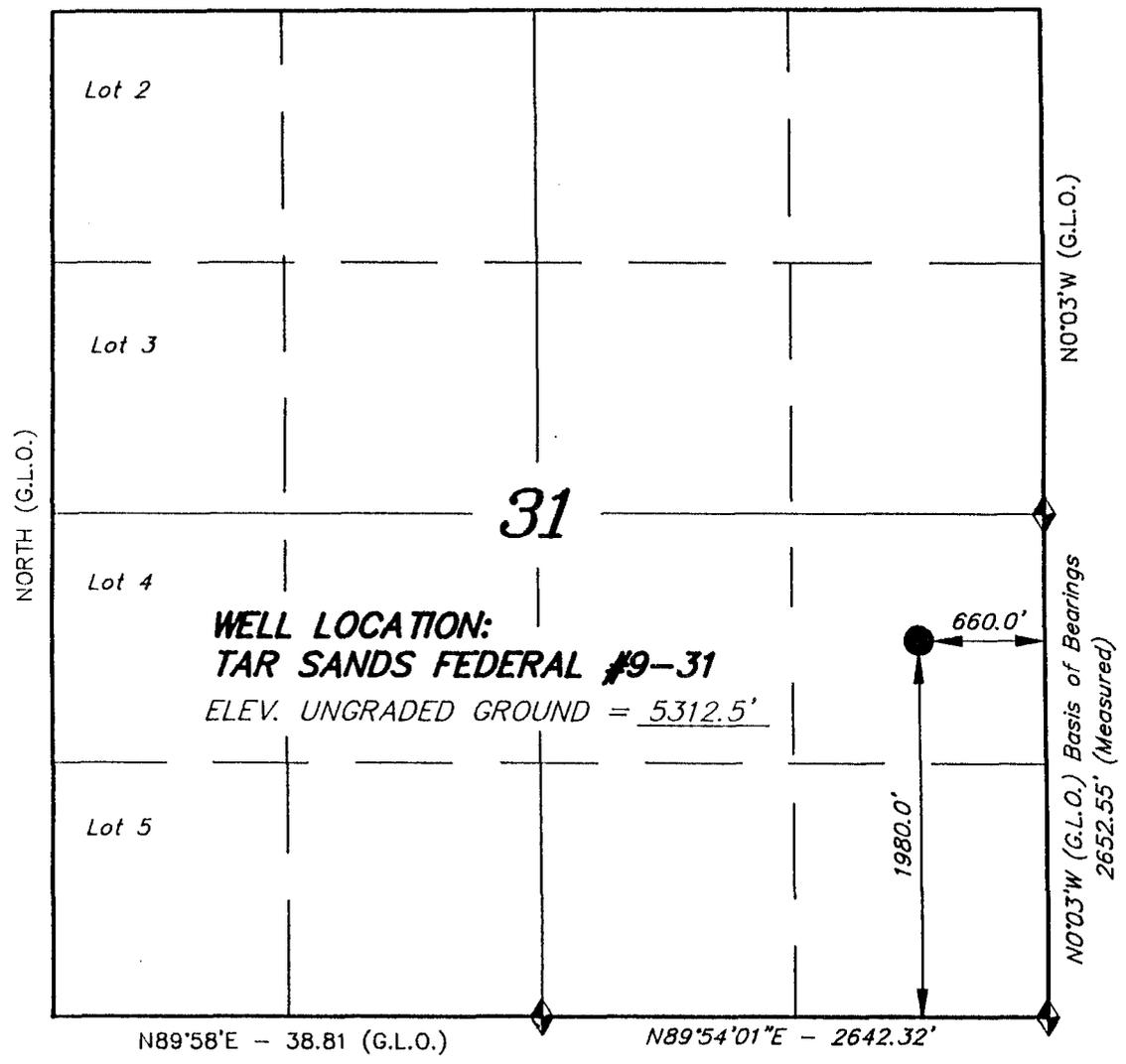




# T8S, R17E, S.L.B.&M.

## INLAND PRODUCTION COMPANY

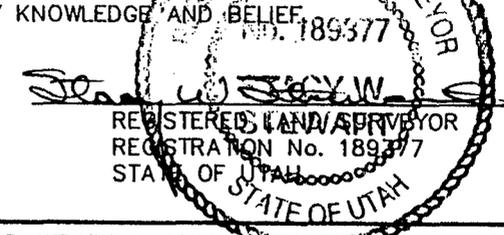
N89°51'E - 78.20 (G.L.O.)



