

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL [X] DEEPEN [ ]
1b. TYPE OF WELL OIL GAS SINGLE MULTIPLE WELL [X] WELL [ ] OTHER [ ] ZONE [ ] ZONE [ ]
2. NAME OF OPERATOR Inland Production Company
3. ADDRESS OF OPERATOR P.O. Box 790233 Vernal, UT 84079 Phone: (801) 789-1866
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) At Surface NWNW At proposed Prod. Zone 660' FNL & 583' FWL
12. County Duchesne 13. STATE UT
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* 11.4 Miles southwest of Myton, Utah
15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 583'
16. NO. OF ACRES IN LEASE 2077.19
17. NO. OF ACRES ASSIGNED TO THIS WELL 40
18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.
19. PROPOSED DEPTH 6500'
20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5864.4'
22. APPROX. DATE WORK WILL START\* 4th Quarter 1997

23. PROPOSED CASING AND CEMENTING PROGRAM

Table with 5 columns: SIZE OF HOLE, SIZE OF CASING, WEIGHT/FOOT, SETTING DEPTH, QUANTITY OF CEMENT. Rows include 12 1/4" hole with 8 5/8" casing and 7 7/8" hole with 5 1/2" casing.

The actual cement volumes will be calculated off of the open hole logs, plus 15% excess. SURFACE PIPE - Premium Plus Cement, w/ 2% Gel, 2% CaCl2, 1/4# /sk Flocele Weight: 14.8 PPG YIELD: 1.37 Cu Ft/sk H2O Req: 6.4 Gal/sk LONG STRING - Lead: Hibond 65 Modified Weight: 11.0 PPG YIELD: 3.00 Cu Ft/sk H2O Req: 18.08 Gal/sk Tail: Premium Plus Thixotropic Weight: 14.2 PPG YIELD: 1.59 Cu Ft/sk H2O Req: 7.88 Gal/sk

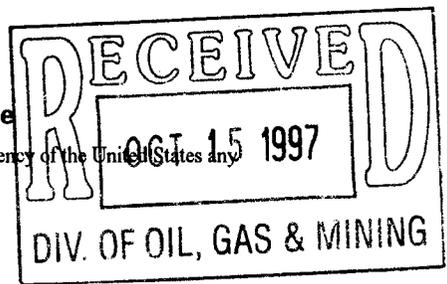
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer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

24. SIGNED Cheryl Cameron TITLE Regulatory Compliance Specialist DATE 10/10/97

(This space for Federal or State office use) PERMIT NO. 43-013-31952 APPROVAL DATE Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY: APPROVED BY John R. Bay TITLE Associate Director Utah DOGM DATE 11/24/97

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



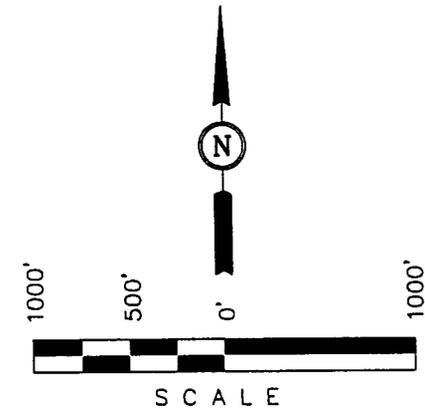
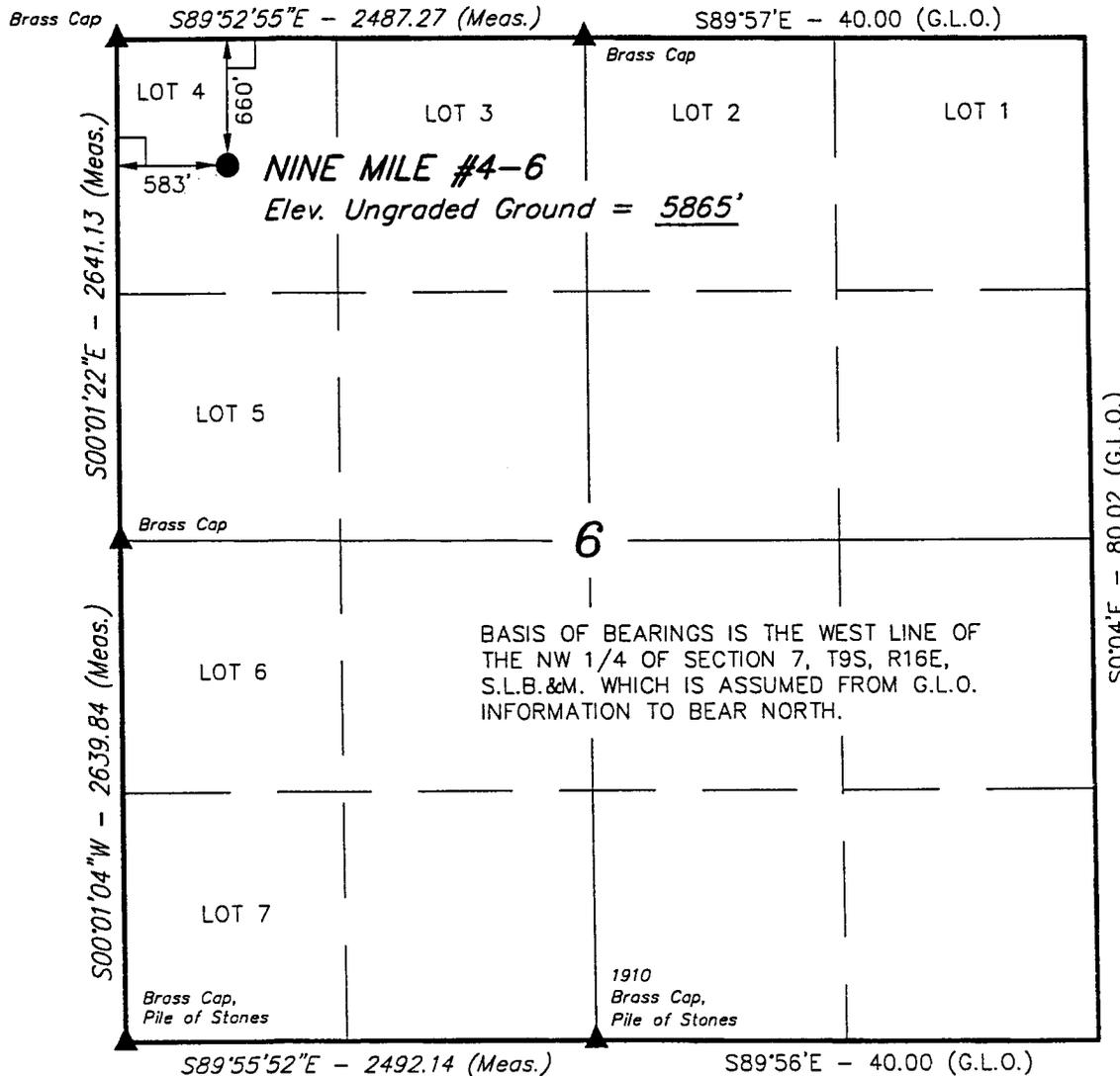
# T9S, R16E, S.L.B.&M.

## INLAND PRODUCTION CO.

Well location, NINE MILE #4-6, located as shown in the NW 1/4 NW 1/4 of Section 6, T9S, R16E, S.L.B.&M., Duchesne County, Utah.

### BASIS OF ELEVATION

BENCH MARK LOCATED IN THE NE 1/4 SE 1/4 OF SECTION 1, T9S, R15E, S.L.B.&M. TAKEN FROM THE MYTON SW QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5924 FEET.



### CERTIFICATE

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.

*Robert L. Cox*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(801) 789-1017

### LEGEND:

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

|                            |                               |                        |
|----------------------------|-------------------------------|------------------------|
| SCALE<br>1" = 1000'        | DATE SURVEYED:<br>8-24-97     | DATE DRAWN:<br>8-28-97 |
| PARTY<br>L.D.T. B.H. D.COX | REFERENCES<br>G.L.O. PLAT     |                        |
| WEATHER<br>WARM            | FILE<br>INLAND PRODUCTION CO. |                        |

**INLAND PRODUCTION COMPANY  
NINE MILE #4-6  
NW/NW SECTION 6, T9S, R16E  
DUCHESNE COUNTY, UTAH**

**TEN POINT WELL PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

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

|             |            |
|-------------|------------|
| Uinta       | 0' - 3050' |
| Green River | 3050'      |
| Wasatch     | 6500'      |

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

Green River Formation 3050' - 6500' - Oil

**4. PROPOSED CASING AND CEMENTING 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.

NINE MILE #4-6

**AIR DRILLING**

In the event that the proposed Nine Mile #4-6 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 PBSD 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 1997, and take approximately six days to drill.

**INLAND PRODUCTION COMPANY  
NINE MILE #4-6  
NW/NW SECTION 6, T9S, R16E  
DUCHESNE COUNTY, UTAH**

**THIRTEEN POINT WELL PROGRAM**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Inland Production Company well location site Nine Mile #4-6 located in the NW 1/4 NW 1/4 Section 6, T9S, R16E, S.L.B. & M. Duchesne County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and the Sand Wash Road; proceed southerly along this road - 4.9 miles to the Wells Draw Road intersection; proceed southwesterly 2.4 miles to its intersection with an existing dirt road; proceed southwesterly 1.0 mile to its junction with an existing jeep trail; proceed southerly 2.0 miles to the beginning of the 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 BLM 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 100'  $\pm$  of access road is required.  
See Topographic Map "B".

Both proposed access road will be upgraded with 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.

## NINE MILE #4-6

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

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

### 3. LOCATION OF EXISTING WELLS

Refer to Exhibit "D".

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

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

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

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

Tank batteries will be built to BLM 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 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 Nine Mile #4-6, 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). 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.

NINE MILE #4-6

7. **METHODS FOR HANDLING WASTE DISPOSAL**

See Location Layout Sheet - Exhibit "E".

A small reserve pit (80 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 shale-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, chromates, 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 east between stakes 4 & 5.

The stockpiled topsoil (first six (6) inches) will be stored on the west & northwest corner between stakes 3 & 8.

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

Corner #6 will be rounded to avoid drainage.

## NINE MILE #4-6

### 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 B.L.M. 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 B.L.M. will attach the appropriate surface rehabilitation conditions of approval.

## NINE MILE #4-6

### 11. SURFACE OWNERSHIP - Bureau Of Land Management

### 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 B.L.M. 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 Federal Lands after the conclusion of drilling operations or at any other time without B.L.M. authorization. However, if B.L.M. 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 will be submitted as soon as it becomes available.

#### *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 Nine Mile #4-6 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 Nine Mile #4-6, 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 B.L.M. office at (801) 789-1362, 48 hours prior to construction activities.

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

NINE MILE #4-6

13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name: Cheryl Cameron  
Address: P.O. Box 790233 Vernal, Utah 84079  
Telephone: (801) 789-1866

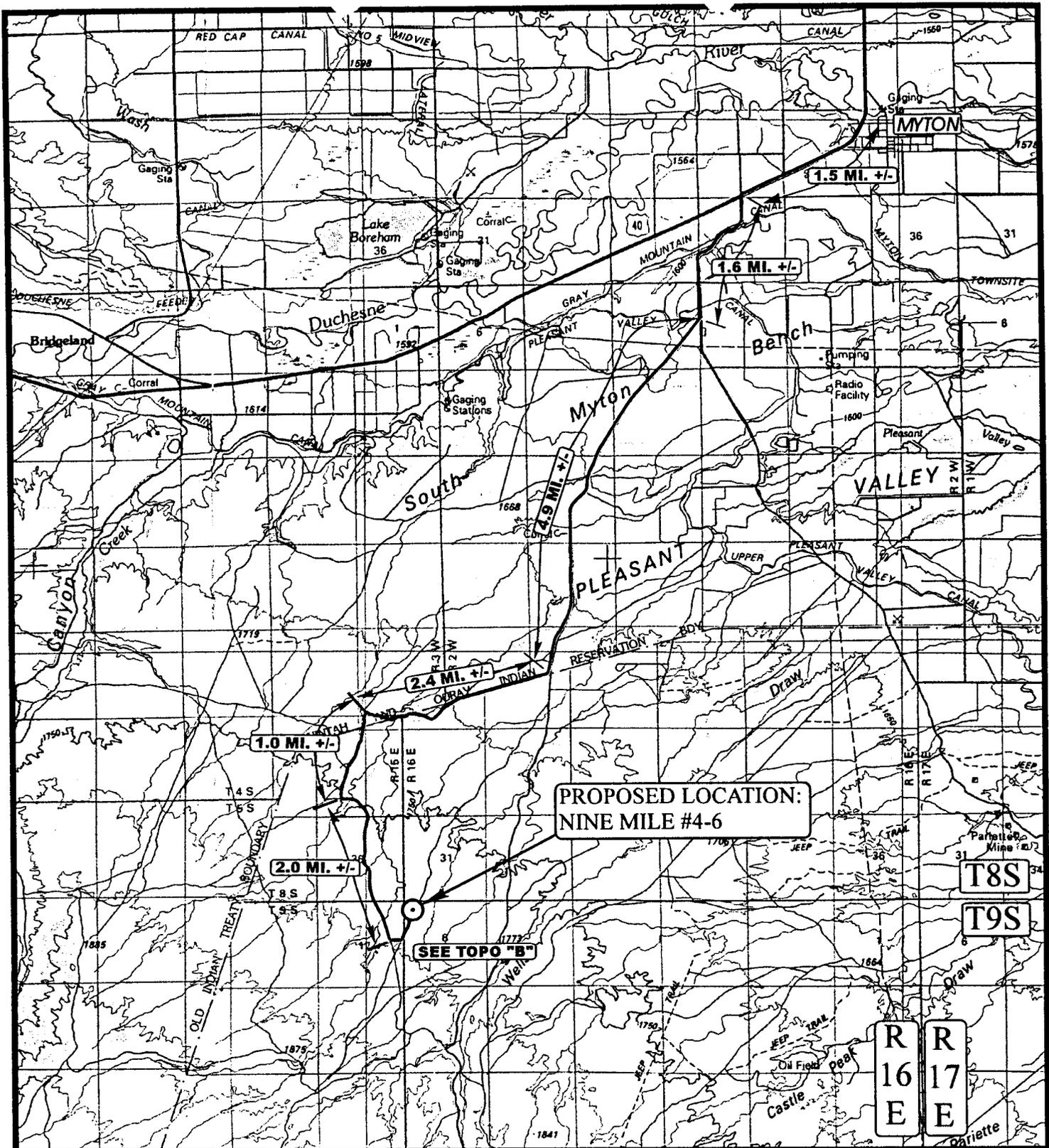
Certification

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of Well #4-6 NW/NW Section 6, Township 9S, Range 16E: Lease #UTU-74390 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite and access route; that 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.

10/10/97  
Date

  
Cheryl Cameron  
Regulatory Compliance Specialist



**PROPOSED LOCATION:  
NINE MILE #4-6**

**SEE TOPO "B"**

**LEGEND:**

○ PROPOSED LOCATION



**INLAND PRODUCTION CO.**

NINE MILE #4-6  
SECTION 6, T9S, R16E, S.L.B.&M.  
660' FNL 583' FWL



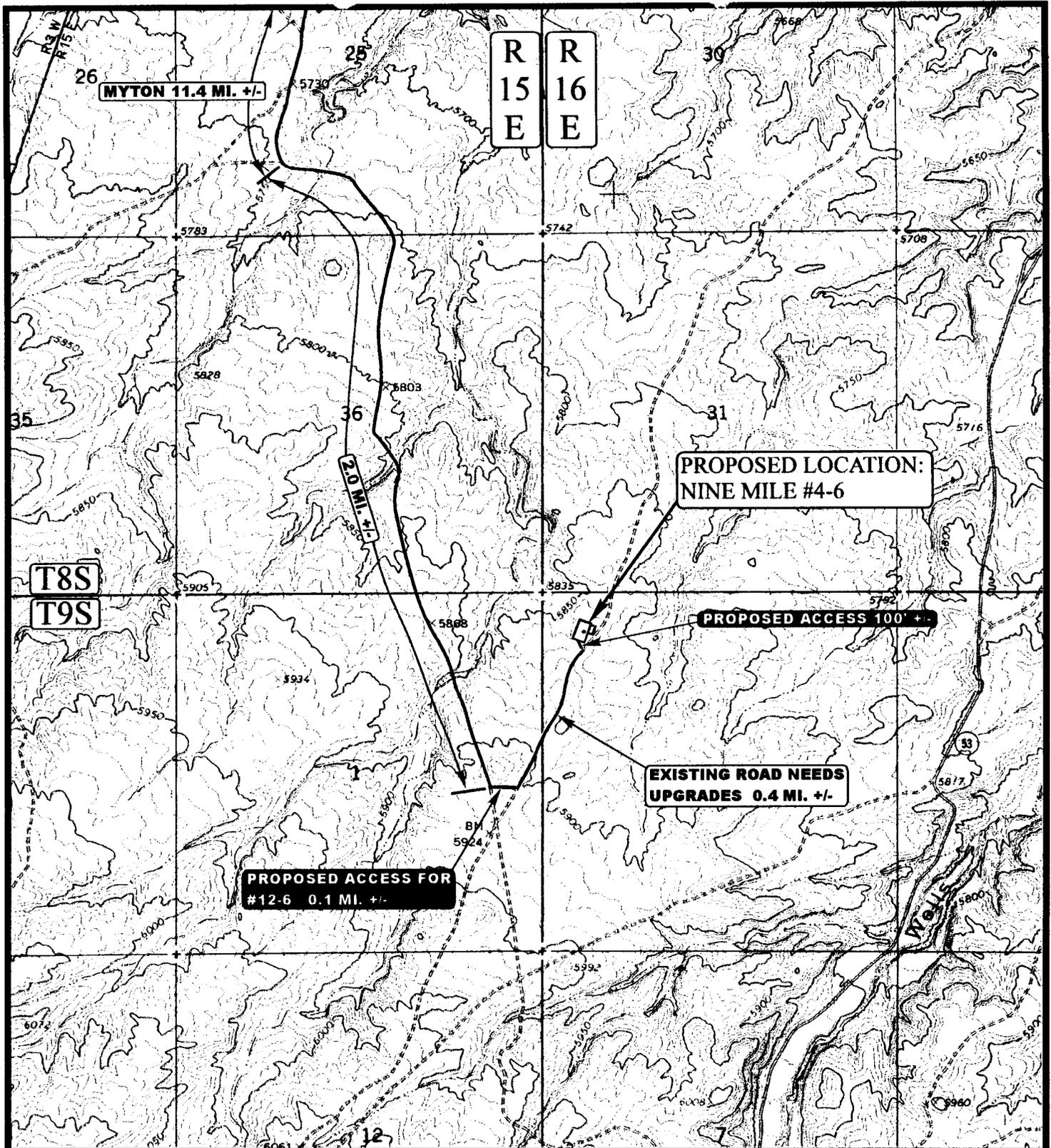
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(801) 789-1017 \* FAX (801) 789-1813  
Email: uels@easilink.com

**TOPOGRAPHIC  
MAP**

**8 25 97**  
MONTH DAY YEAR



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



**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD

**INLAND PRODUCTION CO.**

NINE MILE #4-6  
 SECTION 6, T9S, R16E, S.L.B.&M.  
 660' FNL 583' FWL



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (801) 789-1017 \* FAX (801) 789-1813  
 Email: uels@easilink.com



**TOPOGRAPHIC  
 MAP**

|          |           |           |
|----------|-----------|-----------|
| <b>8</b> | <b>25</b> | <b>97</b> |
| MONTH    | DAY       | YEAR      |



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

EXHIBIT "C"

U-30096

# SOUTH WELLS DRAW

Wells Draw Unit  
UTU-73086

UTU-73087

UTU-64379

U-020255

U-020254

UTU-65207

UTU-72107

U-40894

UTU-64379

U-017985

UTU-64379

U-52018

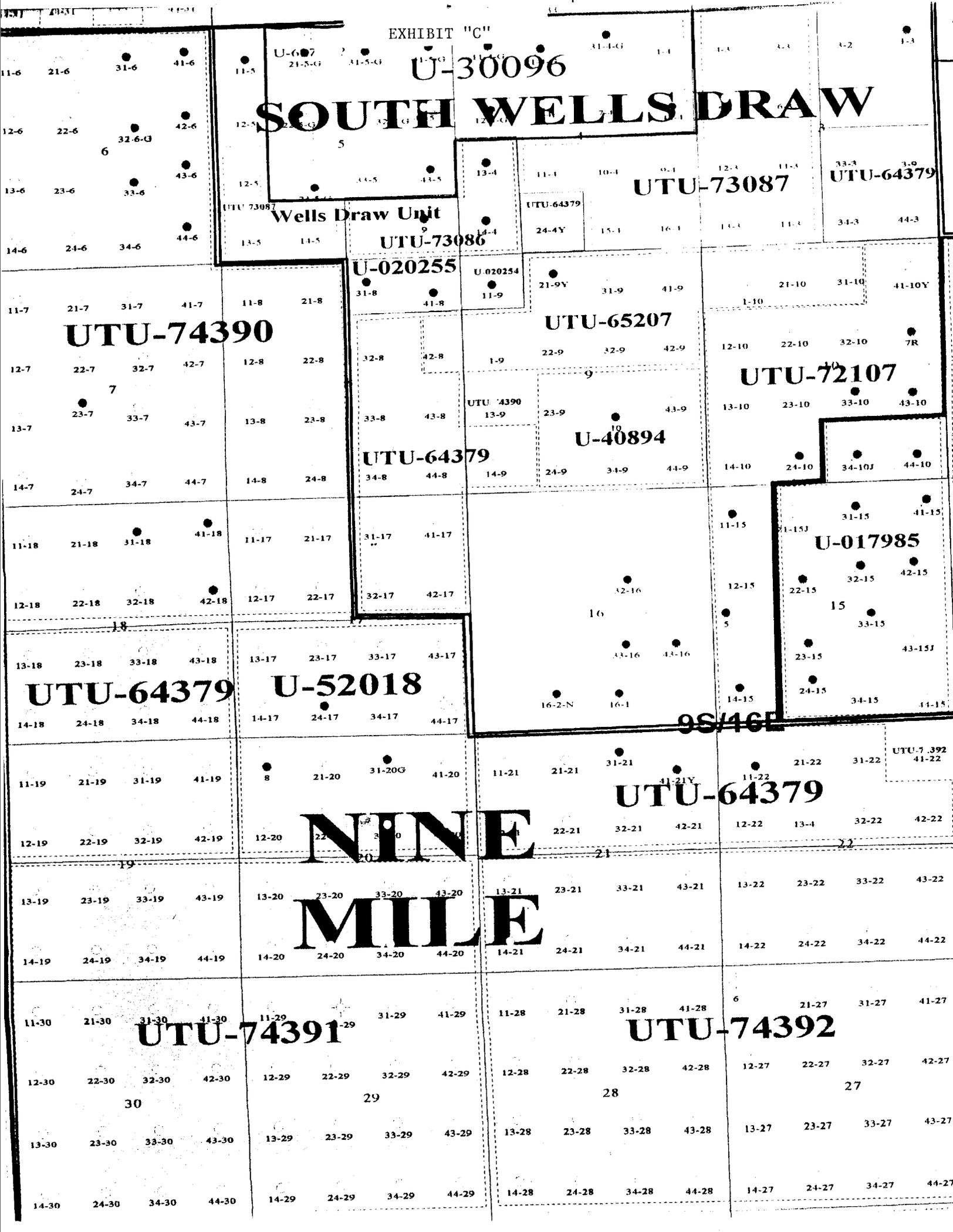
9S/46E

UTU-64379

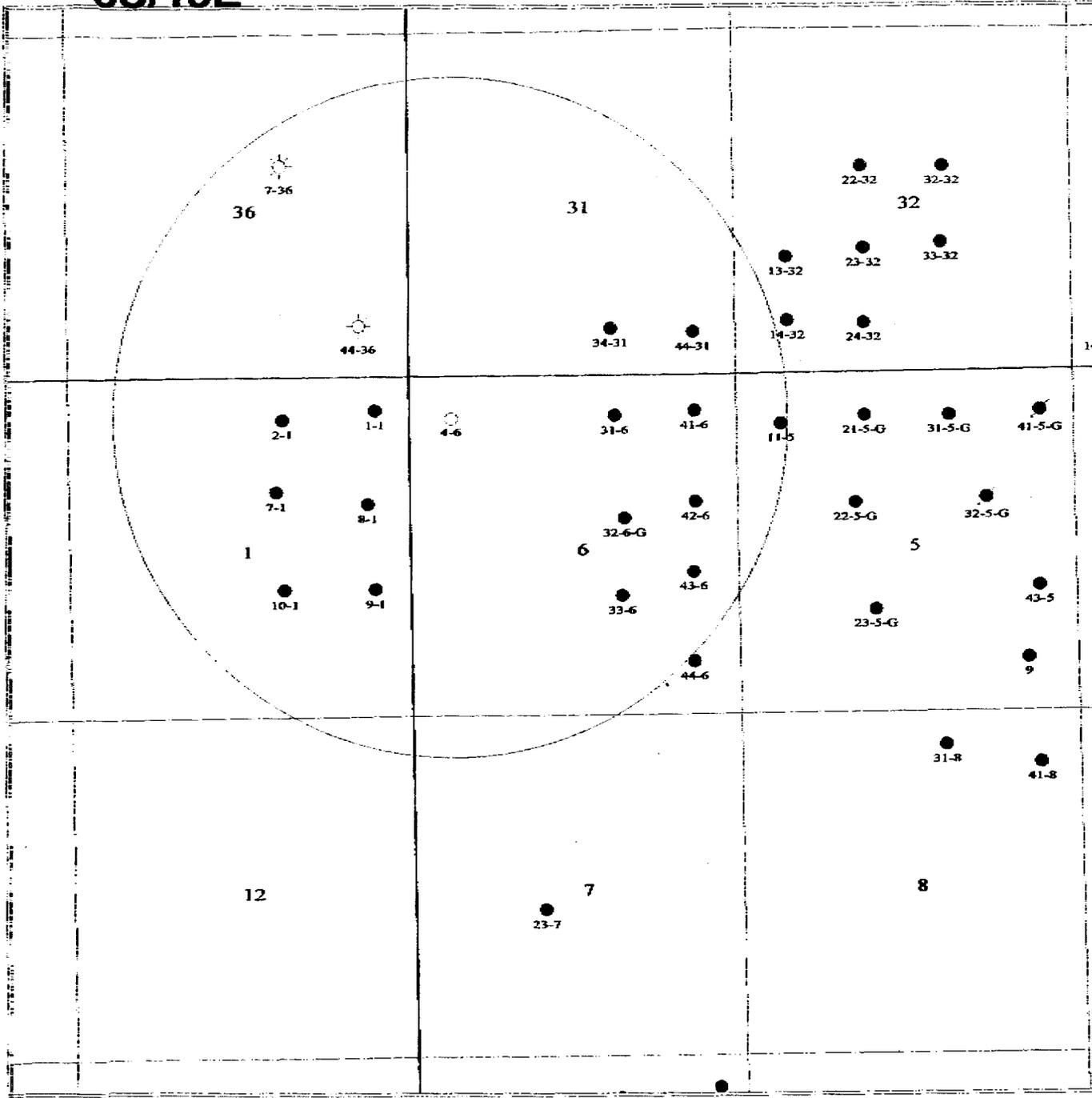
# NINE MILE

UTU-74391

UTU-74392



8S/15E



 475 17<sup>th</sup> Street Suite 1500  
Denver, Colorado 80202  
Phone: (303) 292-0900

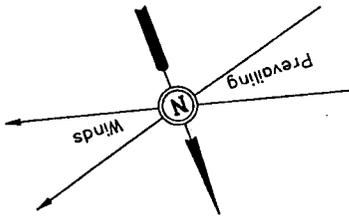
**Nine Mile #4-6**  
One Mile Radius  
Duchesne County, Utah

Date: 10/3/97 J.A.

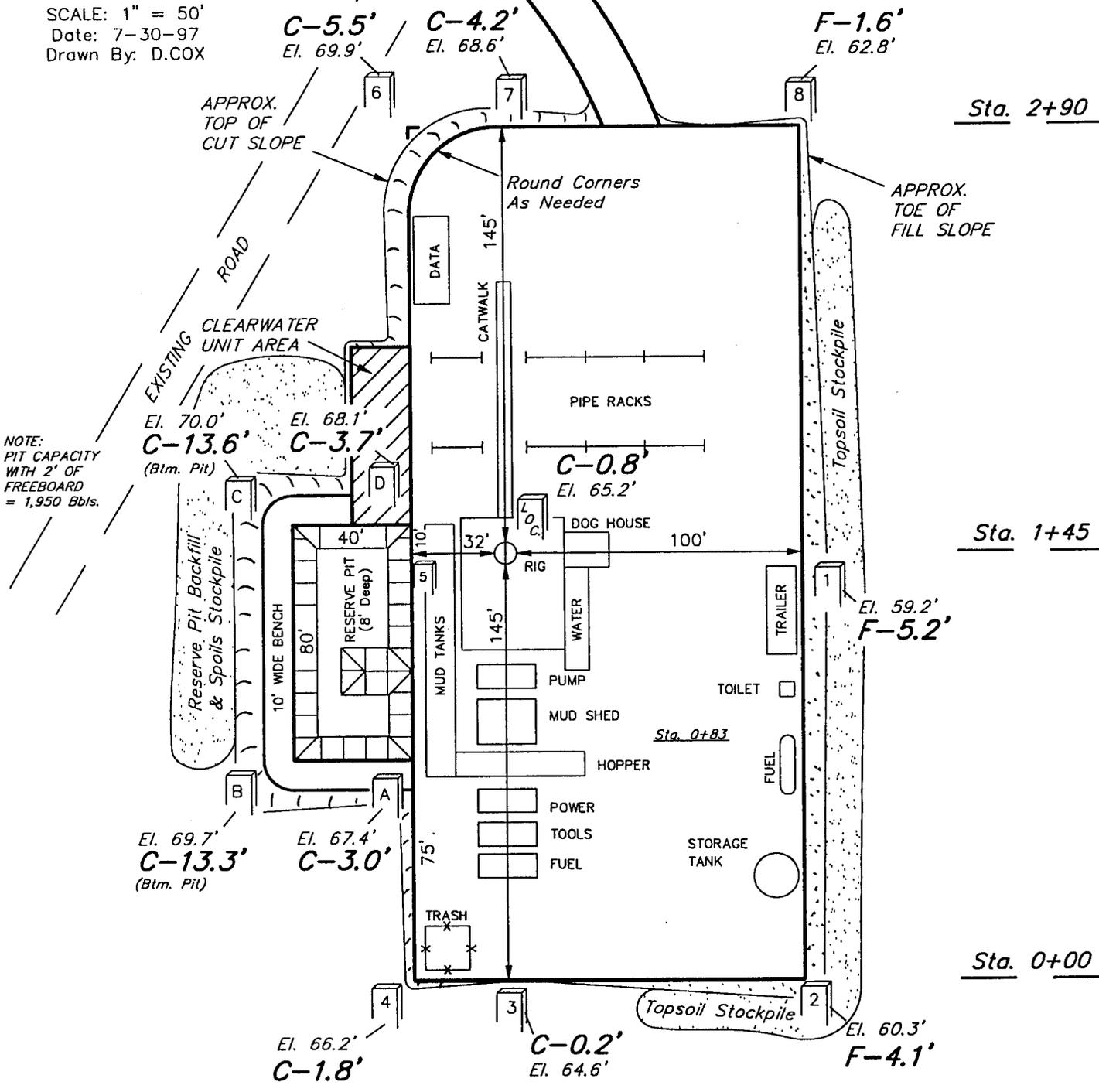
INLAND PRODUCTION CO.

LOCATION LAYOUT FOR

NINE MILE #4-6  
SECTION 6, T9S, R16E, S.L.B.&M.  
660' FNL 583' FNL



SCALE: 1" = 50'  
Date: 7-30-97  
Drawn By: D.COX



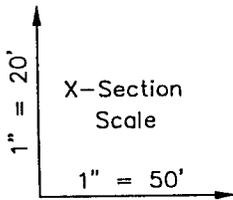
NOTE:  
PIT CAPACITY  
WITH 2' OF  
FREEBOARD  
= 1,950 Bbls.

Elev. Ungraded Ground at Location Stake = 5865.2'  
Elev. Graded Ground at Location Stake = 5864.4'

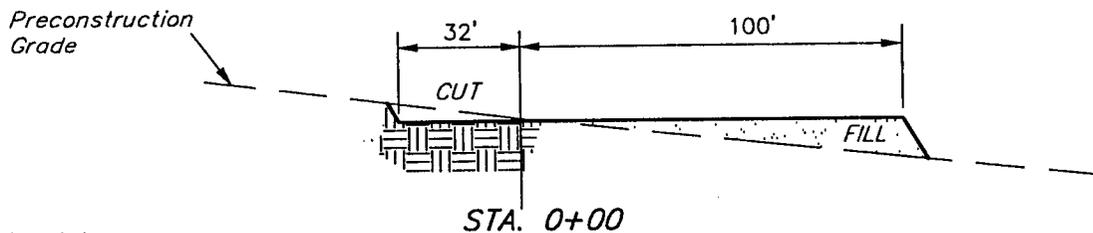
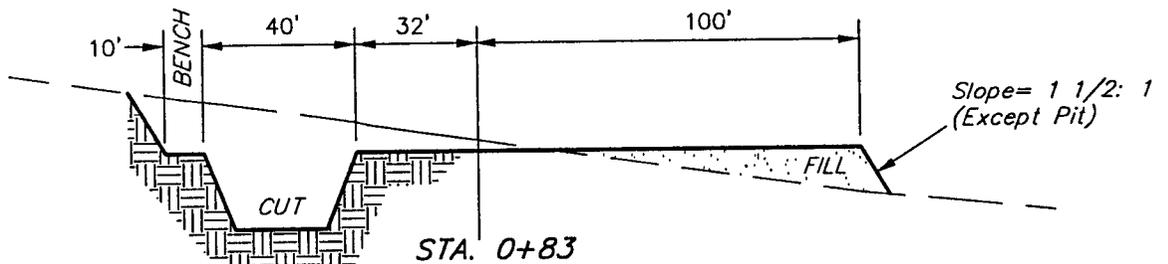
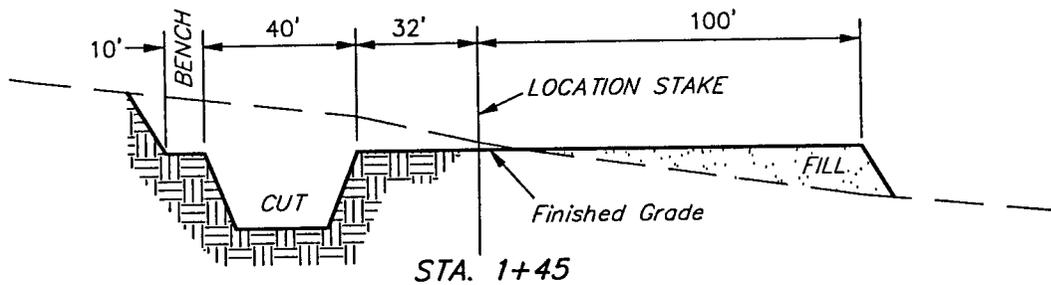
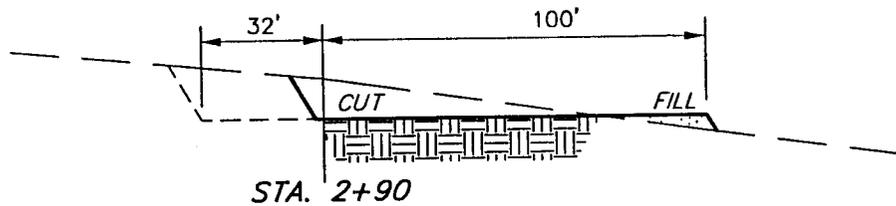
**INLAND PRODUCTION CO.**

**TYPICAL CROSS SECTIONS FOR**

**NINE MILE #4-6**  
**SECTION 6, T9S, R16E, S.L.B.&M.**  
**660' FNL 583' FNL**



Date: 8-28-97  
 Drawn By: D.COX



**NOTE:**

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

**APPROXIMATE YARDAGES**

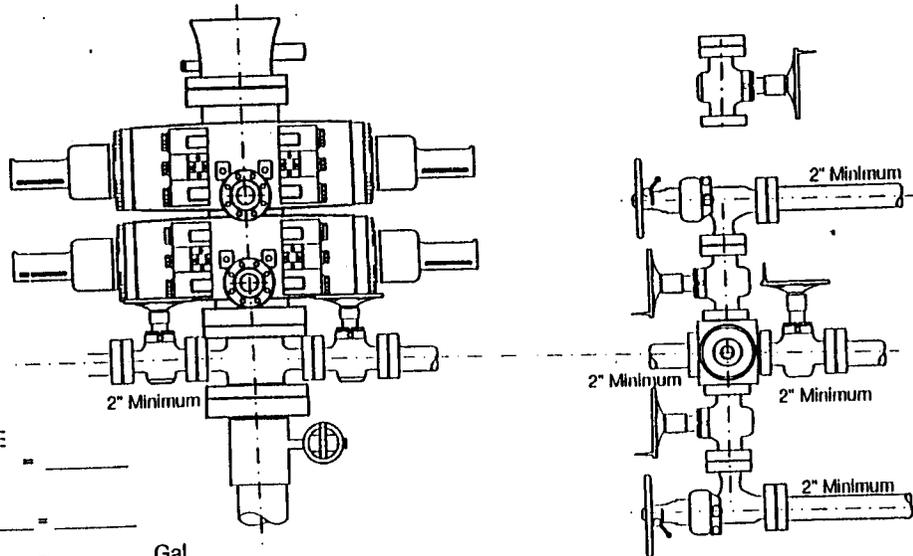
|                        |                        |
|------------------------|------------------------|
| <b>CUT</b>             |                        |
| (6") Topsoil Stripping | = 780 Cu. Yds.         |
| Remaining Location     | = 2,640 Cu. Yds.       |
| <b>TOTAL CUT</b>       | <b>= 3,420 CU.YDS.</b> |
| <b>FILL</b>            | <b>= 2,200 CU.YDS.</b> |

|   |                  |
|---|------------------|
| EXCESS MATERIAL AFTER 5% COMPACTION   | = 1,100 Cu. Yds. |
| Topsoil & Pit Backfill (1/2 Pit Vol.)                                       | = 1,090 Cu. Yds. |
| EXCESS MATERIAL After Reserve Pit is Backfilled & Topsoil is Re-distributed | = 10 Cu. Yds.    |

EXHIBIT "F"

2-M SYSTEM

RAM TYPE D.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: 10/15/97

|                                |
|--------------------------------|
| API NO. ASSIGNED: 43-013-31952 |
|--------------------------------|

WELL NAME: NINE MILE 4-6  
 OPERATOR: INLAND PRODUCTION COMPANY (N5160)

