, 80202	PHONE NUMBER: 303 382-4443 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0661 FSL 1980 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 02 Township: 09.0S Range: 17.0E Meridian: S	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE COUNTY: UINTAH STATE: UTAH

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

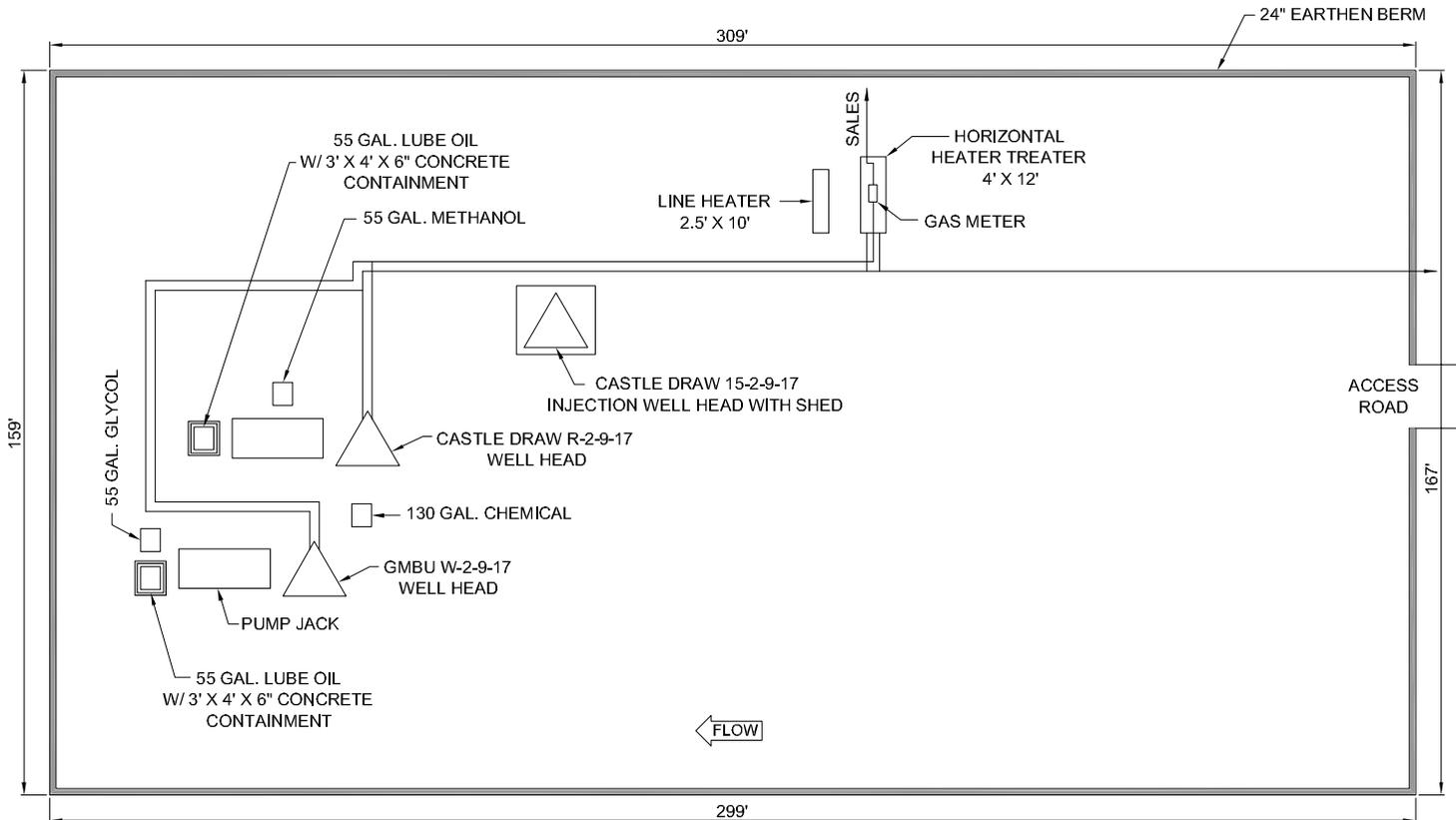
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/1/2012	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Site Facility/Site Security"/>
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

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

SEE ATTACHED REVISED SITE FACILITY DIAGRAM

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 August 16, 2012**

NAME (PLEASE PRINT) Jill L Loyle	PHONE NUMBER 303 383-4135	TITLE Regulatory Technician
SIGNATURE N/A	DATE 8/16/2012	



CASTLE DRAW 15-2-9-17 (LOCATION) API #: 4304733239
 GMBU W-2-9-17 (DIRECTIONAL) API #: 4304751665
 CASTLE DRAW R-2-9-17 (DIRECTIONAL) API #: 4304739681