WELL LOCATION, TAR SANDS FEDERAL #9-31, LOCATED AS SHOWN IN THE NE 1/4 SE 1/4 OF SECTION 31, T8S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)

**TRI STATE LAND SURVEYING & CONSULTING**  
38 WEST 100 NORTH - VERNAL, UTAH 84078  
(801) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: S.S.
DATE: 1-19-96	WEATHER: COLD
NOTES:	FILE: INLAND

**TAR SANDS FEDERAL #9-31  
NE/SE SEC. 31, T8S, R17E  
DUCHESNE COUNTY, UTAH  
U-74869**

**HAZARDOUS MATERIAL DECLARATION**

INLAND PRODUCTION COMPANY guarantees that during the drilling & completion of the above referenced well, 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 PRODUCTION COMPANY guarantees that during the drilling and completion of the above referenced well, 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.

JOHNSON WATER DISTRICT  
R.R. 3 BOX 3188  
ROOSEVELT, UT 84066  
TELEPHONE (801) 722-2620

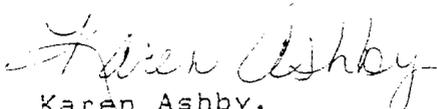
January 18, 1996

TO WHOM IT MAY CONCERN:

Inland Production Company has purchased a 3 inch water connection with Johnson Water District to supply Monument Butte oilfield.

Johnson Water District has given permission to Inland Production Company to use water from our system for the purpose of drilling and completing the Tar Sand Federal 8-31, 9-31, and 15-31.

Sincerely,

  
Karen Ashby,  
Secretary

**INLAND PRODUCTION COMPANY  
TAR SANDS FEDERAL #9-31  
NE/SE SECTION 31, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**TEN POINT WELL PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

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

Uinta	0' - 3030'
Green River	3030'
Wasatch	6500'

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

Green River Formation 3030' - 6400' - & Oil

**4. PROPOSED CASING PROGRAM**

8 5/8", J-55, 24# w/ ST&C collars; set at 300' (New)  
7 7/8 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 Hydril 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:**

It is proposed that the hole be drilled with fresh water to the Green River formation @ approximately 3030', and with mud thereafter. The mud system will be a water based gel-chemical, weighted to 10.0 ppg 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, Compensated Neutron-Formation Density Log. Logs will run from TD to 3500'. The cement bond log will be run from PBTB to cement top. The use of mud loggers to be determined at a later date.

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

The anticipated bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered; nor that any other abnormal hazards such as H<sub>2</sub>S will be encountered in this area.

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

It is anticipated that the drilling operations will commence the second quarter of 1996, and take approximately eight days to drill.

**INLAND PRODUCTION COMPANY  
TAR SANDS FEDERAL #9-31  
NE/SE SECTION 31, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**THIRTEEN POINT WELL PROGRAM**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Inland Production Company well location site Tar Sands Federal #9-31 located in the NE 1/4 SE 1/4 Section 31, T8S, R17E, S.L.B. 7 M. Duchesne County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 - 1.5 miles  $\pm$  to the junction of this highway and Utah State Highway 53; proceed southeasterly along Utah State Highway 7.6 miles to its junction with an existing dirt road to the west, proceed westerly along this road .9 miles to the beginning of the proposed access road, to be discussed in item #2.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 53 ends, 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 oilfield 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**

See Topographic Map "B".

The planned access road leaves the existing location described in Item #1 in the NE 1/4 SE 1/4 Section 36, T8S, R16E, S.L.B., and proceeds in a westerly direction approximately 300' miles  $\pm$  to the proposed location site.

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

There will no culverts required along this access road. There will no water turnouts constructed along this road.

There are no fences encountered along this proposed road. There will 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

There are eight (8) producing, four (4) injection, and one (1) P&A Inland Production wells, seven (7) producing, four (4) injection Balcron wells, within a one (1) mile radius of this well. See Exhibit "D".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

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

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

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

Tank batteries will be placed on a per Sundry Notice if the well is completed as a producer.

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

At the present time, it is anticipated that the water for this well will be trucked from our pre-approved Inland Production Company water supply line located at the Gilsonite State #7-32 (SW/NE Sec. 32, T8S, R17E) location as indicated on Topographic Map - Exhibit C".

In the event this water source is not used an alternate source will be used and all the necessary arrangements will be made with the proper authorities.

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. (Pit lining material is referred to in Item #7.)

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

See Location Layout Sheet - Exhibit "E".

If the reserve pit is lined, it will be constructed and lined with plastic reinforced lines so as not to leak, break, or allow discharge. It will be a minimum of 12 mil thickness with sufficient bedding (either straw or dirt) to cover any rocks. The line will overlap the pit wall and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed on in the pit.