PROPOSED LOCATION:  
 NWNW 06 - T09S - R16E  
 SURFACE: 0660-FNL-0583-FWL  
 BOTTOM: 0660-FNL-0583-FWL  
 DUCHESNE COUNTY  
 UNDESIGNATED FIELD (002)

|                          |          |      |
|--------------------------|----------|------|
| INSPECT LOCATION BY: / / |          |      |
| TECH REVIEW              | Initials | Date |
| Engineering              |          |      |
| Geology                  |          |      |
| Surface                  |          |      |

LEASE TYPE: FED  
 LEASE NUMBER: UTU - 74390

PROPOSED PRODUCING FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Federal  State  Fee   
 (Number 4488944)
- Potash (Y/N)
- Oil shale (Y/N)
- Water permit  
 (Number GILSONITE STATE 7-32)
- RDCC Review (Y/N)  
 (Date: \_\_\_\_\_)

LOCATION AND SITING:

- R649-2-3. Unit: \_\_\_\_\_
- R649-3-2. General.
- R649-3-3. Exception.
- Drilling Unit.  
 Board Cause no: \_\_\_\_\_  
 Date: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

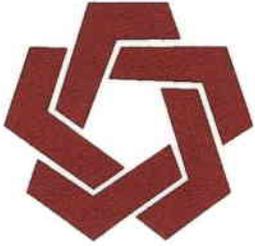
STIPULATIONS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



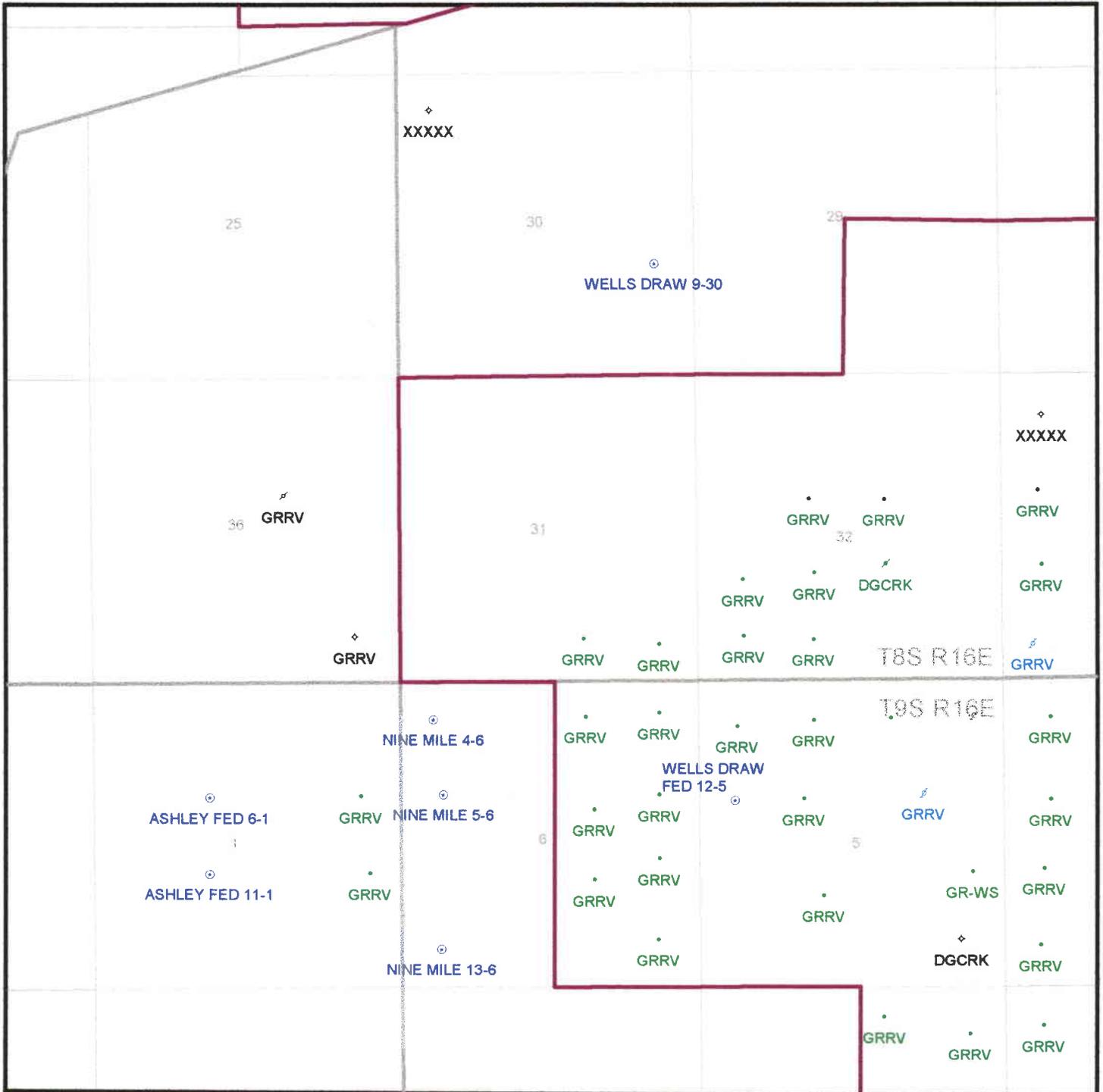
DIVISION OF OIL, GAS & MINING

OPERATOR: INLAND PRODUCTION (N5160)

FIELD: UNDESIGNATED (002)

SEC. TWP, RNG: 30, T8S, R16E, & 6, T9S, R16E

COUNTY: DUCHESNE UAC: R649-3-2



DATE PREPARED:  
16-OCT-1997

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or deepen or reentry to 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.  
**P.O. Box 790233 Vernal, UT 84079    Phone No. (801) 789-1866**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**See Attached**

5. Lease Designation and Serial No.  
**See Attached**

6. If Indian, Allottee or Tribe Name

7. If unit or CA, Agreement Designation

8. Well Name and No.  
**See Attached**

9. API Well No.

10. Field and Pool, or Exploratory Area  
**Monument Butte**

11. County or Parish, State  
**Duchesne, UT**

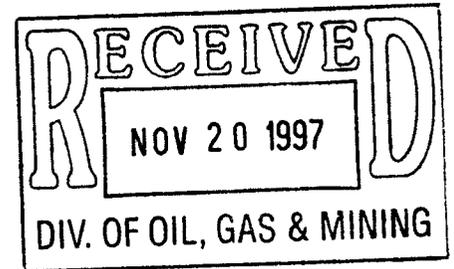
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                           |   |
|--|--|---|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Abandonment     | <input checked="" type="checkbox"/> Change of Plans |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Recompletion    | <input type="checkbox"/> New Construction           |
| <input type="checkbox"/> Final Abandonment Notice    | <input type="checkbox"/> Plugging Back   | <input type="checkbox"/> Non-Routine Fracturing     |
|  | <input type="checkbox"/> Casing repair   | <input type="checkbox"/> Water Shut-off             |
|  | <input type="checkbox"/> Altering Casing | <input type="checkbox"/> Conversion to Injection    |
|  | <input type="checkbox"/> Other _____     | <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)

**Inland Production Company requests authorization to increase the size of the reserve pit(s), from 80' X 40' X 8' deep, to 90' X 40' X 8' deep, in order to help contain fluids in the pits, and to help eliminate traffic around the locations, for the following locations that have been submitted for APD approval, listed on the enclosed attachment.**



14. I hereby certify that the foregoing is true and correct  
 Signed Cheryl Cameron Title Regulatory Compliance Specialist Date 11/14/97  
**Cheryl Cameron**

(This space of Federal or State office use.)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 Conditions of approval, if any:

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

**\*See Instruction on Reverse Side**

**The following locations were originally permitted for the reserve pit size to be 80' X 40' X 8' deep. Inland requests that the reserve pit (s) be enlarged to 90' X 40' X 8' deep:**

| <u>Lease No.</u> | <u>Name</u>               | <u>Legal Description</u> |
|------------------|---------------------------|--------------------------|
| U-74390          | Nine Mile #14-7           | SE/SW Sec. 7, T9S, R16E  |
| U-74390          | Nine Mile #15-7           | SW/SE Sec. 7, T9S R16E   |
| U-74390          | Nine Mile #4-6            | NW/NW Sec. 6, T9S, R16E  |
| U-74390          | Nine Mile #13-6           | SW/SW Sec. 6, T9S, R16E  |
| U-74390          | Nine Mile #5-6            | SW/NW Sec. 6, T9S, R16E  |
| U-30096          | Wells Draw #1-4           | NE/NE Sec. 4, T9S, R16E  |
| U-30096          | Wells Draw #7-4           | SW/NE Sec. 4, T9S R16E   |
| U-30096          | Wells Draw #6-4           | SE/NW Sec. 4, T9S, R16E  |
| U-47171          | Wells Draw #14A-34        | SE/SW Sec. 34, T8S, R16E |
| U-74869          | Tar Sands Federal #9-29   | NE/SE Sec. 29, T8S R17E  |
| U-76241          | Tar Sands Federal #12-28  | NW/SW Sec. 28, T8S, R17E |
| U-76240          | Pariette Draw # 8-22      | SE/NE Sec. 22, T8S, R17E |
| U-76240          | Pariette Draw #9-22       | NE/SE Sec. 22, T8S R17E  |
| U-44426          | Jonah #6-7                | SE/NW Sec. 7, T9S, R17E  |
| U-44426          | Jonah #7-7                | SW/NE Sec. 7, T9S, R17E  |
| U-44426          | Jonah #8-7                | SE/NE Sec. 7, T9S, R17E  |
| U-74805          | S. Pleasant Valley #11-15 | NE/SW Sec. 15, T9S, R17E |
| U-74805          | S. Pleasant Valley #5-15  | SW/NW Sec. 15, T9S, R17E |
| U-74805          | S. Pleasant Valley #15-15 | SW/SE Sec. 15, T9S R17E  |
| U-34346          | Hawkeye #9-23             | NE/SE Sec. 23, T8S, R16E |
| U-34346          | Hawkeye #10-23            | NW/SE Sec. 23, T8S, R16E |
| U-34346          | Hawkeye #14-23            | SE/SW Sec. 23, T8S, R16E |



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

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

November 24, 1997

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

Re: Nine Mile 4-6 Well, 660' FNL, 583' FWL, NW NW, Sec. 6,  
T. 9 S., R. 16 E., Duchesne County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31952.

Sincerely,

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

John R. Baza  
Associate Director

lwp

Enclosures

cc: Duchesne County Assessor

Bureau of Land Management, Vernal District Office

Operator: Inland Production Company  
Well Name & Number: Nine Mile 4-6  
API Number: 43-013-31952  
Lease: UTU-74390  
Location: NW NW Sec. 6 T. 9 S. R. 16 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 within 24 hours following spudding the well or commencing drilling operations. Contact Jim Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact John R. Baza (801)538-5334.

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

SPUDDING INFORMATION

Name of Company: INLAND PRODUCTION CO

Well Name: NINE MILE 4-6

Api No. 43-013-31952

Section: 6 Township: 9S Range: 16E County: DUCHESNE

Drilling Contractor: \_\_\_\_\_

Rig # \_\_\_\_\_

SPUDDED:

Date: 12/18/97

Time: 1: 00 PM

How: DRY HOLE

Drilling will commence: \_\_\_\_\_

Reported by: MIKE WARD

Telephone NO.: \_\_\_\_\_

Date: 12/22/97 Signed: JLT

✓

9/12

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL [X] DEEPEN [ ]
1b. TYPE OF WELL OIL GAS SINGLE MULTIPLE WELL [X] WELL [ ] OTHER [ ] ZONE [ ] ZONE [ ]

2. NAME OF OPERATOR Inland Production Company

3. ADDRESS OF OPERATOR P.O. Box 790233 Vernal, UT 84079 Phone: (801) 789-1866

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) At Surface NWNW At proposed Prod. Zone 660' FNL & 583' FWL RECEIVED OCT 14 1997

5. LEASE DESIGNATION AND SERIAL NO. UTU-74390
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Nine Mile
9. WELL NO. #4-6
10. FIELD AND POOL OR WILDCAT
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 6, T9S, R16E
12. County Duchesne
13. STATE UT

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* 11.4 Miles southwest of Myton, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 583'

16. NO. OF ACRES IN LEASE 2077.19

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

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

19. PROPOSED DEPTH 6500'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5864.4'

22. APPROX. DATE WORK WILL START\* 4th Quarter 1997

Table with 5 columns: SIZE OF HOLE, SIZE OF CASING, WEIGHT/FOOT, SETTING DEPTH, QUANTITY OF CEMENT. Rows include 12 1/4" hole with 8 5/8" casing and 7 7/8" hole with 5 1/2" casing.

The actual cement volumes will be calculated off of the open hole logs, plus 15% excess. SURFACE PIPE - Premium Plus Cement, w/ 2% Gel, 2% CaCl2, 1/4# /sk Flocele. LONG STRING - Lead: Hibond 65 Modified. Tail: Premium Plus Thixotropic.

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

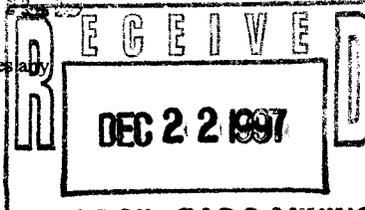
24. SIGNED Cheryl Cameron TITLE Regulatory Compliance Specialist DATE 10/10/97

PERMIT NO. APPROVAL DATE Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY: APPROVED BY [Signature] TITLE Assistant Field Manager Mineral Resources DATE NOV 24 1997

CONDITIONS OF APPROVAL ATTACHED \*See Instructions On Reverse Side

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



CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Nine Mile 4-6

API Number: 43-013-31952

Lease Number: U - 74390

Location: NWNW Sec. 06 T. 9S R. 16E

**NOTIFICATION REQUIREMENTS**

- |                                 |   |   |
|---------------------------------|---|---|
| Location Construction           | - | at least forty-eight (48) hours prior to construction of location and access roads.   |
| Location Completion             | - | prior to moving on the drilling rig.  |
| Spud Notice                     | - | at least twenty-four (24) hours prior to spudding the well.   |
| Casing String and Cementing     | - | at least twenty-four (24) hours prior to running casing and cementing all casing strings.   |
| BOP and Related Equipment Tests | - | at least twenty-four (24) hours prior to initiating pressure tests.   |
| First Production Notice         | - | within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days. |

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

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

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

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

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

### A. DRILLING PROGRAM

#### 1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 2. Pressure Control Equipment

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

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

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

#### 3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the base of the usable water, identified at 629 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

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

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. .Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing.

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

6. Notifications of Operations

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

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

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

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

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

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

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

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

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

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

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

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

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

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

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

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Ed Forsman (801) 789-7077  
Petroleum Engineer

Wayne P. Bankert (801) 789-4170  
Petroleum Engineer

Jerry Kenczka (801) 781-1190  
Petroleum Engineer

BLM FAX Machine (801) 781-4410

## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

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

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

## SURFACE USE PROGRAM

### Location Reclamation

The reserve pit and those portions of the location not needed for production facilities and/or operations shall be reclaimed and recontoured in accordance with the APD.

Stockpiled topsoil shall then be spread over the rehabilitated areas to approximate the original topsoil thickness. Stockpile enough topsoil near the reserve pit so that when the reserve pit is reclaimed, this can be respread over the reserve pit location.

Immediately after spreading, the rehabilitated areas and the remaining topsoil stockpile shall be seeded by drilling with the following seed mixture:

|                   |                        |            |
|-------------------|------------------------|------------|
| globemallow       | Spheralcea coccinea    | 2 lbs/acre |
| Shadscale         | Atriplex confertifolia | 3 lbs/acre |
| Fourwing saltbush | Atriplex canescens     | 4 lbs/acre |
| Galleta           | Haliaria jamesii       | 3 lbs/acre |

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

Upon final abandonment if additional recontouring is needed for these areas, the topsoil shall be removed prior to the final recontouring.

Recontour all disturbed areas to blend in appearance with the surrounding terrain.

All topsoil shall be spread over the recontoured surface.

### Mountain Plover

According to the timeframes listed on the following chart and prior to new construction and drilling activities, a detailed survey of the area within 0.5 mile of a proposed location and 300 feet either side of the center line of a proposed access route will be made by BLM or a qualified biologist to detect the presence of plovers. Extreme care shall be exercised to locate plovers due to their highly secretive and quiet nature. Where possible, the survey shall first be made from a stationary vehicle. All plovers located will be observed long enough to determine if a nest is present. If no visual sightings are made from the vehicle, the area will be surveyed again on foot.

| Starting Date of Construction or Drilling Activity | Number of Surveys |
|--|-------------------|
| From March 15 through April 15                     | 1                 |
| From April 16 through July 15                      | 2                 |
| From July 16 through August 15                     | 1                 |

The surveys will be conducted no more than 14 days prior to the date actual construction or drilling activities begin. If two surveys are required, they will be made at least 14 days apart with the last survey no more than 14 days prior to the start-up date.

If an active nest or chicks are found in the area, the planned activity will be delayed until the chicks are out of downy plumage; the brood vacates the area of influence; or, the nest has failed.

Grading activities and new road construction will be minimized from May 25 through June 30.

### **Raptors**

If this is to be a producing oil well location, a multi-cylinder engine or "hospital" type muffler will be installed to the pumping unit to reduce noise levels to wildlife behavior.

### **Sage grouse**

No new construction or surface disturbing activities will be allowed within a two (2) mile radius of strutting grounds from March 1 through June 30. Contact the authorized office of the BLM during this time period to determine if sage grouse are present.

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.  
**UTU-74390**

6. If Indian, Allottee or Tribe Name  
**NA**

7. If Unit or CA, Agreement Designation  
**NA**

8. Well Name and No.  
**NINE MILE 4-6-9-16**

9. API Well No.  
**43-013-31952**

10. Field and Pool, or Exploratory Area  
**MONUMENT BUTTE**

11. County or Parish, State  
**DUCHESNE 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.  
**475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**660 FNL 583 FWL                      NW/NW Section 6, T09S R16E**

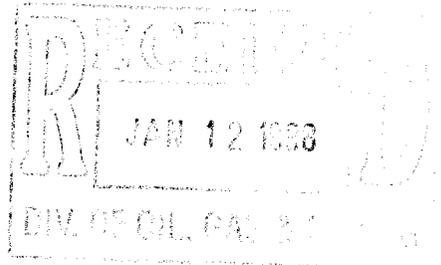
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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

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

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

MIRU Leon Ross. Drl 12-1/4" sfc hole to 100'. Spud sfc hole @ 1:00 pm, 12/18/97. Run 8-5/8" GS, 7 jt 8-5/8", 24#, J-55, ST & C csg (294'). Csg set @ 293'. RU Halliburton. Pmp 10 bbl dye wtr & 20 bbl gel. Pmp 120 sx Premium Plus w/2% CC, 2% gel, 1/2#/sk Flocele (14.8 ppg 1.37 cf/sk yield). Had 6 bbl cmt to sfc. Cmt held. RD Halliburton. Drl mouse & rat hole for Four Corners #6. RDMO.



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

Signed Shannon Smith Title Engineering Secretary Date 1/8/98

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:  
**CC: UTAH DOGM**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial No.  
**UTU-74390**

6. If Indian, Allottee or Tribe Name  
**NA**

7. If Unit or CA, Agreement Designation  
**NA**

8. Well Name and No.  
**NINE MILE 4-6-9-16**

9. API Well No.  
**43-013-31952**

10. Field and Pool, or Exploratory Area  
**MONUMENT BUTTE**

11. County or Parish, State  
**DUCHESNE 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.  
**475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**660 FNL 583 FWL                      NW/NW Section 6, T09S R16E**

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

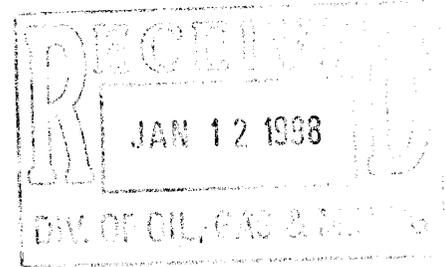
| TYPE OF SUBMISSION                                    | TYPE OF ACTION   |
|---|--|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Abandonment                           |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Recompletion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

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

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

**WEEKLY STATUS REPORT FOR THE PERIOD OF 12/18/97 - 12/24/97**

MIRU Four Corners #6. NU BOP's. Test lines, valves, rams & manifold to 2000 psi, annular preventer & csg to 1500 psi. PU BHA & GIH. Drl 100' - 317'.



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

Signed Shawna Smith Title Engineering Secretary Date 1/8/98

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

CC: UTAH DOGM

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial No.  
**UTU-74390**

6. If Indian, Allottee or Tribe Name  
**NA**

7. If Unit or CA, Agreement Designation  
**NA**

8. Well Name and No.  
**NINE MILE 4-6-9-16**

9. API Well No.  
**43-013-31952**

10. Field and Pool, or Exploratory Area  
**MONUMENT BUTTE**

11. County or Parish, State  
**DUCHESNE 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.  
**475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**660 FNL 583 FWL                      NW/NW Section 6, T09S R16E**

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

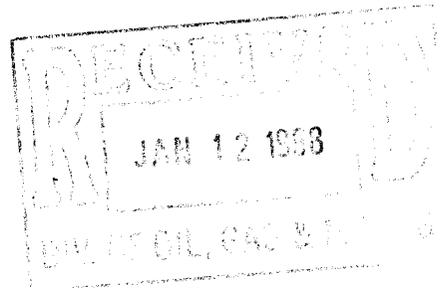
| TYPE OF SUBMISSION  | TYPE OF ACTION  |
|---|---|
| <input type="checkbox"/> Notice of Intent<br><input checked="" type="checkbox"/> Subsequent Report<br><input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Abandonment<br><input type="checkbox"/> Recompletion<br><input type="checkbox"/>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

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

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

**WEEKLY STATUS REPORT FOR THE PERIOD OF 12/25/97 - 12/31/97**

Drl plug, cmt & GS. Spud rotary rig @ 12:30 pm, 12/28/97. Pmp slug & TFB #2. Srvy. Drl 317' - 4602'.



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

Signed Shannon Smith Title Engineering Secretary Date 1/8/98

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

CC: UTAH DOGM

### SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.  
**UTU-74390**

6. If Indian, Allottee or Tribe Name  
**NA**

7. If Unit or CA, Agreement Designation  
**NA**

8. Well Name and No.  
**NINE MILE 4-6-9-16**

9. API Well No.  
**43-013-31952**

10. Field and Pool, or Exploratory Area  
**MONUMENT BUTTE**

11. County or Parish, State  
**DUCHESNE 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.  
**475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**660 FNL 583 FWL                      NW/NW Section 6, T09S R16E**

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 <b>Weekly Status</b> |
|   | <input type="checkbox"/> Change of Plans                       |
|   | <input type="checkbox"/> New Construction                      |
|   | <input type="checkbox"/> Non-Routine Fracturing                |
|   | <input type="checkbox"/> Water Shut-Off                        |
|   | <input type="checkbox"/> Conversion to Injection               |
|   | <input type="checkbox"/> Dispose Water                         |

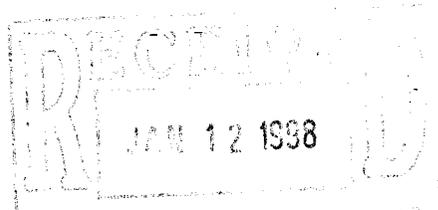
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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

### WEEKLY STATUS REPORT FOR THE PERIOD OF 1/1/98 - 1/7/98

Drilled 7-7/8" hole w/Four Corners, Rig #6 from 4602' - 6001'.

Run 5-1/2" GS, 1 jt 5-1/2" csg (42'), 5-1/2" FC, 139 jt 5-1/2", 15.5#, J-55, LT & C csg (5965'). Csg set @ 5977'. RD Casers. RU Halliburton. C&C. Pmp 20 bbl dye wtr & 20 bbl gel. Cmt w/390 sx Hibond 65 Modified (11.0 ppg 3.0 cf/sk yield) & tailed w/395 sx Thixotropic & 10% Calseal (14.2 ppg 1.59 cf/sk yield). Good returns until POB w/2200 psi @ 7:45 am, 1/2/98. Had 3 bbl get to sfc. RD Halliburton. ND BOP's. Set slips w/80,000#. Dump & clean mud tanks. Rig released @ 11:45 am, 1/2/98. RDMOL.



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

Signed Shannon Smith Title Engineering Secretary Date 1/8/98

(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.

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.

UTU-74390

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

**SUBMIT IN TRIPLICATE**

1. Type of Well

|  |                                   |                                |
|--|-----------------------------------|--------------------------------|
| <input checked="" type="checkbox"/> Oil Well | <input type="checkbox"/> Gas Well | <input type="checkbox"/> Other |
|--|-----------------------------------|--------------------------------|

8. Well Name and No.

NINE MILE 4-6-9-16

9. API Well No.

43-013-31952

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

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

660 FNL 583 FWL NW/NW Section 6, T09S R16E

11. County or Parish, State

DUCHESNE COUNTY, UTAH

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

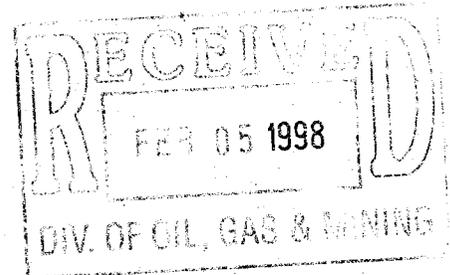
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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

**WEEKLY STATUS REPORT FOR THE PERIOD OF 1/15/98 - 1/21/98**

Perf CP sds @ 5770-80' & 5840-48'.

Perf B sds @ 5169-78', 5216-18' & 5220-30'.



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

Signed Shannon Smith Title Engineering Secretary Date 1/22/98

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

CC: UTAH DOGM

OPERATOR Inland Production Company  
ADDRESS 475 17th St., Suite 1500  
Denver, CO 80202

OPERATOR ACCT. NO. H5160

No. 2265 P. 2

| ACTION CODE   | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER   | WELL NAME  | WELL LOCATION |    |    |     |          | SPUD DATE | EFFECTIVE DATE |
|---|--------------------|----------------|--------------|--|---------------|----|----|-----|----------|-----------|----------------|
|   |                    |                |              |  | DD            | SC | TP | RG  | COUNTY   |           |                |
| A   | 99999              | 12281          | 43-03-31942  | Sand Wash 9-29-8-17<br><del>Tar Sands Facenet 9-29</del> | NW            | 29 | 85 | 17E | Duchesne | 12/11/97  | 12/10/97       |
| WELL 1 COMMENTS:<br>Spud well w/ Union Rig #7 @ 10:00 pm, 12/11/97<br>Entities added 2-10-98. Lec |                    |                |              |  |               |    |    |     |          |           |                |
|   | 99999              | 12282          | 43-03-31952  | Nine Mile 4-6  | NW            | 6  | 95 | 16E | Duchesne | 12/10/97  | 01/01/97       |
| WELL 2 COMMENTS:<br>Spud well w/ Leon Ross @ 1:00 pm, 12/10/97.                                   |                    |                |              |  |               |    |    |     |          |           |                |
| A   | 99999              | 12283          | 43-03-31943  | Sand Wash 12-28-8-17<br><del>Tar Sands 12-28</del>       | NW            | 28 | 85 | 17E | Duchesne | 12/20/97  | 12/20/97       |
| WELL 3 COMMENTS:<br>Spud well w/ Union #7 @ 12:30 pm, 12/20/97.                                   |                    |                |              |  |               |    |    |     |          |           |                |
| A   | 99999              | 12284          | 43-03-31954  | Nine Mile 13-6-9-16                                      | SW            | 6  | 95 | 16E | Duchesne | 1/1/98    | 1/1/98         |
| WELL 4 COMMENTS:<br>Spud well w/ Four Come Leon Ross @ 8:15 am 1/1/98.                            |                    |                |              |  |               |    |    |     |          |           |                |
| A   | 99999              | 12285          | 43-012-31972 | Wells Draw 6-4   | SW            | 4  | 95 | 16E | Duchesne | 1/7/98    | 1/7/98         |
| WELL 5 COMMENTS:<br>Spud well w/ ZCM Drilling @ 4:00 pm, 1/7/98                                   |                    |                |              |  |               |    |    |     |          |           |                |

IND RESOURCES-

4:50PM

9. 1998

Feb. 1989

- NOTATION: (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.

Shannon Smith  
Signature  
Engineering Technician 2/9/98  
Title Date  
Phone No. 303, 376-8107

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

OPERATOR Inland Production Company  
 ADDRESS 475 17th St., Suite 1500  
Denver, CO 80202

OPERATOR ACCT. NO. N5160

NO. 220V

INLAND RESOURCES

4:00PM

FEB. 1998

(3/89)

| ACTION CODE   | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER              | WELL NAME        | WELL LOCATION |    |    |     | SPUD DATE | EFFECTIVE DATE |          |
|---|--------------------|----------------|-------------------------|------------------|---------------|----|----|-----|-----------|----------------|----------|
|   |                    |                |                         |                  | QR            | SC | TP | RG  |           |                | COUNTY   |
| A   | 99999              | 12286          | 43-013-31773            | Nine Mile 10-7   | NW/SE         | 7  | 9S | 16E | Duchesne  | 12/1/97        | 12/1/97  |
| WELL 1 COMMENTS:<br>Spud well w/Four Corners # 6 @ 9:00 pm, 12/1/97.  |                    |                |                         |                  |               |    |    |     |           |                |          |
|   | 99999              | 12287          | 43-013-31803            | Nine Mile 15-7   | SW/SE         | 7  | 9S | 16E | Duchesne  | 12/2/97        | 12/2/97  |
| WELL 2 COMMENTS:<br>Spud well w/Leon Ross @ 2:45 pm, 12/2/97  |                    |                |                         |                  |               |    |    |     |           |                |          |
|   | 99999              | 12275          | <del>43-013-31596</del> | Castle Draw 1-2  | SW/NE         | 2  | 9S | 16E | Duchesne  | 11/25/97       | 11/25/97 |
| WELL 3 COMMENTS:<br>43-047-32843 Entity previously added.<br>Spud well w/Union rig # 7 @ 6:30 pm, 11/25/97. |                    |                |                         |                  |               |    |    |     |           |                |          |
|   | 99999              | 12275          | <del>43-013-31599</del> | Castle Draw 8-2  | SE/NE         | 2  | 9S | 16E | Duchesne  | 12/3/97        | 12/3/97  |
| WELL 4 COMMENTS:<br>43-047-32842 Entity previously added.<br>Spud well w/Union rig # 7 @ 10:45 pm, 12/3/97. |                    |                |                         |                  |               |    |    |     |           |                |          |
|   | 99999              | 12288          | 43-013-31953            | Nine Mile 5-6-10 | SW/NW         | 6  | 9S | 16E | Duchesne  | 12/7/97        | 12/7/97  |
| WELL 5 COMMENTS:<br>Spud well w/Leon Ross @ 9:00 am, 12/7/97.   |                    |                |                         |                  |               |    |    |     |           |                |          |

- 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.

Shannon Smith  
 Signature  
Engineering Technician 2/9/98  
 Title Date  
 Phone No. (303) 376-8107

OPERATOR Inland Production Company

OPERATOR ACCT. NO. H5160

ADDRESS 475 17th St., Suite 1500

Denver, CO 80202

0077-011

| ACTION CODE   | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER   | WELL NAME                                | WELL LOCATION |    |    |     | COUNTY   | SPUD DATE | EFFECTIVE DATE |
|---|--------------------|----------------|--------------|--|---------------|----|----|-----|----------|-----------|----------------|
|   |                    |                |              |  | QQ            | SC | TP | RG  |          |           |                |
| A   | 99999              | 12289          | 43-013-31719 | Nine Mile 6-6                            | SW            | 6  | 9S | 16E | Duchesne | 11/6/97   | 11/6/97        |
| WELL 1 COMMENTS:<br>Spud well w/Four Corners rig #6 @ 9:30 am, 11/6/97. |                    |                |              |  |               |    |    |     |          |           |                |
|   | 99999              | 12290          | 43-013-31776 | Nine Mile 6-7                            | SE            | 7  | 9S | 16E | Duchesne | 11/10/97  | 11/10/97       |
| WELL 2 COMMENTS:<br>Spud well w/Leon Ross @ 4:00 pm 11/10/97.           |                    |                |              |  |               |    |    |     |          |           |                |
| A   | 99999              | 12291          | 43-013-31777 | Nine Mile 5-7                            | SW            | 7  | 9S | 16E | Duchesne | 11/16/97  | 11/16/97       |
| WELL 3 COMMENTS:<br>Spud well w/Leon Ross @ 1:00 pm 11/16/97.           |                    |                |              |  |               |    |    |     |          |           |                |
| A   | 99999              | 12292          | 43-013-31778 | Nine Mile 7-7                            | SW            | 7  | 9S | 16E | Duchesne | 11/20/97  | 11/20/97       |
| WELL 4 COMMENTS:<br>Spud well w/Leon Ross @ 11:45 11/20/97.             |                    |                |              |  |               |    |    |     |          |           |                |
|   | 99999              | 12293          | 43-013-31990 | MBFNE 11-24-8-16<br>Monument Butte 11-24 | NE            | 24 | 8S | 16E | Duchesne | 11/17/97  | 11/17/97       |
| WELL 5 COMMENTS:<br>Spud well w/Union rig #7 @ 3:00 AM 11/17/97.        |                    |                |              |  |               |    |    |     |          |           |                |

- CONDITIONS (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.

Shannon Smith  
Signature  
Engineering Technician  
Title  
2/9/98  
Date  
Phone No. 303, 376-8107  
893-0162

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.

**UTU-74390**

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well    Gas Well    Other

8. Well Name and No.

**NINE MILE 4-6-9-16**

2. Name of Operator

**INLAND PRODUCTION COMPANY**

9. API Well No.

**43-013-31952**

3. Address and Telephone No.

**475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

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

**660 FNL 583 FWL      NW/NW Section 6, T09S R16E**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

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

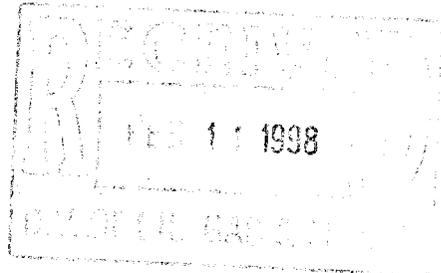
| TYPE OF SUBMISSION                                    | TYPE OF ACTION   |
|---|--|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Abandonment                           |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Recompletion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

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

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

**WEEKLY STATUS REPORT FOR THE PERIOD OF 1/22/98 - 1/28/98**

Perf D sds @ 4910-12' & 4914-22'.  
Swab well. Trip production tbg.



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

Signed Sharon Smith Title Engineering Secretary Date 1/28/98

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

**CC: UTAH DOGM**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial No.

**UTU-74390**

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

**NINE MILE 4-6-9-16**

9. API Well No.

**43-013-31952**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE 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.

**475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900**

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

**660 FNL 583 FWL                      NW/NW Section 6, T09S R16E**

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

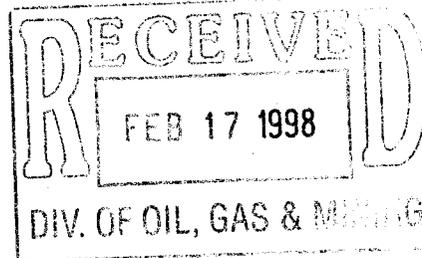
| TYPE OF SUBMISSION  | TYPE OF ACTION  |
|---|---|
| <input type="checkbox"/> Notice of Intent<br><input checked="" type="checkbox"/> Subsequent Report<br><input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Abandonment<br><input type="checkbox"/> Recompletion<br><input type="checkbox"/> Plugging Back<br><input type="checkbox"/> Casing Repair<br><input type="checkbox"/> Altering Casing<br><input checked="" type="checkbox"/> Other <u>Weekly Status</u>   |
|   | <input type="checkbox"/> Change of Plans<br><input type="checkbox"/> New Construction<br><input type="checkbox"/> Non-Routine Fracturing<br><input type="checkbox"/> Water Shut-Off<br><input type="checkbox"/> Conversion to Injection<br><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 direction-ally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR THE PERIOD OF 1/29/98 - 2/4/98**

**PLACE WELL ON PRODUCTION @ 4:00 PM, 1/30/98.**



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

Signed Shannon Smith Title Engineering Secretary Date 2/4/98

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

**CC: UTAH DOGM**

SUBMIT IN DUPLICATE\*  
(See other instructions on reverse side)

FORM APPROVED  
OMB NO. 1004-0137

Expires: February 28, 1995

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

5. LEASE DESIGNATION AND SERIAL NO.  
**UTU-74390**

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

7. UNIT AGREEMENT NAME  
**N/A**

8. FARM OR LEASE NAME, WELL NO.  
**NINE MILE 4-6-9-16**

9. API WELL NO.  
**43-013-31952**

10. FIELD AND POOL OR WILDCAT  
**MONUMENT BUTTE**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**Section 6, T09S R16E**

12. COUNTY OR PARISH  
**DUCHESNE**

13. STATE  
**UT**

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WORK

OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

1b. TYPE OF WELL

NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DIFF RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR

**Inland Production Company**

3. ADDRESS AND TELEPHONE NO.

**410 Seventeenth Street, Suite 700, Denver, CO 80202 (303) 292-0900**

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

At Surface

**NW/NW  
660 FNL 583 FWL**

At top prod. interval reported bel

14. PERMIT NO.  
**43-013-31952**

DATE ISSUED  
**11-24-97**

15. DATE SPUDDED  
**12-18-97**

16. DATE T.D. REACHED  
**1-1-98**

17. DATE COMPL. (Ready to prod.)  
**1-30-98**

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*  
**5876' KB; 5864' GL**

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

**6001'**

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

**5932'**

22. IF MULTIPLE COMPL., HOW MANY\*

**N/A**

23. INTERVALS DRILLED BY

**----->**

ROTARY TOOLS

**X**

CABLE TOOLS

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

**Green River 4910'-5848'**

25. WAS DIRECTIONAL SURVEY MADE

**No**

26. TYPE ELECTRIC AND OTHER LOGS RUN

**3-2-98**

**D/IGL/GR/CAL, SD/DSN/GR, CBL**

27. WAS WELL CORED

**No**

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

| CASING SIZE/GRADE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD | AMOUNT PULLED |
|-------------------|-----------------|----------------|-----------|---------------------------------|---------------|
| 8 5/8             | 24#             | 293'           | 12 1/4    | 120 sx Prem Plus                |               |
| 5 1/2             | 15.5#           | 5977'          | 7 7/8     | 390 sx Hibond & 395 sx Thixo    |               |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE   | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|---------------|-------------|--------|----------------|-----------------|
|      |          |             |               |             | 2-7/8" | 5892'          |                 |

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

**CP Sand - 5770'-80'; 5840'-48'**  
**B Sand - 5169'-78'; 5216'-18'; 5220'-30'**  
**D Sand - 4910'-12'; 4914'-22'**

**4 JSPF**  
**4 JSPF**  
**4 JSPF**

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

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED    |
|---------------------|-------------------------------------|
| 5770'-5848'         | 120,300# 20/40 sd in 564 Delta Frac |
| 5169'-5230'         | 130,200# 20/40 sd in 609 Delta Frac |
| 4910'-4922'         | 120,300# 20/40 sd in 568 Delta Frac |

33.\* PRODUCTION

DATE FIRST PRODUCTION **1-30-98** PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) **Pumping - 2-1/2" x 1-1/2" x 16' RHAC pump** WELL STATUS (Producing or shut-in) **producing**

DATE OF TEST **10 Day Avg** HOURS TESTED **1/1/98** CHOKER SIZE **N/A** PROD'N. FOR TEST PERIOD **→** OIL--BBL. **50** GAS--MCF. **87** WATER--BBL. **56** GAS-OIL RATIO **1.740**

FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE **→** OIL--BBL. GAS--MCF. WATER--BBL. OIL GRAVITY-API (CORR.)