POSITION OF VALVES AND USE OF SEALS DURING PRODUCTION <table border="1"> <tr><th>Valve</th><th>Line Purpose</th><th>Position</th><th>Seal Installed</th></tr> <tr><td>D</td><td>Drain</td><td>Closed</td><td>Yes</td></tr> <tr><td>F</td><td>Oil, Gas, Water</td><td>Open</td><td>No</td></tr> <tr><td>O</td><td>Overflow</td><td>Open/Closed</td><td>No</td></tr> <tr><td>V</td><td>Vent</td><td>Open</td><td>No</td></tr> <tr><td>R</td><td>Recycle</td><td>Closed</td><td>Yes</td></tr> <tr><td>B</td><td>Blowdown</td><td>Open/Closed</td><td>No</td></tr> <tr><td>S</td><td>Sales</td><td>Closed</td><td>Yes</td></tr> </table>				Valve	Line Purpose	Position	Seal Installed	D	Drain	Closed	Yes	F	Oil, Gas, Water	Open	No	O	Overflow	Open/Closed	No	V	Vent	Open	No	R	Recycle	Closed	Yes	B	Blowdown	Open/Closed	No	S	Sales	Closed	Yes	Valve Type D - Drain Valve F - Flow Valve O - Overflow V - Vent R - Recycle B - Blow Down S - Sales Valve		Federal Lease #: UTU 87538 X (ML 45555) This lease is subject to the Site Security Plan for: Newfield Exploration Company 19 East Pine Street Pinedale, WY 82941		 CASTLE DRAW 15-2-9-17, GMBU W-2-9-17, AND CASTLE DRAW R-2-9-17 Newfield Exploration Company SWSE Sec 2, T9S, R17E Uintah County, UT																															
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POSITION OF VALVES AND USE OF SEALS DURING SALES <table border="1"> <tr><th>Valve</th><th>Line Purpose</th><th>Position</th><th>Seal Installed</th></tr> <tr><td>D</td><td>Drain</td><td>Closed</td><td>Yes</td></tr> <tr><td>F</td><td>Oil, Gas, Water</td><td>Closed</td><td>Yes</td></tr> <tr><td>O</td><td>Overflow</td><td>Closed</td><td>Yes</td></tr> <tr><td>V</td><td>Vent</td><td>Open</td><td>No</td></tr> <tr><td>R</td><td>Recycle</td><td>Closed</td><td>Yes</td></tr> <tr><td>B</td><td>Blowdown</td><td>Closed</td><td>No</td></tr> <tr><td>S</td><td>Sales</td><td>Open</td><td>No</td></tr> </table>				Valve	Line Purpose	Position	Seal Installed	D	Drain	Closed	Yes	F	Oil, Gas, Water	Closed	Yes	O	Overflow	Closed	Yes	V	Vent	Open	No	R	Recycle	Closed	Yes	B	Blowdown	Closed	No	S	Sales	Open	No	POSITION OF VALVES AND USE OF SEALS DURING WATER DRAIN <table border="1"> <tr><th>Valve</th><th>Line Purpose</th><th>Position</th><th>Seal Installed</th></tr> <tr><td>D</td><td>Drain</td><td>Open</td><td>No</td></tr> <tr><td>F</td><td>Oil, Gas, Water</td><td>Closed</td><td>No</td></tr> <tr><td>O</td><td>Overflow</td><td>Closed</td><td>No</td></tr> <tr><td>V</td><td>Vent</td><td>Open</td><td>No</td></tr> <tr><td>R</td><td>Recycle</td><td>Closed</td><td>Yes</td></tr> <tr><td>B</td><td>Blowdown</td><td>Closed</td><td>No</td></tr> <tr><td>S</td><td>Sales</td><td>Closed</td><td>Yes</td></tr> </table>		Valve	Line Purpose	Position	Seal Installed	D	Drain	Open	No	F	Oil, Gas, Water	Closed	No	O	Overflow	Closed	No	V	Vent	Open	No	R	Recycle	Closed	Yes	B	Blowdown	Closed	No	S	Sales	Closed	Yes	M.G. MAR 2012	
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						Note: This drawing represents approximate sizes and distances. Underground pipeline locations are also approximated.																																																																	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: ML-45555
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	COUNTY: UINTAH STATE: UTAH

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

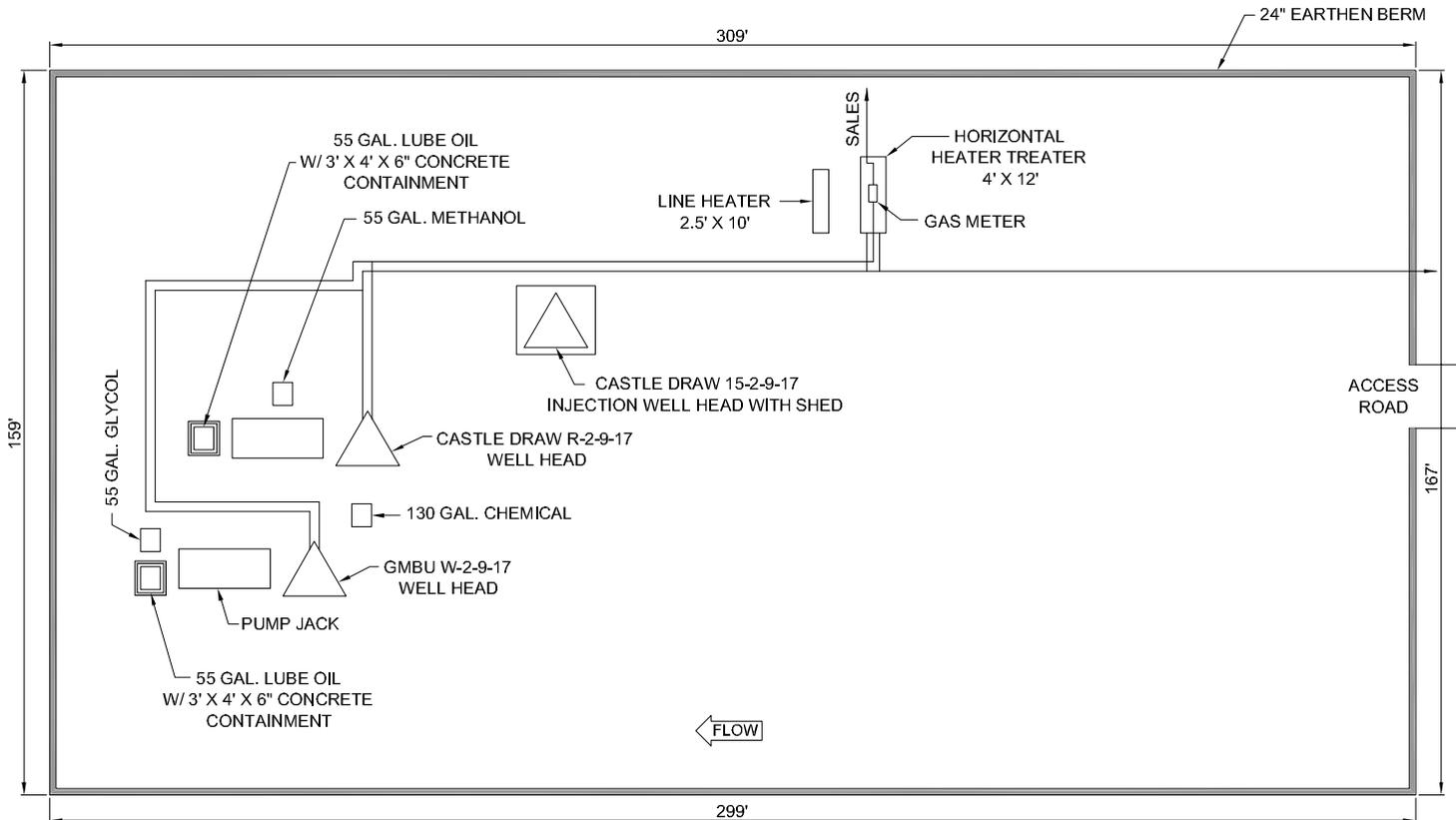
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/1/2012	<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="Site Facility/Site Security"/>

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

SEE ATTACHED REVISED SITE FACILITY DIAGRAM

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 August 29, 2012

NAME (PLEASE PRINT) Jill L Loyle	PHONE NUMBER 303 383-4135	TITLE Regulatory Technician
SIGNATURE N/A	DATE 8/16/2012	