After first production, produced water will be confined to a pit or storage tank for a period not to exceed ninety (90) days. During the ninety (90) day period, in accordance with the Onshore Order #7, an application for approval of permanent disposal method and location, along with required water analysis, shall be submitted for the Authorized Officers approval.

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.

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 south side between stakes 4 & 5.

No flare pit will be used at this location.

The stockpiled topsoil (first six (6) inches) will be stored on the east side, between stakes 2 & 3.

Access to the well pad will be from the northwest corner, between stakes 1 & 8.

**Fencing Requirements**

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

- 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.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before back filling of the reserve pit.

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, all cans, barrels, pipe, etc., 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.

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.

There are no dwellings or facilities in the general area. There are no visible archaeological, historical or cultural sites within any reasonable proximity of the proposed location site. The Cultural Resource Survey 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 insure compliance.

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.

13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name: Brad Mecham  
Address: P.O. Box 1446 Roosevelt, Utah 84066  
Telephone: (801) 722-5103

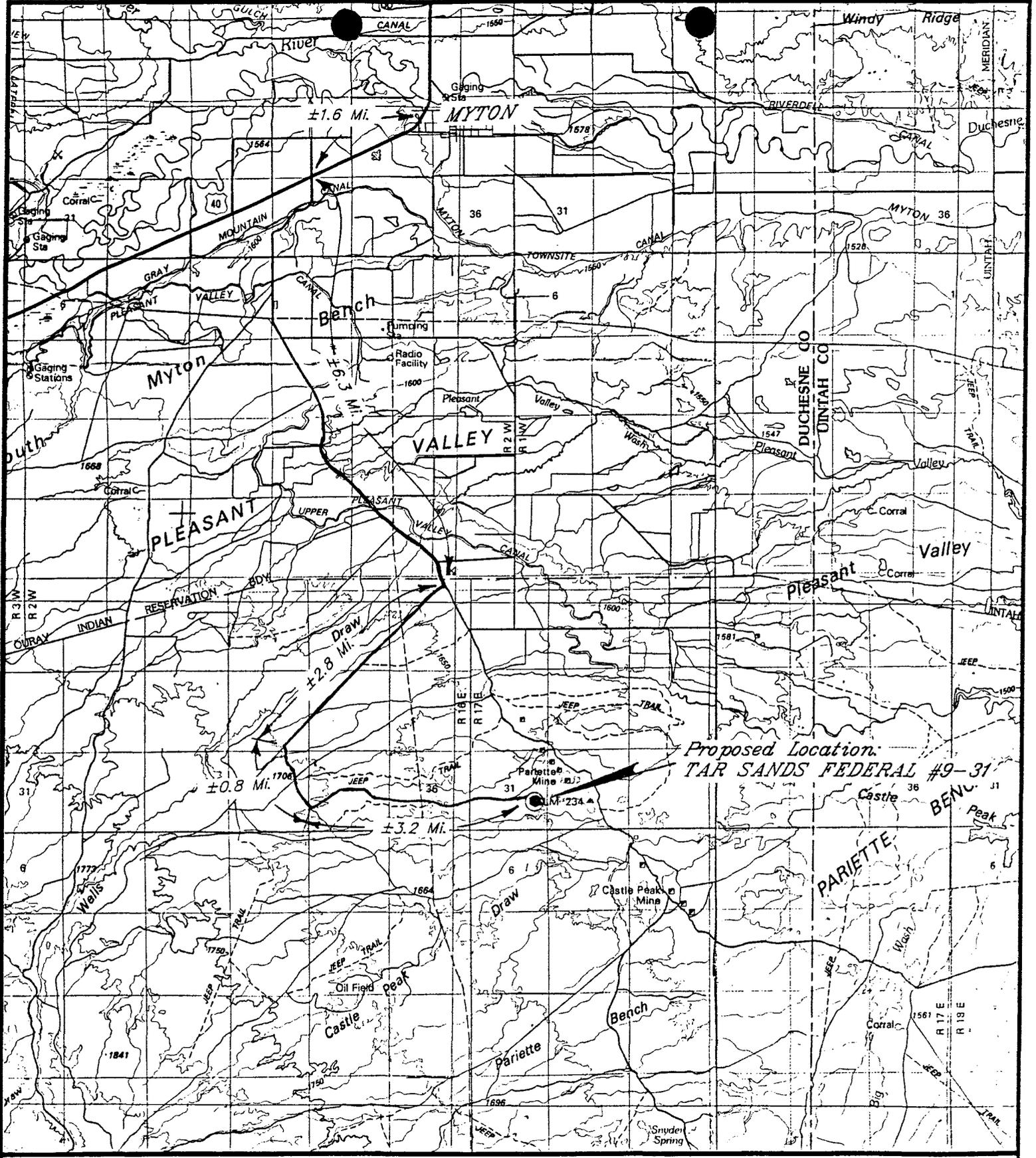
Certification

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of Tar Sands Federal #9-31 NE/SE Section 31, Township 8S, Range 17E: Lease U-74869, 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.