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

**Sold & Used for Fuel**

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

**Items in #26**

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

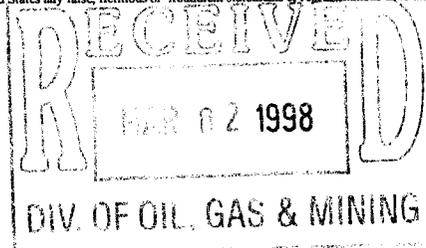
SIGNED **Shelby Knight**

TITLE **Permitting Specialist**

DATE **2/25/98**

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

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



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. | TOP         |                  |
|------------------|-------|--------|-----------------------------|-------------|------------------|
|                  |       |        |                             | MEAS. DEPTH | TRUE VERT. DEPTH |
| Garden Gulch Mkr | 3850' |        |                             |             |                  |
| Garden Gulch 2   | 4191' |        |                             |             |                  |
| Point 3          | 4455' |        |                             |             |                  |
| X Marker         | 4724' |        |                             |             |                  |
| Y Marker         | 4760' |        |                             |             |                  |
| Douglas Creek    | 4874' |        |                             |             |                  |
| Bi-Carb          | 5120' |        |                             |             |                  |
| B-Lime           | 5243' |        |                             |             |                  |
| Castle Peak      | 5758' |        |                             |             |                  |
| Basal Carbonate  | NDE   |        |                             |             |                  |
| Total Depth      | 6775' |        |                             |             |                  |

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
DRILLING INSPECTION FORM

OPERATOR: INLAND PRODUCTION CO COMPANY REP: MIKE WARD

WELL NAME NINE MILE #4-6-9-16 API NO 43-013-31952

QTR/QTR: NW/NW SECTION: 6 TWP: 9S RANGE: 16E

CONTRACTOR: FOUR CORNERS DRILLING RIG NUMBER: #6

INSPECTOR: DENNIS L. INGRAM TIME: 2:45 PM DATE: 12/30/97

SPUD DATE: DRY: 12/18/97 ROTARY: 12/28/97 PROJECTED T.D.: 6000'

OPERATIONS AT TIME OF VISIT: DRILLING AHEAD AT 3755 FEET.

WELL SIGN: YES MUD WEIGHT 8.4+ LBS/GAL BOPE: Y

BLOOIE LINE: Y FLARE PIT: N H2S POTENTIAL: N

ENVIRONMENTAL:

RESERVE PIT: Y FENCED: Y LINED: N PLASTIC: N

RUBBER: \_\_\_\_\_ BENTONITE: \_\_\_\_\_ SANITATION: (2)

BOPE TEST RECORDED IN THE RIG DAILY TOUR BOOK: YES

1300 PSI ACCUMULATOR, BOPE TESTED ON 12/23/97, CHART DISPLAYED  
WITH DATE AND WELL NAME.

REMARKS:

(LAST HOLE WAS NINE MILE #5-6, T.D. ON 12/22/97 AT 5950'  
AND RAN 5 1/2" CASING TO BOTTOM). THIS RIG MOVED AND TESTED  
BOPE BEFORE SHUTTING DOWN FOR CHRISTMAS. THEY ARE PRESENTLY  
MAKING 60 FEET PER HOUR WITH 859 TCD UNITS OF GAS, WITH BIT #2,  
A 7 7/8" REED HP53 WITH 3-14 JET NOZZLES. RIG SHOULD REACH  
TOTAL DEPTH BY FRIDAY OF THIS WEEK.

**WEST POINT UNIT WELL LISTING**

AS OF 7/13/98

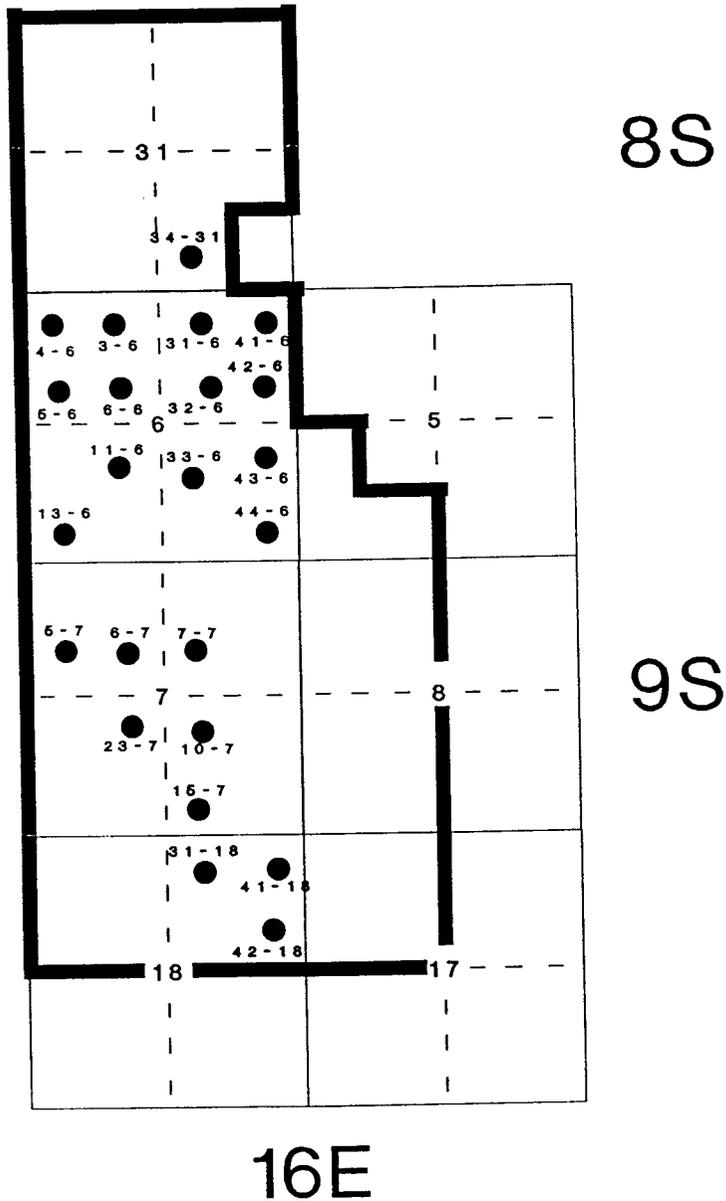
T. 8 & 9S, R. 16E

| SEC. | FIELD           | WELL NAME                     | STATUS | API NUMBER |       |
|------|-----------------|-------------------------------|--------|------------|-------|
| 6    | WEST POINT UNIT | MON FED #31-6Y                | PROD   | 4301331717 | 12060 |
| 6    | WEST POINT UNIT | FED 32- <del>36</del> -09-16Y | PROD   | 4301331390 | 11211 |
| 6    | WEST POINT UNIT | MON FED #42-6Y                | PROD   | 4301331645 | 11947 |
| 6    | WEST POINT UNIT | MON FED #43-6Y                | PROD   | 4301331644 | 11960 |
| 6    | WEST POINT UNIT | MON FED #33-6Y                | PROD   | 4301331559 | 11933 |
| 6    | WEST POINT UNIT | FED 44- <del>36</del> -09-16Y | PROD   | 4301331720 | 12066 |
| 7    | WEST POINT UNIT | MON FED #23-7Y                | PROD   | 4301331694 | 12019 |
| 18   | WEST POINT UNIT | MON FED #41-18Y               | PROD   | 4301331646 | 11941 |
| 18   | WEST POINT UNIT | FED 31-18-9-16Y               | PROD   | 4301331725 | 12104 |
| 18   | WEST POINT UNIT | FED 42-18-09-16Y              | PROD   | 4301331724 | 12124 |
| 31   | WEST POINT UNIT | MON FED 34-31-8-16            | PROD   | 4301331715 | 12067 |
| 6    | WEST POINT UNIT | MON FED 41-6-9-16Y            | PROD   | 4301331718 | 12043 |
| 6    | WEST POINT UNIT | NINE MILE 3-6                 | PROD   | 4301331810 | 12264 |
| 6    | WEST POINT UNIT | NINE MILE 11-6                | PROD   | 4301331812 | 12266 |
| 6    | WEST POINT UNIT | NINE MILE FEDERAL 15-6-9-16   | PROD   | 4301332010 | 12327 |
| 7    | WEST POINT UNIT | NINE MILE 6-7                 | PROD   | 4301331776 | 12290 |
| 7    | WEST POINT UNIT | NINE MILE 10-7                | PROD   | 4301331773 | 12286 |
| 7    | WEST POINT UNIT | NINE MILE FEDERAL 12-7-9-16   | PROD   | 4301332014 | 12328 |
| *6   | WEST POINT UNIT | NINE MILE 4-6                 | PROD   | 4301331952 | 12282 |
| 6    | WEST POINT UNIT | NINE MILE 5-6                 | PROD   | 4301331953 | 12288 |
| 6    | WEST POINT UNIT | NINE MILE 13-6                | PROD   | 4301331954 | 12284 |
| 6    | WEST POINT UNIT | NINE MILE 6-6                 | PROD   | 4301331719 | 12289 |
| 7    | WEST POINT UNIT | NINE MILE 5-7                 | PROD   | 4301331777 | 12291 |
| 7    | WEST POINT UNIT | NINE MILE 7-7                 | PROD   | 4301331778 | 12292 |
| 7    | WEST POINT UNIT | NINE MILE 15-7                | PROD   | 4301331803 | 12287 |
| 7    | WEST POINT UNIT | NINE MILE 2-7                 | PROD   | 4301332011 | 12316 |
| 7    | WEST POINT UNIT | NINE MILE 3-7                 | PROD   | 4301332012 | 12313 |
| 7    | WEST POINT UNIT | NINE MILE 4-7                 | PROD   | 4301332013 | 12325 |
|      | WEST POINT UNIT | NINE MILE 14-6                | P & A  | 4301331999 |       |

WEST POINT (GR) UNIT ENTITY 12418 EFF 6-1-98:

# WEST POINT (GREEN RIVER) UNIT Duchesne County, Utah

EFFECTIVE: JUNE 1, 1998



**—** UNIT OUTLINE (UTU77107X)

2,738.19 ACRES

SECONDARY  
ALLOCATION  
FEDERAL 100%

**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.

**UTU-74390**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**WEST POINT (GR RVR)**

8. Well Name and No.

**NINE MILE 4-6-9-16**

9. API Well No.

**43-013-31952**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE 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.

**475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900**

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

**660 FNL 583 FWL                      NW/NW Section 6, T09S R16E**

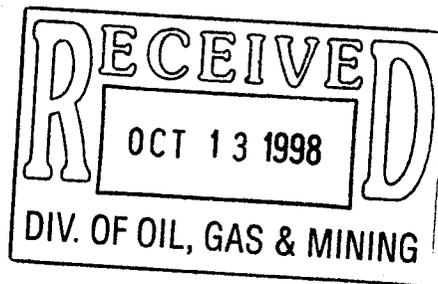
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION  | TYPE OF ACTION  |
|---|---|
| <input type="checkbox"/> Notice of Intent<br><input checked="" type="checkbox"/> Subsequent Report<br><input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Abandonment<br><input type="checkbox"/> Recompletion<br><input type="checkbox"/> Plugging Back<br><input type="checkbox"/> Casing Repair<br><input type="checkbox"/> Altering Casing<br><input checked="" type="checkbox"/> Other <u>Site Security</u>   |
|   | <input type="checkbox"/> Change of Plans<br><input type="checkbox"/> New Construction<br><input type="checkbox"/> Non-Routine Fracturing<br><input type="checkbox"/> Water Shut-Off<br><input type="checkbox"/> Conversion to Injection<br><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.)\*

Attached please find the site security diagram for the above referenced well.



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

Signed

*Debbie E. Knight*

Title

Manager, Regulatory Compliance

Date

10/7/98

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

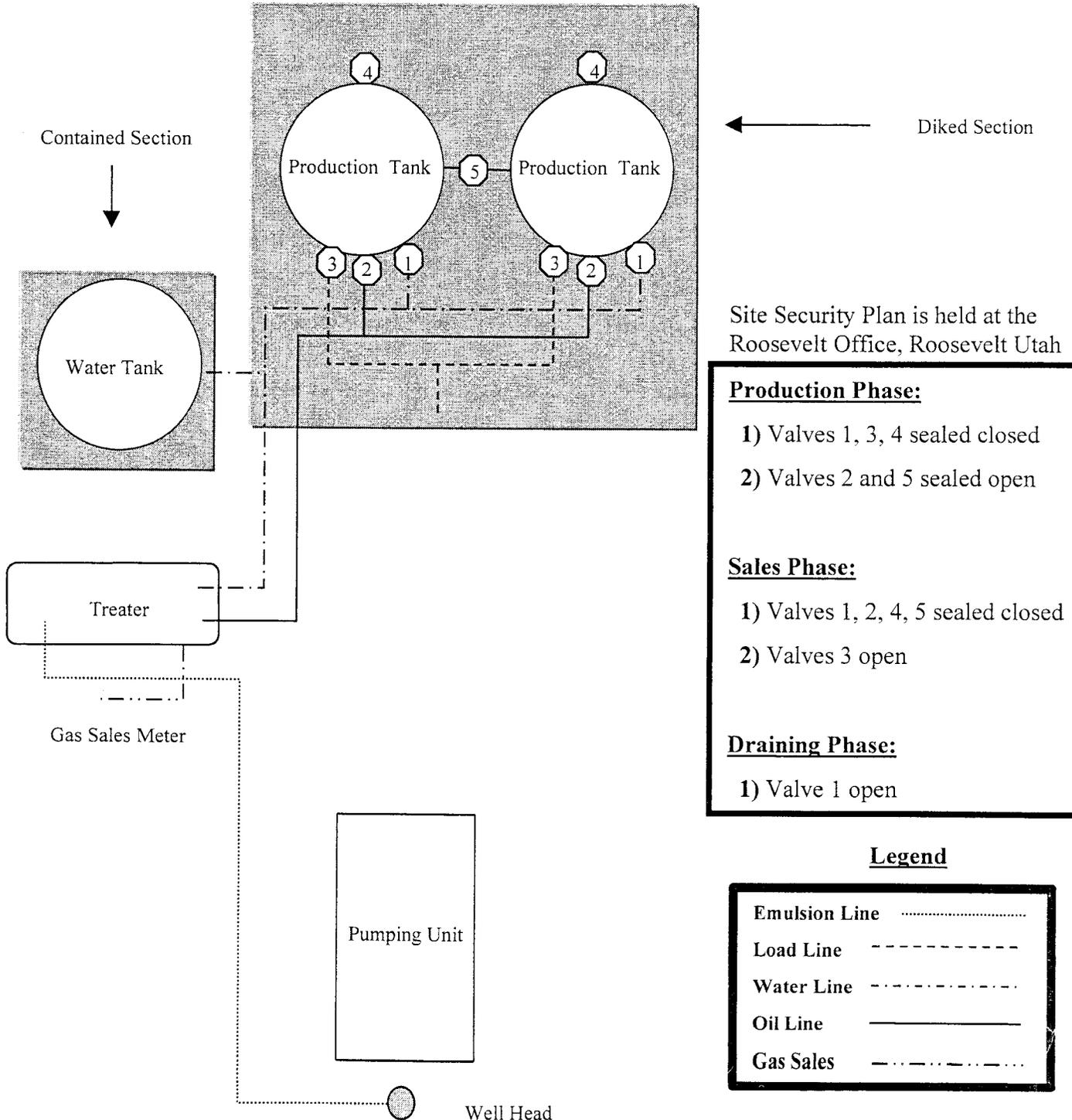
Date \_\_\_\_\_

Conditions of approval, if any:

**CC: UTAH DOGM**

# Inland Production Company Site Facility Diagram

Nine Mile Federal 4-6  
NW/NW Sec. 6, T9S, 16E  
Duchesne County  
May 12, 1998



Site Security Plan is held at the Roosevelt Office, Roosevelt Utah

- Production Phase:**
- 1) Valves 1, 3, 4 sealed closed
  - 2) Valves 2 and 5 sealed open
- Sales Phase:**
- 1) Valves 1, 2, 4, 5 sealed closed
  - 2) Valves 3 open
- Draining Phase:**
- 1) Valve 1 open

**Legend**

|               |             |
|---------------|-------------|
| Emulsion Line | .....       |
| Load Line     | -----       |
| Water Line    | - . - . - . |
| Oil Line      | —————       |
| Gas Sales     | - - - - -   |



# United States Department of the Interior



## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, UT 84145-0155

<http://www.blm.gov>

IN REPLY REFER TO:

3106

(UT-924)

September 16, 2004

### Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

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

Michael Coulthard  
Acting Chief, Branch of  
Fluid Minerals

### Enclosure

1. State of Texas Certificate of Registration

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



## 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 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

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

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

**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**

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

**CA No.** **Unit:** **WEST POINT (GREEN RIVER)**

**WELL(S)**

| NAME                   | SEC | TWN  | RNG  | API NO     | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |
|------------------------|-----|------|------|------------|-----------|------------|-----------|-------------|
| NINE MILE 14-31        | 31  | 080S | 160E | 4301332015 | 12418     | Federal    | WI        | A           |
| WEST POINT 9-31-8-16   | 31  | 080S | 160E | 4301332119 | 12418     | Federal    | WI        | A           |
| WEST POINT U 12-5-9-16 | 05  | 090S | 160E | 4301331933 | 12418     | Federal    | OW        | P           |
| NINE MILE 3-6          | 06  | 090S | 160E | 4301331816 | 12418     | Federal    | WI        | A           |
| NINE MILE 4-6          | 06  | 090S | 160E | 4301331952 | 12418     | Federal    | OW        | P           |
| NINE MILE 5-6-9-16     | 06  | 090S | 160E | 4301331953 | 12418     | Federal    | WI        | A           |
| NINE MILE 13-6-9-16    | 06  | 090S | 160E | 4301331954 | 12418     | Federal    | WI        | A           |
| NINE MILE 15-6-9-16    | 06  | 090S | 160E | 4301332010 | 12418     | Federal    | WI        | A           |
| NINE MILE 2-7-9-16     | 07  | 090S | 160E | 4301332011 | 12418     | Federal    | OW        | P           |
| NINE MILE 3-7-9-16     | 07  | 090S | 160E | 4301332012 | 12418     | Federal    | WI        | A           |
| NINE MILE 4-7-9-16     | 07  | 090S | 160E | 4301332013 | 12418     | Federal    | OW        | P           |
| NINE MILE 12-7-9-16    | 07  | 090S | 160E | 4301332014 | 12418     | Federal    | OW        | P           |
| WEST POINT 1-7-9-16    | 07  | 090S | 160E | 4301332210 | 12418     | Federal    | OW        | P           |
| WEST POINT 8-7-9-16    | 07  | 090S | 160E | 4301332211 | 12418     | Federal    | OW        | P           |
| WEST POINT 9-7-9-16    | 07  | 090S | 160E | 4301332212 | 12418     | Federal    | WI        | A           |
| WEST POINT 3-8-9-16    | 08  | 090S | 160E | 4301332207 | 12418     | Federal    | D         | PA          |
| WEST POINT 4-8-9-16    | 08  | 090S | 160E | 4301332208 | 12418     | Federal    | OW        | P           |
| WEST POINT 5-8-9-16    | 08  | 090S | 160E | 4301332209 | 12418     | Federal    | OW        | P           |
| WEST POINT 6-8-9-16    | 08  | 090S | 160E | 4301332282 | 12418     | Federal    | OW        | P           |
| WEST POINT 3-17-9-16   | 17  | 090S | 160E | 4301332278 | 12418     | Federal    | OW        | P           |
| WEST POINT 4-17-9-16   | 17  | 090S | 160E | 4301332280 | 12418     | Federal    | OW        | P           |
| WEST POINT 5-17-9-16   | 17  | 090S | 160E | 4301332281 | 12418     | Federal    | 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:**

- Changes entered in the Oil and Gas Database on: 2/28/2005
- Changes have been entered on the Monthly Operator Change Spread Sheet on: 2/28/2005
- Bond information entered in RBDMS on: 2/28/2005
- Fee/State wells attached to bond in RBDMS on: 2/28/2005
- Injection Projects to new operator in RBDMS on: 2/28/2005
- 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

|  |  |   |
|--|--|---|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |  | <b>FORM 9</b>   |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>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. |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>UTU-74390 |
|  |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>                |
| <b>1. TYPE OF WELL</b><br>Water Injection Well   |  | <b>7. UNIT or CA AGREEMENT NAME:</b><br>GMBU (GRRV)         |
| <b>2. NAME OF OPERATOR:</b><br>NEWFIELD PRODUCTION COMPANY   |  | <b>8. WELL NAME and NUMBER:</b><br>NINE MILE 4-6            |
| <b>3. ADDRESS OF OPERATOR:</b><br>Rt 3 Box 3630 , Myton, UT, 84052   |  | <b>9. API NUMBER:</b><br>43013319520000                     |
| <b>PHONE NUMBER:</b><br>435 646-4825 Ext   |  | <b>9. FIELD and POOL or WILDCAT:</b><br>MONUMENT BUTTE      |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>0660 FNL 0583 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NWNW Section: 06 Township: 09.0S Range: 16.0E Meridian: S  |  | <b>COUNTY:</b><br>DUCHESNE                                  |
|  |  | <b>STATE:</b><br>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<br>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<br>Date of Work Completion:<br>7/10/2014 | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS      | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> CHANGE WELL NAME               |
| <input type="checkbox"/> SPUD REPORT<br>Date of Spud:  | <input checked="" type="checkbox"/> CHANGE WELL STATUS | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input checked="" type="checkbox"/> CONVERT WELL TYPE   |
| <input type="checkbox"/> DRILLING REPORT<br>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 type="checkbox"/> OTHER                          | OTHER: <input style="width: 100px;" type="text"/>       |

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 9:45 AM on  
07/10/2014

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**  
July 11, 2014

|   |                                     |   |
|---|-------------------------------------|---|
| <b>NAME (PLEASE PRINT)</b><br>Lucy Chavez-Naupoto | <b>PHONE NUMBER</b><br>435 646-4874 | <b>TITLE</b><br>Water Services Technician |
| <b>SIGNATURE</b><br>N/A                           | <b>DATE</b><br>7/10/2014            |   |



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## UNDERGROUND INJECTION CONTROL PERMIT

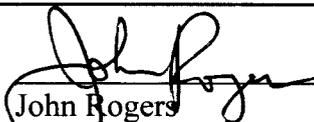
Cause No. UIC-365

**Operator:** Newfield Production Company  
**Well:** Nine Mile 4-6-9-16  
**Location:** Section 6, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-31952  
**Well Type:** Enhanced Recovery (waterflood)

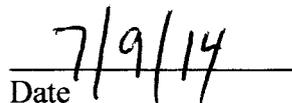
### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on June 29, 2010.
2. Maximum Allowable Injection Pressure: 2,000 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (4,189' – 6,001')
5. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by:

  
John Rogers  
Associate Director

Date



JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
SITLA  
Jill Loyle, Newfield Production Company, Denver  
Newfield Production Company, Myton  
Duchesne County  
Well File

N:\O&G Reviewed Docs\ChronFile\UIC\Newfield





GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

June 29, 2010

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

Subject: Greater Monument Butte Unit Well: Nine Mile 4-6, Section 6, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-31952

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing/tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.

A final approval to commence injection will be issued upon satisfactory completion of the listed stipulations. If you have any questions regarding this approval or the necessary requirements, please contact Mark Reinbold at 801-538-5333 or Brad Hill at 801-538-5315.

Sincerely,

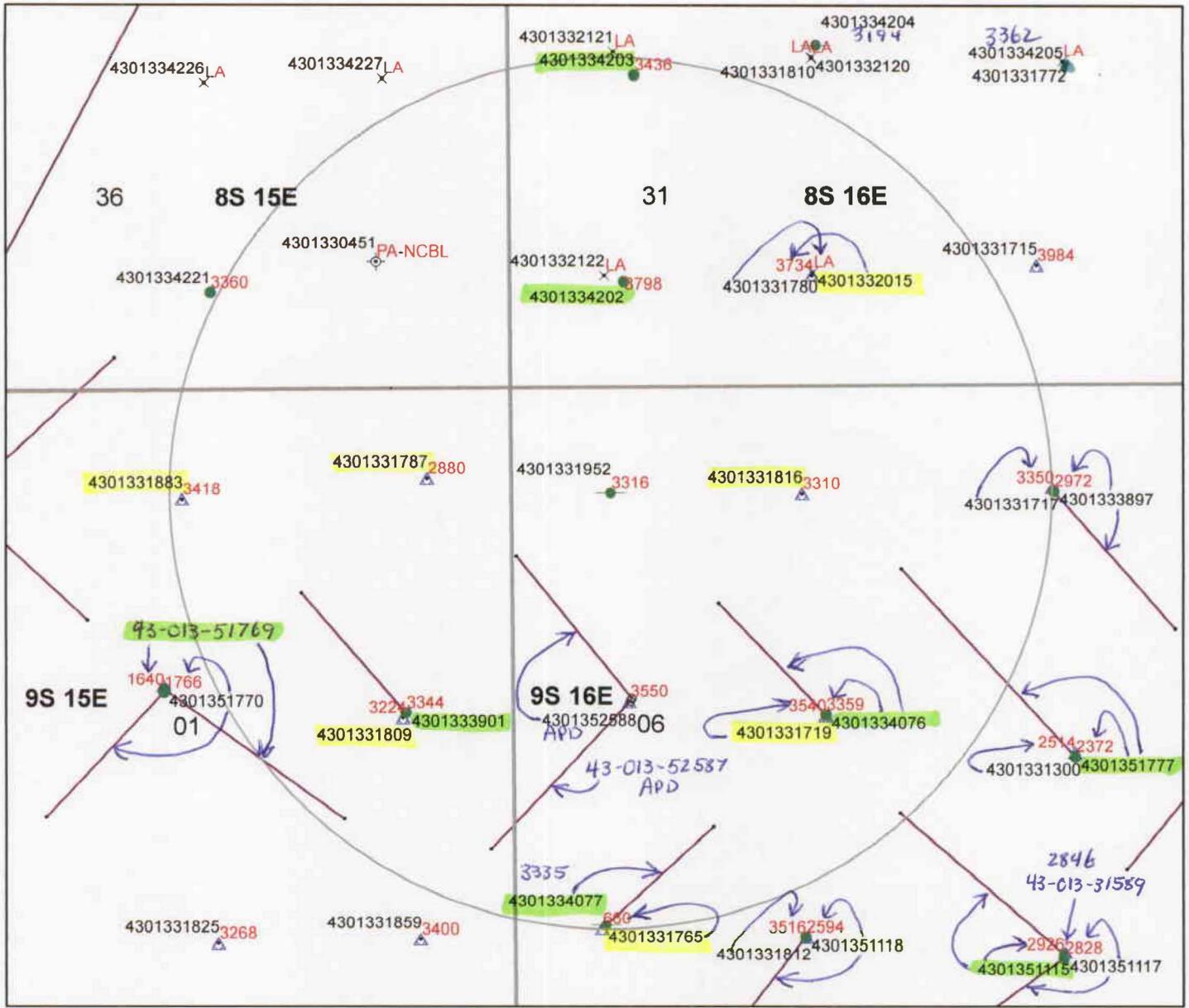
Dan Jarvis  
Acting Associate Director

DJJ/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
SITLA  
Duchesne County  
Newfield Production Company, Myton  
Well File

N:\O&G Reviewed Docs\ChronFile\UIC





- Legend**
- Oil & Gas Well Type**
- APD-Approved Permit
  - ⊙ DRL-Spudded (Drilling Commenced)
  - ⊗ GIW-Gas Injection Well
  - <sub>GS</sub> GSW-Gas Storage Well
  - × LA-Location Abandoned
  - LOC-New Location Well
  - OPS-Drilling Operations Suspended
  - ⊙ PA-Pugged & Abandoned
  - ⊙ PGW-Producing Gas Well
  - POW-Producing Oil Well *in AOR*
  - ▲ RET-Returned APD
  - ⊙ SGW-Shut-in Gas Well
  - SOW-Shut-in Oil Well
  - ⊗ TA-Temp Abandoned
  - TW-Test Well
  - ⊙ WDW-Water Disposal Well
  - ▲ WIW-Water Injection Well *in AOR*
  - WSW-Water Supply Well

**Cement Bond Tops**  
**Nine Mile 4-6-9-16**  
**API #43-013-31952**  
**UIC-365.4**

*(updated 7/8/2014)*



- 4585 Depth to top of suitable cement bond
- Well Bottom Hole Location
- Oil & Gas Wells Hole Directional Path
- Wells-CbltopsMaster 1-31-13
- DNR Oil Gas Wells Buffer
- County Boundaries
- PLSS Sections
- PLSS Townships

**DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM  
PERMIT  
STATEMENT OF BASIS**

**Applicant:** Newfield Production Company      **Well:** Nine Mile 4-6-9-16

**Location:** 6/9S/16E      **API:** 43-013-31952

**Ownership Issues:** The proposed well is located on BLM land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM and the State of Utah. The Federal Government and the State of Utah are the mineral owners within the area of review (AOR). Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Greater Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

**Well Integrity:** The proposed well has surface casing set at 293 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,977 feet. A cement bond log demonstrates adequate bond in this well up to 3,316 feet. A 2 7/8 inch tubing with a packer will be set at 4,860 feet. Higher perforations will be opened at a later date. A mechanical integrity test will be run on the well prior to injection. At the time of this revision (7/8/2014), based on surface locations, there are 5 producing wells, 9 injection wells, 1 P/A well, and 1 shut-in well (the proposed injection well) in the AOR. In addition, there are 3 directional producing wells with surface locations inside the AOR and bottom hole locations outside the AOR. All of the wells have evidence of adequate casing and cement.

**Ground Water Protection:** As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 600 feet. Injection shall be limited to the interval between 4,189 feet and 6,001 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 4-6-9-16 well is 0.83 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 2,022 psig. The requested maximum pressure is 2,022 psig. We intend to permit this well at a maximum pressure of 2,000 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

**Nine Mile 4-6-9-16**  
**page 2**

**Oil/Gas& Other Mineral Resources Protection:** The Board of Oil, Gas & Mining approved the Greater Monument Butte Unit on December 1, 2009. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with the BLM

**Actions Taken and Further Approvals Needed:** A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Mark Reinbold Date: 6/28/2010 (revised 7/8/2014)

Nine Mile 4-6-9-16

# AFFIDAVIT OF PUBLICATION

County of Duchesne,  
STATE OF UTAH

I, Geoff Liesik on oath, say that I am the EDITOR of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 1 day of June, 2010, and that the last publication of such notice was in the issue of such newspaper dated the 1 day of June, 2010, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

Geoff Liesik  
Editor

Subscribed and sworn to before me this  
15 day of June, 2010  
Bonnie Parrish  
Notary Public



2250|REB|GGUICADMIN/GF10/6131

NORTH 213.33 FEET  
193.00 FEET. THENCE  
LINE, THENCE WEST  
THE EAST SECTION  
213.33 FEET ALONG  
NING THENCE SOUTH  
RIDIAN, AND RUN-  
LAKE BASE AND ME-  
RANGE 22 EAST, SALT  
TOWNSHIP 5 SOUTH,  
TER OF SECTION 18,  
NORTHEAST QUAR-  
QUARTER OF THE  
OF THE SOUTHEAST  
NORTHEAST CORNER  
FEET SOUTH OF THE  
BEGINNING 506.67  
County:  
property located in Uintah  
eng the following real  
INC, as Beneficiary, cov-  
TRATION SYSTEMS,  
ELECTRONIC REGIS-  
in favor of MORTGAGE  
HASKINS, as Trustor(s)  
by CHRISTOPHER  
28, 2007 and executed  
a trust deed dated August  
the purpose of foreclosing  
submitted by Newfield  
Production Company.

## NOTICE OF AGENCY ACTION CAUSE NO. UIC-365

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 24, TOWNSHIP 8 SOUTH, RANGE 16 EAST, AND SECTIONS 5, 6, and 8, TOWNSHIP 9 SOUTH, RANGE 16 EAST; DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.  
THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Acting Associate Director - Oil and Gas, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.  
Dated this 27th day of May, 2010.  
STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/  
Gil Hunt  
Associate Director  
Published in the Uintah Basin Standard June 1, 2010.



Send Payments to:  
 268 S 200 E  
 Roosevelt, Utah 84066  
 Phone: 435-722-5131  
 Fax: 435-722-4140  
 www.ubstandard.com  
 www.vernal.com

|                |      |              |           |
|----------------|------|--------------|-----------|
| Invoice Number | 1713 | Invoice Date | 6/15/2010 |
|----------------|------|--------------|-----------|

|                |      |                |          |          |           |
|----------------|------|----------------|----------|----------|-----------|
| Advertiser No. | 2080 | Invoice Amount | \$112.00 | Due Date | 7/15/2010 |
|----------------|------|----------------|----------|----------|-----------|

Rose Nolton  
 DIVISION OF OIL GAS & MINING  
 1594 W. N.TEMPLE STE 121  
 PO BOX 145801  
 SALT LAKE CITY, UT 84114-5801

**RECEIVED**

**JUN 17 2010**

**DIV. OF OIL, GAS & MINING**

1 1/2% fee will be charged to all past due balances.

**Amount Enclosed**

Please detach top portion and return with your payment.

**INVOICE**

Utah Basin Standard

**DIVISION OF OIL GAS & MINING**

Invoice No. 1713

6/15/2010

| Date                         | Order | Publication         | Description  | Ad Size | Sales Tax     | Amount          |
|------------------------------|-------|---------------------|--|---------|---------------|-----------------|
| 6/15/2010                    | 653   | Utah Basin Standard | Notice of Agency Action Cause<br>No. UIC-365<br>Ran June 1, 2010 |         | \$0.00        | \$112.00        |
| <b>Total Transactions: 1</b> |       |                     |  |         | <b>\$0.00</b> | <b>\$112.00</b> |

**SUMMARY**

Advertiser No. 2080

Invoice No. 1713

1 1/2% fee will be charged to all past due balances.

Thank You for your business!

PROOF OF PUBLICATION

CUSTOMER'S COPY

| CUSTOMER NAME AND ADDRESS  | ACCOUNT NUMBER | DATE     |
|--|----------------|----------|
| DIV OF OIL-GAS & MINING,<br>1594 W NORTH TEMP #1210<br>P.O. BOX 145801<br>SALT LAKE CITY, UT 84114 | 9001402352     | 6/3/2010 |

| ACCOUNT NAME                             |                           |      |        |
|--|---------------------------|------|--------|
| DIV OF OIL-GAS & MINING,                 |                           |      |        |
| TELEPHONE                                | ADORDER# / INVOICE NUMBER |      |        |
| 8015385340                               | 0000582622 /              |      |        |
| SCHEDULE                                 |                           |      |        |
| Start 06/02/2010                         | End 06/02/2010            |      |        |
| CUST. REF. NO.                           |                           |      |        |
| Cause No. UIC-365                        |                           |      |        |
| CAPTION                                  |                           |      |        |
| BEFORE THE DIVISION OF OIL, GAS AND MINI |                           |      |        |
| SIZE                                     |                           |      |        |
| 65                                       | Lines                     | 2.00 | COLUMN |
| TIMES                                    | RATE                      |      |        |
| 4  |                           |      |        |
| MISC. CHARGES                            | AD CHARGES                |      |        |
|  |                           |      |        |
| TOTAL COST                               |                           |      |        |
| 223.40                                   |                           |      |        |

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-365

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 24, TOWNSHIP 8 SOUTH, RANGE 16 EAST, AND SECTIONS 5, 6, and 8, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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

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

Greater Monument Butte Unit:  
Federal 10-24-8-16 well located in NW/4 SE/4, Section 24 Township 8 South, Range 16 East, South Wells Draw 16-5T 9-16 well located in SE/4 SE/4, Section 5, Township 9 South, Range 16 East Nine Mile 4-6-9-16 well located in NW/4 NW/4, Section 6, Township 9 South, Range 16 East Nine Mile 6-6-9-16 well located in SE/4 NW/4, Section 6, Township 9 South, Range 16 East West Point 6-8-9-16 well located in SE/4 NW/4, Section 8, Township 9 South, Range 16 East Monument Federal 31-8-9-16 well located in NW/4 NE/4 Section 8, Township 9 South, Range 16 East

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

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

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

Dated this 27th day of May, 2010.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/ Gil Hunt  
Gil Hunt  
Associate Director

582622 UPAXL

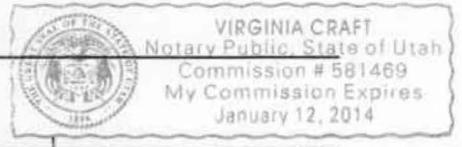
AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF **BEFORE THE DIVISION OF OIL, GAS AND MINI** FOR **DIV OF OIL-GAS & MINING**, WAS PUBLISHED BY THE NEWSPAPER AGENCY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH. NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON UTAHLEGALS.COM INDEFINATELY.