CASTLE DRAW 15-2-9-17 (LOCATION) API #: 4304733239
 GMBU W-2-9-17 (DIRECTIONAL) API #: 4304751665
 CASTLE DRAW R-2-9-17 (DIRECTIONAL) API #: 4304739681

POSITION OF VALVES AND USE OF SEALS DURING PRODUCTION <table border="1"> <tr><th>Valve</th><th>Line Purpose</th><th>Position</th><th>Seal Installed</th></tr> <tr><td>D</td><td>Drain</td><td>Closed</td><td>Yes</td></tr> <tr><td>F</td><td>Oil, Gas, Water</td><td>Open</td><td>No</td></tr> <tr><td>O</td><td>Overflow</td><td>Open/Closed</td><td>No</td></tr> <tr><td>V</td><td>Vent</td><td>Open</td><td>No</td></tr> <tr><td>R</td><td>Recycle</td><td>Closed</td><td>Yes</td></tr> <tr><td>B</td><td>Blowdown</td><td>Open/Closed</td><td>No</td></tr> <tr><td>S</td><td>Sales</td><td>Closed</td><td>Yes</td></tr> </table>				Valve	Line Purpose	Position	Seal Installed	D	Drain	Closed	Yes	F	Oil, Gas, Water	Open	No	O	Overflow	Open/Closed	No	V	Vent	Open	No	R	Recycle	Closed	Yes	B	Blowdown	Open/Closed	No	S	Sales	Closed	Yes	Valve Type D - Drain Valve F - Flow Valve O - Overflow V - Vent R - Recycle B - Blow Down S - Sales Valve		Federal Lease #: UTU 87538 X (ML 45555) This lease is subject to the Site Security Plan for: Newfield Exploration Company 19 East Pine Street Pinedale, WY 82941		 CASTLE DRAW 15-2-9-17, GMBU W-2-9-17, AND CASTLE DRAW R-2-9-17 Newfield Exploration Company SWSE Sec 2, T9S, R17E Uintah County, UT																															
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POSITION OF VALVES AND USE OF SEALS DURING SALES <table border="1"> <tr><th>Valve</th><th>Line Purpose</th><th>Position</th><th>Seal Installed</th></tr> <tr><td>D</td><td>Drain</td><td>Closed</td><td>Yes</td></tr> <tr><td>F</td><td>Oil, Gas, Water</td><td>Closed</td><td>Yes</td></tr> <tr><td>O</td><td>Overflow</td><td>Closed</td><td>Yes</td></tr> <tr><td>V</td><td>Vent</td><td>Open</td><td>No</td></tr> <tr><td>R</td><td>Recycle</td><td>Closed</td><td>Yes</td></tr> <tr><td>B</td><td>Blowdown</td><td>Closed</td><td>No</td></tr> <tr><td>S</td><td>Sales</td><td>Open</td><td>No</td></tr> </table>				Valve	Line Purpose	Position	Seal Installed	D	Drain	Closed	Yes	F	Oil, Gas, Water	Closed	Yes	O	Overflow	Closed	Yes	V	Vent	Open	No	R	Recycle	Closed	Yes	B	Blowdown	Closed	No	S	Sales	Open	No	POSITION OF VALVES AND USE OF SEALS DURING WATER DRAIN <table border="1"> <tr><th>Valve</th><th>Line Purpose</th><th>Position</th><th>Seal Installed</th></tr> <tr><td>D</td><td>Drain</td><td>Open</td><td>No</td></tr> <tr><td>F</td><td>Oil, Gas, Water</td><td>Closed</td><td>No</td></tr> <tr><td>O</td><td>Overflow</td><td>Closed</td><td>No</td></tr> <tr><td>V</td><td>Vent</td><td>Open</td><td>No</td></tr> <tr><td>R</td><td>Recycle</td><td>Closed</td><td>Yes</td></tr> <tr><td>B</td><td>Blowdown</td><td>Closed</td><td>No</td></tr> <tr><td>S</td><td>Sales</td><td>Closed</td><td>Yes</td></tr> </table>		Valve	Line Purpose	Position	Seal Installed	D	Drain	Open	No	F	Oil, Gas, Water	Closed	No	O	Overflow	Closed	No	V	Vent	Open	No	R	Recycle	Closed	Yes	B	Blowdown	Closed	No	S	Sales	Closed	Yes	M.G. MAR 2012	
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						Note: This drawing represents approximate sizes and distances. Underground pipeline locations are also approximated.																																																																	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-45555
		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: CASTLE DRAW 15-2-9-17
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052		9. API NUMBER: 43047332390000
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0661 FSL 1980 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 02 Township: 09.0S 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: 10/10/2012	<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
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	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
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	<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="Step Rate Test"/>

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

A step rate test was conducted on the subject well on October 10, 2012. Results from the test indicate that the fracture gradient is 0.899psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed from 1725 psi to 1865 psi. EPA: UT20776-08390

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
October 22, 2012**

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 10/16/2012	

Step Rate Test (SRT) Analysis

Date: <u>10/11/2012</u>	Operator: <u>Newfield Production Company</u>	
	Well: <u>Castle Draw 15-2-9-17</u>	
	Permit #: <u>UT20776-08390</u>	

Enter the following data :

Specific Gravity (sg) of injectate =	<u>1.015</u>	g/cc	
Depth to top perforation (D) =	<u>4063</u>	feet	4063
Top of permitted injection zone depth (blank=use top perforation to calculate fg) =		feet	
Estimated Formation Parting Pressure (P _{fp}) from SRT chart =	<u>1940</u>	psi	
Instantaneous Shut In Pressure (ISIP) from SRT =	<u>1867</u>	psi	1940
Bottom Hole Parting Pressure (P _{bhp}) from downhole pressure recorder =		psi	no downhole

Part One - Calculation of Fracture Gradient (fg)

Calculated Fracture Gradient = 0.899 psi/ft.

where: fg = P_{bhp} / D (Note: this formula uses the downhole recorded bottom hole parting pressure if available) = 1867

D = depth used = 4063

P_{bhp} used = 3653

Calculated Bottom Hole Parting Pressure (P_{bhp}) = 3653 psi

3652.668

to calculate Bottom Hole Parting Pressure (P_{bhp}) = Formation Fracture Pressure (ISIP or P_{fp}) + (0.433 * SG * D)

(Uses lesser of ISIP or P_{fp}) Value used = 1867

Part Two - Calculation of Maximum Allowable Injection Pressure (MAIP)