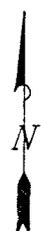
2-15-96  
Date

Brad Mecham  
Brad Mecham  
Operations Manager



**INLAND PRODUCTION COMPANY**

TAR SANDS FEDERAL #9-31  
 SEC. 31, T8S, R17E, S.L.B.&M.  
 TOPO "A"

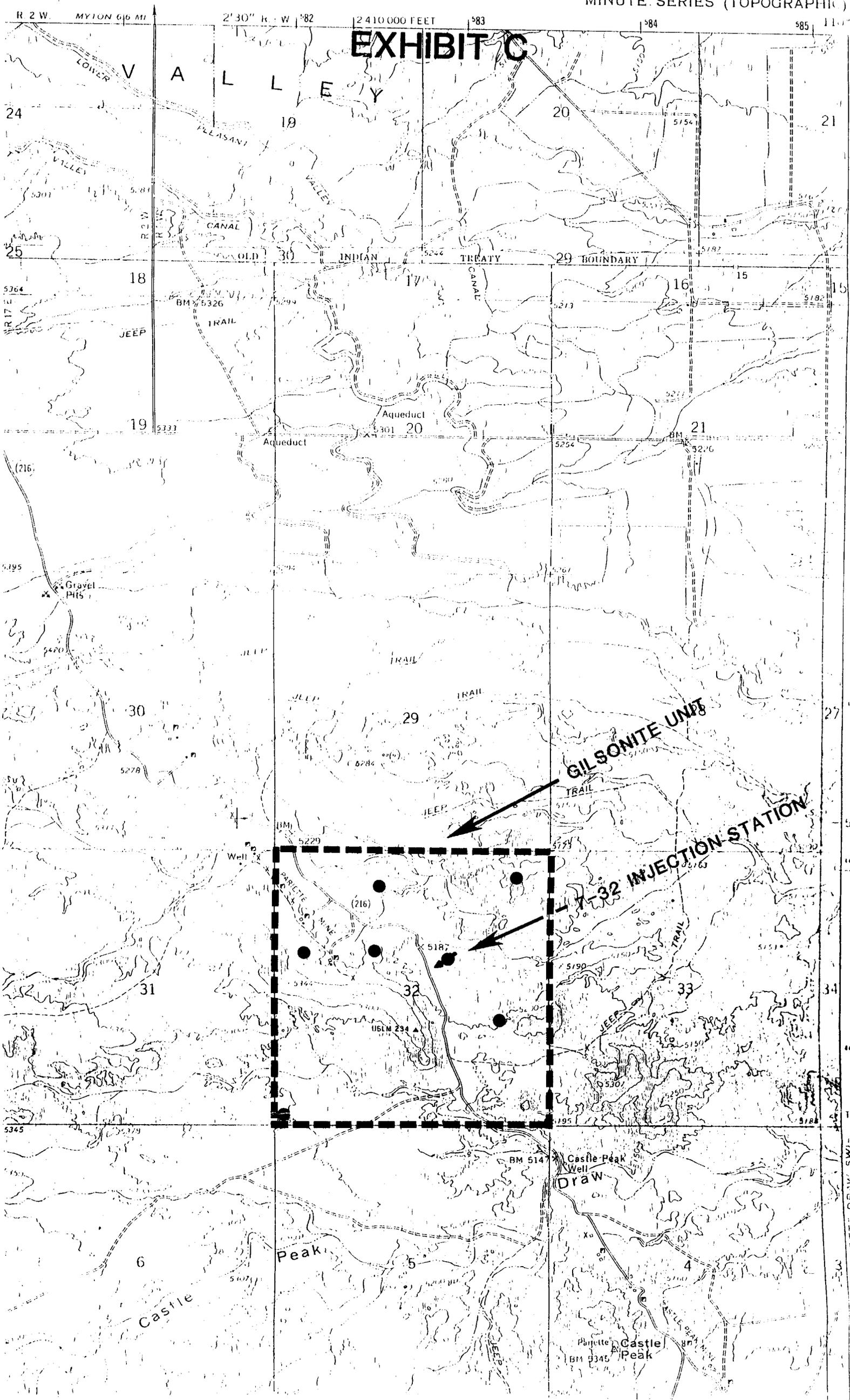


**Tri State**  
 Land Surveying, Inc.  
 (801) 781-2501