PUBLISHED ON Start 06/02/2010 End 06/02/2010

SIGNATURE *[Handwritten Signature]*

DATE 6/3/2010



*[Handwritten Signature: Virginia Craft]*

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"  
PLEASE PAY FROM BILLING STATEMENT

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-365

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 24, TOWNSHIP 8 SOUTH, RANGE 16 EAST, AND SECTIONS 5, 6, and 8, TOWNSHIP 9 SOUTH, RANGE 16 EAST; DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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Nine Mile 4-6-9-16 well located in NW/4 NW/4, Section 6, Township 9 South, Range 16 East  
Nine Mile 6-6-9-16 well located in SE/4 NW/4, Section 6, Township 9 South, Range 16 East  
West Point 6-8-9-16 well located in SE/4 NW/4, Section 8, Township 9 South, Range 16 East  
Monument Federal 31-8-9-16 well located in NW/4 NE/4, Section 8, Township 9 South, Range 16 East

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Dated this 27th day of May, 2010.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING



Gil Hunt  
Associate Director

**Newfield Production Company**

**MONUMENT BUTTE FEDERAL 10-24-8-16, SOUTH WELLS DRAW 16-5T-9-16,  
NINE MILE 4-6-9-16, NINE MILE 6-6-9-16, WEST POINT 6-8-9-16,  
MONUMENT FEDERAL 31-8-9-16.**

**Cause No. UIC-365**

Publication Notices were sent to the following:

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

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

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066  
via e-mail [ubs@ubstandard.com](mailto:ubs@ubstandard.com)

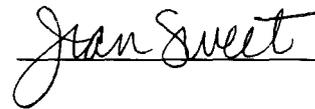
Bruce Suchomel  
US EPA Region 8  
MS 8P-W-GW  
1595 Wynkoop Street  
Denver, CO 80202-1129

Salt Lake Tribune  
P O Box 45838  
Salt Lake City, UT 84145  
via e-mail [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

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

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

  
\_\_\_\_\_

**From:** Bonnie <bonnie@ubstandard.com>  
**To:** <jsweet@utah.gov>  
**Date:** 5/27/2010 3:52 PM  
**Subject:** UIC 365

Jean,  
Newfield Cause No. UIC 365 will run on June 1st.  
Thank you,

--

Bonnie Parrish  
Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066  
(435) 722-5131  
(435) 722-4140 Fax  
bonnie@ubstandard.com



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

May 27, 2010

Via e-mail: [ubs@ubstandard.com](mailto:ubs@ubstandard.com)

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-365

To whom it may concern:

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

Please send proof of publication and billing to:

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

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure

**Jean Sweet - RE: Notice of Agency Action - Newfield Production Company Cause No. UIC-365**

---

**From:** "NAC Legal" <naclegal@mediaoneutah.com>  
**To:** "Jean Sweet" <jsweet@utah.gov>  
**Date:** 5/27/2010 3:50 PM  
**Subject:** RE: Notice of Agency Action - Newfield Production Company Cause No. UIC-365

---

Ad #582622 is scheduled to run June 2nd in Salt Lake Tribune, Deseret News and on the website utahlegals.com .

Total charge is \$223.40. Please check the ad in the papers.

Thank you,

Lynn Valdez  
MediaOne of Utah,  
a Newspaper Agency Company  
4770 South 5600 West  
West Valley City, Utah 84118  
Ph.: 801-204-6245  
Email: [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

---

**From:** Jean Sweet [mailto:[jsweet@utah.gov](mailto:jsweet@utah.gov)]  
**Sent:** Thursday, May 27, 2010 3:02 PM  
**To:** [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)  
**Subject:** Notice of Agency Action – Newfield Production Company Cause No. UIC-365

To whom it may concern:

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

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

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

Jean Sweet, Executive Secretary  
Utah Div. of Oil, Gas & Mining  
1594 West Temple, Suite 1210  
Salt Lake City, UT  
801-538-5329  
[jsweet@utah.gov](mailto:jsweet@utah.gov)



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

May 27, 2010

VIA E-MAIL [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

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

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-365

To whom it may concern:

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

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

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

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure





May 6, 2010

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

RE: Permit Application for Water Injection Well  
Nine Mile #4-6-9-16  
Monument Butte Field, Lease #UTU-74390  
Section 6-Township 9S-Range 16E  
Duchesne County, Utah

Dear Mr. Jarvis:

Newfield Production Company herein requests approval to convert the Nine Mile #4-6-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

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

Sincerely,

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

Eric Sundberg  
Regulatory Analyst

RECEIVED

MAY 18 2010

DIV. OF OIL, GAS & MINING

**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**NINE MILE #4-6-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-74390**  
**May 6, 2010**

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(revised 7/8/2014)

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# Nine Mile #4-6-9-16

Spud Date: 12/18/97  
 Put on Production: 1/30/98  
 GL: 5864' KB: 5876'

Initial Production: 50 BOPD,  
 87 MCFPD, 56 BWPD

## SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (294')  
 DEPTH LANDED: 293' GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 120 sxs Premium cmt, est 6 bbls to surf.

Casing shoe @ 293'

TOC @ 500'

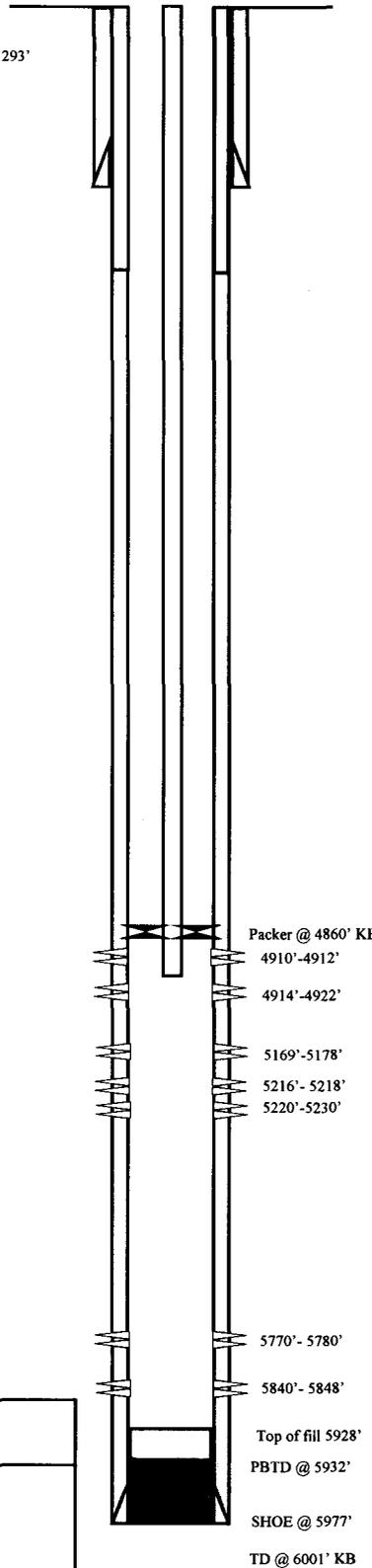
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: M-50  
 WEIGHT: 15.5#  
 LENGTH: 139 jts (5965')  
 DEPTH LANDED: 5977' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 390 sks Hibond mixed & 395 sks thixotropic  
 CEMENT TOP AT: 500' per CBL

## TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
 NO. OF JOINTS: 178 jts. (5541.03')  
 TUBING ANCHOR: 5553.03' KB  
 NO. OF JOINTS: 1 jt. (32.51')  
 SN LANDED AT: 5588.34' KB  
 NO. OF JOINTS: 2 jts. (62.10')  
 TOTAL STRING LENGTH: EOT @ 5651.99' KB

## Proposed Injection Wellbore Diagram



## FRAC JOB

**1-17-98 5770'-5848'** **Frac CP sand as follows:**  
 120,300# of 20/40 sd in 564 bbls Delta Frac. Treated @ avg rate 28 bpm, avg press 3300 psi. Breakdown @ 3137 psi. ISIP-3884 psi, 5-min 2285 psi. Flowback for 4 hrs & died.

**1-20-98 5169'-5230'** **Frac B sand as follows:**  
 130,200# of 20/40 sd in 609 bbls Delta F rac. Breakdown @ 2480 psi. Treated @ avg rate of 28.4 BPM, avg press 1650 psi. ISIP-2056 psi, 5-min 1750 psi. Flowback on 12/64" ck for 2-1/2 hrs & died.

**1-22-98 4910'-4922'** **Frac D sand as follows:**  
 120,300# 20/40 sand in 568 bbls Delta Frac. Breakdown @ 3940 psi. Treated w/avg press of 2400 psi w/avg rate of 26.5 BPM. ISIP - 3065 psi, 5 min 2753 psi. Flowback on 12/64" ck for 3-1/2 hrs & died.

1/31/02 Tubing leak. Update rod and tubing details.  
 9/18/02 Tubing leak. Update rod and tubing details.  
 10/1/02 Stuck pump. Update rod details.  
 9/18/03 Tubing leak. Update rod and tubing details.  
 9/29/04 Tubing leak. Update rod and tubing details.

## PERFORATION RECORD

| Date    | Depth Range | Number of Holes | Notes         |
|---------|-------------|-----------------|---------------|
| 1-17-98 | 5770'-5780' | 4               | JSPF 40 holes |
| 1-17-98 | 5840'-5848' | 4               | JSPF 32 holes |
| 1-20-98 | 5169'-5178' | 4               | JSPF 36 holes |
| 1-20-98 | 5216'-5218' | 4               | JSPF 8 holes  |
| 1-20-98 | 5220'-5230' | 4               | JSPF 40 holes |
| 1-22-98 | 4910'-4912' | 4               | JSPF 8 holes  |
| 1-22-98 | 4914'-4922' | 4               | JSPF 32 holes |

**NEWFIELD**



**Nine Mile #4-6-9-16**  
 660 FNL & 583 FWL  
 NWNW Section 6-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-31952; Lease #UTU-74390

## **WORK PROCEDURE FOR INJECTION CONVERSION**

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

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

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**
- 2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**

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

Newfield Production Company  
1001 17<sup>th</sup> Street, Suite 2000  
Denver, Colorado 80202

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

See Attachment A.

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

Approval is requested to convert the Nine Mile #4-6-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.

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

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

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

The injection zone is in the Green River Formation. For the Nine Mile #4-6-9-16 well, the proposed injection zone is from Garden Gulch to Castle Peak (4189' - 6001'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, which ever is shallower. The Garden Gulch Marker top is at 3847' and the TD is at 6001'.

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

The referenced log for the Nine Mile #4-6-9-16 is on file with the Utah Division of Oil, Gas and Mining.

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

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

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

See Attachment B.

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

See Attachment C.

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

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

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

This proposed injection well is on a Federal lease (Lease #UTU-74390) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

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

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

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

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

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

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

The casing program is 8-5/8", 24# surface casing run to 293' KB, and 5-1/2", 15.5# casing run from surface to 5977' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.
  
  - 2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

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

See Attachment F.

**The proposed average and maximum injection pressures.**

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 2022 psig.

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

The minimum fracture gradient for the Nine Mile #4-6-9-16, for existing perforations (4910' - 5848') calculates at 0.83 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 2022 psig. We may add additional perforations between 3847' and 6001'. See Attachments G and G-1.

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

In the Nine Mile #4-6-9-16, the proposed injection zone (4189' - 6001') is in the Garden Gulch to the Castle Peak of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

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

See Attachments E through E-13.

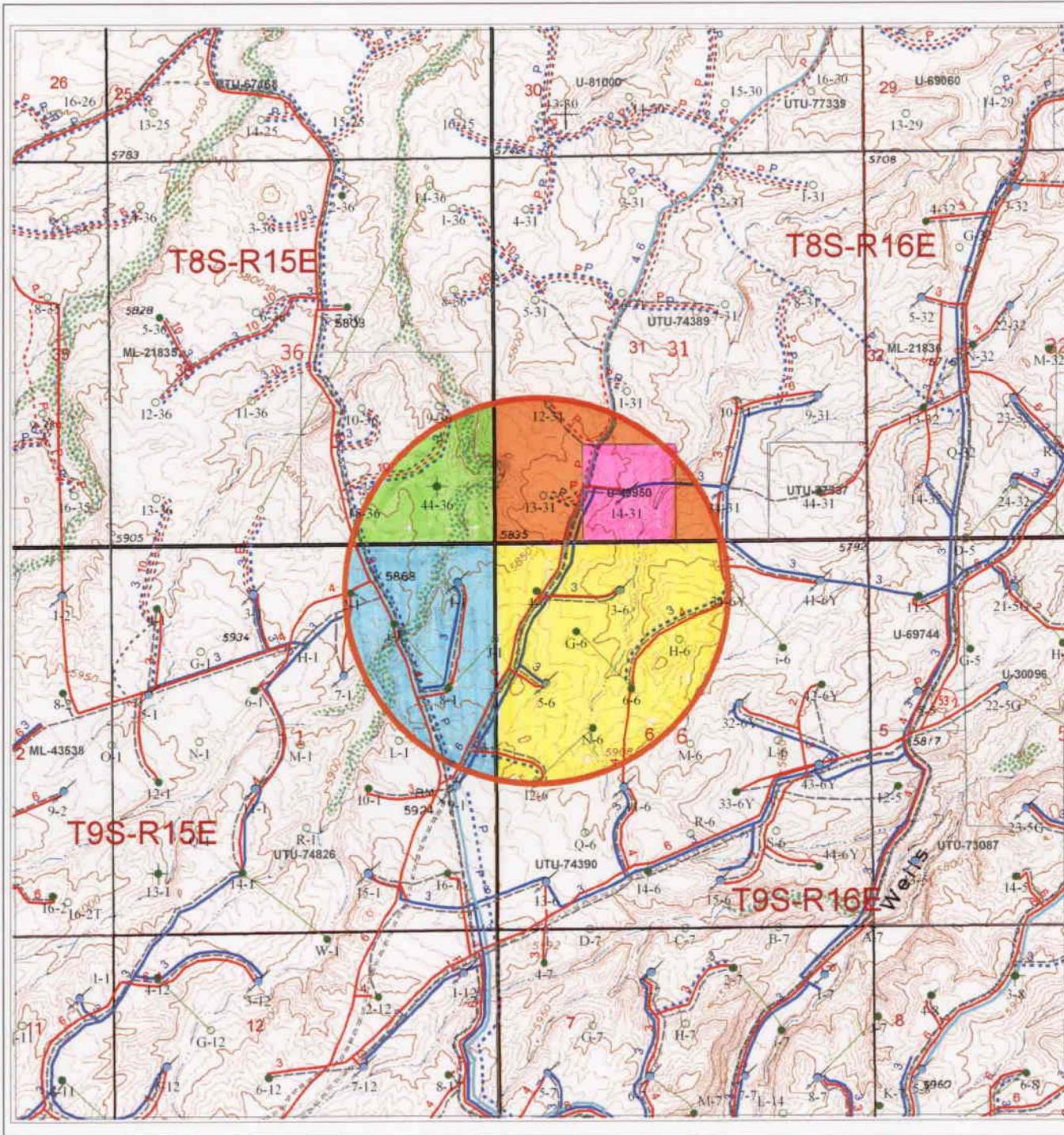
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure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

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

See Attachment C.

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

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



**Well Status**

- Location
- ⊙ CTI
- ⊙ Surface Spud
- ⊙ Drilling
- ⊙ Waiting on Completion
- Producing Oil Well
- ⊙ Producing Gas Well
- ⊙ Water Injection Well
- ⊙ Dry Hole
- ⊙ Temporarily Abandoned
- ⊙ Plugged & Abandoned
- ⊙ Shut In

**Injection system**

- high pressure
- low pressure
- - - proposed
- return
- - - return proposed

**Leases**

- Leases
- Mining tracts

**Gas Pipelines**

- Gathering lines
- - - Proposed lines
- ⊙ 4-6-9-16 1/2mile radius

- UTU-74390
- UTU-74389
- ML-21835
- UTU-74826
- UTU-49950

# Attachment A

Nine Mile 4-6  
Section 6, T9S-R16E

**NEWFIELD**  
ROCKY MOUNTAINS 1" = 2000'

**1/2 Mile Radius Map**  
Duchesne & Uintah Counties

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

February 24, 2010

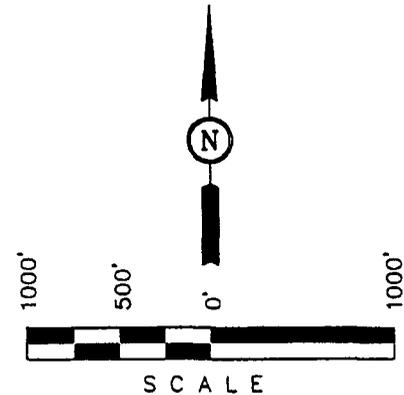
INLAND PRODUCTION CO.

Well location, NINE MILE #4-6, located as shown in the NW 1/4 NW 1/4 of Section 6, T9S, R16E, S.L.B.&M., Duchesne County, Utah.

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

BASIS OF ELEVATION

BENCH MARK LOCATED IN THE NE 1/4 SE 1/4 OF SECTION 1, T9S, R15E, S.L.B.&M. TAKEN FROM THE MYTON SW QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5924 FEET.



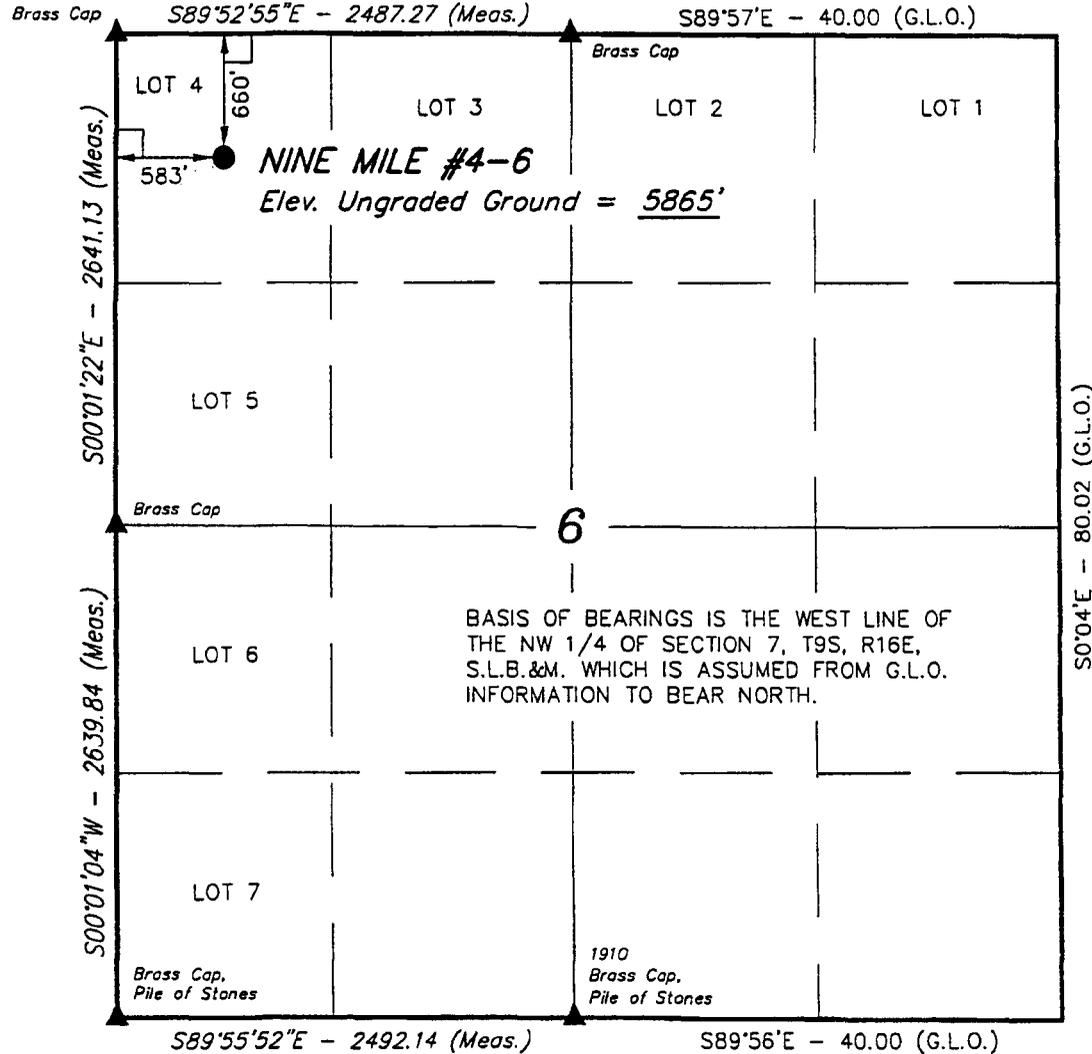
CERTIFICATE

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.

*Robert L. Cox*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (801) 789-1017

|                            |                               |                        |
|----------------------------|-------------------------------|------------------------|
| SCALE<br>1" = 1000'        | DATE SURVEYED:<br>8-24-97     | DATE DRAWN:<br>8-28-97 |
| PARTY<br>L.D.T. B.H. D.COX | REFERENCES<br>G.L.O. PLAT     |                        |
| WEATHER<br>WARM            | FILE<br>INLAND PRODUCTION CO. |                        |



LEGEND:

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

**EXHIBIT B**

1861

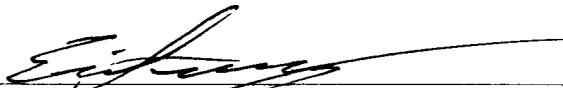
| # | Legal Description   | Lessor & Expiration                    | Lessee & Operating Rights  | Surface Owner |
|---|---|--|--|---------------|
| 1 | <u>Township 9 South, Range 16 East SLM</u><br>Section 6: All<br>Section 7: All<br>Section 8: W2<br>Section 17: NW<br>Section 18: Lots 1-2, NE, E2NW | USA<br>UTU-74390<br>HBP                | Newfield Production Company<br>Newfield RMI LLC<br>Yates Petroleum Corporation<br>Yates Drilling Company<br>ABO Petroleum Corporation<br>MYCO Industries, Inc. | USA           |
| 2 | <u>Township 8 South, Range 16 East SLM</u><br>Section 31: Lots 1-4, NE, E2NW, NESW,<br>N2SE, SWSE   | USA<br>UTU-74389<br>HBP                | Newfield Production Company<br>Newfield RMI LLC<br>Yates Petroleum Corporation<br>Yates Drilling Company<br>ABO Petroleum Corporation<br>MYCO Industries, Inc. | USA           |
| 3 | <u>Township 8 South, Range 15 East SLM</u><br>Section 36: All   | State of Utah SITLA<br>ML-21835<br>HBP | Newfield Production Company<br>Ocean Energy, Inc.<br>Global Natural Resources Corp.<br>Loex Properties 1984 Co.  | State of Utah |
| 4 | <u>Township 9 South, Range 15 East SLM</u><br>Section 1: All<br>Section 3: All<br>Section 10: All<br>Section 11: All<br>Section 12: All             | USA<br>UTU-74826<br>HBP                | Newfield Production Company<br>Newfield RMI LLC  | USA           |
| 5 | <u>Township 8 South, Range 16 East SLM</u><br>Section 31: SESW  | USA<br>UTU-49950<br>HBP                | Newfield Production Company<br>Newfield RMI LLC  | USA           |

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Nine Mile #4-6-9-16

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

Signed:   
Newfield Production Company  
Eric Sundberg  
Regulatory Analyst

Sworn to and subscribed before me this 10<sup>th</sup> day of May, 2010.

Notary Public in and for the State of Colorado: 

My Commission Expires: 02/10/2013



# Nine Mile #4-6-9-16

Spud Date: 12/18/97  
 Put on Production: 1/30/98  
 GL: 5864' KB: 5876'

Initial Production: 50 BOPD,  
 87 MCFPD, 56 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (294')  
 DEPTH LANDED: 293' GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 120 sxs Premium cmt, est 6 bbls to surf.

Casing shoe @ 293'

TOC @ 500'

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: M-50  
 WEIGHT: 15.5#  
 LENGTH: 139 jts (5965')  
 DEPTH LANDED: 5977' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 390 sks Hibond mixed & 395 sks thixotropic  
 CEMENT TOP AT: 500' per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
 NO. OF JOINTS: 178 jts (5541.03')  
 TUBING ANCHOR: 5553.03' KB  
 NO. OF JOINTS: 1 jt. (32.51')  
 SN LANDED AT: 5588.34' KB  
 NO. OF JOINTS: 2 jts. (62.10')  
 TOTAL STRING LENGTH: EOT @ 5651.99' KB

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' Polish Rod  
 SUCKER RODS: 1-8", 1-4", 1-2" x 3/4" pony rods, 217-3/4" scraped rods, 4-1 1/2" wt bars, 2-1 5/8" wt bars.  
 PUMP SIZE: 2 1/2" x 1 1/2" x 16' RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 4 SPM  
 LOGS: DIGL/GR/CAL (6006''-306')  
 DSN/SDL/GR (5978''-3000')

SN@5588' KB

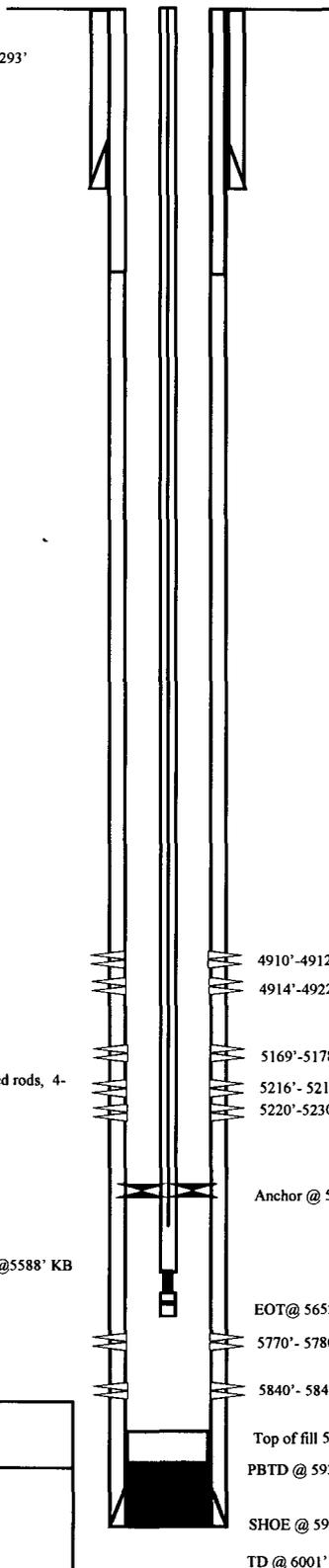
**FRAC JOB**

**1-17-98 5770'-5848'** **Frac CP sand as follows:**  
 120,300# of 20/40 sd in 564 bbls Delta Frac. Treated @ avg rate 28 bpm, avg press 3300 psi. Breakdown @ 3137 psi. ISIP-3884 psi, 5-min 2285 psi. Flowback for 4 hrs & died.

**1-20-98 5169'-5230'** **Frac B sand as follows:**  
 130,200# of 20/40 sd in 609 bbls Delta F rac. Breakdown @ 2480 psi. Treated @ avg rate of 28.4 BPM, avg press 1650 psi. ISIP-2056 psi, 5-min 1750 psi. Flowback on 12/64" ck for 2-1/2 hrs & died.

**1-22-98 4910'-4922'** **Frac D sand as follows:**  
 120,300# 20/40 sand in 568 bbls Delta Frac. Breakdown @ 3940 psi. Treated w/avg press of 2400 psi w/avg rate of 26.5 BPM. ISIP - 3065 psi, 5 min 2753 psi. Flowback on 12/64" ck for 3-1/2 hrs & died.

1/31/02 Tubing leak. Update rod and tubing details.  
 9/18/02 Tubing leak. Update rod and tubing details.  
 10/1/02 Stuck pump. Update rod details.  
 9/18/03 Tubing leak. Update rod and tubing details.  
 9/29/04 Tubing leak. Update rod and tubing details.



**PERFORATION RECORD**

| Date    | Depth Range | Number of JSPF | Number of Holes |
|---------|-------------|----------------|-----------------|
| 1-17-98 | 5770'-5780' | 4 JSPF         | 40 holes        |
| 1-17-98 | 5840'-5848' | 4 JSPF         | 32 holes        |
| 1-20-98 | 5169'-5178' | 4 JSPF         | 36 holes        |
| 1-20-98 | 5216'-5218' | 4 JSPF         | 8 holes         |
| 1-20-98 | 5220'-5230' | 4 JSPF         | 40 holes        |
| 1-22-98 | 4910'-4912' | 4 JSPF         | 8 holes         |
| 1-22-98 | 4914'-4922' | 4 JSPF         | 32 holes        |

**NEWFIELD**

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**Nine Mile #4-6-9-16**  
 660 FNL & 583 FWL  
 NWNW Section 6-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-31952; Lease #UTU-74390

State #44-36

Spud Date: 6-30-78

Pu

Initial Production: 60 MCFPD

on Production:

GL: 5834' KB: 5850'

**SURFACE CASING**

CSG SIZE: 9-5/8"  
 GRADE: K-55  
 WEIGHT: 36#  
 LENGTH: 7 jts  
 DEPTH LANDED: 511' GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 275 sxs Class G cmt, w/returns to sfc

**PRODUCTION CASING**

CSG SIZE: 4-1/2"  
 GRADE: K-55, N-80  
 WEIGHT: 11.6#  
 LENGTH: 148 jts (5819.36')  
 DEPTH LANDED: 5800'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 175 sxs RFC & 100 sx Class "G"  
 CEMENT TOP AT: 2700' per CBL

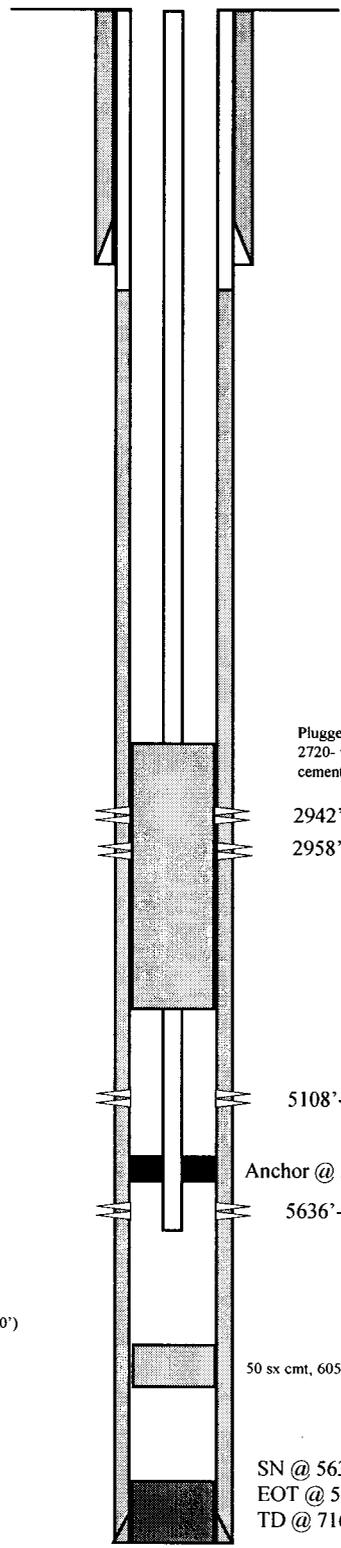
**TUBING**

SIZE/GRADE/WT.: 2-3/8" / J-55 / 4.7#  
 NO. OF JOINTS: 180  
 TUBING ANCHOR: 5600'  
 SEATING NIPPLE: A  
 TOTAL STRING LENGTH: EOT @ 5670"  
 SN LANDED AT: 5633'

**SUCKER RODS**

POLISHED ROD: N/A  
 SUCKER RODS: 127-3/4", 8-1" sinker bars, 88-7/8" rods  
 TOTAL ROD STRING LENGTH:  
 PUMP NUMBER: N/A  
 PUMP SIZE: 2" x 1-1/2" x 16' RWAC  
 STROKE LENGTH: N/A  
 PUMP SPEED, SPM: N/A  
 LOGS: DIL (511'-7156')  
       BHC-Sonic (510'-7150')  
       Comp Neutron Form Density (513'-7160')

P & A Wellbore Diagram



**FRAC JOB**

|       |             |  |
|-------|-------------|--|
| 11-78 | 5636'-5652' | 2000 gal 7-1/2% HCL  |
| 11-78 | 5108'-5114' | 1500 gal 7-1/2% HCL  |
| 11-78 | 2942'-2968' | 2500 gal 7-1/2% HCL  |
| 11-78 | 5636'-5652' | Frac w/90,000# 20/40 sand in 36,643 gal Versagel. Fluid ISIP-2000 psi. |

Plugged from 3050'-2720- with 25 sacks G cement 7/1985

2942'-48'  
2958'-68'

5108'-14'  
Anchor @ 5600'  
5636'-52'

**PERFORATION RECORD**

|          |             |        |          |
|----------|-------------|--------|----------|
| 9-6-78   | 5636'-5652' | 2 JSPF | 32 holes |
| 10-6-78  | 5108'-5114' | 2 JSPF | 12 holes |
| 10-11-78 | 2942'-2948' | 2 JSPF | 12 holes |
| 10-11-78 | 2958'-2968' | 2 JSPF | 20 holes |

**NEWFIELD**

State #44-36  
 784 FSL 784 FEL  
 SESE Section 36, T08S R15E  
 Duchesne County, Utah  
 API #43-013-30451; LEASE #ML-21835

SN @ 5633'  
 EOT @ 5670'  
 TD @ 7165'

# Nine Mile #14-31-8-16

Spud Date: 9-8-98

Initial Production: 16 BOPD,  
23 MCFPD, 20 BWPD

GL: 2 KB: 2  
**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 6 jts  
DEPTH LANDED: 262' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 140 sxs Class "G" cmt, est 4.5 bbls to surf

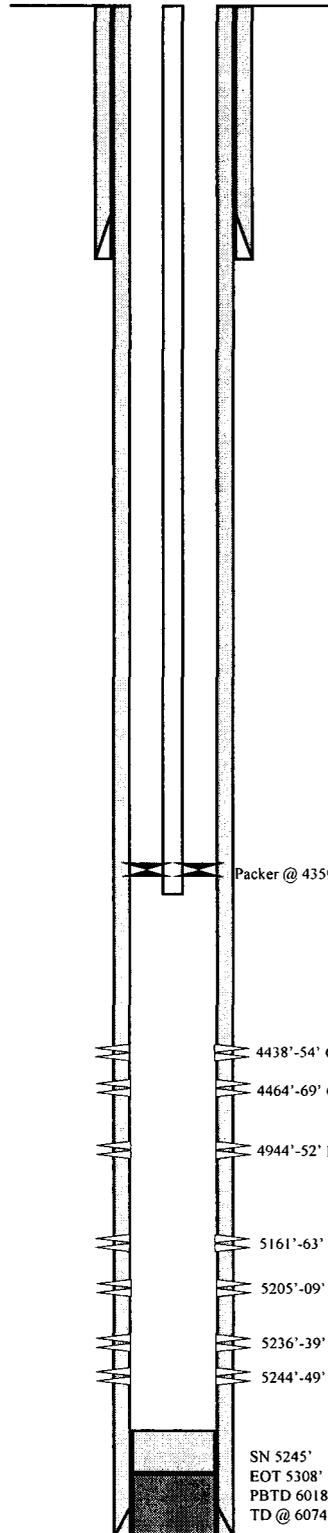
**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 141 jts (6065')  
DEPTH LANDED: 6074' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 280 sk Premium & 330 sxs Class "G"  
CEMENT TOP AT:

**TUBING**

SIZE/GRADE/WT.: 2-7/8"/6.5#/N-80  
NO. OF JOINTS: 164 jts  
TUBING ANCHOR: 5112'  
SEATING NIPPLE: 2-7/8" (1 10')  
TOTAL STRING LENGTH:  
SN LANDED AT: 5245'

**Injection Wellbore Diagram**



**FRAC JOB**

10-1-98 5161'-5249' **Frac B sand as follows:**  
111,653# of 20/40 sand in 553 bbls Viking. Perfs broke @ 3830 psi. Treated @ avg rate of 29.5 bpm w/avg press of 1827 psi. ISIP-2100 psi, 5-min 1890 psi. Flowback on 12/64" ck for 3-1/2 hrs & died.

10-3-98 4944'-4952' **Frac D sand as follows:**  
113,932# 20/40 sand in 551 bbls Viking. Perfs broke @ 3580 psi. Treated @ avg rate of 28.2 BPM w/avg press of 2800 psi. ISIP-3100 psi, 5 min 2819 psi. Flowback on 12/64" ck for 3-1/2 hrs & died.

10-6-98 4438'-4469' **Frac GB sand as follows:**  
93,309# 20/40 sand in 487 bbls Viking. Perfs broke @ 3288 psi. Treated w/avg press of 3000 psi w/avg rate of 30 BPM. ISIP-3900 psi, 5 min 3140 psi. Flowback on 12/64" ck for 4 hrs & died.

11/15/08 **5 Year MIT completed and submitted.**

**PERFORATION RECORD**

|         |             |        |          |
|---------|-------------|--------|----------|
| 9-30-98 | 5161'-5163' | 4 JSPF | 8 holes  |
| 9-30-98 | 5205'-5209' | 4 JSPF | 16 holes |
| 9-30-98 | 5236'-5239' | 4 JSPF | 12 holes |
| 9-30-98 | 5244'-5249' | 4 JSPF | 20 holes |
| 10-2-98 | 4944'-4952' | 4 JSPF | 32 holes |
| 10-4-98 | 4438'-4454' | 4 JSPF | 64 holes |
| 10-4-98 | 4464'-4469' | 4 JSPF | 20 holes |



Nine Mile #14-31  
660 FSL 1827 FWL  
SESW Section 31-T8S-R16E  
Duchesne Co, Utah  
API #43-013-32015; Lease #UTU-49950

Spud Date: 7/22/97  
 Put on Production: 8/23/97  
 GL: 5878' KB: 5888'

# Ashley Federal #2-1

Initial Production: 56 BOPD,  
 12 MCFPD, 36 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8 5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (299.7')  
 DEPTH LANDED: 309.45' GL  
 HOLE SIZE: 12 1/4"  
 CEMENT DATA: 155 sxs Premium cmt, est 7 bbls to surf.