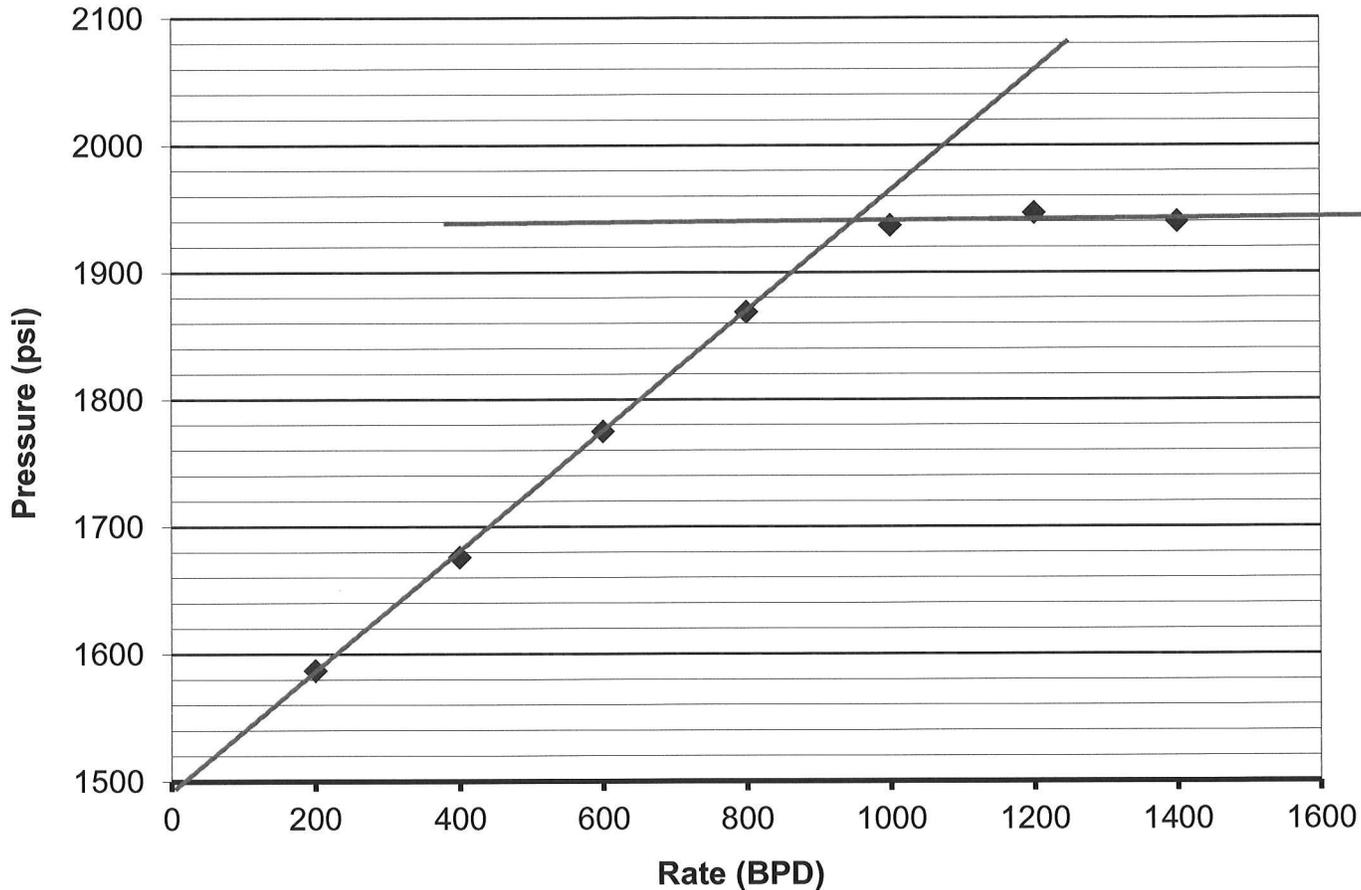
Maximum Allowable Injection Pressure (MAIP) = 1865 psig

D = depth used = 4063

MAIP = [(fg - (0.433 * SG)) * D = 1866.969

(rounded down to nearest 5 psig)

**Castle Draw 15-2-9-17
Greater Monument Butte Unit
Step Rate Test
October 10, 2012**



Start Pressure: 1526 psi
Instantaneous Shut In Pressure (ISIP): 1867 psi
Top Perforation: 4063 feet
Fracture pressure (Pfp): 1940 psi
FG: 0.917 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	200	1587
2	400	1676
3	600	1775
4	800	1869
5	1000	1937
6	1200	1947

Castle Draw 15-2-9-17 Rate Sheet (10-10-12)

<i>Step # 1</i>	Time:	4:35	4:40	4:45	4:50	16:55	5:00
	Rate:	200.8	200.8	200.7	200.7	200.6	200.6
	Time:	5:05	5:10	5:15	5:20	5:25	5:30
	Rate:	200.6	200.5	200.5	200.5	200.5	200.5
<i>Step # 2</i>	Time:	5:35	5:40	5:45	5:50	5:55	6:00
	Rate:	400.4	400.4	400.4	400.4	400.3	400.3
	Time:	6:05	6:10	6:16	6:20	6:25	6:30
	Rate:	400.3	400.3	400.2	400.2	400.2	400.2
<i>Step # 3</i>	Time:	6:35	6:40	6:45	6:50	6:55	7:00
	Rate:	600.5	600.5	600.5	600.5	600.5	600.4
	Time:	7:05	7:10	7:15	7:20	7:25	7:30
	Rate:	600.4	600.4	600.3	600.3	600.3	600.3
<i>Step # 4</i>	Time:	7:35	7:40	7:45	7:50	7:55	8:00
	Rate:	800.5	800.5	800.5	800.4	800.4	800.4
	Time:	8:05	8:10	8:15	8:20	8:25	8:30
	Rate:	800.3	800.3	800.2	800.2	800.1	800.1
<i>Step # 5</i>	Time:	8:35	8:40	8:45	8:50	8:55	9:00
	Rate:	1000.7	1000.7	1000.6	1000.6	1000.6	1000.6
	Time:	9:05	9:10	9:15	9:20	9:25	9:30
	Rate:	1000.5	1000.5	1000.4	1000.4	1000.4	1000.3
<i>Step # 6</i>	Time:	9:35	9:40	9:45	9:50	9:55	10:00
	Rate:	1200.4	1200.4	1200.4	1200.4	1200.3	1200.3
	Time:	10:05	10:10	10:15	10:20	10:25	10:30
	Rate:	1200.2	1200.2	1200.2	1200.2	1200.1	1200.1
<i>Step # 7</i>	Time:	10:35	10:40	10:45	10:50	10:55	11:00
	Rate:	1400.5	1400.5	1400.5	1400.5	1400.4	1400.4
	Time:	11:05	11:10	11:15	11:20	11:25	11:30
	Rate:	1400.4	1400.3	1400.3	1400.1	1400.1	1400.1
	Time:						
	Rate:						
	Time:						
	Rate:						