**PRODUCTION CASING**

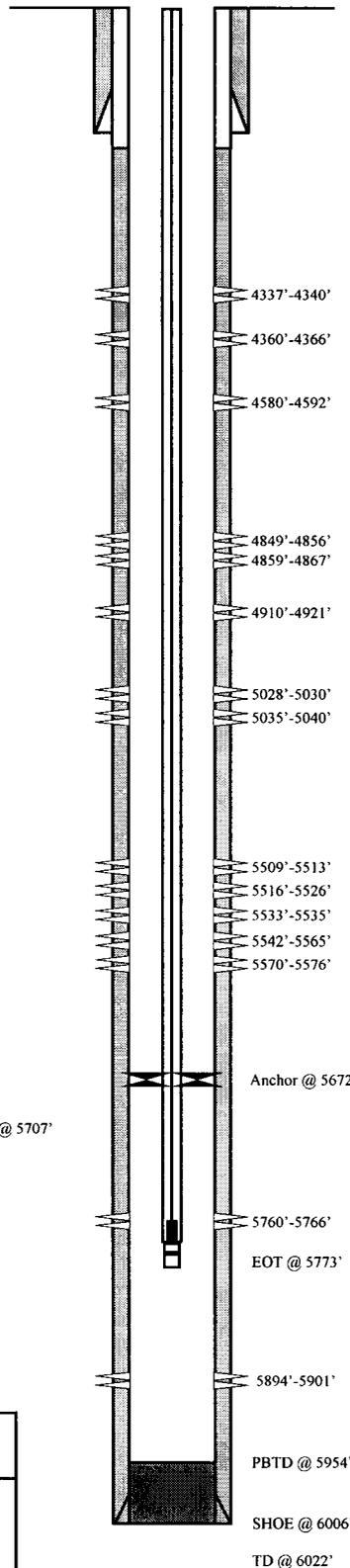
CSG SIZE: 5 1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 142 jts. (5995.47')  
 DEPTH LANDED: 6005.79' KB  
 HOLE SIZE: 7 7/8"  
 CEMENT DATA: 360 sk Hibond mixed & 325 sxs thixotropic  
 CEMENT TOP AT: NA per CBL

**TUBING**

SIZE/GRADE/WT: 2 7/8" / J-55  
 NO. OF JOINTS: 180 jts (5661.76')  
 TUBING ANCHOR: 5671.76'  
 NO. OF JOINTS: 1 jt (32.22')  
 SEATING NIPPLE: 2 7/8" (1.10")  
 SN LANDED AT: 5706.78'  
 NO. OF JOINTS: 2 jts (64.19')  
 TOTAL STRING LENGTH: EOT @ 5772.51'

**SUCKER RODS**

POLISHED ROD: 1 1/2" x 22'  
 SUCKER RODS: 1-4', 1-2' x 3/4" pony rods, 92-3/4" guided rods, 106 - 3/4" guided rods, 23-3/4" guided rods, 6- 1 1/2" sucker rods.  
 PUMP SIZE: 2 1/2" x 1 1/2" x 11' x 14" RHAC SN @ 5707'  
 STROKE LENGTH: 64"  
 PUMP SPEED, SPM: 5 SPM



**FRAC JOB**

- 8/14/97 5894'-5901' **Frac CP sand as follows:**  
 96700# of 20/40 sand in 521 bbls of Boragel. Breakdown @ 3042 psi. Treated @ avg rate of 26.6 bpm w/avg press of 2150 psi. ISIP-2510 psi, 5-min 1975 psi. Flowback on 12/64" ck for 4 hours and died.
- 8/16/97 5509'-5576' **Frac A sands as follows:**  
 130,600# of 20/40 sand in 636 bbls of Boragel. Breakdown @ 3061 psi. Treated @ avg rate of 32.4 bpm w/avg press of 2100 psi. ISIP-2548 psi, 5-min 2442 psi. Flowback on 12/64" ck for 4 hours and died.
- 8/19/97 4849'-5040' **Frac DC sand as follows:**  
 154,800# of 20/40 sand in 688 bbls of Boragel. Breakdown @ 2220 psi. Treated @ avg rate of 33.3 bpm w/avg press of 1770 psi. ISIP-2723 psi, 5-min 2206 psi. Flowback on 12/64" ck for 3 - 1/2 hours and died.
- 7/7/03 5760'-5766' **Frac CP.5 sands as follows:**  
 29,550# 20/40 sand in 297 bbls Viking 1-25 fluid. Treated @ avg press of 3225 psi w/avg rate of 13.6 BPM. ISIP 2270 psi. Calc flush: 1499 gal. Actual flush: 1428 gal.
- 7/7/03 4580'-4592' **Frac PB-10 sands as follows:**  
 40,000# 20/40 sand in 407 bbls Viking 1-25 fluid. Treated @ avg press of 1897 psi w/avg rate of 23.8 BPM. ISIP 2440 psi. Calc flush: 4578 gal. Actual flush: 4494 gal.
- 7/8/03 4337'-4366' **Frac B2 and D1,3 sands as follows:**  
 28,322# 20/40 sand in 272 bbls Viking 1-25 fluid. Treated @ avg press of 1923 psi w/avg rate of 23 BPM. ISIP 2120 psi. Calc flush: 4335 gal. Actual flush: 4242 gal.
- 12/24/03 Pump Change. Update rod and tubing detail.
- 12-5-07 Pump Change. Updated rod & tubing details.
- 05-16-08 Major workover. Acidize fracs, updated rod and tubing details.
- 9/9/09 Pump Change. Updated rod & tubing details.

**PERFORATION RECORD**

| Date    | Interval    | Tool   | Holes    |
|---------|-------------|--------|----------|
| 8/14/97 | 5894'-5901' | 4 JSPF | 28 holes |
| 8/16/97 | 5570'-5576' | 4 JSPF | 24 holes |
| 8/16/97 | 5542'-5565' | 4 JSPF | 92 holes |
| 8/16/97 | 5533'-5535' | 4 JSPF | 8 holes  |
| 8/16/97 | 5516'-5526' | 4 JSPF | 40 holes |
| 8/16/97 | 5509'-5513' | 4 JSPF | 16 holes |
| 8/19/97 | 5035'-5040' | 4 JSPF | 20 holes |
| 8/19/97 | 5028'-5030' | 4 JSPF | 8 holes  |
| 8/19/97 | 4910'-4921' | 4 JSPF | 44 holes |
| 8/19/97 | 4859'-4867' | 4 JSPF | 32 holes |
| 8/19/97 | 4849'-4856' | 4 JSPF | 28 holes |
| 7/2/03  | 5760'-5766' | 4 JSPF | 24 holes |
| 7/2/03  | 4580'-4592' | 4 JSPF | 48 holes |
| 7/8/03  | 4360'-4366' | 4 JSPF | 24 holes |
| 7/8/03  | 4337'-4340' | 4 JSPF | 12 holes |

**NEWFIELD**

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**Ashley Federal #2-1**  
 1980 FEL & 661 FNL  
 NW/NE Section 1-T9S-R15E  
 Duchesne Co, Utah  
 API #43-013-31883; Lease #U-74826

# Ashley Federal 1-1-9-15

Spud Date: 6/26/97

Put on Production: 8/02/97  
GL: 5851' KB: 5861'

Initial Production: 90  
BOPD, 85 MCFPD, 8 BWPD

## Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (302 74')  
DEPTH LANDED: 312 41' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 180 sxs Premium cmt, est 16 bbls to surf

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 139 jts (5964 87')  
DEPTH LANDED: 5975 87' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Hibond mixed & 340 sxs thixotropic  
CEMENT TOP AT: 1050' per CBL

### TUBING

SIZE/GRADE/WT: 2-7/8" / M-50 / 6.5#  
NO OF JOINTS: 151 jts (4761 64')  
TUBING PACKER: 4762 74'  
SEATING NIPPLE: 2 - 7/8" (1 10')  
SN LANDED: 4761 64'  
TOTAL STRING LENGTH: EOT @ 4769 74'

### FRAC JOB

7/18/97 5824'-5896' **Frac CP sand as follows:**  
95,900# of 20/40 sand in 531 bbls of Boragel Breakdown @ 1630 psi  
Treated @ avg rate of 30.5 bpm w/avg press of 2630 psi ISIP-2685 psi, 5-min 2260 psi Flowback on 12/64" ck for 4 - 1/2 hours and died

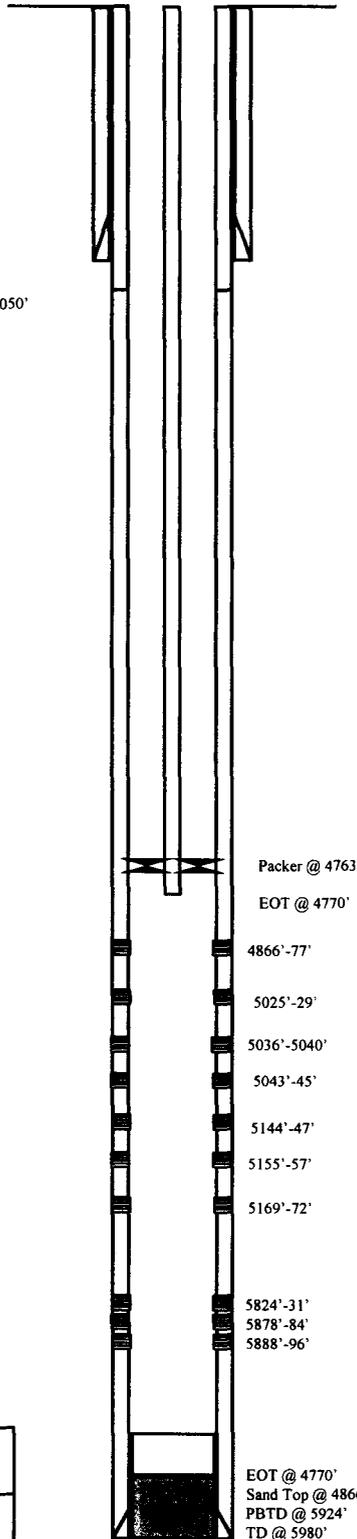
7/22/97 5025'-5157' **Frac C/B sand as follows:**  
122,700# of 20/40 sand in 6137 bbls of Boragel Breakdown @ 2330 psi  
Treated @ avg rate of 25.5 bpm w/avg press of 2200 psi ISIP-2723 psi, 5-min 2576 psi Flowback on 12/64" ck for 4 - 1/2 hours and died

7/24/97 4866'-4877' **Frac D sand as follows:**  
82,300# of 20/40 sand in 416 bbls of Boragel Breakdown @ 3339 psi  
Treated @ avg rate of 25.8 bpm w/avg press of 6420 psi ISIP-4806 psi, 5-min 4549 psi Flowback on 12/64" ck for 10 minutes and died

12/11/99 **Convert to Injection well - update tbg detail**

1-2-07 **Workover: Updated tubing detail**

Cement Top 1050'



### PERFORATION RECORD

| Date    | Depth Range | Tool   | Holes    |
|---------|-------------|--------|----------|
| 7/19/97 | 5888'-5896' | 4 JSPF | 32 holes |
| 7/19/97 | 5878'-5884' | 4 JSPF | 24 holes |
| 7/19/97 | 5824'-5831' | 4 JSPF | 28 holes |
| 7/22/97 | 5169'-5172' | 4 JSPF | 12 holes |
| 7/22/97 | 5144'-5157' | 4 JSPF | 20 holes |
| 7/22/97 | 5043'-5045' | 4 JSPF | 8 holes  |
| 7/22/97 | 5025'-5040' | 4 JSPF | 32 holes |
| 7/24/97 | 4866'-4877' | 4 JSPF | 44 holes |

**NEWFIELD**

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**Ashley Federal 1-1-9-15**

533 FNL 516 FEL  
NENE Section 1-T9S-R15E  
Duchesne Co, Utah  
API #43-013-31787; Lease #U-74826

# Ashley Federal I-1-9-15

Spud Date: 6/6/2009  
 Put on Production: 7/17/2009  
 GL: 5881' KB: 5893'

## Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8 jts. (313.85')  
 DEPTH LANDED: 325.7'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 164 jts. (6352')  
 HOLE SIZE: 7-7/8"  
 TOTAL DEPTH: 6351.75'  
 CEMENT DATA: 250 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 54'

### TUBING

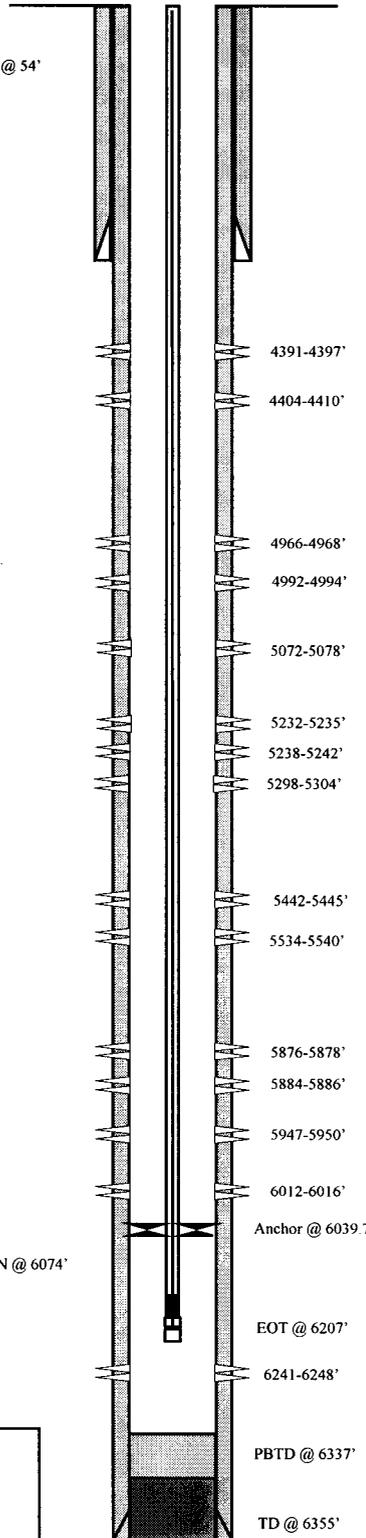
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 192 jts (6027.7')  
 TUBING ANCHOR: 6039.7'  
 NO. OF JOINTS: 1 jts (31.5')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 6074' KB  
 NO. OF JOINTS: 1 jts (31.5'), 3 jts (93.4')  
 TOTAL STRING LENGTH: EOT @ 6207'

### SUCKER RODS

POLISHED ROD: 1 1/2" x 30'  
 SUCKER RODS: 238 - 7/8" 8per guided rods, 4-1 1/2" weight bars  
 PUMP SIZE: 2 1/2 x 1 3/4 x 20' RHAC  
 STROKE LENGTH:  
 PUMP SPEED: SPM

Cement Top @ 54'

SN @ 6074'



### FRAC JOB

|         |            |   |
|---------|------------|---|
| 7-17-09 | 6241-6248' | Frac CP5 sands as follows: Frac with 29730# 20/40 sand in 178 bbbs Lightning 17 fluid.              |
| 7-17-09 | 5876-6016' | Frac CP.5, CP2, & CP3 sands as follows: Frac with 20694# 20/40 sand in 125 bbbs Lightning 17 fluid. |
| 7-17-09 | 5442-5540' | Frac A3 & LODC sands as follows: Frac with 40705# 20/40 sand in 203 bbbs Lightning 17 fluid.        |
| 7-17-09 | 5232-5304' | Frac B1 & B2 sands as follows: Frac with 96407# 20/40 sand in 403 bbbs Lightning 17 fluid.          |
| 7-17-09 | 4966-5078' | Frac D1 & D3 sands as follows: Frac with 45629# 20/40 sand in 226 bbbs Lightning 17 fluid.          |
| 7-17-09 | 4391-4410' | Frac GB4 sands as follows: Frac with 93569# 20/40 sand in 401 bbbs Lightning 17 fluid.              |

### PERFORATION RECORD

|            |        |          |
|------------|--------|----------|
| 6241-6248' | 3 JSPF | 21 holes |
| 6012-6016' | 3 JSPF | 12 holes |
| 5947-5950' | 3 JSPF | 9 holes  |
| 5884-5886' | 3 JSPF | 6 holes  |
| 5876-5878' | 3 JSPF | 6 holes  |
| 5534-5540' | 3 JSPF | 18 holes |
| 5442-5445' | 3 JSPF | 9 holes  |
| 5298-5304' | 3 JSPF | 18 holes |
| 5238-5242' | 3 JSPF | 12 holes |
| 5232-5235' | 3 JSPF | 9 holes  |
| 5072-5078' | 3 JSPF | 18 holes |
| 4992-4994' | 3 JSPF | 6 holes  |
| 4966-4968' | 3 JSPF | 6 holes  |
| 4404-4410' | 3 JSPF | 18 holes |
| 4391-4397' | 3 JSPF | 18 holes |

**NEWFIELD**

**Ashley Federal I-1-9-15**  
 1965' FNL & 643' FEL  
 SENE Section 1-T9S-R15E  
 Duchesne Co, Utah  
 API # 43-013-33901; Lease #UTU-74826

# West Point 12-31-8-16

Spud Date: 9-17-10  
 Put on Production: 10-22-10  
 GL: 5833 ` KB:5845 `

## Wellbore Diagram

## FRAC JOB

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8 jts. (340.34')  
 DEPTH LANDED: 352.19'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 170 sxs Class "G" cmt

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 157 jts. (6637.23')  
 HOLE SIZE: 7-7/8"  
 TOTAL DEPTH: 6650.48'  
 CEMENT DATA: 270sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 0'

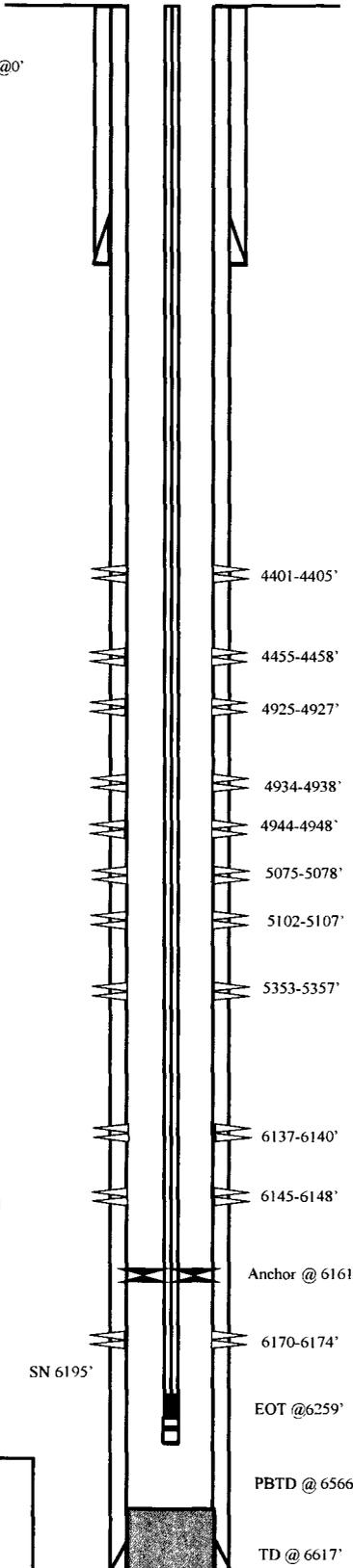
### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 201 jts (5601.9')  
 TUBING ANCHOR: 5601.9'  
 NO. OF JOINTS: 1 jts (32.2')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 5636.9' KB  
 BLEED NIPPLE: 2-7/8" (0.8')  
 NO. OF JOINTS: 2jts (62.8')  
 NOTCHED COLLAR: 2-7/8" (0.5')  
 TOTAL STRING LENGTH: EOT @ 5701.91'

### SUCKER RODS

POLISHED ROD: 1-1/2" x 26'  
 SUCKER RODS: 1 - 2', 4, 6' Pony Rods, 100 - 7/8" 4per Guided Rods, 62- 3/4" sucker rods, 60- 3/4" guided rods, 6- 1 1/2" weight bars, 1 - 1" stabilizer rod  
 PUMP SIZE: 2 1/2 x 1 1/4 x 20' x 24' RHAC  
 STROKE LENGTH: 122  
 PUMP SPEED: SPM 5

Cement Top @ 0'



| Date     | Job ID     | Description   |
|----------|------------|---|
| 10-8-10  | 6137-6174' | Frac CP5, Bsl sand sands as follows:Frac with 39948# 20/40 sand in 199 bbls lightning 17 fluid. |
| 10-18-10 | 5353-5357' | Frac A1 sands as follows:Frac with 13899# 20/40 sand in 91 bbls Lightning 17 fluid.             |
| 10-18-10 | 5075-5107' | Frac C & D3 sands as follows:Frac with 34852# 20/40 sand in 172bbls Lightning 17 fluid.         |
| 10-18-10 | 4925-4948' | Frac D1 sands as follows:Frac with 69945# 20/40 sand in 317bbls Lightning 17 fluid.             |
| 10-18-10 | 4401-4458' | Frac GB6 & GB4 sands as follows:Frac with 46230# 20/40 sand in 242bbls Lightning 17 fluid.      |
| 3/12/12  |            | Tubing Leak: Updated rod & tubing detail  |

### PERFORATION RECORD

| Depth      | Tool Joint | Holes    |
|------------|------------|----------|
| 6170-6174' | 3 JSPF     | 12holes  |
| 6145-6148' | 3 JSPF     | 9 holes  |
| 6137-6140' | 3 JSPF     | 9holes   |
| 5353-5357' | 3 JSPF     | 12 holes |
| 5102-5107' | 3 JSPF     | 15holes  |
| 5075-5078' | 3 JSPF     | 9 holes  |
| 4944-4948' | 3 JSPF     | 12holes  |
| 4934-4938' | 3 JSPF     | 12 holes |
| 4925-4927' | 3 JSPF     | 6holes   |
| 4455-4458' | 3 JSPF     | 9holes   |
| 4401-4405' | 3 JSPF     | 12holes  |



**West Point 12-31-8-16**  
 1890'FSL & 755'FWL (NW/SW)  
 Section 31, T8S, 16  
 Duchesne Co, Utah  
 API # 43-013-34203; Lease #UTU-74389

# Ashley Federal 8-1-9-15

Spud Date: 5/19/97  
 Put on Production: 7/16/97  
 GL: 5888' KB: 5900'

Initial Production: 163 BOPD.  
 246 MCFPD, 8 BWPD

**SURFACE CASING**

CSG SIZE 8-5/8"  
 GRADE J-55  
 WEIGHT 24#  
 LENGTH 7 jts (295.54')  
 DEPTH LANDED 294' GL  
 HOLE SIZE 12-1/4"  
 CEMENT DATA 120 sxs Premium cmt, circ 5 bbls to surf

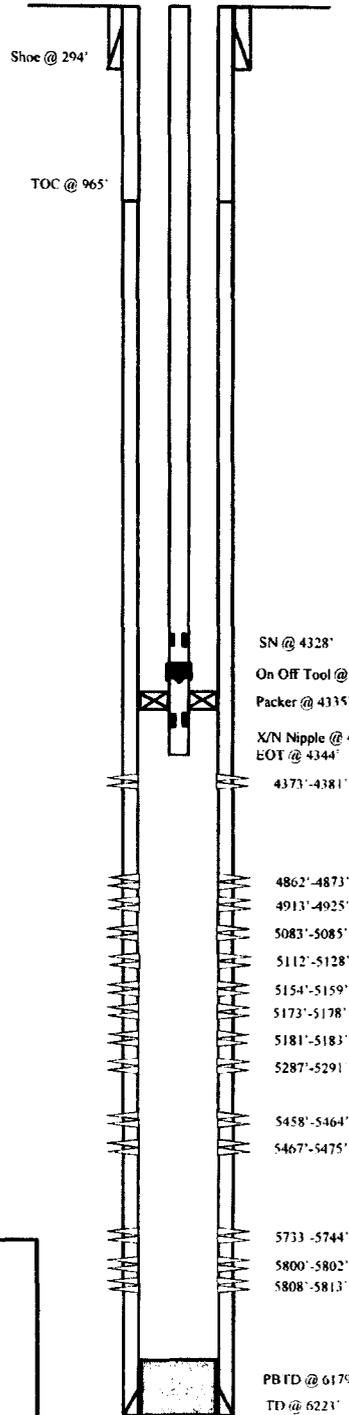
**PRODUCTION CASING**

CSG SIZE 5-1/2"  
 GRADE J-55  
 WEIGHT 15.5#  
 LENGTH 146 jts (6227.54')  
 DEPTH LANDED 6223' KB  
 HOLE SIZE 7-7/8"  
 CEMENT DATA 380 sxs Hibond mixed & 370 sxs thixotropic  
 CEMENT TOP AT 965'

**TUBING**

SIZE/GRADE/WT 2-7/8" / J-55 / 6.5#  
 NO OF JOINTS 138 jts (4315.7')  
 SEATING NIPPLE 2-7/8" (1.10')  
 SN LANDED AT 4327.7' KB  
 ON/OFF TOOL AT 4328.8'  
 ARROW #1 PACKER CE AT 4334.7'  
 XO 2-3/8 x 2-7/8 J-55 AT 4338.8'  
 TBG PUP 2-3/8 J-55 AT 4338.1'  
 X/N NIPPLE AT 4342.5'  
 TOTAL STRING LENGTH EOT @ 4343.99'

Injection Wellbore Diagram



**FRAC JOB**

7-3-97 5733'-5813' **Frac C sand as follows:**  
 109,700# of 20/40 sand in 548 bbls of Boragel  
 Treated @ avg rate of 28.3 bpm w/avg press of  
 1650 psi ISIP-2230 psi Calc flush 5733 gal  
 Actual flush 5048 gal

7-8-97 5458'-5475' **Frac A sand as follows:**  
 122,700# of 20/40 sand in 598 bbls of Boragel  
 Treated @ avg rate of 32.4 bpm w/avg press of  
 2360 psi ISIP-2870 psi Calc flush 5458 gal  
 Actual flush 5365 gal

7-10-97 5083'-5291' **Frac B & A sands as follows:**  
 129,300# of 20/40 sand in 666 bbls of Boragel  
 Treated @ avg rate of 35 bpm w/avg press of  
 2100 psi ISIP-2124 psi Calc flush 5083 gal  
 Actual flush 5005 gal

7-12-97 4862'-4925' **Frac D sand as follows:**  
 110,500# of 20/40 sand in 556 bbls of Boragel.  
 Treated @ avg rate of 34 BPM w/avg press of  
 2800 psi ISIP-3581 psi Calc flush 4862 gal.  
 Actual flush 4780 gal

2/13/02 **Tubing leak.** Update rod and tubing details

4/25/03 5112'-5128' **Frac B1 sands as follows:**  
 49,928# of 20/40 sand in 406 bbls Viking I-25  
 fluid Treated @ avg press of 3980 psi with av;  
 rate of 17.4 bpm ISIP 2150psi Calc flush  
 1,288 gal Actual flush 1176 gal

4/25/03 4373'-4381' **Frac CB6 sands as follows:**  
 19,789# 20/40 sand in 230 bbls Viking I-25  
 fluid Treated @ avg press of 2455 psi with av;  
 rate of 28.3 bpm ISIP 2520 psi Calc flush  
 4371 gal Actual flush 4284 gal

7/9/03 **Pump Change** Update rod detail

SN @ 4328' 11/17/08 **Pump Change.** Updated rod & tubing details

On Off Tool @ 4329' 7/28/2010 **Parted rods.** Updated rod and tubing detail

Packer @ 4335' 10/1/2010 **Tubing leak.** Updated rod and tubing detail

X/N Nipple @ 4342' 06/12/13 **Convert to Injection Well**

EOT @ 4344' 06/14/13 **Conversion MIT Finalized** update tbg detail

**PERFORATION RECORD**

| Date    | Depth Range | Tool   | Holes    |
|---------|-------------|--------|----------|
| 7/02/97 | 5733'-5744' | 4 JSPF | 44 holes |
| 7/02/97 | 5800'-5802' | 4 JSPF | 8 holes  |
| 7/02/97 | 5808'-5813' | 4 JSPF | 20 holes |
| 7/04/97 | 5458'-5464' | 4 JSPF | 24 holes |
| 7/04/97 | 5467'-5475' | 4 JSPF | 32 holes |
| 7/09/97 | 5287'-5291' | 4 JSPF | 16 holes |
| 7/09/97 | 5181'-5183' | 4 JSPF | 8 holes  |
| 7/09/97 | 5173'-5178' | 4 JSPF | 20 holes |
| 7/09/97 | 5154'-5159' | 4 JSPF | 20 holes |
| 7/09/97 | 5083'-5085' | 4 JSPF | 8 holes  |
| 7/11/97 | 4913'-4925' | 4 JSPF | 48 holes |
| 7/11/97 | 4862'-4873' | 4 JSPF | 44 holes |
| 4/23/03 | 4373'-4381' | 4 JSPF | 8 holes  |
| 4/23/03 | 5112'-5128' | 4 JSPF | 16 holes |

**NEWFIELD**

Ashley Federal 8-1-9-15  
 1980 FNL & 660 FEL  
 SE/NE Section 1-T9S-R15E  
 Duchesne Co, Utah  
 API #43-013-31809; Lease #UTU-74826

# Nine Mile #5-6-9-16

Spud Date: 12/14/97  
 Put on Production: 1/17/98  
 GL: 5882' KB: 5894'

Initial Production: 263 BOPD,  
 196 MCFPD, 9 BWPD

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 291'  
 DEPTH LANDED: 292'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 140 sxs Premium cmt, est 8 bbls to surf.

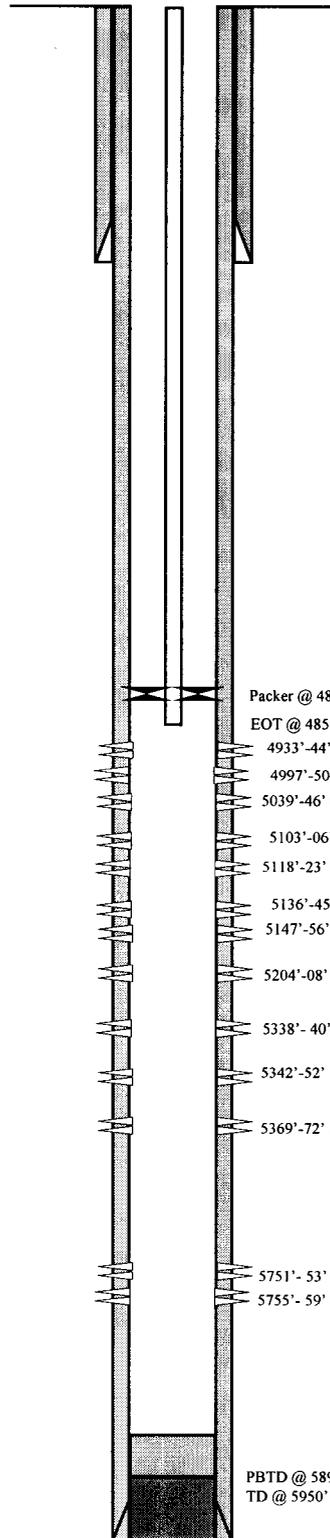
### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 140 jts. (5925')  
 DEPTH LANDED: 5937'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 390 sks Hibond mixed & 375 sks thixotropic  
 CEMENT TOP AT:

### TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
 NO. OF JOINTS: 155 jts (4838')  
 SN LANDED AT: 4850'  
 PACKER: 4851'  
 TOTAL STRING LENGTH: EOT 4858'

Injection Wellbore  
 Diagram



### FRAC JOB

1/6/98 5751'-5759' **Frac CP sand as follows:**  
 95,300# of 20/40 sd in 509 bbls  
 Delta Frac. Treated @ avg rate 28.3 bpm,  
 avg press 2000 psi. Breakdown @ 3129  
 psi. ISIP-2268 psi, 5-min 1884 psi.  
 Flowback for 4 hrs & died.

1/9/98 5338'-5372' **Frac A sand as follows:** 105,400#  
 of 20/40 sd in 538 bbls Delta Frac.  
 Breakdown @ 2051 psi. Treated @ avg  
 rate of 35.2 BPM, avg press 2051 psi.  
 ISIP-2822 psi, 5-min 2577 psi. Flowback  
 on 12/64" ck for 2-1/2 hrs & died.

1/11/98 5103'-5208' **Frac B sand as follows:**  
 124,300# 20/40 sand in 580 bbls Delta  
 Frac. Breakdown @ 1712 psi. Treated  
 w/avg press of 1600 psi w/avg rate of  
 32.5 BPM. ISIP - 3165 psi, 5 min 2712  
 psi. Flowback on 12/64" ck for 3 hrs  
 & died.

1/14/98 4933'-5046' **Frac D/C sand as follows:**  
 131,300# 20/40 sand in 597 bbls of Delta  
 Frac. Breakdown @ 1358 psi. Treated  
 @ avg press of 1900 psi w/avg rate of  
 35.3 BPM. ISIP-2893 psi, 5 min 2551  
 psi. Flowback on 12/64" ck for 3 hrs &  
 died.

7/12/01 Performed MIT on well. Mr. Ingram w/  
 DOGM was not able to witness the test,  
 will be sent chart.

6/27/06 **5 Year MIT completed and submitted.**

### PERFORATION RECORD

|         |             |        |          |
|---------|-------------|--------|----------|
| 1/4/98  | 5751'-5753' | 4 JSPF | 8 holes  |
| 1/4/98  | 5755'-5759' | 4 JSPF | 16 holes |
| 1/8/98  | 5338'-5340' | 4 JSPF | 8 holes  |
| 1/8/98  | 5342'-5352' | 4 JSPF | 40 holes |
| 1/8/98  | 5369'-5372' | 4 JSPF | 12 holes |
| 1/10/98 | 5103'-5106  | 4 JSPF | 12 holes |
| 1/10/98 | 5118'-5123' | 4 JSPF | 20 holes |
| 1/10/98 | 5136'-5145' | 4 JSPF | 36 holes |
| 1/10/98 | 5147'-5156' | 4 JSPF | 36 holes |
| 1/10/98 | 5204'-5208' | 4 JSPF | 16 holes |
| 1/13/98 | 4933'-4944' | 4 JSPF | 44 holes |
| 1/13/98 | 4997'-5005' | 4 JSPF | 32 holes |
| 1/13/98 | 5039'-5046' | 4 JSPF | 28 holes |

**NEWFIELD**

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**Nine Mile #5-6-9-16**  
 1923 FNL & 695 FWL  
 SWNW Section 6-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-31953; Lease #U-74390

## Nine Mile 6-6-9-16

Spud Date: 11/6/97  
 Put on Production: 12/17/97  
 GL: 5841' KB: 5854'

Initial Production: 75 BOPD,  
 74 MCFPD, 36 BWPD

Injector Wellbore  
 Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8 jts (311.79')  
 DEPTH LANDED: 324.70' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Premium cmt, est 1 bbls to surf.

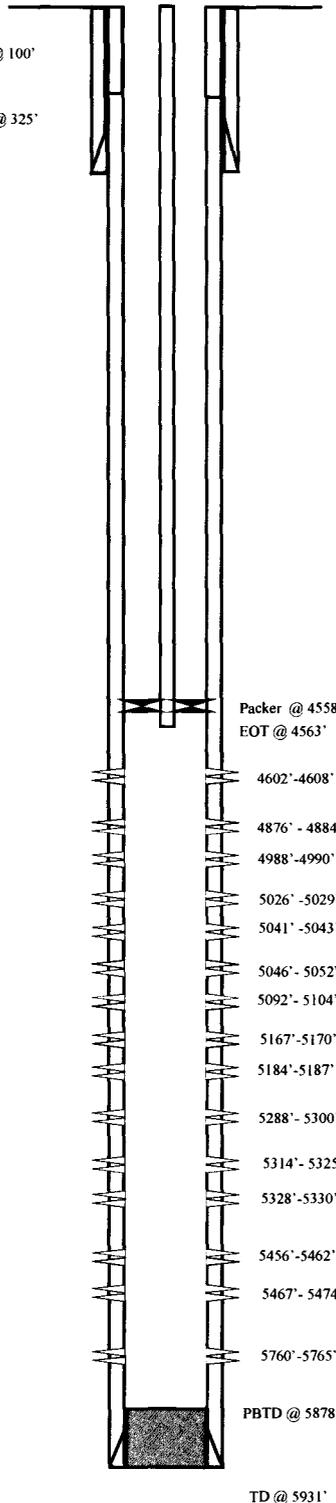
### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 138 jts (5907.44')  
 DEPTH LANDED: 5920.77'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 390 sxs Hibond mixed & 350 sxs thixotropic  
 CEMENT TOP AT: 100' per CBL

### TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
 NO. OF JOINTS: 145 jts (4544.1')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4554.1'  
 CE @ 4558.46'  
 TOTAL STRING LENGTH: EOT @ 4563'

TOC @ 100'  
 Casing shoe @ 325'



### FRAC JOB

|          |             |  |
|----------|-------------|--|
| 12/7/97  | 5456'-5474' | <b>Frac LDC sand as follows:</b><br>121,300# of 20/40 sand in 573 bbls Delta Frac. Treated @ avg press 2600 w/avg rate 29 bpm. ISIP 2836 psi. Calc flush: 5454 gal. Actual flush: 5364 gal.                                |
| 12/9/97  | 5288'-5330' | <b>Frac A sand as follows:</b><br>130,300# of 20/40 sand in 622 bbls Boragel. Treated @ avg press 1950 w/avg rate of 31 bpm. ISIP-2462 psi. Calc flush: 5286 gal. Actual flush:  |
| 12/11/97 | 5026'-5104' | <b>Frac C/B sands as follows:</b><br>114,300# 20/40 sand in 549 bbls Delta Frac Breakdown @ 2220 psi. Treated w/avg press of 1880 psi w/avg rate of 28.1 BPM. ISIP 2974 psi. Calc flush: 5024 gal. Actual flush: 4919 gal. |
| 12/13/97 | 4876'-4884' | <b>Frac D sand as follows:</b><br>114,300# 20/40 sand in 520 bbls of Delta Frac. Treated @ avg press of 2046 psi w/avg rate of 26.2 BPM. ISIP 2550 psi. Calc flush: 4874 gal. Actual flush: 4778 gal.                      |
| 9/28/98  |             | <b>Tubing leak.</b>  |
| 11/20/98 |             | <b>Stuck plunger.</b>  |
| 2/11/99  |             | <b>Parted rods.</b>  |
| 02/29/00 |             | <b>Stuck plunger</b>   |
| 11/3/01  |             | <b>Pump change.</b> Update rod, tubing and down hole details.  |
| 2/23/04  |             | <b>Pump change.</b>  |
| 12/7/04  | 5760'-5765' | <b>Frac CP.5 sands as follows:</b><br>17,970# 20/40 sand in 224 bbls Lightning Frac 17 fluid. Treated @ avg press of 3354 psi w/avg rate of 14.6 BPM. ISIP 2120 psi. Calc flush: 1490 gal. Actual flush: 1428 gal.         |
| 12/7/04  | 5167'-5187' | <b>Frac B2 sands as follows:</b><br>5,633# 20/40 sand in 100 bbls Lightning Frac 17 fluid. Screened out  |
| 12/7/04  | 4988'-4990' | <b>Frac D3 sands as follows:</b><br>10,409# 20/40 sand in 194 bbls Lightning Frac 17 fluid. Screened out   |
| 12/7/04  | 4602'-4608' | <b>Frac PB10 sands as follows:</b><br>22,549# 20/40 sand in 282 bbls Lightning Frac 17 fluid. Treated @ avg press of 2365 psi w/avg rate of 24.6 BPM. ISIP 2500 psi. Calc flush: 4600 gal. Actual flush: 4391 gal.         |
| 03/22/05 |             | <b>Pump Change.</b> Update rod detail  |
| 02/17/06 |             | <b>Pump Change.</b> Update rod and tubing details.   |
| 12-7-07  |             | <b>Parted Rods.</b> Updated rod & tubing details.  |
| 1/12/10  |             | <b>Tubing leak.</b> Updated rod and tubing detail.   |
| 11/4/10  |             | <b>Convert to Injection well</b>   |
| 11/10/10 |             | <b>Conversion MIT - tbg detail updated</b>   |

### PERFORATION RECORD

|          |             |        |          |
|----------|-------------|--------|----------|
| 12/05/97 | 5467'-5474' | 4 JSPF | 28 holes |
| 12/05/97 | 5456'-5462' | 4 JSPF | 24 holes |
| 12/08/97 | 5328'-5330' | 4 JSPF | 8 holes  |
| 12/08/97 | 5314'-5325' | 4 JSPF | 44 holes |
| 12/08/97 | 5288'-5300' | 4 JSPF | 48 holes |
| 12/10/97 | 5092'-5104' | 4 JSPF | 48 holes |
| 12/10/97 | 5046'-5052' | 4 JSPF | 24 holes |
| 12/10/97 | 5041'-5043' | 4 JSPF | 8 holes  |
| 12/10/97 | 5026'-5029' | 4 JSPF | 12 holes |
| 12/12/97 | 4876'-4884' | 4 JSPF | 32 holes |
| 12/06/04 | 5760'-5765' | 4 JSPF | 20 holes |
| 12/06/04 | 5184'-5187' | 4 JSPF | 24 holes |
| 12/06/04 | 5167'-5170' | 4 JSPF | 24 holes |
| 12/06/04 | 4988'-4990' | 4 JSPF | 8 holes  |
| 12/06/04 | 4602'-4608' | 4 JSPF | 20 holes |



**Nine Mile 6-6-9-16**  
 2011 FNL & 1869 FWL  
 SENW Section 6-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-31719; Lease #UTU-74390

# West Point Federal N-6-9-16

Spud Date: 12/29/2009  
 Put on Production: 02/02/2010  
 GL: 5898' KB: 5910'

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 6 jts. (265.03')  
 DEPTH LANDED: 321.43'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt

**PRODUCTION CASING**

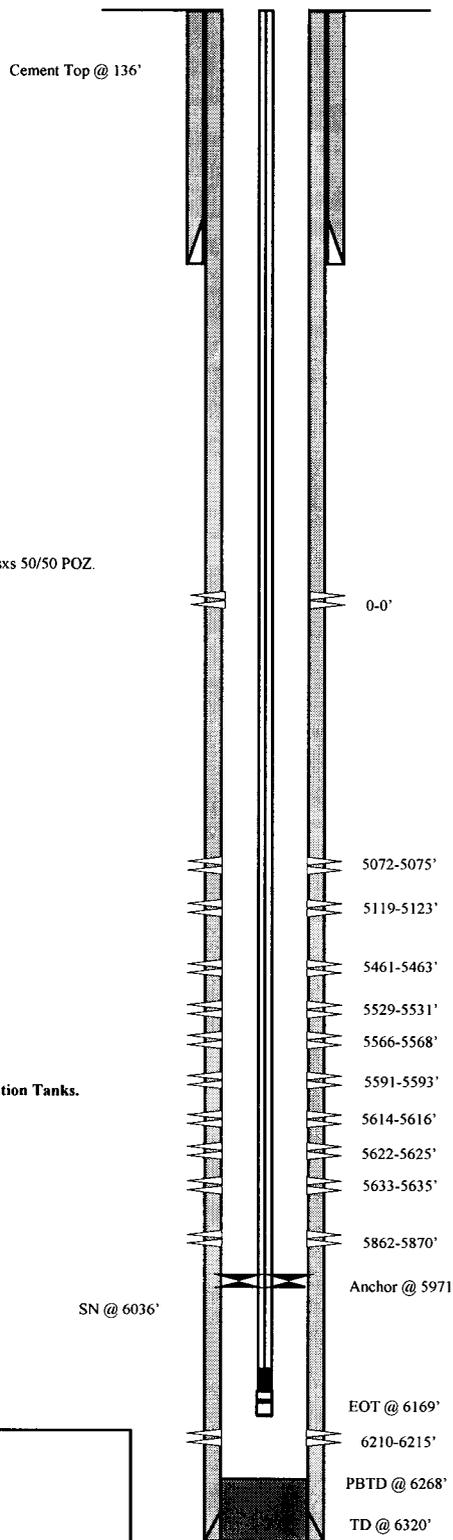
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 154 jts. (6296.51')  
 HOLE SIZE: 7-7/8"  
 TOTAL DEPTH: 6311.12'  
 CEMENT DATA: 275 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 136'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 190 jts (5958.5')  
 TUBING ANCHOR: 5970.5'  
 NO. OF JOINTS: 2 jts (62.9')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 6036.2' KB  
 NO. OF JOINTS: 1 jts (31.5')  
 TOTAL STRING LENGTH: EOT @ 6169'

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 26'  
 SUCKER RODS: **Well Flowing To Production Tanks.**  
 PUMP SIZE:  
 STROKE LENGTH:  
 PUMP SPEED: SPM



**FRAC JOB**

|          |            |  |
|----------|------------|--|
| 02-03-10 | 6210-6215' | Frac CP5 sands as follows: Frac with 10747# 20/40 sand in 89 bbls Lightning 17 fluid.          |
| 02-03-10 | 5862-5870' | Frac CP.5 sands as follows: Frac with 20180# 20/40 sand in 174 bbls Lightning 17 fluid.        |
| 02-03-10 | 5461-5635' | Frac A3 & LODC sands as follows: Frac with 150746# 20/40 sand in 937 bbls Lightning 17 fluid.  |
| 02-03-10 | 5013-5123' | Frac D2, D3, & C sands as follows: Frac with 54111# 20/40 sand in 332 bbls Lightning 17 fluid. |

**PERFORATION RECORD**

|            |        |          |
|------------|--------|----------|
| 6210-6215' | 3 JSPF | 15 holes |
| 5862-5870' | 3 JSPF | 24 holes |
| 5633-5635' | 3 JSPF | 6 holes  |
| 5622-5625' | 3 JSPF | 9 holes  |
| 5614-5616' | 3 JSPF | 6 holes  |
| 5591-5593' | 3 JSPF | 6 holes  |
| 5566-5568' | 3 JSPF | 6 holes  |
| 5529-5531' | 3 JSPF | 6 holes  |
| 5461-5463' | 3 JSPF | 6 holes  |
| 5119-5123' | 3 JSPF | 12 holes |
| 5072-5075' | 3 JSPF | 9 holes  |
| 5013-5019' | 3 JSPF | 18 holes |



**NEWFIELD**

**West Point Federal N-6-9-16**  
 2030' FSL & 545' FWL (NW/SW)  
 Section 6, T9S, R16E  
 Duchesne Co, Utah  
 API # 43-013-34077; Lease # UTU-74390

**NEWFIELD**

**Schematic**

Well Name: **W Point 12-6-9-16**

43-013-31765

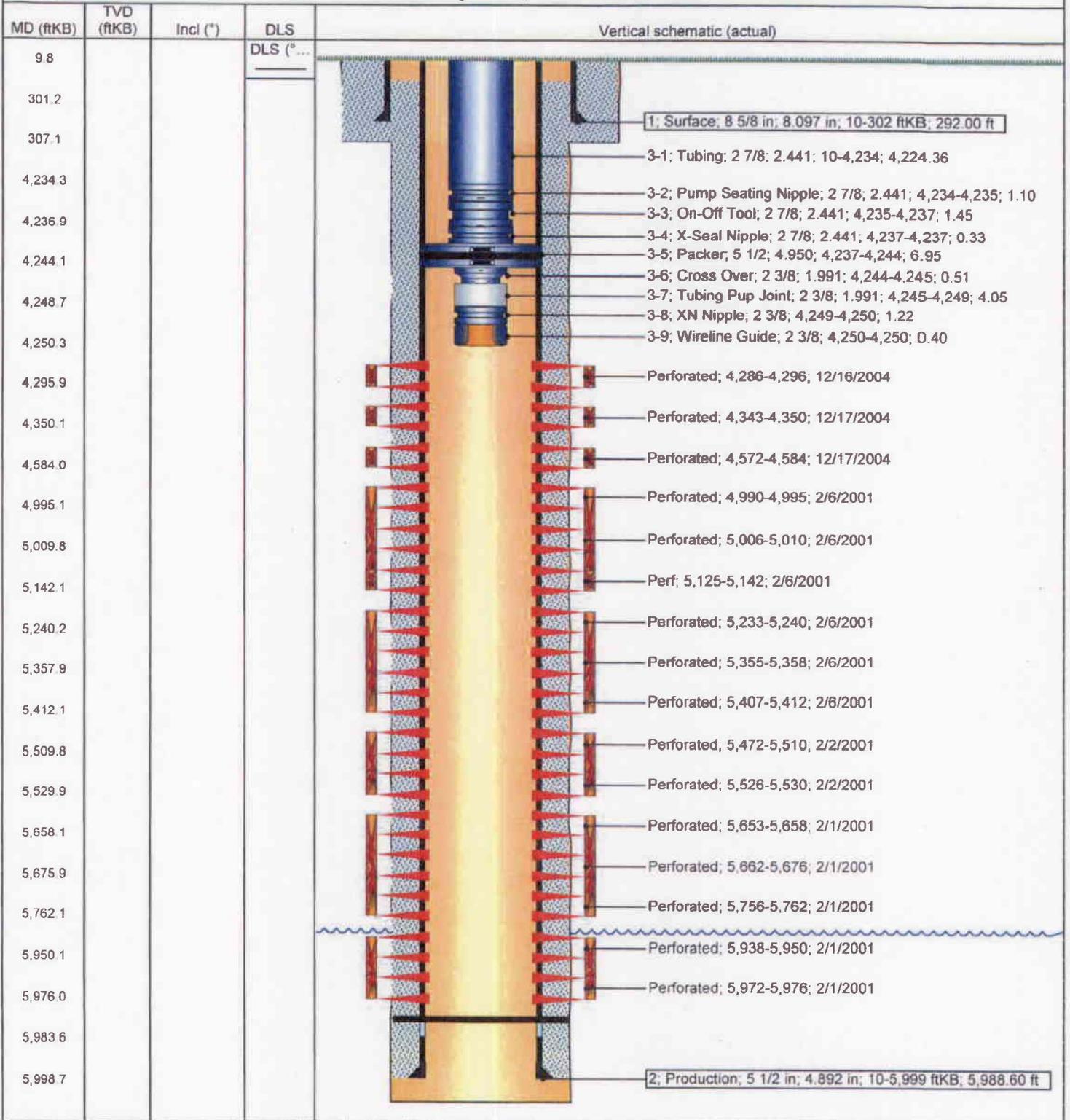
|                                     |                  |                                 |                                     |                                |                              |  |                    |
|-------------------------------------|------------------|---------------------------------|-------------------------------------|--------------------------------|------------------------------|--|--------------------|
| Surface Legal Location<br>06-9S-16E |                  | API/UWI<br>43013317650000       | Well RC<br>500151509                | Lease                          | State/Province<br>Utah       | Field Name<br>GMBU CTB2                      | County<br>DUCHESNE |
| Spud Date                           | Rig Release Date | On Production Date<br>2/10/2001 | Original KB Elevation (ft)<br>5,905 | Ground Elevation (ft)<br>5,895 | Total Depth All (TVD) (ftKB) | PBTD (All) (ftKB)<br>Original Hole - 5,982.9 |                    |

**Most Recent Job**

|                                       |                                |                             |                             |              |
|---------------------------------------|--------------------------------|-----------------------------|-----------------------------|--------------|
| Job Category<br>Production / Workover | Primary Job Type<br>Conversion | Secondary Job Type<br>Basic | Job Start Date<br>3/12/2014 | Job End Date |
|---------------------------------------|--------------------------------|-----------------------------|-----------------------------|--------------|

**TD: 6,013.0**

Vertical - Original Hole, 3/25/2014 12:30:13 PM



# Monument Federal 31-6Y-9-16

Spud Date: 11/20/96  
 Put on Production: 1/2/97  
 GL: 5855.4' KB: 5865' (10'KB)

Initial Production:  
 62 BOPD, 193 MCFPD, 16 BWPD

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH:  
 DEPTH LANDED: 260.50' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt

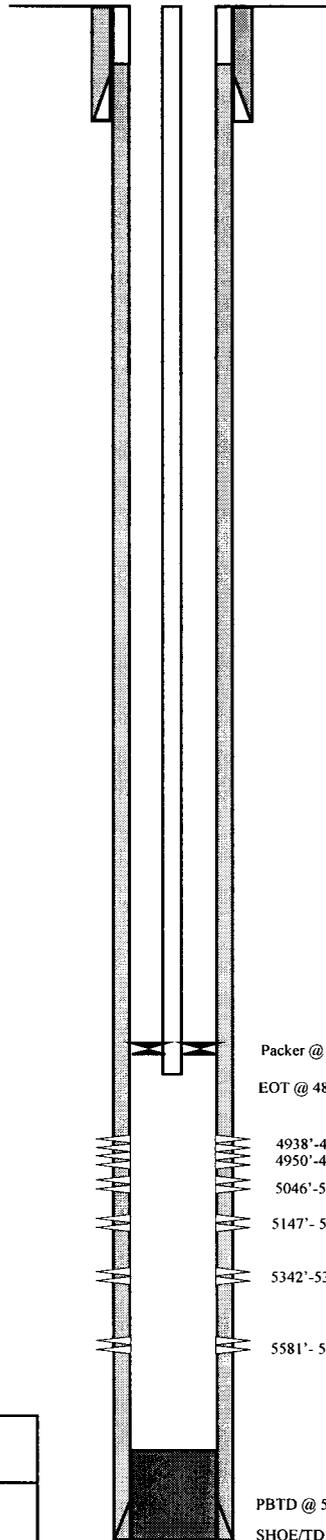
**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH:  
 DEPTH LANDED: 5986.71' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 310 sxs "C" & 435 sxs 50/50 Poz  
 CEMENT TOP AT: 100' per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 152 jts (4870.2')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4880.2' KB  
 CE @ 4881.3'  
 TOTAL STRING LENGTH: EOT @ 4889'

Injection Wellbore Diagram



**FRAC JOB**

|             |  |
|-------------|--|
| 4938'-4954' | <b>Frac as follows:</b><br>Break down w/ 2478 gals 2% KCL water.<br>Frac w/ 8200# 20/40 mesh sand and 20,300# 16/30 mesh sand w/12,684 gals 2% KCL gelled water. ISIP 2160 psi.  |
| 5046'-5053' | <b>Frac as follows:</b><br>Break down w/ 1764 gals 2% KCL water.<br>Frac w/12,900# 20/40 mesh sand and 32,400# 16/30 mesh sand w/17,472 gals 2% KCL gelled water. ISIP 2160 psi. |
| 5147'-5155' | <b>Frac as follows:</b><br>Break down w/1596 gals 2% KCL water.<br>Frac w/12,900# 20/40 mesh sand and 32,400# 16/30 mesh sand w/17,472 gals 2% KCL gelled water. ISIP 2160 psi.  |
| 5342'-5352' | <b>Frac as follows:</b><br>Break down w/2646 gals 2% KCL water.<br>Frac w/8,600# 20/40 mesh sand and 24,200# 16/30 mesh sand w/13,566 gals 2% KCL gelled water.                  |
| 5581'-5591' | <b>Frac as follows:</b><br>Break down w/2394 gals 2% KCL water.<br>Frac w/87,000# 20/40 mesh sand and 18,800# 16/30 mesh sand w/14,196 gals 2% KCL gelled water. ISIP 2450 psi.  |
| 2/05/02     | <b>Tubing leak.</b> Update rod and tubing details.   |
| 6/10/04     | <b>Tubing Leak.</b> Update rod and tubing details.   |
| 2-17-06     | <b>Re-Completion</b>   |
| 2-14-06     | <b>5581-5591' Frac LODC sands as follows:</b><br>54817# 20/40 sand in 499 bbls Lightning 17 frac fluid. 13.9 BPM. ISIP 3275 psi.   |
| 2-14-06     | <b>5342-5352' Frac A1 sands as follows:</b><br>55281# 20/40 sand in 472 bbls Lightning 17 frac fluid. 14.1 BPM. ISIP 2400 psi  |
| 2-15-06     | <b>5046-5053' Frac D3 sands as follows:</b><br>27736# 20/40 sand in 324 bbls Lightning 17 frac fluid. 13.9 BPM. Screened out w/23354# sand in perfs.                             |
| 03/05/2010  | <b>Convert to Injection well</b>   |
| 03/09/2010  | <b>MIT Completed – tbg detail updated</b>  |

**PERFORATION RECORD**

|                   |        |          |
|-------------------|--------|----------|
| 4938'-4944'       | 4 JSPF | 24 holes |
| 4950'-4954'       | 4 JSPF | 16 holes |
| 5046'-5053'       | 1 JSPF | 7 holes  |
| 5147'-5155'       | 1 JSPF | 8 holes  |
| 5342'-5352'       | 4 JSPF | 40 holes |
| 5581'-5591'       | 4 JSPF | 40 holes |
| 5581-5591' Reperf | 8 JSPF | 80holes  |
| 5342-5352' Reperf | 8 JSPF | 80 holes |
| 5046-5053' Reperf | 5 JSPF | 35 holes |

**NEWFIELD**

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**Monument Federal 31-6Y-9-16**

624' FNL & 1926' FEL  
 NW/NE Section 6-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-31717; Lease #UTU-74390

# West Point G-6-9-16

Spud Date: 4/25/2009  
 Put on Production: 6/23/2009  
 GL: 5866' KB: 5878'

## Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8 jts (309.35')  
 DEPTH LANDED: 321.20' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx class 'G' cmt

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 164 jts (6299.67')  
 DEPTH LANDED: 6351.64'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 280 sx premlite II and 400 sx 50/50 poz  
 CEMENT TOP AT: 42'

### TUBING

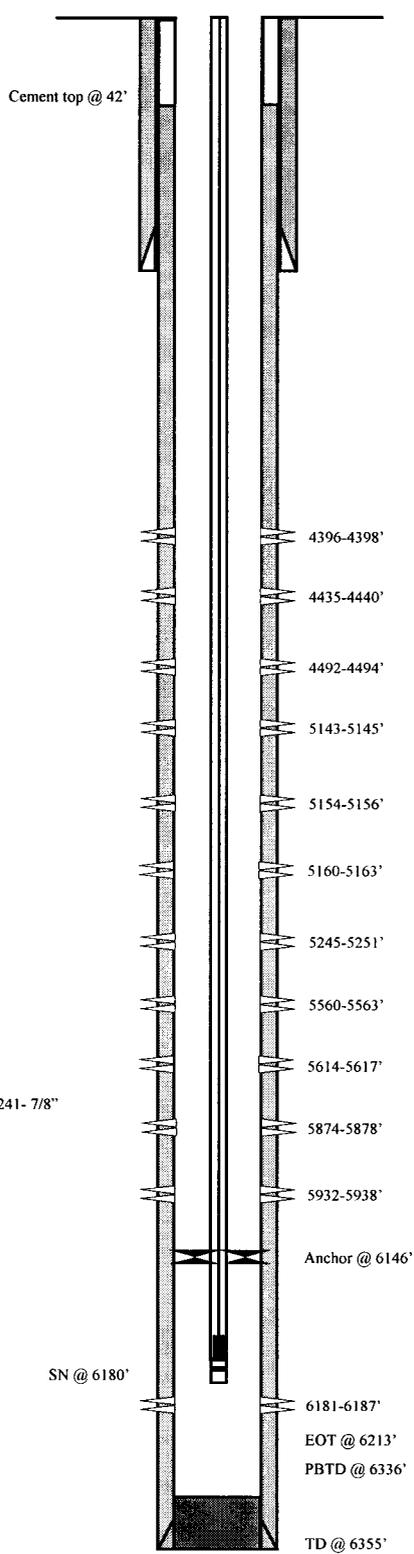
SIZE/GRADE/WT.: 2-7/8"/J-55  
 NO. OF JOINTS: 194 jts (6134.2')  
 TUBING ANCHOR: 6146.2' KB  
 NO. OF JOINTS: 1 jts (30.5')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 6179.6' KB  
 NO. OF JOINTS: 1 jts (31.7')  
 TOTAL STRING LENGTH: EOT @ 6213'

### SUCKER RODS

POLISHED ROD: 1 1/2" x 30' polished rod  
 SUCKER RODS: 1-2' x 7/8", 1-4' x 7/8", 2-16' x 7/8" pony rods, 241- 7/8" guided rods (8 per), 4-1 1/2" weight bars  
 PUMP SIZE: central hydraulic 2 1/2" x 1 3/4" x 21' x 24' RHAC  
 STROKE LENGTH: 144"  
 PUMP SPEED, SPM: 5

### FRAC JOB

6/24/2009 6181-6187' Frac CP5 sands as follows:  
 15,310# 20/40 sand in 126 bbls of Lightning 17 fluid.  
 6/24/2009 5874-5938' Frac CP.5 & CP2 sands as follows:  
 50,947# 20/40 sand in 308 bbls of Lightning 17 fluid.  
 6/24/2009 5563-5614' Frac LODC sands as follows:  
 15,486# 20/40 sand in 124 bbls of Lightning 17 fluid.  
 6/24/2009 5245-5251' Frac B1 sands as follows:  
 19,339# 20/40 sand in 176 bbls of Lightning 17 fluid.  
 6/24/2009 5143-5163' Frac C sands as follows:  
 56,003# 20/40 sand in 342 bbls of Lightning 17 fluid.  
 6/24/2009 4396-4494' Frac GB4 & GB6 sands as follows:  
 39,413# 20/40 sand in 256 bbls of Lightning 17 fluid.



### PERFORATION RECORD

|            |        |          |
|------------|--------|----------|
| 6181-6187' | 4 JSPF | 24 holes |
| 5932-5938' | 3 JSPF | 18 holes |
| 5874-5878' | 3 JSPF | 12 holes |
| 5614-5617' | 3 JSPF | 9 holes  |
| 5560-5563' | 3 JSPF | 9 holes  |
| 5245-5251' | 3 JSPF | 18 holes |
| 5160-5163' | 3 JSPF | 9 holes  |
| 5154-5156' | 3 JSPF | 6 holes  |
| 5143-5145' | 3 JSPF | 6 holes  |
| 4492-4494' | 3 JSPF | 6 holes  |
| 4435-4440' | 3 JSPF | 15 holes |
| 4396-4398' | 3 JSPF | 6 holes  |

**NEWFIELD**

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**West Point Fed G-6-9-16**

1992' FNL & 1870' FWL SE/NW  
 Section 6-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-34076; Lease # UTU-74390

# West Point 13-31-8-16

Spud Date: 4-10-10  
 Put on Production: 5-1-10  
 GL: 5867' KB: 5879'

## Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7jts. (309.09')  
 DEPTH LANDED: 321.94'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 Class "G" cmt

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 151jts. (6567.36')  
 HOLE SIZE: 7-7/8"  
 TOTAL DEPTH: 6611.51'  
 CEMENT DATA: 300 Prem. Lite II mixed & 425sxs 50/50 POZ.  
 CEMENT TOP AT: 442'

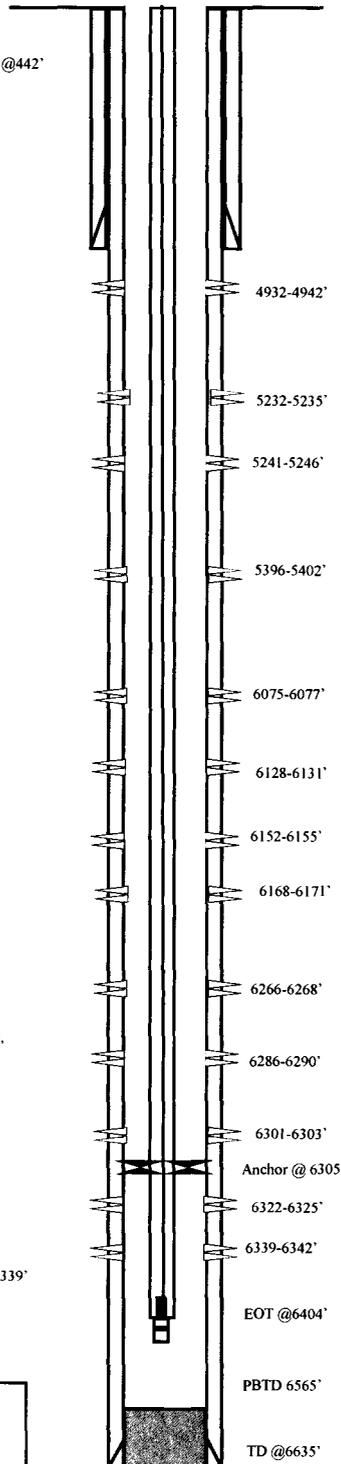
### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 200jts (6292.6')  
 TUBING ANCHOR: 6305.6'  
 NO. OF JOINTS 1jts (31.4')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 6339.8' KB  
 NO. OF JOINTS: 2jts (63.1')  
 TOTAL STRING LENGTH: EOT 6404'

### SUCKER RODS

POLISHED ROD: 1-1/2" x 26'  
 SUCKER RODS 1-2', 1-4', 1-8' pony rods, 97-x 7/8 4 per guided rod,  
 86x 3/4 sucker rods, 63-4 per guided rods, 6- 1 1/2" weight bars.  
 PUMP SIZE: 2 1/2 x 1 1/2 x 20" RHAC  
 STROKE LENGTH: 122  
 PUMP SPEED: SPM 5

Cement Top @ 442'



SN 6339'

### FRAC JOB

5-1-10 6266-6342' **Frac BSCarb sands as follows:**  
 Frac with 74871# 30/50 sand in  
 1721bbbs Slick Water.

5-1-10 6075-6171' **Frac CP Lime, CP5 & BSL-SD as**  
**Follows:**Frac with 74802# 30/50 sand in  
 1723bbbs Slick Water.

5-1-10 5396-5402' **Frac A3 sands as**  
**follows:**Frac with 14942# 20/40 sand in  
 133bbbs lightning 17.

5-1-10 5232-5246' **Frac B2 sands as follows:**Frac  
 with 50199# 20/40 sand in 310bbbs  
 Lightning 17.

5-1-10 4932-4942' **Frac D1 sands as follows:**Frac with  
 36737# 20/40 sand in 249bbbs Lightning  
 17 fluid

1/12/2011  
 Tubing leak. Update rod and tubing  
 details.

### PERFORATION RECORD

|            |        |          |
|------------|--------|----------|
| 6339-6342' | 3 JSPF | 9holes   |
| 6322-6325' | 3 JSPF | 9holes   |
| 6301-6303' | 3 JSPF | 6 holes  |
| 6286-6290' | 3 JSPF | 12holes  |
| 6266-6268' | 3 JSPF | 6 holes  |
| 6168-6171' | 3 JSPF | 9holes   |
| 6152-6155' | 3 JSPF | 9holes   |
| 6128-6131' | 3 JSPF | 9holes   |
| 6075-6077' | 3 JSPF | 6holes   |
| 5396-5402' | 3 JSPF | 18holes  |
| 5241-5246' | 3 JSPF | 9holes   |
| 4942-4942' | 3 JSPF | 30 holes |

**NEWFIELD**

**WP 13-31-8-16**

644' FSL & 682' FWL (SW/SW)  
 Section 31, T8S, R16E  
 Duchesne Co, Utah  
 API # 43-013-34202; UTU-74389

Attachment E-15

**NEWFIELD**

**Schematic**

43-013-51769

**Well Name: GMBU L-1-9-15**

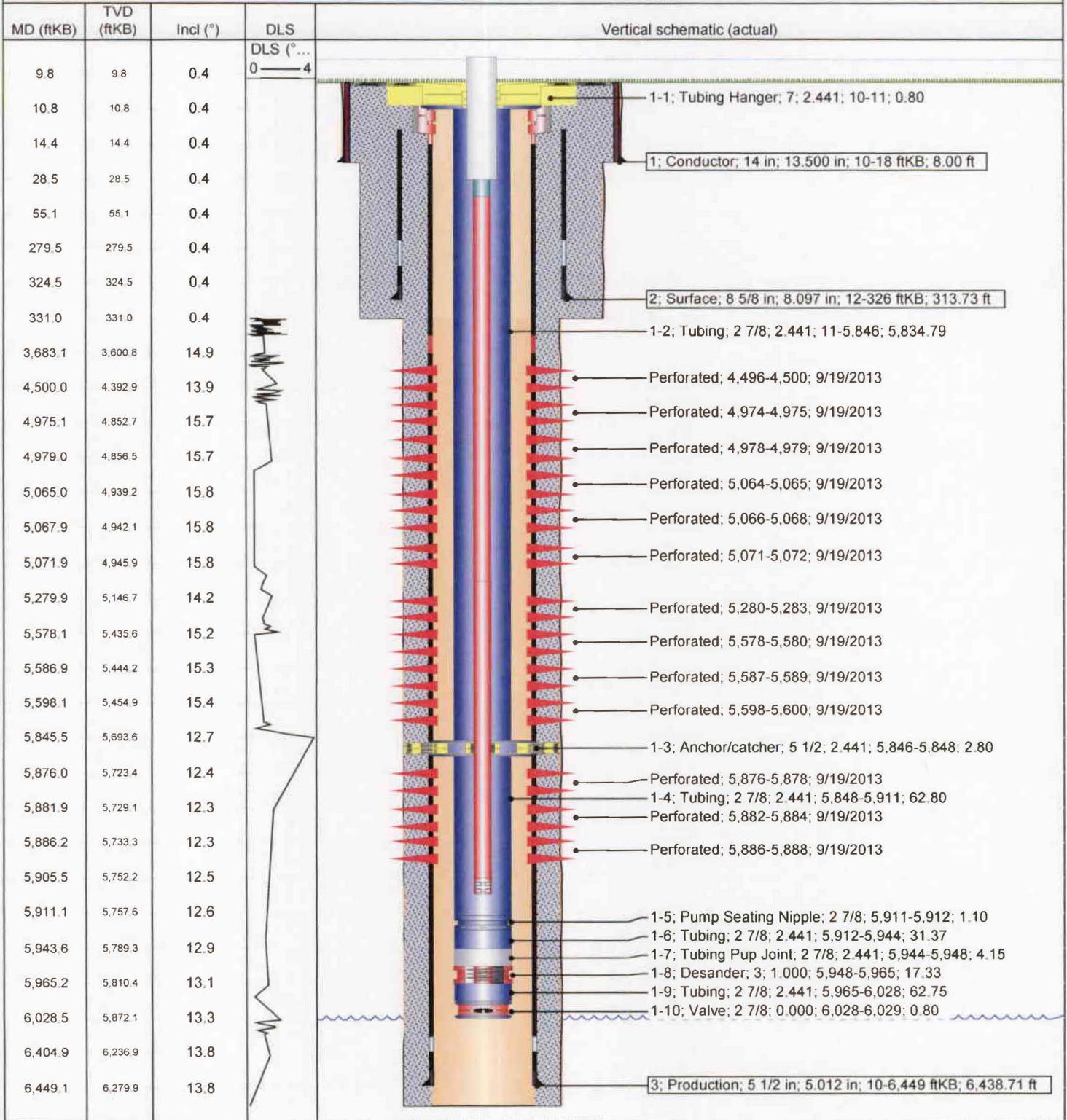
|   |                               |                                 |                                     |                                |   |  |                    |
|---|-------------------------------|---------------------------------|-------------------------------------|--------------------------------|---|--|--------------------|
| Surface Legal Location<br>SWNE 1814 FNL 2084 FEL Sec 1 T9S R15E Mer SLB |                               | API/UWI<br>43013517690000       | Well RC<br>500346986                | Lease<br>UTU74826              | State/Province<br>Utah                                  | Field Name<br>MYTON AREA                     | County<br>Duchesne |
| Spud Date<br>7/15/2013  | Rig Release Date<br>8/16/2013 | On Production Date<br>9/25/2013 | Original KB Elevation (ft)<br>5,909 | Ground Elevation (ft)<br>5,899 | Total Depth All (TVD) (ftKB)<br>Original Hole - 6,290.5 | PBTD (All) (ftKB)<br>Original Hole - 6,403.0 |                    |

**Most Recent Job**

|                                    |  |                           |                            |                           |
|------------------------------------|--|---------------------------|----------------------------|---------------------------|
| Job Category<br>Initial Completion | Primary Job Type<br>Fracture Treatment | Secondary Job Type<br>P&P | Job Start Date<br>9/4/2013 | Job End Date<br>9/25/2013 |
|------------------------------------|--|---------------------------|----------------------------|---------------------------|

**TD: 6,460.0**

Slant - Original Hole, 7/7/2014 10:33:55 AM



**NEWFIELD**

**Schematic**

Well Name: **GMBU H-6-9-16**

43-013-51777

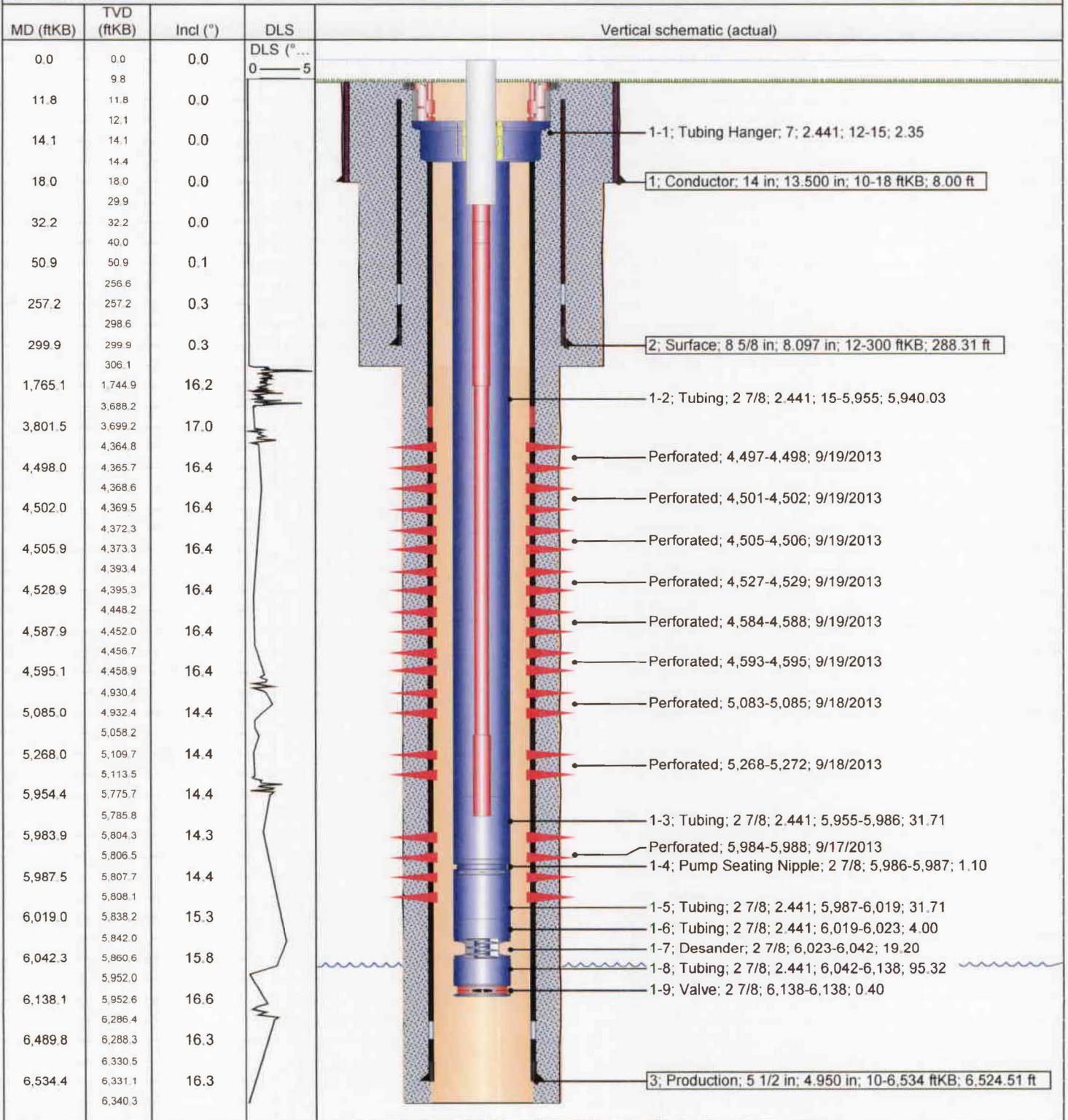
|   |                              |                                 |                                     |                                |   |  |                        |                         |                    |
|---|------------------------------|---------------------------------|-------------------------------------|--------------------------------|---|--|------------------------|-------------------------|--------------------|
| Surface Legal Location<br>SWNE 2258 FNL 1777 FEL Sec 6 T9S R16E Mer SLB |                              |                                 |                                     | API/UWI<br>43013517770000      | Well RC<br>500348132                                    | Lease<br>UTU74390                            | State/Province<br>Utah | Field Name<br>GMBU CTB1 | County<br>Duchesne |
| Spud Date<br>8/19/2013  | Rig Release Date<br>9/1/2013 | On Production Date<br>9/24/2013 | Original KB Elevation (ft)<br>5,898 | Ground Elevation (ft)<br>5,888 | Total Depth All (TVD) (ftKB)<br>Original Hole - 6,340.3 | PBTD (All) (ftKB)<br>Original Hole - 6,488.0 |                        |                         |                    |

**Most Recent Job**

|                                    |  |                           |                             |                           |
|------------------------------------|--|---------------------------|-----------------------------|---------------------------|
| Job Category<br>Initial Completion | Primary Job Type<br>Fracture Treatment | Secondary Job Type<br>P&P | Job Start Date<br>9/17/2013 | Job End Date<br>9/25/2013 |
|------------------------------------|--|---------------------------|-----------------------------|---------------------------|

**TD: 6,544.0**

Slant - Original Hole, 7/7/2014 10:35:12 AM



# GMBU M-6-9-16

Spud Date: 7/3/12  
 Put on Production: 8/3/12  
 GL: 5871' KB: 5881'

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8jts  
 DEPTH LANDED: 340.77'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt., circ 4bbls to surf.