Data Table Report

Report Name: PrTemp1000 Data Table
 Report Date: 10/11/2012 14:34:35
 File Name: C:\Program Files\PTC® Instruments 2.03.12\
 Castle Draw 15-2-9-17 SRT (10-10-12).csv
 Device: PrTemp1000 - Temperature and Pressure Recorder
 Hardware Revision: REV2C (64K)
 Serial Number: N87695
 Device ID: PrTemp
 Data Start Date: Oct 10, 2012 04:00:00 AM MDT
 Data End Date: Oct 10, 2012 11:30:00 AM MDT
 Reading: 1 to 91 of 91
 Reading Rate: 30 Seconds
 Last Calibration Date: Aug 28, 2012
 Next Calibration Date: Aug 28, 2013
 Next Calibration Date: Aug 28, 2013

Castle Draw 15-2-9-17 SRT (10-10-2012)

Unit Type (All Units)

Reading	DateTime (MDT)	Channel 2 PSIA
1	Oct 10, 2012 04:00:00 AM	1525
2	Oct 10, 2012 04:05:00 AM	1525.4
3	Oct 10, 2012 04:10:00 AM	1525.8
4	Oct 10, 2012 04:15:00 AM	1525.4
5	Oct 10, 2012 04:20:01 AM	1526
6	Oct 10, 2012 04:25:00 AM	1525.6
7	Oct 10, 2012 04:30:01 AM	1525.6
8	Oct 10, 2012 04:35:00 AM	1545
9	Oct 10, 2012 04:40:01 AM	1554
10	Oct 10, 2012 04:45:00 AM	1558
11	Oct 10, 2012 04:50:00 AM	1562.6
12	Oct 10, 2012 04:55:00 AM	1566
13	Oct 10, 2012 05:00:00 AM	1570.2
14	Oct 10, 2012 05:05:01 AM	1573.4
15	Oct 10, 2012 05:10:00 AM	1576.6
16	Oct 10, 2012 05:15:01 AM	1579.2
17	Oct 10, 2012 05:20:00 AM	1582
18	Oct 10, 2012 05:25:01 AM	1584.6
19	Oct 10, 2012 05:30:00 AM	1587.2
20	Oct 10, 2012 05:35:00 AM	1610
21	Oct 10, 2012 05:40:00 AM	1622
22	Oct 10, 2012 05:45:00 AM	1630.8
23	Oct 10, 2012 05:50:01 AM	1637.8
24	Oct 10, 2012 05:55:00 AM	1644.8
25	Oct 10, 2012 06:00:01 AM	1650.4
26	Oct 10, 2012 06:05:00 AM	1655.6
27	Oct 10, 2012 06:10:01 AM	1660.4
28	Oct 10, 2012 06:15:00 AM	1664.6
29	Oct 10, 2012 06:20:00 AM	1669
30	Oct 10, 2012 06:25:00 AM	1672.2
31	Oct 10, 2012 06:30:00 AM	1675.8
32	Oct 10, 2012 06:35:01 AM	1705.4
33	Oct 10, 2012 06:40:00 AM	1718
34	Oct 10, 2012 06:45:01 AM	1726
35	Oct 10, 2012 06:50:00 AM	1735.4
36	Oct 10, 2012 06:55:01 AM	1740.8
37	Oct 10, 2012 07:00:00 AM	1749
38	Oct 10, 2012 07:05:00 AM	1753.4

Castle Draw 15-2-9-17 SRT (10-10-2012)

Unit Type (All Units)

Reading	DateTime (MDT)	Channel 2 PSIA
39	Oct 10, 2012 07:10:00 AM	1763
40	Oct 10, 2012 07:15:00 AM	1760.2
41	Oct 10, 2012 07:20:01 AM	1765
42	Oct 10, 2012 07:25:00 AM	1769.8
43	Oct 10, 2012 07:30:01 AM	1775.2
44	Oct 10, 2012 07:35:00 AM	1801.6
45	Oct 10, 2012 07:40:01 AM	1825.2
46	Oct 10, 2012 07:45:00 AM	1837.6
47	Oct 10, 2012 07:50:00 AM	1841.2
48	Oct 10, 2012 07:55:00 AM	1848.6
49	Oct 10, 2012 08:00:00 AM	1854.6
50	Oct 10, 2012 08:05:01 AM	1854.2
51	Oct 10, 2012 08:10:00 AM	1861.4
52	Oct 10, 2012 08:15:01 AM	1864
53	Oct 10, 2012 08:20:00 AM	1864.6
54	Oct 10, 2012 08:25:01 AM	1864.6
55	Oct 10, 2012 08:30:00 AM	1868.8
56	Oct 10, 2012 08:35:00 AM	1897.6
57	Oct 10, 2012 08:40:00 AM	1892.2
58	Oct 10, 2012 08:45:00 AM	1915.6
59	Oct 10, 2012 08:50:01 AM	1911.2
60	Oct 10, 2012 08:55:00 AM	1907.4
61	Oct 10, 2012 09:00:01 AM	1925.6
62	Oct 10, 2012 09:05:00 AM	1911
63	Oct 10, 2012 09:10:01 AM	1912.4
64	Oct 10, 2012 09:15:00 AM	1914.2
65	Oct 10, 2012 09:20:00 AM	1916.4
66	Oct 10, 2012 09:25:00 AM	1922
67	Oct 10, 2012 09:30:00 AM	1936.6
68	Oct 10, 2012 09:35:01 AM	1942.2
69	Oct 10, 2012 09:40:00 AM	1930.6
70	Oct 10, 2012 09:45:01 AM	1930.8
71	Oct 10, 2012 09:50:00 AM	1946.2
72	Oct 10, 2012 09:55:01 AM	1926.8
73	Oct 10, 2012 10:00:00 AM	1945
74	Oct 10, 2012 10:05:00 AM	1941.2
75	Oct 10, 2012 10:10:00 AM	1933.4
76	Oct 10, 2012 10:15:00 AM	1939.4
77	Oct 10, 2012 10:20:01 AM	1932.6
78	Oct 10, 2012 10:25:00 AM	1952.8
79	Oct 10, 2012 10:30:01 AM	1946.8
80	Oct 10, 2012 10:35:00 AM	1958.2
81	Oct 10, 2012 10:40:01 AM	1940.4
82	Oct 10, 2012 10:45:00 AM	1943.8
83	Oct 10, 2012 10:50:00 AM	1946.6
84	Oct 10, 2012 10:55:00 AM	1945.4
85	Oct 10, 2012 11:00:00 AM	1959.4
86	Oct 10, 2012 11:05:01 AM	1940.6
87	Oct 10, 2012 11:10:00 AM	1946.2
88	Oct 10, 2012 11:15:01 AM	1948.6
89	Oct 10, 2012 11:20:00 AM	1941.2
90	Oct 10, 2012 11:25:01 AM	1957

Castle Draw 15-2-9-17 SRT (10-10-2012)

Unit Type (All Units)

Reading	DateTime (MDT)	Channel 2 PSIA
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91	Oct 10, 2012 11:30:00 AM	1940
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End of Report

Data Table Report

Report Name: PrTemp1000 Data Table
 Report Date: 10/11/2012 14:34:47
 File Name: C:\Program Files\PTC® Instruments 2.03.12\
 Castle Draw 15-2-9-17 ISIP (10-10-12).csv
 Device: PrTemp1000 - Temperature and Pressure Recorder
 Hardware Revision: REV2C (64K)
 Serial Number: N87695
 Device ID: PrTemp
 Data Start Date: Oct 10, 2012 11:30:13 AM MDT
 Data End Date: Oct 10, 2012 12:00:13 PM MDT
 Reading: 1 to 31 of 31
 Reading Rate: 30 Seconds
 Last Calibration Date: Aug 28, 2012
 Next Calibration Date: Aug 28, 2013
 Next Calibration Date: Aug 28, 2013

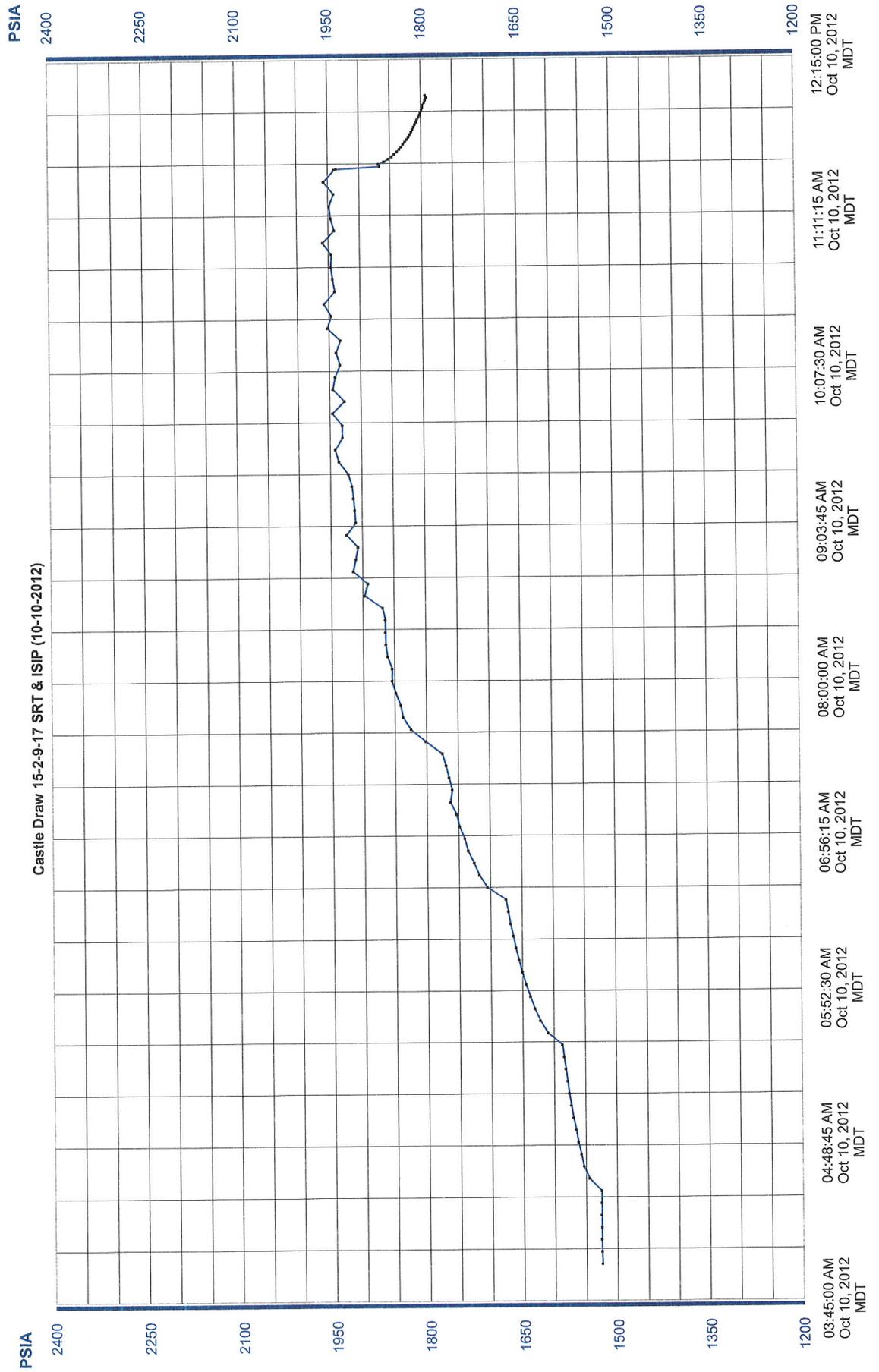
Castle Draw 15-2-9-17 ISIP (10-10-2012)

Unit Type (All Units)