**PRODUCTION CASING**

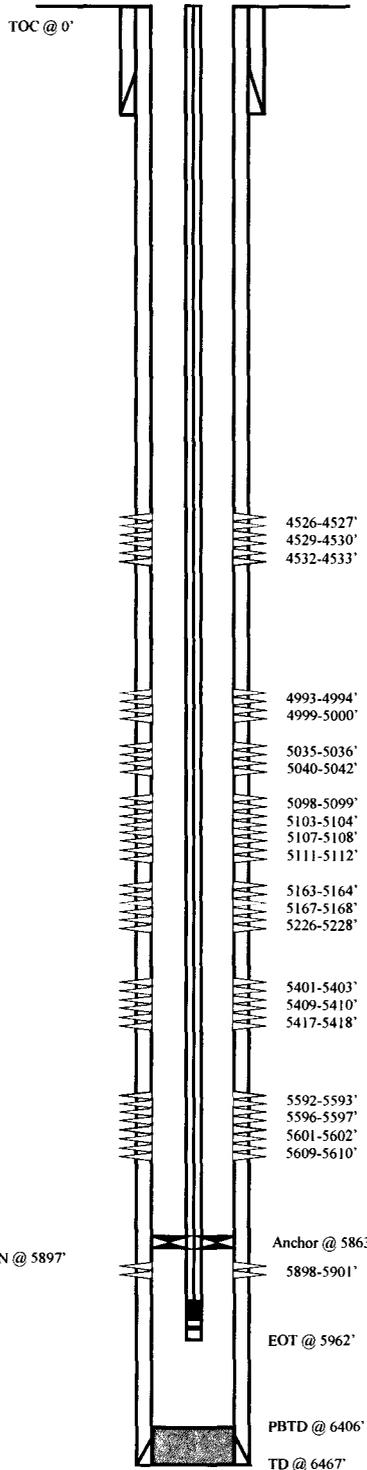
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 147jts  
 DEPTH LANDED: 6458.61'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 250sxs Premilite II & 465sxs 50/50 POZ.  
 CEMENT TOP: 0' per CBL 7/27/12

**TUBING (KS 8/7/12)**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 187jts (5852.3')  
 TUBING ANCHOR: 5863.1'  
 NO. OF JOINTS: 1jt (31.5')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5897.4'  
 NO. OF JOINTS: 2jts (63')  
 NOTCHED COLLAR: 2-7/8" (0.5')  
 TOTAL STRING LENGTH: EOT @ 5962'

**SUCKER RODS (KS 8/7/12)**

POLISHED ROD: 1-1/4" x 30' Polished Rod  
 SUCKER RODS: 3 x 6' x 7/8" Pony Rods, 68 x 7/8" 4per  
 Guided Rods, 138 x 3/4" 4per Guided Rods, 28 x 7/8" 4per  
 Guided Rods  
 PUMP SIZE: 2-1/2" x 1-3/4" x 20' x 21' x 24' RHAC  
 STROKE LENGTH: 146"  
 PUMP SPEED, SPM: 5.5  
 PUMPING UNIT: DARCO C-640-365-168



**FRAC JOB**

| Date   | Depth Range | Fracture Details   |
|--------|-------------|--|
| 8/8/12 | 5898-5901'  | Frac zone as follows:<br>14,225# 20/40 sand in 172 bbls 17# Borate fluid. Treated @ avg press of 3212 psi w/avg rate of 20 BPM. ISIP 1736 psi. |
| 8/8/12 | 5592-5610'  | Frac zone as follows:<br>56,063# 20/40 sand in 375 bbls 17# Borate fluid. Treated @ avg press of 3108 psi w/avg rate of 25 BPM. ISIP 2990 psi. |
| 8/8/12 | 5401-5418'  | Frac zone as follows:<br>40,032# 20/40 sand in 515 bbls 17# Borate fluid. Treated @ avg press of 3181 psi w/avg rate of 31 BPM. ISIP 1776 psi. |
| 8/8/12 | 5163-5228'  | Frac zone as follows:<br>29,943# 20/40 sand in 240 bbls 17# Borate fluid. Treated @ avg press of 3382 psi w/avg rate of 29 BPM. ISIP 1814 psi. |
| 8/8/12 | 5098-5112'  | Frac zone as follows:<br>49,499# 20/40 sand in 293 bbls 17# Borate fluid. Treated @ avg press of 3387 psi w/avg rate of 30 BPM. ISIP 2225 psi. |
| 8/8/12 | 4993-5042'  | Frac zone as follows:<br>61,450# 20/40 sand in 77 bbls 17# Borate fluid. Treated @ avg press of 3485 psi w/avg rate of 28 BPM. ISIP 1900 psi.  |
| 8/8/12 | 4526-4533'  | Frac zone as follows:<br>35,706# 20/40 sand in 281 bbls 17# Borate fluid. Treated @ avg press of 3276 psi w/avg rate of 25 BPM. ISIP 2216 psi. |

**PERFORATION RECORD**

|            |        |         |
|------------|--------|---------|
| 4526-4527' | 3 JSFP | 3 holes |
| 4529-4530' | 3 JSFP | 3 holes |
| 4532-4533' | 3 JSFP | 3 holes |
| 4993-4994' | 3 JSFP | 3 holes |
| 4999-5000' | 3 JSFP | 3 holes |
| 5035-5036' | 3 JSFP | 3 holes |
| 5040-5042' | 3 JSFP | 6 holes |
| 5098-5099' | 3 JSFP | 3 holes |
| 5103-5104' | 3 JSFP | 3 holes |
| 5107-5108' | 3 JSFP | 3 holes |
| 5111-5112' | 3 JSFP | 3 holes |
| 5163-5164' | 3 JSFP | 3 holes |
| 5167-5168' | 3 JSFP | 3 holes |
| 5226-5228' | 3 JSFP | 6 holes |
| 5417-5418' | 3 JSFP | 3 holes |
| 5401-5403' | 3 JSFP | 6 holes |
| 5409-5410' | 3 JSFP | 3 holes |
| 5592-5593' | 3 JSFP | 3 holes |
| 5596-5597' | 3 JSFP | 3 holes |
| 5601-5602' | 3 JSFP | 3 holes |
| 5609-5610' | 3 JSFP | 3 holes |
| 5898-5901' | 3 JSFP | 9 holes |

**NEWFIELD**

---

**GMBU M-6-9-16**  
 1832' FSL & 1853' FEL  
 NWSE Section 6-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-51115; Lease #UTU-74390

# Nine Mile #3-6-9-16

Spud Date: 10/16/97  
 Put on Production: 12/3/97  
 GL: 5841' KB: 5853'

Initial Production: 52 BOPD,  
 81 MCFPD, 12 BWPD

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH:  
 DEPTH LANDED: 282.12' GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 120 sks Premium cmt, est 7 bbls to surf

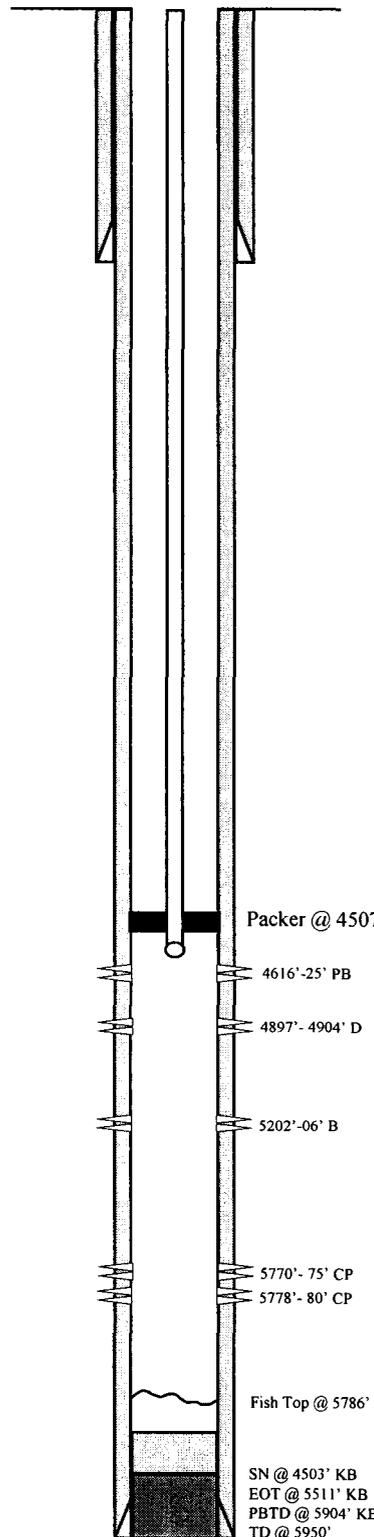
**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 138 jts. (5931')  
 DEPTH LANDED: 5944'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 380 sks Hibond mixed & 335 sks thixotropic  
 CEMENT TOP AT:

**TUBING**

SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 144 jts  
 PACKER: 4507' KB  
 TOTAL STRING LENGTH: 4511'  
 SN LANDED: 4503' KB

Injection Wellbore Diagram



**FRAC JOB**

11/21/97 5770'-5780' **Frac CP sand as follows:**  
 95,300# of 20/40 sd in 504 bbls Delta Frac. Treated @ avg rate 28 bpm, avg press 2110 psi. Breakdown @ 3618 psi. ISIP-2612 psi, 5-min 2117 psi. Flowback for 3 hrs & died

11/23/97 5202'-5206' **Frac B sand as follows:** 95,300# of 20/40 sd in 492 bbls Delta Frac. Breakdown @ 3401 psi. Treated @ avg rate of 26.4 BPM, avg press 2250 psi. ISIP-2060 psi, 5-min 1866 psi. Flowback on 12/64" ck for 4 hrs & died

11/26/97 4897'-4904' **Frac D sand as follows:**  
 95,300# 20/40 sand in 501 bbls Delta Frac. Breakdown @ 2095 psi. Treated w/avg press of 2090 psi w/avg rate of 25.9 BPM. ISIP - 2611 psi, 5 min 2496 psi. Flowback on 12/64" ck for 3-1/2 hrs & died

11/29/97 4616'-4625' **Frac PB sand as follows:**  
 95,300# 20/40 sand in 479 bbls of Delta Frac. Breakdown @ 2316 psi. Treated @ avg press of 2210 psi w/avg rate of 26BPM. ISIP-2762 psi, 5 min 2551 psi. Flowback on 12/64" ck for 2 hrs & died

2/4/09 **5 Year MIT completed and submitted.**

**PERFORATION RECORD**

|          |             |        |           |
|----------|-------------|--------|-----------|
| 11/19/97 | 5770'-5775' | 4 JSPF | 20 holes  |
| 11/19/97 | 5778'-5780' | 4 JSPF | 8 holes   |
| 11/22/97 | 5202'-5206' | 4 JSPF | 16 holes  |
| 11/25/97 | 4897'-4904' | 4 JSPF | -28 holes |
| 11/27/97 | 4616'-4625' | 4 JSPF | 36 holes  |



**Nine Mile #3-6**  
 663 FNL 1728 FWL  
 NENW Section 6-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-31816; Lease #UTU-74390

Attachment # 184



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

multi-chem®

**Water Analysis Report**

Production Company: **NEWFIELD PRODUCTION (158)**  
 Well Name: **Federal 4-6-9-16**  
 Sample Point: **Treater**  
 Sample Date: **4 /12/2010**  
 Sales Rep: **Randy Huber**  
 Lab Tech: **John Keel**

Sample ID: **WA-39451**

| Sample Specifics            |           |
|-----------------------------|-----------|
| Test Date:                  | 4/12/2010 |
| Temperature (°F):           | 60        |
| Sample Pressure (psig):     | 0         |
| Specific Gravity (g/cm³):   | 1.0140    |
| pH:                         | 8.9       |
| Turbidity (NTU):            | -         |
| Calculated T.D.S. (mg/L)    | 17180     |
| Molar Conductivity (µS/cm): | 26030     |
| Resitivity (Mohm):          | 0.3842    |

| Analysis @ Properties in Sample Specifics |         |                     |          |
|---|---------|---------------------|----------|
| Cations                                   | mg/L    | Anions              | mg/L     |
| Calcium (Ca):                             | 40.00   | Chloride (Cl):      | 10000.00 |
| Magnesium (Mg):                           | -       | Sulfate (SO₄):      | 28.00    |
| Barium (Ba):                              | 3.00    | Dissolved CO₂:      | -        |
| Strontium (Sr):                           | -       | Bicarbonate (HCO₃): | 536.00   |
| Sodium (Na):                              | 6559.00 | Carbonate (CO₃):    | -        |
| Potassium (K):                            | -       | H₂S:                | 10.00    |
| Iron (Fe):                                | 3.50    | Phosphate (PO₄):    | -        |
| Manganese (Mn):                           | 0.53    | Silica (SiO₂):      | -        |
| Lithium (Li):                             | -       | Fluoride (F):       | -        |
| Aluminum (Al):                            | -       | Nitrate (NO₃):      | -        |
| Ammonia NH₃:                              | -       | Lead (Pb):          | -        |
|   |         | Zinc (Zn):          | -        |
|   |         | Bromine (Br):       | -        |
|   |         | Boron (B):          | -        |

| Test Conditions |                  | Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl |       |              |          |                 |          |                   |       |                |        |                |
|-----------------|------------------|--|-------|--------------|----------|-----------------|----------|-------------------|-------|----------------|--------|----------------|
|                 |                  | Calcium Carbonate  |       | Gypsum       |          | Calcium Sulfate |          | Strontium Sulfate |       | Barium Sulfate |        | Calculated CO₂ |
|                 |                  | CaCO₃  | CaCO₃ | CaSO₄ · 2H₂O | CaSO₄    | CaSO₄           | SrSO₄    | SrSO₄             | BaSO₄ | BaSO₄          |        |                |
| Temp °F         | Gauge Press. psi | Sat Index  | Scale | Sat Index    | Scale    | Sat Index       | Scale    | Sat Index         | Scale | Sat Index      | Scale  | psi            |
| 60              | 0                | 6.73   | 33.91 | 0.00         | -2768.70 | 0.00            | -3247.00 | -                 | -     | 3.26           | 3.44   | 0.01           |
| 80              | 0                | 9.18   | 41.85 | 0.00         | -12.71   | 0.00            | -3194.20 | -                 | -     | 2.08           | 2.54   | 0.01           |
| 100             | 0                | 11.15  | 45.82 | 0.00         | -9.22    | 0.00            | -3011.00 | -                 | -     | 1.36           | 1.26   | 0.01           |
| 120             | 0                | 12.27  | 45.73 | 0.00         | -7.23    | 0.00            | -2736.10 | -                 | -     | 0.90           | -0.49  | 0.01           |
| 140             | 0                | 12.50  | 42.46 | 0.00         | -6.10    | 0.00            | -2409.20 | -                 | -     | 0.62           | -2.80  | 0.01           |
| 160             | 0                | 11.87  | 36.85 | 0.00         | -5.54    | 0.00            | -2064.40 | -                 | -     | 0.43           | -5.78  | 0.01           |
| 180             | 0                | 10.65  | 30.19 | 0.00         | -5.31    | 0.00            | -1727.70 | -                 | -     | 0.30           | -9.52  | 0.01           |
| 200             | 0                | 9.17   | 23.78 | 0.00         | -5.28    | 0.00            | -1416.60 | -                 | -     | 0.21           | -14.10 | 0.01           |
| 220             | 2.51             | 7.58   | 18.44 | 0.00         | -5.42    | 0.00            | -1155.40 | -                 | -     | 0.15           | -20.06 | 0.01           |
| 240             | 10.3             | 6.21   | 13.99 | 0.00         | -5.55    | 0.00            | -916.74  | -                 | -     | 0.11           | -26.79 | 0.01           |
| 260             | 20.76            | 5.01   | 10.51 | 0.00         | -5.69    | 0.01            | -716.41  | -                 | -     | 0.08           | -34.73 | 0.01           |
| 280             | 34.54            | 4.00   | 7.82  | 0.00         | -5.82    | 0.01            | -551.95  | -                 | -     | 0.06           | -44.04 | 0.01           |
| 300             | 52.34            | 3.16   | 5.73  | 0.00         | -5.93    | 0.02            | -419.50  | -                 | -     | 0.04           | -54.93 | 0.01           |

**Conclusions:**

Calcium Carbonate scale is indicated at all temperatures from 80°F to 300°F  
 Gypsum Scaling Index is negative from 80°F to 300°F  
 Calcium Sulfate Scaling Index is negative from 80°F to 300°F  
 Strontium Sulfate scaling was not evaluated  
 Barium Sulfate NO CONCLUSION

**Notes:**



**Multi-Chem Group, LLC**

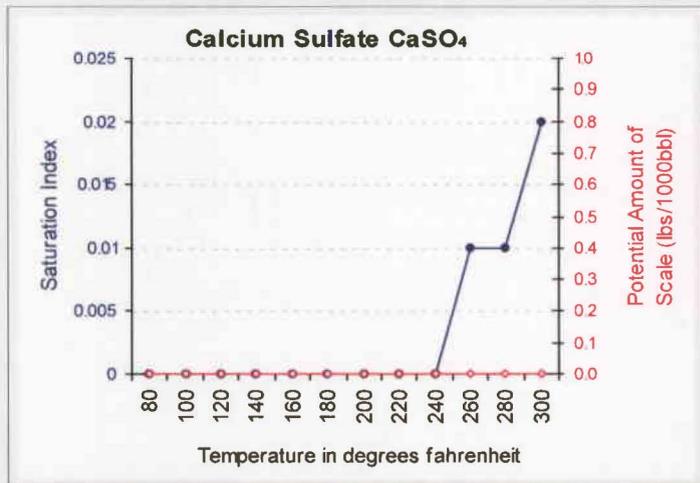
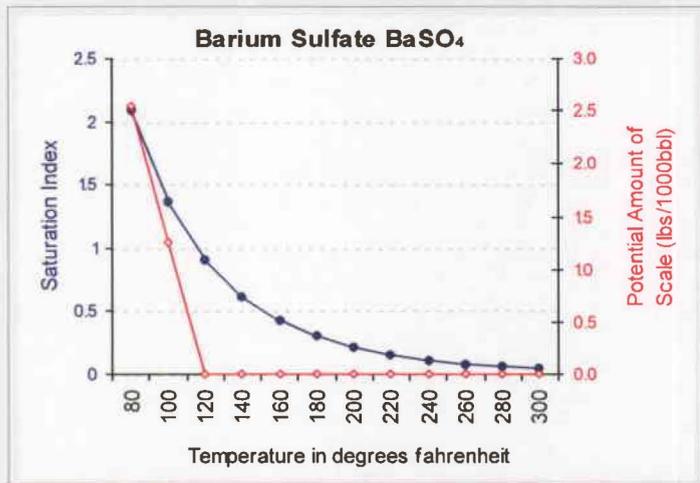
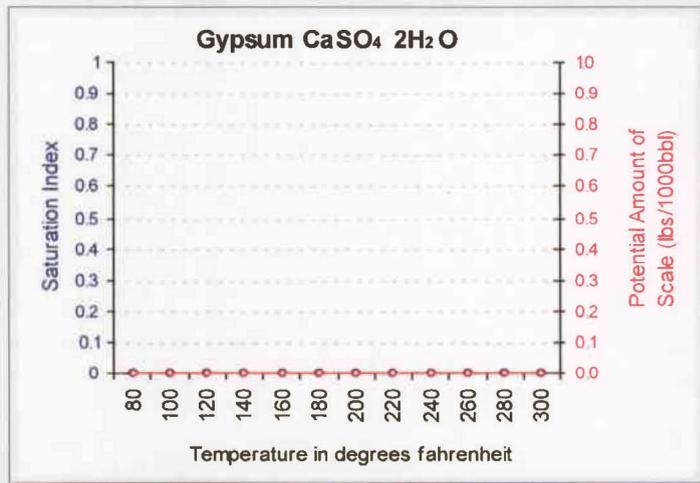
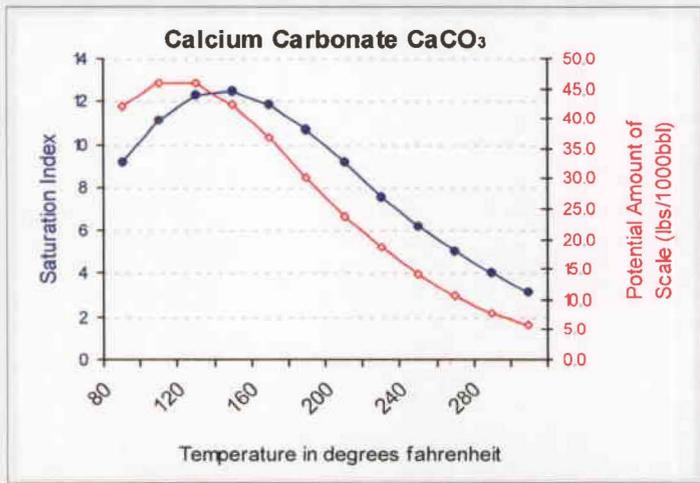
Multi-Chem Analytical Laboratory  
1553 East Highway 40  
Vernal, UT 84078

multi-chem

**Scale Prediction Graphs**

Well Name: **Federal 4-6-9-16**

Sample ID: **WA-39451**



Attachment F  
3 of 4



**Multi-Chem Group, LLC**

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

multi-chem

**Water Analysis Report**

Production Company: **NEWFIELD PRODUCTION (158)**  
Well Name: **ASHLEY INJECTION**  
Sample Point: **Tri-plex Suction**  
Sample Date: **1 /5 /2010**  
Sales Rep: **Randy Huber**  
Lab Tech: **John Keel**

Sample ID: **WA-35264**

| Sample Specifics            |          |
|-----------------------------|----------|
| Test Date:                  | 1/5/2009 |
| Temperature (°F):           | 100      |
| Sample Pressure (psig):     | 0        |
| Specific Gravity (g/cm³):   | 1.0060   |
| pH:                         | 8.5      |
| Turbidity (NTU):            | -        |
| Calculated T.D.S. (mg/L):   | 10759    |
| Molar Conductivity (µS/cm): | 16302    |
| Resitivity (Mohm):          | 0.6134   |

| Analysis @ Properties in Sample Specifics |         |                     |         |
|---|---------|---------------------|---------|
| Cations                                   | mg/L    | Anions              | mg/L    |
| Calcium (Ca):                             | 40.00   | Chloride (Cl):      | 5000.00 |
| Magnesium (Mg):                           | 73.20   | Sulfate (SO₄):      | 81.00   |
| Barium (Ba):                              | 5.00    | Dissolved CO₂:      | -       |
| Strontium (Sr):                           | -       | Bicarbonate (HCO₃): | 1805.00 |
| Sodium (Na):                              | 3751.00 | Carbonate (CO₃):    | -       |
| Potassium (K):                            | -       | H₂S:                | 2.00    |
| Iron (Fe):                                | 1.88    | Phosphate (PO₄):    | -       |
| Manganese (Mn):                           | 0.06    | Silica (SiO₂):      | -       |
| Lithium (Li):                             | -       | Fluoride (F):       | -       |
| Aluminum (Al):                            | -       | Nitrate (NO₃):      | -       |
| Ammonia (NH₃):                            | -       | Lead (Pb):          | -       |
|   |         | Zinc (Zn):          | -       |
|   |         | Bromine (Br):       | -       |
|   |         | Boron (B):          | -       |

| Test Conditions |                  | Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl |       |                        |          |                          |          |                            |       |                         |        |                   |
|-----------------|------------------|--|-------|------------------------|----------|--------------------------|----------|----------------------------|-------|-------------------------|--------|-------------------|
|                 |                  | Calcium Carbonate<br>CaCO₃   |       | Gypsum<br>CaSO₄ · 2H₂O |          | Calcium Sulfate<br>CaSO₄ |          | Strontium Sulfate<br>SrSO₄ |       | Barium Sulfate<br>BaSO₄ |        | Calculated<br>CO₂ |
|                 |                  | Sat Index  | Scale | Sat Index              | Scale    | Sat Index                | Scale    | Sat Index                  | Scale | Sat Index               | Scale  |                   |
| Temp °F         | Gauge Press. psi |  |       |                        |          |                          |          |                            |       |                         |        | psi               |
| 100             | 0                | 20.90  | 61.31 | 0.00                   | -2372.60 | 0.00                     | -2508.60 | -                          | -     | 9.51                    | 7.56   | 0.12              |
| 80              | 0                | 16.64  | 59.85 | 0.00                   | 65.59    | 0.00                     | -2669.60 | -                          | -     | 14.52                   | 7.88   | 0.07              |
| 100             | 0                | 20.90  | 61.31 | 0.00                   | 77.65    | 0.00                     | -2508.60 | -                          | -     | 9.51                    | 7.56   | 0.08              |
| 120             | 0                | 24.42  | 59.29 | 0.00                   | 86.01    | 0.00                     | -2270.20 | -                          | -     | 6.38                    | 7.10   | 0.09              |
| 140             | 0                | 27.22  | 56.49 | 0.00                   | 91.06    | 0.00                     | -1988.40 | -                          | -     | 4.37                    | 6.47   | 0.10              |
| 160             | 0                | 29.04  | 54.10 | 0.00                   | 91.80    | 0.00                     | -1692.40 | -                          | -     | 3.05                    | 5.61   | 0.11              |
| 180             | 0                | 29.81  | 52.59 | 0.00                   | 88.20    | 0.00                     | -1404.50 | -                          | -     | 2.17                    | 4.46   | 0.12              |
| 200             | 0                | 29.57  | 51.99 | 0.00                   | 81.11    | 0.00                     | -1139.60 | -                          | -     | 1.56                    | 2.94   | 0.12              |
| 220             | 2.51             | 28.27  | 52.20 | 0.00                   | 72.54    | 0.01                     | -916.28  | -                          | -     | 1.11                    | 0.81   | 0.12              |
| 240             | 10.3             | 26.50  | 51.96 | 0.00                   | 62.54    | 0.01                     | -715.06  | -                          | -     | 0.81                    | -1.81  | 0.12              |
| 260             | 20.76            | 24.31  | 50.03 | 0.00                   | 52.87    | 0.02                     | -546.76  | -                          | -     | 0.60                    | -5.13  | 0.12              |
| 280             | 34.54            | 21.88  | 45.44 | 0.00                   | 44.23    | 0.03                     | -408.79  | -                          | -     | 0.45                    | -9.29  | 0.12              |
| 300             | 52.34            | 19.36  | 39.39 | 0.00                   | 36.84    | 0.05                     | -297.49  | -                          | -     | 0.34                    | -14.40 | 0.12              |

**Conclusions:**

Calcium Carbonate scale is indicated at all temperatures from 80°F to 300°F  
Gypsum Scaling Index is negative from 80°F to 300°F  
Calcium Sulfate Scaling Index is negative from 80°F to 300°F  
Strontium Sulfate scaling was not evaluated  
Barium Sulfate NO CONCLUSION

**Notes:**



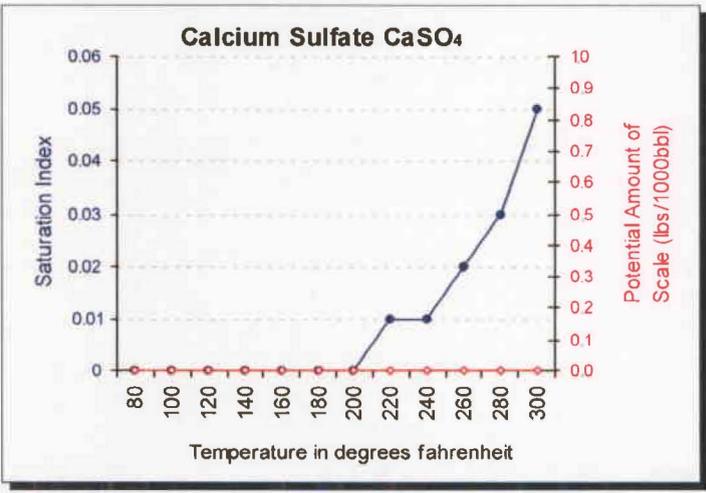
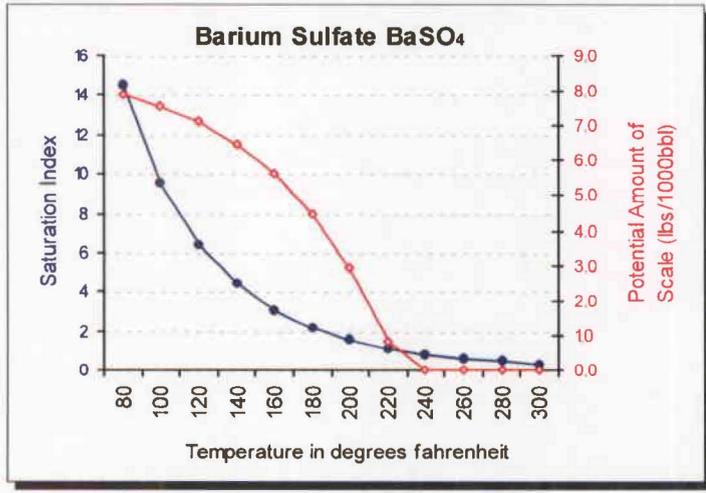
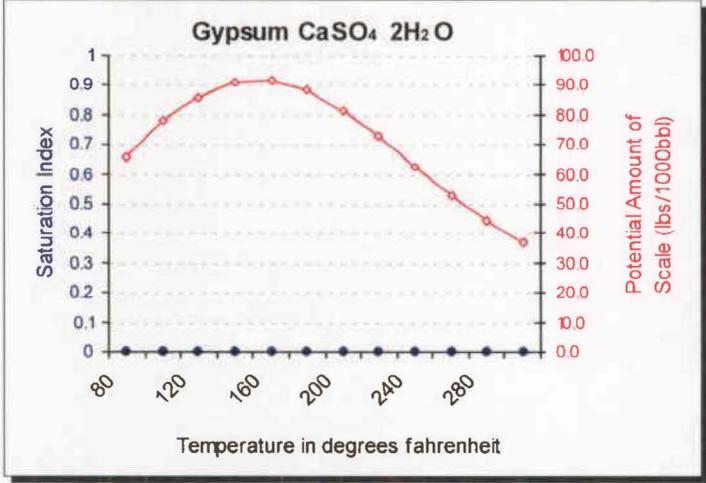
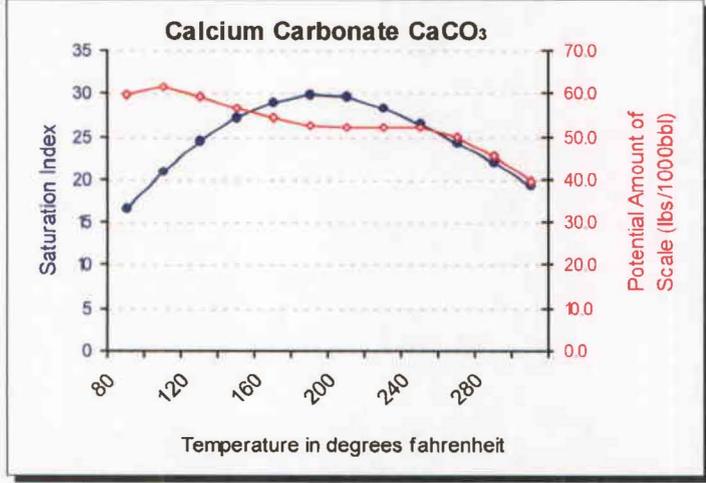
**Multi-Chem Group, LLC**  
Multi-Chem Analytical Laborator  
1553 East Highway 40  
Vernal, UT 84078

multi-chem

**Scale Prediction Graphs**

Well Name: **ASHLEY INJECTION**

Sample ID: **WA-35264**



**Attachment "G"**

**Nine Mile #4-6-9-16  
Proposed Maximum Injection Pressure**

| Frac Interval<br>(feet) |        | Avg. Depth<br>(feet) | ISIP<br>(psi) | Calculated<br>Frac<br>Gradient<br>(psi/ft) | Pmax               |
|-------------------------|--------|----------------------|---------------|--|--------------------|
| Top                     | Bottom |                      |               |  |                    |
| 4910                    | 4922   | 4916                 | 3065          | 1.06                                       | 3033               |
| 5169                    | 5230   | 5200                 | 2056          | 0.83                                       | 2022 ←             |
| 5770                    | 5848   | 5809                 | 3884          | 1.11                                       | 3847               |
|                         |        |                      |               | <b>Minimum</b>                             | <u><u>2022</u></u> |

Calculation of Maximum Surface Injection Pressure  

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

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

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



Attachment 6-1  
189

### DAILY COMPLETION REPORT

**WELL NAME** NINE MILE 4-6 **Report Date** 1/16/98 **Completion Day** 1  
**Present Operation** Perf & frac CP sds. **Rig** Flint #4

#### WELL STATUS

**Surf Csg:** 8-5/8 @ 306' KB **Liner** \_\_\_\_\_ @ \_\_\_\_\_ **Prod Csg** 5-1/2 @ 5977 **Csg PBDT** 5932  
**Tbg:** **Size** 2-7/8 **Wt** 6.5# **Grd** M-50 **Pkr/EOT @** \_\_\_\_\_ **BP/Sand PBDT:** \_\_\_\_\_

#### PERFORATION RECORD

| Zone  | Perfs | SPF/#shots | Zone  | Perfs | SPF/#shots |
|-------|-------|------------|-------|-------|------------|
| _____ | _____ | _____      | _____ | _____ | _____      |
| _____ | _____ | _____      | _____ | _____ | _____      |
| _____ | _____ | _____      | _____ | _____ | _____      |
| _____ | _____ | _____      | _____ | _____ | _____      |

#### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 1/15/98 **SITP:** \_\_\_\_\_ **SICP:** \_\_\_\_\_  
 MIRU Flint #4. NU BOP. PU & TIH w/4-3/4" bit, 5-1/2" csg scraper, 191 jts 2-7/8" 8rd 6.5# M-50 tbg. Tag PBDT @ 5932'. Pull EOT to 5714'. Press test csg & BOP to 3000 psi. Swab FL dn to 5200'. TOH w/tbg. LD bit & scraper. SIFN.

#### FLUID RECOVERY (BBLs)

**Starting fluid load to be recovered** \_\_\_\_\_ **0** **Starting oil rec to date** \_\_\_\_\_ **0**  
**Fluid lost/recovered today** \_\_\_\_\_ **0** **Oil lost/recovered today** \_\_\_\_\_ **0**  
**Ending fluid to be recovered** \_\_\_\_\_ **0** **Cum oil recovered** \_\_\_\_\_ **0**  
**IFL** \_\_\_\_\_ **Sfc** \_\_\_\_\_ **FFL** 5200 **FTP** \_\_\_\_\_ **Choke** \_\_\_\_\_ **Final Fluid Rate** \_\_\_\_\_ **Final oil cut** \_\_\_\_\_

#### STIMULATION DETAIL

**Base Fluid used:** \_\_\_\_\_ **Job Type:** \_\_\_\_\_  
**Company:** \_\_\_\_\_  
**Procedure:** \_\_\_\_\_

#### COSTS

**Flint rig** \_\_\_\_\_ **2,249**  
**BOP** \_\_\_\_\_ **135**  
**Tanks** \_\_\_\_\_ **50**  
**Wtr** \_\_\_\_\_ **100**  
**KCL Sub** \_\_\_\_\_ **50**  
**Tbg** \_\_\_\_\_ **15,267**  
**Tbg head** \_\_\_\_\_ **1,500**  
**Trucking** \_\_\_\_\_ **965**  
**Loc cleanup** \_\_\_\_\_ **200**  
**IPC Supervision** \_\_\_\_\_ **200**

**Max TP** \_\_\_\_\_ **Max Rate** \_\_\_\_\_ **Total fluid pmpd:** \_\_\_\_\_  
**Avg TP** \_\_\_\_\_ **Avg Rate** \_\_\_\_\_ **Total Prop pmpd:** \_\_\_\_\_  
**ISIP** \_\_\_\_\_ **5 min** \_\_\_\_\_ **10 min** \_\_\_\_\_ **15 min** \_\_\_\_\_

**Completion Supervisor:** Gary Dietz

**DAILY COST:** \_\_\_\_\_ **\$20,716**  
**TOTAL WELL COST:** \_\_\_\_\_ **\$175,993**



Attachment B-1  
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### DAILY COMPLETION REPORT

**WELL NAME** NINE MILE 4-6 **Report Date** 1/17/98 **Completion Day** 2  
**Present Operation** Perf B sds. **Rig** Flint #4

#### WELL STATUS

**Surf Csg:** 8-5/8 @ 306' **KB** **Liner** 6.5# @ M-50 **Prod Csg** 5-1/2 @ 5977 **Csg PBTB** 5932  
**Tbg:** **Size** 2-7/8 **Wt** 6.5# **Grd** M-50 **Pkr/EOT** @ BP/Sand PBTB:

#### PERFORATION RECORD

| Zone | Perfs    | SPF/#shots | Zone | Perfs | SPF/#shots |
|------|----------|------------|------|-------|------------|
| CP   | 5770-80' | 4/40       |      |       |            |
| CP   | 5840-48' | 4/32       |      |       |            |
|      |          |            |      |       |            |
|      |          |            |      |       |            |

#### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 1/16/98 **SITP:** **SICP:**  
 RU HLS & perf CP sds @ 5770-80' & 5840-48' w/4 jspf. TIH w/tbg to 5914'. IFL @ 5200'. Made 4 swab runs, rec 12 BTF. FFL @ 5800'. TOH w/tbg. NU isolation tool. RU Halliburton & frac CP sds w/120,300# 20/40 sd in 564 bbls Delta Frac. Perfs broke dn @ 3137 psi. Treated @ ave press of 3300 psi w/ave rate of 28 BPM. Screened out w/9.8# sd @ perfs w/925 gal left to flush. Pumped 114,200# sd into perfs, left 6,100# sd in csg. ISIP: 3884 psi, 5 min: 2285 psi. Flowback on 12/64 choke for 4 hrs & died. Rec 201 BTF (est 36% of load). SIFN w/est 363 BWTR.

#### FLUID RECOVERY (BBLs)

|   |            |   |                       |
|---|------------|---|-----------------------|
| Starting fluid load to be recovered         | <u>564</u> | Starting oil rec to date                    | <u>0</u>              |
| Fluid lost/recovered today                  | <u>201</u> | Oil lost/recovered today                    | <u>0</u>              |
| Ending fluid to be recovered                | <u>363</u> | Cum oil recovered                           | <u>0</u>              |
| IFL <u>5200</u> FFL <u>5800</u> FTP <u></u> |            | Choke <u>12/64</u> Final Fluid Rate <u></u> | Final oil cut <u></u> |

#### STIMULATION DETAIL

**Base Fluid used:** Delta Frac **Job Type:** Sand Frac  
**Company:** Halliburton  
**Procedure:** 3000 gal of pad.  
1000 gal w/1-6 ppg of 20/40 sd  
9000 gal w/6-8 ppg of 20/40 sd  
5907 gal w/8-10 ppg of 20/40 sd  
Flush w/4759 gal of 10# Linear gel.  
Screened w/9.8# sd on perfs w/925 gal left in flush. Est 114,200#  
sd in perfs, 6,100# sd left in csg.  
**Max TP** 3965 **Max Rate** 33 **Total fluid pmpd:** 564 bbls  
**Avg TP** 3300 **Avg Rate** 28 **Total Prop pmpd:** 120,300#  
**ISIP** 3884 **5 min** 2285 **10 min**  **15 min**   
**Completion Supervisor:** Gary Dietz

#### COSTS

|                         |                  |
|-------------------------|------------------|
| Flint rig               | <u>1,600</u>     |
| BOP                     | <u>135</u>       |
| Tanks                   | <u>50</u>        |
| Wtr                     | <u>750</u>       |
| Perfs & CBL             | <u>3,565</u>     |
| Frac                    | <u>23,280</u>    |
| Flowback - super        | <u>160</u>       |
| IPC Supervision         | <u>300</u>       |
| <b>DAILY COST:</b>      | <u>\$29,840</u>  |
| <b>TOTAL WELL COST:</b> | <u>\$205,833</u> |



Attachment 6-1  
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### DAILY COMPLETION REPORT

**WELL NAME** NINE MILE 4-6 **Report Date** 1/20/98 **Completion Day** 3  
**Present Operation** Frac B sds. **Rig** Flint #4

#### WELL STATUS

**Surf Csg:** 8-5/8 @ 306' KB **Liner**          @          **Prod Csg** 5-1/2 @ 5977 **Csg PBDT** 5932  
**Tbg:** **Size** 2-7/8 **Wt** 6.5# **Grd** M-50 **Pkr/EOT @** 5232 **BP** Sand PBDT: 5262

#### PERFORATION RECORD

| Zone | Perfs    | SPF/#shots | Zone | Perfs    | SPF/#shots |
|------|----------|------------|------|----------|------------|
| B    | 4169-78' | 4/36       | CP   | 5840-48' | 4/32       |
| B    | 5216-18' | 4/8        |      |          |            |
| B    | 5220-30' | 4/40       |      |          |            |
| CP   | 5770-80' | 4/40       |      |          |            |

#### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 1/19/98 **SITP:**          **SICP** 0  
Thaw wellhead & BOP w/HO Trk. TIH w/5-1/2" RBP & tbg. Set plug @ 5262'. Press test plug to 3000 psi. Circ hole clean. Swab FL dn to 4600'. Rec 99 BTF. TOH w/tbg. RU HLS & perf B sds @ 5169-78', 5216-18' & 5220-30' w/4 jspf. TIH w/tbg to 5232'. IFL @ 4600'. Made 5 swab runs, rec 11 BTF. FFL @ 5150'. SIFN w/est 253 BWTR.