Reading	DateTime (MDT)	Channel 2 PSIA
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1	Oct 10, 2012 11:30:13 AM	1936.8
2	Oct 10, 2012 11:31:13 AM	1867.2
3	Oct 10, 2012 11:32:13 AM	1868.8
4	Oct 10, 2012 11:33:13 AM	1859.8
5	Oct 10, 2012 11:34:13 AM	1852.8
6	Oct 10, 2012 11:35:13 AM	1847.2
7	Oct 10, 2012 11:36:13 AM	1843.2
8	Oct 10, 2012 11:37:13 AM	1838.8
9	Oct 10, 2012 11:38:14 AM	1834.8
10	Oct 10, 2012 11:39:13 AM	1831.8
11	Oct 10, 2012 11:40:13 AM	1829
12	Oct 10, 2012 11:41:14 AM	1825.6
13	Oct 10, 2012 11:42:13 AM	1822.8
14	Oct 10, 2012 11:43:13 AM	1820.2
15	Oct 10, 2012 11:44:13 AM	1818
16	Oct 10, 2012 11:45:13 AM	1815.6
17	Oct 10, 2012 11:46:13 AM	1813.8
18	Oct 10, 2012 11:47:13 AM	1811.6
19	Oct 10, 2012 11:48:13 AM	1809.8
20	Oct 10, 2012 11:49:13 AM	1807.4
21	Oct 10, 2012 11:50:13 AM	1806.2
22	Oct 10, 2012 11:51:13 AM	1803.6
23	Oct 10, 2012 11:52:13 AM	1801.8
24	Oct 10, 2012 11:53:13 AM	1800.6
25	Oct 10, 2012 11:54:14 AM	1799
26	Oct 10, 2012 11:55:13 AM	1797.4
27	Oct 10, 2012 11:56:13 AM	1797.4
28	Oct 10, 2012 11:57:14 AM	1794.4
29	Oct 10, 2012 11:58:13 AM	1793
30	Oct 10, 2012 11:59:13 AM	1791.6
31	Oct 10, 2012 12:00:13 PM	1793

End of Report





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-UIC

NOV 07 2012

RECEIVED

NOV 19 2012

DIV. OF OIL, GAS & MINING

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Reed Durfey
District Manager
Newfield Production Company
Route 3-Box 3630
Myton, Utah 84502

RE: Underground Injection Control (UIC)
Minor Permit Modification
EPA UIC Permit UT20776-08390
Well: Castle Draw 15-2-9-17
NWSE Sec. 2-T9S-R17E
Uintah County, Utah
API No.: 43-047-33239

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

Dear Mr. Durfey:

The U.S. Environmental Protection Agency Region 8 has received Newfield Production Company's (Newfield) October 16, 2012, letter with enclosures requesting an increase in the Maximum Allowable Injection Pressure (MAIP) for the Castle Draw 15-2-9-17 well. The enclosed Step Rate Test (SRT) concluded the fracture gradient to be 0.899 psi/ft. The MAIP for UIC Permit UT20776-08390 is hereby increased to 1,865 psig from the 1,725 psig previously authorized.

You may apply for a higher MAIP at a later date. Your application should be accompanied by the interpreted results of a SRT that measures the fracture parting pressure and determines the fracture gradient at the injection depth and location. A current copy of the EPA guidelines for running and interpreting a SRT will be sent upon request.

Please continue to direct all notification, reporting, monitoring and compliance correspondence to the following address, referencing the well name and UIC Permit number on all correspondence regarding this well:

US EPA, Region 8
Attention: Sarah Roberts
MC: ENF-UFO
1595 Wynkoop Street
Denver, Colorado 80202

For questions regarding notification, testing, monitoring, reporting or other permit requirements, Sarah Roberts of the UIC Technical Enforcement Program may be reached by calling (800) 227-8917, extension 312-7056. Please be reminded that it is your responsibility to be aware of, and to comply with, all conditions of your Permit.

If you have any questions regarding this approval, please call Jason Deardorff at (303) 312-6583 or (800) 227-8917, extension 312-6583.

Sincerely,



for Howard M. Cantor, for
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:

Irene Cuch, Chairwoman
Frances Poowegup, Councilwoman
Ronald Wopsock, Vice-Chairman
Phillip Chimburas, Councilman
Stewart Pike, Councilman
Richard Jenks Jr., Councilman

Johnna Blackhair
BIA - Uintah & Ouray Indian Agency

Mike Natchees
Environmental Coordinator
Ute Indian Tribe

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

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

Fluid Minerals Engineering Office
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst
Newfield Production Company

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-45555
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: CASTLE DRAW 15-2-9-17	
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43047332390000	
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0661 FSL 1980 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 02 Township: 09.0S 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"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/24/2015	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	OTHER: <input style="width: 100px;" 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 02/24/2015 the casing was pressured up to 1091 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 1512 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-08390		
		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 04, 2015
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 3/3/2015	

Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: _____ Date: 2 / 24 / 2015

Test conducted by: Kane Stevenson

Others present: _____

Well Name: <u>Castle Draw</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>15</u> Sec: <u>2</u> T <u>9</u> N/S R <u>17</u> E/W County: <u>Gintah</u> State: <u>UT</u>		
Operator: <u>Newfield Exploration</u>		
Last MIT: <u>1</u> / <u>1</u>	Maximum Allowable Pressure: <u>1676</u>	PSIG

-UF 370

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: Csg-0 TBG-1512 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	1512 psig	psig	psig
End of test pressure	1512 psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	1091 psig	psig	psig
5 minutes	1091 psig	psig	psig
10 minutes	1091 psig	psig	psig
15 minutes	1091 psig	psig	psig
20 minutes	1091 psig	psig	psig
25 minutes	1091 psig	psig	psig
30 minutes	1091 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