#### FLUID RECOVERY (BBLs)

|  |   |
|--|---|
| <b>Starting fluid load to be recovered</b> <u>        </u> <u>363</u>    | <b>Starting oil rec to date</b> <u>        </u> <u>0</u>  |
| <b>Fluid lost/recovered today</b> <u>        </u> <u>110</u>             | <b>Oil lost/recovered today</b> <u>        </u> <u>0</u>  |
| <b>Ending fluid to be recovered</b> <u>        </u> <u>253</u>           | <b>Cum oil recovered</b> <u>        </u> <u>0</u>   |
| <b>IFL</b> <u>4600</u> <b>FFL</b> <u>5150</u> <b>FTP</b> <u>        </u> | <b>Choke</b> <u>        </u> <b>Final Fluid Rate</b> <u>        </u> <b>Final oil cut</b> <u>        </u> |

#### STIMULATION DETAIL

**Base Fluid used:**          **Job Type:**           
**Company:**           
**Procedure:**           
          
          
          
          
        

#### COSTS

|                 |       |
|-----------------|-------|
| Flint rig       | 1,854 |
| BOP             | 135   |
| Tanks           | 80    |
| RBP             | 600   |
| HO Trk          | 100   |
| Perfs           | 2,272 |
| IPC Supervision | 200   |
|                 |       |
|                 |       |
|                 |       |

**Max TP**          **Max Rate**          **Total fluid pmpd:**           
**Avg TP**          **Avg Rate**          **Total Prop pmpd:**           
**ISIP**          **5 min**          **10 min**          **15 min**           
**Completion Supervisor:** Gary Dietz

**DAILY COST:** \$5,241  
**TOTAL WELL COST:** \$211,074



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### DAILY COMPLETION REPORT

**WELL NAME** NINE MILE 4-6 **Report Date** 1/21/98 **Completion Day** 4  
**Present Operation** Perf D sds. **Rig** Flint #4

#### WELL STATUS

**Surf Csg:** 8-5/8 @ 306' **KB** **Liner** \_\_\_\_\_ @ \_\_\_\_\_ **Prod Csg** 5-1/2 @ 5977 **Csg PBDT** 5932  
**Tbg:** **Size** 2-7/8 **Wt** 6.5# **Grd** M-50 **Pkr/EOT @** \_\_\_\_\_ **BP/Sand PBDT:** 5262

#### PERFORATION RECORD

| Zone | Perfs    | SPF/#shots | Zone | Perfs    | SPF/#shots |
|------|----------|------------|------|----------|------------|
| B    | 4169-78' | 4/36       | CP   | 5840-48' | 4/32       |
| B    | 5216-18' | 4/8        |      |          |            |
| B    | 5220-30' | 4/40       |      |          |            |
| CP   | 5770-80' | 4/40       |      |          |            |

#### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 1/20/98 **SITP:** 0 **SICP** 0

IFL @ 5100'. Made 1 swab run, rec 1/2 BTF w/tr oil. FFL @ 5150'. TOH w/tbg. NU isolation tool. RU Halliburton & frac B sds w/130,200# 20/40 sd in 609 bbls Delta Frac. Perfs broke dn @ 2480 psi. Treated @ ave press of 1650 psi w/ave rate of 28.4 BPM. ISIP: 2056 psi, 5 min: 1750 psi. Flowback on 12/64 choke for 2-1/2 hrs & died. Rec 84 BTF (est 14% of load). SIFN w/est 778 BWTR.

#### FLUID RECOVERY (BBLs)

|  |            |   |                                 |
|--|------------|---|---------------------------------|
| <b>Starting fluid load to be recovered</b>                     | <u>253</u> | <b>Starting oil rec to date</b>                         | <u>0</u>                        |
| <b>Fluid <u>lost</u>/recovered today</b>                       | <u>525</u> | <b>Oil lost/recovered today</b>                         | <u>0</u>                        |
| <b>Ending fluid to be recovered</b>                            | <u>778</u> | <b>Cum oil recovered</b>                                | <u>0</u>                        |
| <b>IFL</b> <u>5100</u> <b>FFL</b> <u>5150</u> <b>FTP</b> _____ |            | <b>Choke</b> <u>12/64</u> <b>Final Fluid Rate</b> _____ | <b>Final oil cut</b> <u>Tr.</u> |

#### STIMULATION DETAIL

**Base Fluid used:** Delta Frac **Job Type:** Sand Frac  
**Company:** Halliburton  
**Procedure:** \_\_\_\_\_  
3500 gal of pad.  
1000 gal w/1-6 ppg of 20/40 sd  
9000 gal w/6-8 ppg of 20/40 sd  
6000 gal w/8-10 ppg of 20/40 sd  
984 gal w/10 ppg of 20/40 sd  
Flush w/5082 gal of 10# Linear gel.

#### COSTS

|                   |        |
|-------------------|--------|
| Flint rig         | 920    |
| BOP               | 135    |
| Tanks             | 50     |
| Wtr               | 750    |
| Frac              | 24,502 |
| Flowback - super  | 100    |
| IPC Supervision   | 200    |
| BOP - ram rubbers | 300    |

**Max TP** 2480 **Max Rate** 28.8 **Total fluid pmpd:** 609 bbls  
**Avg TP** 1650 **Avg Rate** 28.4 **Total Prop pmpd:** 130,200#  
**ISIP** 2056 **5 min** 1750 **10 min** \_\_\_\_\_ **15 min** \_\_\_\_\_  
**Completion Supervisor:** Gary Dietz

**DAILY COST:** \$26,957  
**TOTAL WELL COST:** \$238,031



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**DAILY COMPLETION REPORT**

**WELL NAME** NINE MILE 4-6 **Report Date** 1/22/98 **Completion Day** 5  
**Present Operation** Frac D sds. **Rig** Flint #4

**WELL STATUS**

**Surf Csg:** 8-5/8 @ 306' **KB** **Liner**          @          **Prod Csg** 5-1/2 @ 5977 **Csg PBDT** 5932  
**Tbg:** **Size** 2-7/8 **Wt** 6.5# **Grd** M-50 **Pkr/EOT** @ 5043 **BP** **Sand PBDT:** 5072

**PERFORATION RECORD**

| Zone | Perfs    | SPF/#shots | Zone | Perfs    | SPF/#shots |
|------|----------|------------|------|----------|------------|
| D    | 4910-12' | 4/8        | B    | 5220-30' | 4/40       |
| D    | 4914-22' | 4/32       | CP   | 5770-80' | 4/40       |
| B    | 4169-78' | 4/36       | CP   | 5840-48' | 4/32       |
| B    | 5216-18' | 4/8        |      |          |            |

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** 1/21/98 **SITP:**          **SICP** 0

Thaw wellhead & BOP w/HO Trk. TIH w/RH & tbg. Tag sd @ 4951'. CO sd to RBP @ 5262'. Release plug. Pull uphole & reset @ 5075'. Press test plug to 3000 psi. Swab FL dn to 4400'. Rec 95 BTF. TOH w/tbg. RU HLS & perf D sds @ 4910-12' & 4914-22' w/4 jspf. TIH w/tbg to 5043'. IFL @ 4400'. Made 4 swab runs, rec 9 BTF. FFL @ 4900'. SIFN w/est 674 BWTR.

**FLUID RECOVERY (BBLs)**

|   |            |  |          |
|---|------------|--|----------|
| Starting fluid load to be recovered                 | <u>778</u> | Starting oil rec to date   | <u>0</u> |
| Fluid lost/recovered today                          | <u>104</u> | Oil lost/recovered today   | <u>0</u> |
| Ending fluid to be recovered                        | <u>674</u> | Cum oil recovered  | <u>0</u> |
| IFL <u>4400</u> FFL <u>4900</u> FTP <u>        </u> |            | Choke <u>        </u> Final Fluid Rate <u>        </u> Final oil cut <u>        </u> |          |

**STIMULATION DETAIL**

**Base Fluid used:**          **Job Type:**           
**Company:**           
**Procedure:**           
          
          
          
          
        

**COSTS**

|                 |                 |
|-----------------|-----------------|
| Flint rig       | <u>1,705</u>    |
| BOP             | <u>135</u>      |
| Tanks           | <u>50</u>       |
| HO Trk          | <u>100</u>      |
| RBP zone chg    | <u>250</u>      |
| Perfs           | <u>1,543</u>    |
| IPC Supervision | <u>200</u>      |
| <u>        </u> | <u>        </u> |
| <u>        </u> | <u>        </u> |

**Max TP**          **Max Rate**          **Total fluid pmpd:**           
**Avg TP**          **Avg Rate**          **Total Prop pmpd:**           
**ISIP**          **5 min**          **10 min**          **15 min**         

**Completion Supervisor:** Gary Dietz

**DAILY COST:** \$3,983  
**TOTAL WELL COST:** \$242,014



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leaf 9

### DAILY COMPLETION REPORT

**WELL NAME** NINE MILE 4-6 **Report Date** 1/23/98 **Completion Day** 6  
**Present Operation** Pull plug. CO PBTD. Swab well. **Rig** Flint #4

#### WELL STATUS

**Surf Csg:** 8-5/8 @ 306' **KB** **Liner** \_\_\_\_\_ @ \_\_\_\_\_ **Prod Csg** 5-1/2 @ 5977 **Csg PBTD** 5932  
**Tbg:** **Size** 2-7/8 **Wt** 6.5# **Grd** M-50 **Pkr/EOT** @ \_\_\_\_\_ **Sand PBTD:** 5075

#### PERFORATION RECORD

| Zone | Perfs    | SPF/#shots | Zone | Perfs    | SPF/#shots |
|------|----------|------------|------|----------|------------|
| D    | 4910-12' | 4/8        | B    | 5220-30' | 4/40       |
| D    | 4914-22' | 4/32       | CP   | 5770-80' | 4/40       |
| B    | 4169-78' | 4/36       | CP   | 5840-48' | 4/32       |
| B    | 5216-18' | 4/8        |      |          |            |

#### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 1/22/98 **SITP:** 0 **SICP:** 0  
IFL @ 4800'. Made 2 swab runs, rec 2 BTF w/tr oil. FFL @ 4900'. TOH w/tbg. NU isolation tool. RU Halliburton & frac D sds w/120,300# 20/40 sd in 568 bbls Delta Frac. Perfs broke dn @ 3940 psi. Treated @ ave press of 2400 psi w/ave rate of 26.5 BPM. ISIP: 3065 psi, 5 min: 2753 psi. Flowback on 12-64 choke for 3-1/2 hrs & died. Rec 130 BTF (est 23% of load). SIFN w/est 1110 BWTR.

#### FLUID RECOVERY (BBLs)

|  |             |   |                                 |
|--|-------------|---|---------------------------------|
| <b>Starting fluid load to be recovered</b>                     | <u>674</u>  | <b>Starting oil rec to date</b>                         | <u>0</u>                        |
| <b>Fluid lost/recovered today</b>                              | <u>436</u>  | <b>Oil lost/recovered today</b>                         | <u>0</u>                        |
| <b>Ending fluid to be recovered</b>                            | <u>1110</u> | <b>Cum oil recovered</b>                                | <u>0</u>                        |
| <b>IFL</b> <u>4800</u> <b>FFL</b> <u>4900</u> <b>FTP</b> _____ |             | <b>Choke</b> <u>12/64</u> <b>Final Fluid Rate</b> _____ | <b>Final oil cut</b> <u>Tr.</u> |

#### STIMULATION DETAIL

**Base Fluid used:** Delta Frac **Job Type:** Sand Frac  
**Company:** Halliburton  
**Procedure:** \_\_\_\_\_  
3000 gal of pad  
1000 gal w/1-6 ppg of 20/40 sd  
9000 gal w/6-8 ppg of 20/40 sd  
6015 gal w/8-10 ppg of 20/40 sd  
Flush w/4820 gal of 10# Linear gel.

#### COSTS

|                  |        |
|------------------|--------|
| Flint rig        | 935    |
| BOP              | 135    |
| Tanks            | 50     |
| Wtr              | 750    |
| HO Trk           | 346    |
| Frac             | 23,336 |
| Flowback - super | 140    |
| IPC Supervision  | 200    |
| BOP repair       | 500    |

|  |
|--|
| <b>Max TP</b> <u>3940</u> <b>Max Rate</b> <u>26.9</u> <b>Total fluid pmpd:</b> <u>568 bbls</u> |
| <b>Avg TP</b> <u>2400</u> <b>Avg Rate</b> <u>26.5</u> <b>Total Prop pmpd:</b> <u>120,300#</u>  |
| <b>ISIP</b> <u>3065</u> <b>5 min</b> <u>2753</u> <b>10 min</b> _____ <b>15 min</b> _____       |
| <b>Completion Supervisor:</b> <u>Gary Dietz</u>  |

|                         |                  |
|-------------------------|------------------|
| <b>DAILY COST:</b>      | <u>\$26,392</u>  |
| <b>TOTAL WELL COST:</b> | <u>\$268,406</u> |



Attachment B-1

769

**DAILY COMPLETION REPORT**

**WELL NAME** NINE MILE 4-6 **Report Date** 1/24/98 **Completion Day** 7  
**Present Operation** Swab well. Trip production tbg. **Rig** Flint #4

**WELL STATUS**

**Surf Csg:** 8-5/8 @ 306' **KB** **Liner** \_\_\_\_\_ @ \_\_\_\_\_ **Prod Csg** 5-1/2 @ 5977 **Csg PBTB** 5932  
**Tbg:** **Size** 2-7/8 **Wt** 6.5# **Grd** M-50 **PK/EOT** @ 5910 **BP/Sand PBTB:** \_\_\_\_\_

**PERFORATION RECORD**

| Zone | Perfs    | SPF/#shots | Zone | Perfs    | SPF/#shots |
|------|----------|------------|------|----------|------------|
| D    | 4910-12' | 4/8        | B    | 5220-30' | 4/40       |
| D    | 4914-22' | 4/32       | CP   | 5770-80' | 4/40       |
| B    | 4169-78' | 4/36       | CP   | 5840-48' | 4/32       |
| B    | 5216-18' | 4/8        |      |          |            |

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** 1/23/98 **SITP:** \_\_\_\_\_ **SICP** 0

Thaw wellhead & BOP w/HO Trk. TIH w/RH & tbg. Tag sd @ 4909'. CO sd to RBP @ 5075'. Release plug. TOH w/tbg. LD plug. TIH w/NC & tbg. Tag sd @ 5229'. CO sd to PBTB @ 5932'. Circ hole clean. Lost est 210 BW during circ's. Pull EOT to 5910'. IFL @ sfc. Made 6 swab runs, rec 70 BTF w/tr sd. FFL @ 900'. SIFN w/est 1250 BWTR.

**FLUID RECOVERY (BBLs)**

|  |             |  |                            |
|--|-------------|--|----------------------------|
| <b>Starting fluid load to be recovered</b> _____                         | <u>1110</u> | <b>Starting oil rec to date</b> _____            | <u>0</u>                   |
| <b>Fluid lost/recovered today</b> _____                                  | <u>140</u>  | <b>Oil lost/recovered today</b> _____            | <u>0</u>                   |
| <b>Ending fluid to be recovered</b> _____                                | <u>1250</u> | <b>Cum oil recovered</b> _____                   | <u>0</u>                   |
| <b>IFL</b> _____ <b>Sfc</b> _____ <b>FFL</b> <u>900</u> <b>FTP</b> _____ |             | <b>Choke</b> _____ <b>Final Fluid Rate</b> _____ | <b>Final oil cut</b> _____ |

**STIMULATION DETAIL**

**COSTS**

**Base Fluid used:** \_\_\_\_\_ **Job Type:** \_\_\_\_\_  
**Company:** \_\_\_\_\_  
**Procedure:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

|                 |       |
|-----------------|-------|
| Flint rig       | 2,070 |
| BOP             | 135   |
| Tanks           | 30    |
| HO Trk          | 100   |
| IPC Supervision | 100   |
| Circ head       | 35    |
| _____           | _____ |
| _____           | _____ |
| _____           | _____ |

**Max TP** \_\_\_\_\_ **Max Rate** \_\_\_\_\_ **Total fluid pmpd:** \_\_\_\_\_  
**Avg TP** \_\_\_\_\_ **Avg Rate** \_\_\_\_\_ **Total Prop pmpd:** \_\_\_\_\_  
**ISIP** \_\_\_\_\_ **5 min** \_\_\_\_\_ **10 min** \_\_\_\_\_ **15 min** \_\_\_\_\_  
**Completion Supervisor:** Gary Dietz

**DAILY COST:** \$2,470  
**TOTAL WELL COST:** \$270,876



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### DAILY COMPLETION REPORT

**WELL NAME** NINE MILE 4-6 **Report Date** 1/25/98 **Completion Day** 8  
**Present Operation** Run rods. **Rig** Flint #4

#### WELL STATUS

**Surf Csg:** 8-5/8 @ 306' **KB** **Liner**          @          **Prod Csg** 5-1/2 @ 5977 **Csg PBD** 5932  
**Tbg:** **Size** 2-7/8 **Wt** 6.5# **Grd** M-50 **Pkt/EOT** @ 5892 **BP/Sand PBD:**         

#### PERFORATION RECORD

| Zone | Perfs    | SPF/#shots | Zone | Perfs    | SPF/#shots |
|------|----------|------------|------|----------|------------|
| D    | 4910-12' | 4/8        | B    | 5220-30' | 4/40       |
| D    | 4914-22' | 4/32       | CP   | 5770-80' | 4/40       |
| B    | 4169-78' | 4/36       | CP   | 5840-48' | 4/32       |
| B    | 5216-18' | 4/8        |      |          |            |

#### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 1/24/98 **SITP:** 0 **SICP** 50

RU swab equipment. IFL @ 100'. Recovered 161 BW w/tr oil & tr sd. FFL @ 1600'. RD swab eq. TIH w/NC & tbg. Tag sd top @ 5911'. (20' of fill.) CO to PBD @ 5932' w/50 BW. TOH w/tbg. TIH w/prod string as follows: NC, 1 jt, perf sub, SN, 2 jts tbg, TA, 186 jts tbg. ND BOP's. Set Anchor & land tbg w/10,000# tension. NU tbg flange. Set TA @ 5791' w/SN @ 5855' & EOT @ 5892'. SIFN w/est 1089 BWTR.

#### FLUID RECOVERY (BBLs)

|   |  |
|---|--|
| <b>Starting fluid load to be recovered</b> <u>1250</u>                  | <b>Starting oil rec to date</b> <u>0</u>   |
| <b>Fluid lost/recovered today</b> <u>161</u>                            | <b>Oil lost/recovered today</b> <u>0</u>   |
| <b>Ending fluid to be recovered</b> <u>1089</u>                         | <b>Cum oil recovered</b> <u>0</u>  |
| <b>IFL</b> <u>100</u> <b>FFL</b> <u>1600</u> <b>FTP</b> <u>        </u> | <b>Choke</b> <u>        </u> <b>Final Fluid Rate</b> <u>        </u> <b>Final oil cut</b> <u>Tr.</u> |

#### STIMULATION DETAIL

**Base Fluid used:**          **Job Type:**           
**Company:**           
**Procedure:**           
          
          
          
          
          
        

#### COSTS

|                        |                 |
|------------------------|-----------------|
| <b>Rig</b>             | <u>1,748</u>    |
| <b>BOP's</b>           | <u>135</u>      |
| <b>Tanks</b>           | <u>60</u>       |
| <b>Wtr</b>             | <u>300</u>      |
| <b>TA &amp; SN</b>     | <u>700</u>      |
| <b>IPC Supervision</b> | <u>200</u>      |
| <b>        </b>        | <u>        </u> |

**Max TP**          **Max Rate**          **Total fluid pmpd:**           
**Avg TP**          **Avg Rate**          **Total Prop pmpd:**           
**ISIP**          **5 min**          **10 min**          **15 min**         

**Completion Supervisor:** Brad Mecham

**DAILY COST:** \$3,143  
**TOTAL WELL COST:** \$274,019



Attachment B-1  
989

**DAILY COMPLETION REPORT**

**WELL NAME** NINE MILE 4-6 **Report Date** 1/27/98 **Completion Day** 9  
**Present Operation** Well ready for production. Battery needs finished. **Rig** Flint #4

**WELL STATUS**

**Surf Csg:** 8-5/8 @ 306' **KB** **Liner** \_\_\_\_\_ @ \_\_\_\_\_ **Prod Csg** 5-1/2 @ 5977 **Csg PBD** 5932  
**Tbg:** **Size** 2-7/8 **Wt** 6.5# **Grd** M-50 **Pkf/EOT** @ 5892 **BP/Sand PBD:** \_\_\_\_\_

**PERFORATION RECORD**

| Zone | Perfs    | SPF/#shots | Zone | Perfs    | SPF/#shots |
|------|----------|------------|------|----------|------------|
| D    | 4910-12' | 4/8        | B    | 5220-30' | 4/40       |
| D    | 4914-22' | 4/32       | CP   | 5770-80' | 4/40       |
| B    | 4169-78' | 4/36       | CP   | 5840-48' | 4/32       |
| B    | 5216-18' | 4/8        |      |          |            |

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** 1/26/98 **SITP:** \_\_\_\_\_ **SICP:** \_\_\_\_\_  
Flush tbg w/34 BW. PU & TIH w/rod string as follows: 2-1/2" x 1-1/2" x 16' RHAC pmp, 4 - 1-1/2" weight rods, 4 - 3/4" scraped rods, 130 - 3/4" plain rods, 95 - 3/4" scraped rods, 1 - 6' x 3/4" pony rod, 1-1/2" x 22' polished rod. Seat pmp. Fill tbg w/1 BW. Press test tbg & pmp to 500 psi. Stroke pmp w/rig to 900 psi. Good pmp action. Clamp polished rod. Land on PR stand. RDMO. Est 1124 BWTR. Set pumping unit, finish tank battery.

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered** 1089 **Starting oil rec to date** 0  
**Fluid (lost) recovered today** 35 **Oil lost/recovered today** 0  
**Ending fluid to be recovered** 1124 **Cum oil recovered** 0  
**IFL** \_\_\_\_\_ **FFL** \_\_\_\_\_ **FTP** \_\_\_\_\_ **Choke** \_\_\_\_\_ **Final Fluid Rate** \_\_\_\_\_ **Final oil cut** \_\_\_\_\_

**STIMULATION DETAIL**

**Base Fluid used:** \_\_\_\_\_ **Job Type:** \_\_\_\_\_  
**Company:** \_\_\_\_\_  
**Procedure:** \_\_\_\_\_

**COSTS**

**Flint rig** 998  
**Tanks** 30  
**Wtr disp** 300  
**Pmp** 950  
**Rods, pol rod, rot. (boxes)** 7,529  
**Trucking** 250  
**Loc cleanup** 200  
**Pit reclaim** 800  
**Sfc equipment** 96,330  
**IPC Supervision** 200

**Max TP** \_\_\_\_\_ **Max Rate** \_\_\_\_\_ **Total fluid pmpd:** \_\_\_\_\_  
**Avg TP** \_\_\_\_\_ **Avg Rate** \_\_\_\_\_ **Total Prop pmpd:** \_\_\_\_\_  
**ISIP** \_\_\_\_\_ **5 min** \_\_\_\_\_ **10 min** \_\_\_\_\_ **15 min** \_\_\_\_\_

**Completion Supervisor:** Gary Dietz

**DAILY COST:** \$107,587  
**TOTAL WELL COST:** \$381,606

## ATTACHMENT H

### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4860'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 142' balance plug using 16 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14 sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Perforate 4 JSPF @ 343'
6. Plug #4 Circulate 96 sx Class "G" Cement down 5-1/2" casing and up the 5-1/2" x 8-5/8" annulus.

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

# Nine Mile #4-6-9-16

Spud Date: 12/18/97  
 Put on Production: 1/30/98  
 GL: 5864' KB: 5876'

Initial Production: 50 BOPD,  
 87 MCFPD, 56 BWPD

## Proposed P&A Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (294')  
 DEPTH LANDED: 293'GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 120 sxs Premium cmt, est 6 bbls to surf

Casing shoe @ 293'

Circulate 96 sx Class "G" Cement down 5 1/2" casing and up the 5 1/2" x 8 5/8" annulus

Perforate 4 ISPF @ 343'

TOC @ 500'

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: M-50  
 WEIGHT: 15.5#  
 LENGTH: 139 jts (5965')  
 DEPTH LANDED: 5977'KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 390 sks Hibond mixed & 395 sks thixotropic  
 CEMENT TOP AT: 500' per CBL

120' balance plug using 14 sx Class "G" cement 60' above Uinta/Green River and extending 60' below (1634 - 1754')

142' balance plug using 16 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale (3063-3205')

100' (12 sx) Class G Cement plug on top of CIBP  
 CIBP @ 4860'

4910'-4912'

4914'-4922'

5169'-5178'

5216'-5218'

5220'-5230'

5770'-5780'

5840'-5848'

Top of fill 5928'

PBTD @ 5932'

SHOE @ 5977'

TD @ 6001' KB

**NEWFIELD**

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**Nine Mile #4-6-9-16**  
 660 FNL & 583 FWL  
 NWNW Section 6-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-31952; Lease #UTU-74390

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

**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)  
660 FNL 583 FWL  
NWNW Section 6 T9S R16E

5. Lease Serial No.

USA UTU-74390

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
NINE MILE 4-6

9. API Well No.  
4301331952

10. Field and Pool, or Exploratory Area  
GREATER MB UNIT

11. County or Parish, State  
DUCHESNE, UT

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

| TYPE OF SUBMISSION                                   | TYPE OF ACTION  |   |  |   |
|--|---|---|--|---|
| <input checked="" 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 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 type="checkbox"/> Other _____    |
|  | <input type="checkbox"/> Change Plans                   | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon       | _____                                   |
|  | <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 recomplate 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 recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Newfield Production proposes to convert the above mentioned well from a producing oil well to an injection well.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Eric Sundberg

Signature

Title

Regulatory Analyst

Date

05/06/2010

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by .....

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.

Title

Date

Office

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

(Instructions on page 2)

**NEWFIELD**

**Schematic**

Well Name: **Nine Mile 4-6-9-16**

43-013-31952

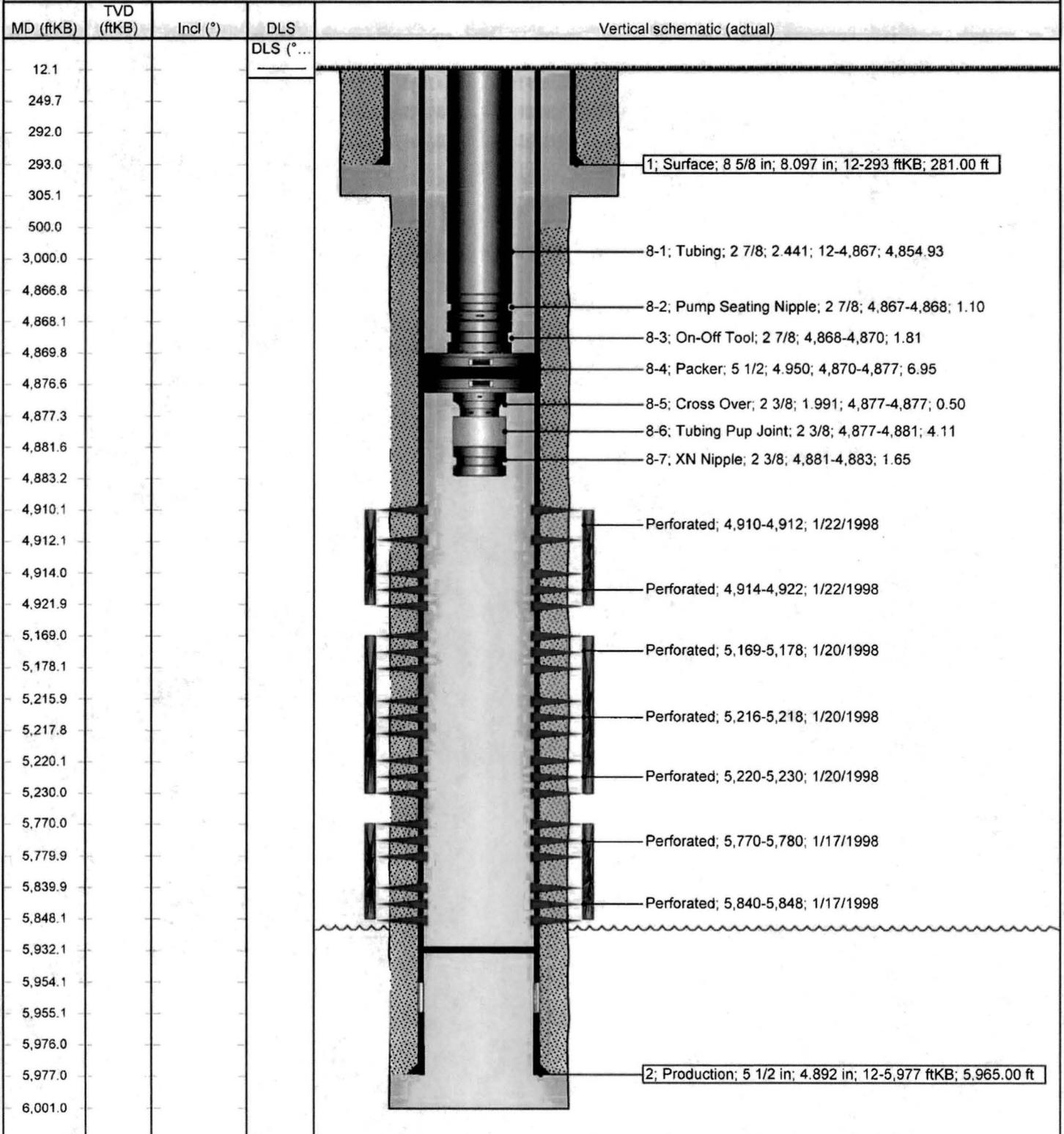
|                                     |                  |                                 |                                     |                                |                              |  |                    |
|-------------------------------------|------------------|---------------------------------|-------------------------------------|--------------------------------|------------------------------|--|--------------------|
| Surface Legal Location<br>06-9S-16E |                  | API/UWI<br>43013319520000       | Well RC<br>500151845                | Lease                          | State/Province<br>Utah       | Field Name<br>GMBU CTB2                      | County<br>Duchesne |
| Spud Date                           | Rig Release Date | On Production Date<br>1/30/1998 | Original KB Elevation (ft)<br>5,876 | Ground Elevation (ft)<br>5,864 | Total Depth All (TVD) (ftKB) | PBTD (All) (ftKB)<br>Original Hole - 5,932.0 |                    |

**Most Recent Job**

|                                       |                                |                             |                            |                          |
|---------------------------------------|--------------------------------|-----------------------------|----------------------------|--------------------------|
| Job Category<br>Production / Workover | Primary Job Type<br>Conversion | Secondary Job Type<br>Basic | Job Start Date<br>4/3/2014 | Job End Date<br>4/8/2014 |
|---------------------------------------|--------------------------------|-----------------------------|----------------------------|--------------------------|

**TD: 6,001.0**

Vertical - Original Hole, 12/15/2015 11:33:42 AM



# NEWFIELD



## Newfield Wellbore Diagram Data Nine Mile 4-6-9-16

|                                     |  |                                |  |  |  |
|-------------------------------------|--|--------------------------------|--|--|--|
| Surface Legal Location<br>06-9S-16E |  | API/UWI<br>43013319520000      |  | Lease  |  |
| County<br>Duchesne                  |  | State/Province<br>Utah         |  | Basin<br>Uintah Basin                        |  |
| Well Start Date<br>12/18/1997       |  | Spud Date                      |  | Final Rig Release Date                       |  |
| Original KB Elevation (ft)<br>5,876 |  | Ground Elevation (ft)<br>5,864 |  | Total Depth (ftKB)<br>6,001.0                |  |
|                                     |  |                                |  | Total Depth All (TVD) (ftKB)                 |  |
|                                     |  |                                |  | PBTD (All) (ftKB)<br>Original Hole - 5,932.0 |  |

### Casing Strings

| Csg Des    | Run Date  | OD (in) | ID (in) | Wt/Len (lb/ft) | Grade | Set Depth (ftKB) |
|------------|-----------|---------|---------|----------------|-------|------------------|
| Surface    | 1/22/1997 | 8 5/8   | 8.097   | 24.00          | J-55  | 293              |
| Production | 1/2/1998  | 5 1/2   | 4.950   | 15.50          | J-55  | 5,977            |

### Cement

#### String: Surface, 293ftKB 12/22/1997

|   |                          |                              |               |                              |
|---|--------------------------|------------------------------|---------------|------------------------------|
| Cementing Company   | Top Depth (ftKB)<br>12.0 | Bottom Depth (ftKB)<br>293.0 | Full Return?  | Vol Cement Ret (bbl)         |
| Fluid Description<br>6 bbl returns at surface<br>120 sx Premium Plus w/2% CC, 2% gel, 1/2#/sk Flocele (14.8 ppg 1.37 cf/sk yield) | Fluid Type<br>Lead       | Amount (sacks)<br>420        | Class<br>PL + | Estimated Top (ftKB)<br>12.0 |

#### String: Production, 5,977ftKB 1/2/1998

|   |                           |                                |                             |                               |
|---|---------------------------|--------------------------------|-----------------------------|-------------------------------|
| Cementing Company   | Top Depth (ftKB)<br>500.0 | Bottom Depth (ftKB)<br>3,000.0 | Full Return?                | Vol Cement Ret (bbl)          |
| Fluid Description<br>390 sx Hibond 65 Modified (11.0 ppg 3.0 cf/sk yield) | Fluid Type<br>Lead        | Amount (sacks)<br>390          | Class<br>HiBond 65 Modified | Estimated Top (ftKB)<br>500.0 |

#### String: Production, 5,977ftKB 1/2/1998

|   |                             |                                |                      |                                 |
|---|-----------------------------|--------------------------------|----------------------|---------------------------------|
| Cementing Company   | Top Depth (ftKB)<br>3,000.0 | Bottom Depth (ftKB)<br>5,977.0 | Full Return?         | Vol Cement Ret (bbl)            |
| Fluid Description<br>395 sx Thixotropic & 10% Calseal (14.2 ppg 1.59 cf/sk yield). Good returns until POB w/2200 psi @ 7:45 am, 1/2/98. Had 3 bbl get to sfc. | Fluid Type<br>Tail          | Amount (sacks)<br>395          | Class<br>Thixotropic | Estimated Top (ftKB)<br>3,000.0 |

### Tubing Strings

| Tubing Description<br>Tubing |     | Run Date<br>4/4/2014 |         |            | Set Depth (ftKB)<br>4,883.1 |          |            |            |
|------------------------------|-----|----------------------|---------|------------|-----------------------------|----------|------------|------------|
| Item Des                     | Jts | OD (in)              | ID (in) | Wt (lb/ft) | Grade                       | Len (ft) | Top (ftKB) | Btm (ftKB) |
| Tubing                       | 156 | 2 7/8                | 2.441   | 6.50       | J-55                        | 4,854.93 | 12.0       | 4,866.9    |
| Pump Seating Nipple          |     | 2 7/8                |         |            |                             | 1.10     | 4,866.9    | 4,868.0    |
| On-Off Tool                  |     | 2 7/8                |         |            |                             | 1.81     | 4,868.0    | 4,869.8    |
| Packer                       |     | 5 1/2                | 4.950   |            |                             | 6.95     | 4,869.8    | 4,876.8    |
| Cross Over                   |     | 2 3/8                | 1.991   |            |                             | 0.50     | 4,876.8    | 4,877.3    |
| Tubing Pup Joint             |     | 2 3/8                |         |            |                             | 4.11     | 4,877.3    | 4,881.4    |
| XN Nipple                    |     | 2 3/8                |         |            |                             | 1.65     | 4,881.4    | 4,883.1    |

### Rod Strings

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

### Perforation Intervals

| Stage# | Zone              | Top (ftKB) | Btm (ftKB) | Shol Dens (shots/ft) | Phasing (°) | Nom Hole Dia (in) | Date      |
|--------|-------------------|------------|------------|----------------------|-------------|-------------------|-----------|
| 3      | D, Original Hole  | 4,910      | 4,912      | 4                    |             |                   | 1/22/1998 |
| 3      | D, Original Hole  | 4,914      | 4,922      | 4                    |             |                   | 1/22/1998 |
| 2      | B, Original Hole  | 5,169      | 5,178      | 4                    |             |                   | 1/20/1998 |
| 2      | B, Original Hole  | 5,216      | 5,218      | 4                    |             |                   | 1/20/1998 |
| 2      | B, Original Hole  | 5,220      | 5,230      | 4                    |             |                   | 1/20/1998 |
| 1      | CP, Original Hole | 5,770      | 5,780      | 4                    |             |                   | 1/17/1998 |
| 1      | CP, Original Hole | 5,840      | 5,848      | 4                    |             |                   | 1/17/1998 |

### Stimulations & Treatments

| Stage# | ISIP (psi) | Frac Gradient (psi/ft) | Max Rate (bbl/min) | Max PSI (psi) | Total Clean Vol (bbl) | Total Slurry Vol (bbl) | Vol Recov (bbl) |
|--------|------------|------------------------|--------------------|---------------|-----------------------|------------------------|-----------------|
| 1      | 3,884      |                        |                    |               |                       |                        |                 |
| 2      | 2,056      |                        |                    |               |                       |                        |                 |
| 3      | 3,065      |                        |                    |               |                       |                        |                 |

### Proppant

| Stage# | Total Prop Vol Pumped (lb) | Total Add Amount         |
|--------|----------------------------|--------------------------|
| 1      |                            | Sand Bulk sand 120300 lb |
| 2      |                            | Sand Bulk sand 130200 lb |



| Proppant |                             |                          |
|----------|-----------------------------|--------------------------|
| Stage#   | Total Prop. Vol Pumped (lb) | Total Add Amount         |
| 3        |                             | Sand Bulk sand 120300 lb |