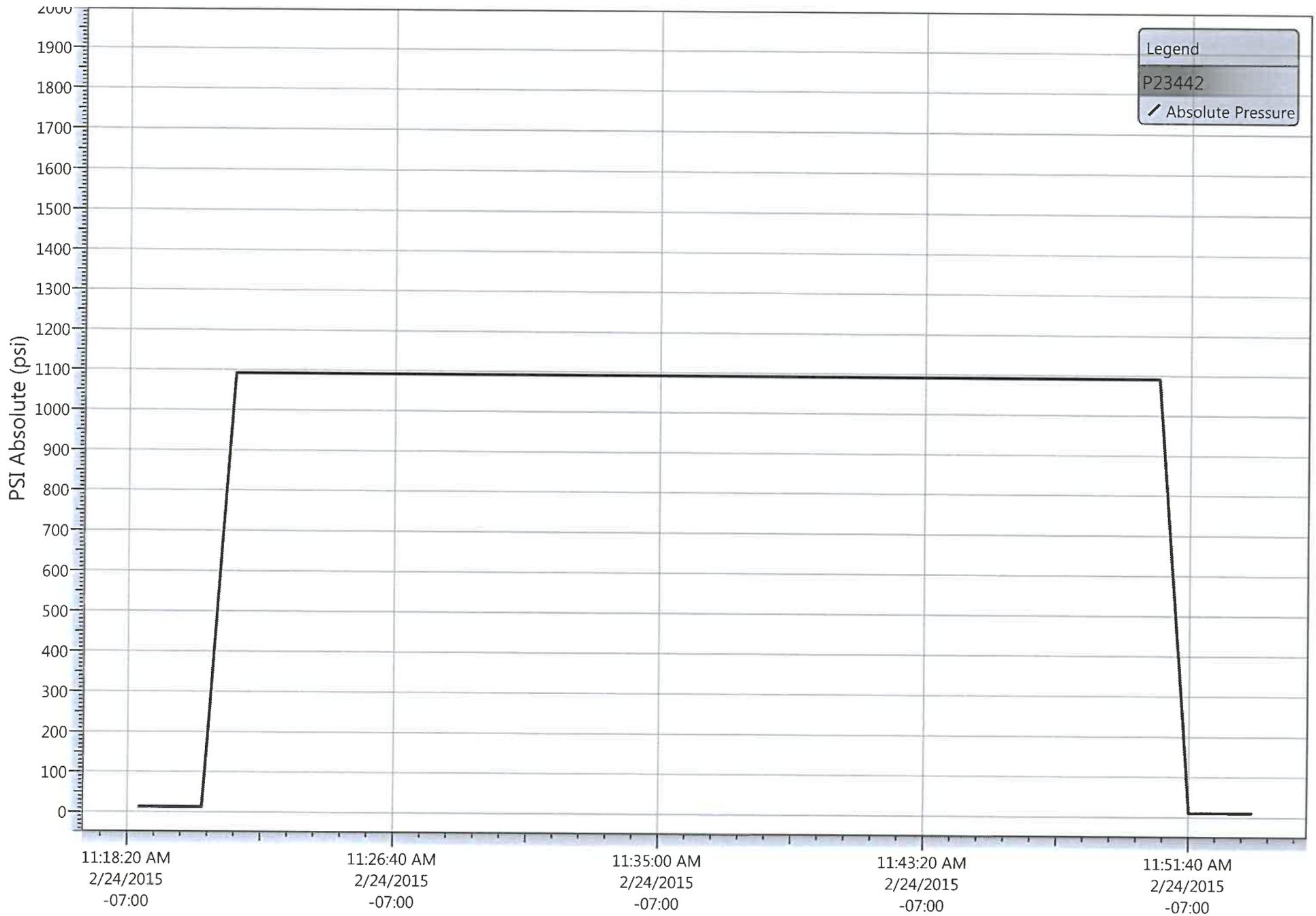
MECHANICAL INTEGRITY PRESSURE TEST

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: _____

Castle Draw 15-2-9-17 (5 Year MIT) 2/24/2015

2/24/2015 11:18:08 AM



Spud Date: 2/27/00
 Put on Production: 3/25/00
 GL: 5066.5' KB: 5076.5'

Castle Draw 15-2-9-17

Injection Wellbore
 Diagram

SURFACE CASING

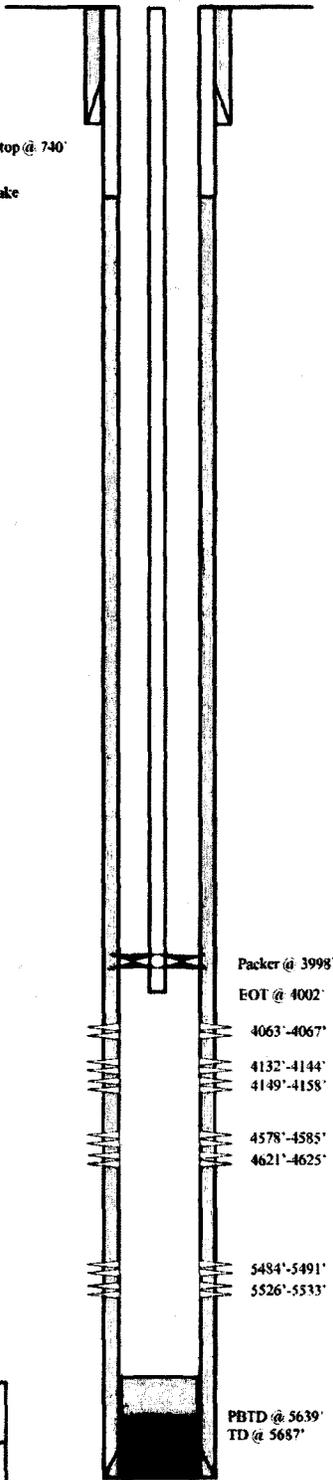
CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (295.5')
 DEPTH LANDED: 307' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 141 sxs class "G" w/ 2% CaCl2 & 1/4#/sk Cello-Flake
 2 bbl to surface

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55 & N-80
 WEIGHT: 15.5# (J-55) 17# (N-80)
 LENGTH: 133 jts. (5675')
 DEPTH LANDED: 5686' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 250 sxs Prem Lte II w/ 10% Gel & 3% LCI &
 400 sxs 50/50 poz w/ 2% Gel & 3% KCL. 12 bbl dye water to surface
 CEMENT TOP: 740'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 128 jts (3983.7')
 SEATING NIPPLE: 2 - 7/8" (1.10')
 SN LANDED @ 3993.7'
 CE @ 3997.85'
 TOTAL STRING LENGTH: EOT @ 4002.25'



FRAC JOB

3/21/00 5484'-5533' Frac CP sand as follows:
 78,192# of 20/40 sand in 504 bbls of Viking I-25. Breakdown @ 2300psi. Treated @ avg rate of 29.5 bpm w/avg press of 1500 psi. ISIP-1850 psi. 5-min 1698 psi. Flowback on 12/64" ck for 5 hours and died.

3/22/00 4578'-4625' Break Down DS/D sand as follows:
 Perfs broke at 1500 psi. 1R 3.2 BPM @ 1200 psi. Lost 1 bbl fluid.

3/23/00 4063'-4158' Frac GB sand as follows:
 87,706# of 20/40 sand in 558 bbls of Viking I-25. Breakdown @ 2137 psi. Treated @ avg rate of 27 bpm w/avg press of 1800 psi. ISIP-2450 psi. 5-min 2272 psi. Flowback on 12/64" ck for 2-1/2 hours and died.

6/26/08 Stuck pump. Rod & tubing updated.
 03/23/10 Convert to injection well.
 03/26/10 MIT Completed - tbg detail updated

PERFORATION RECORD

3/22/00	4063'-4067'	4 JSPF	16 holes
3/22/00	4132'-4144'	4 JSPF	48 holes
3/22/00	4149'-4158'	4 JSPF	36 holes
3/22/00	4578'-4585'	4 JSPF	28 holes
3/22/00	4621'-4625'	4 JSPF	16 holes
3/20/00	5484'-5491'	4 JSPF	28 holes
3/20/00	5526'-5533'	4 JSPF	28 holes

NEWFIELD

Castle Draw 15-2-9-17
 661' FSL & 1980' FEL
 SW/SE Section 2-T9S-R17E
 Uintah County, Utah
 API #43-047-33239; Lease # ML-45555