38 WEST 100 NORTH VERNAL, UTAH 84078

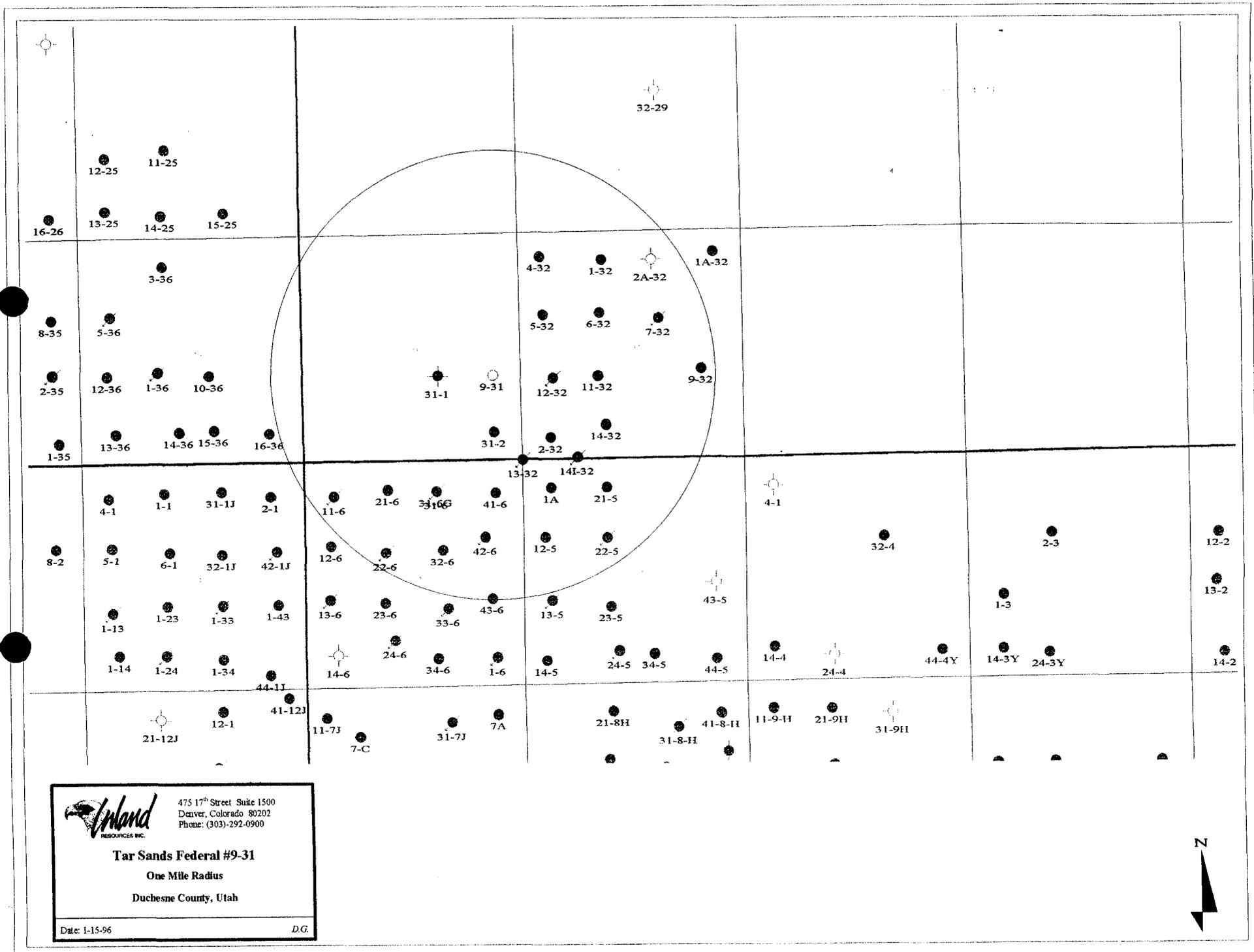


# EXHIBIT C



DRAW SW

EXHIBIT "D"



**Inland**  
RESOURCES INC.

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

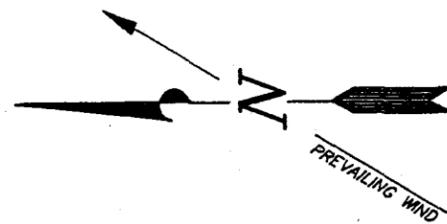
**Tar Sands Federal #9-31**  
One Mile Radius  
Duchesne County, Utah

Date: 1-15-96 D.G.

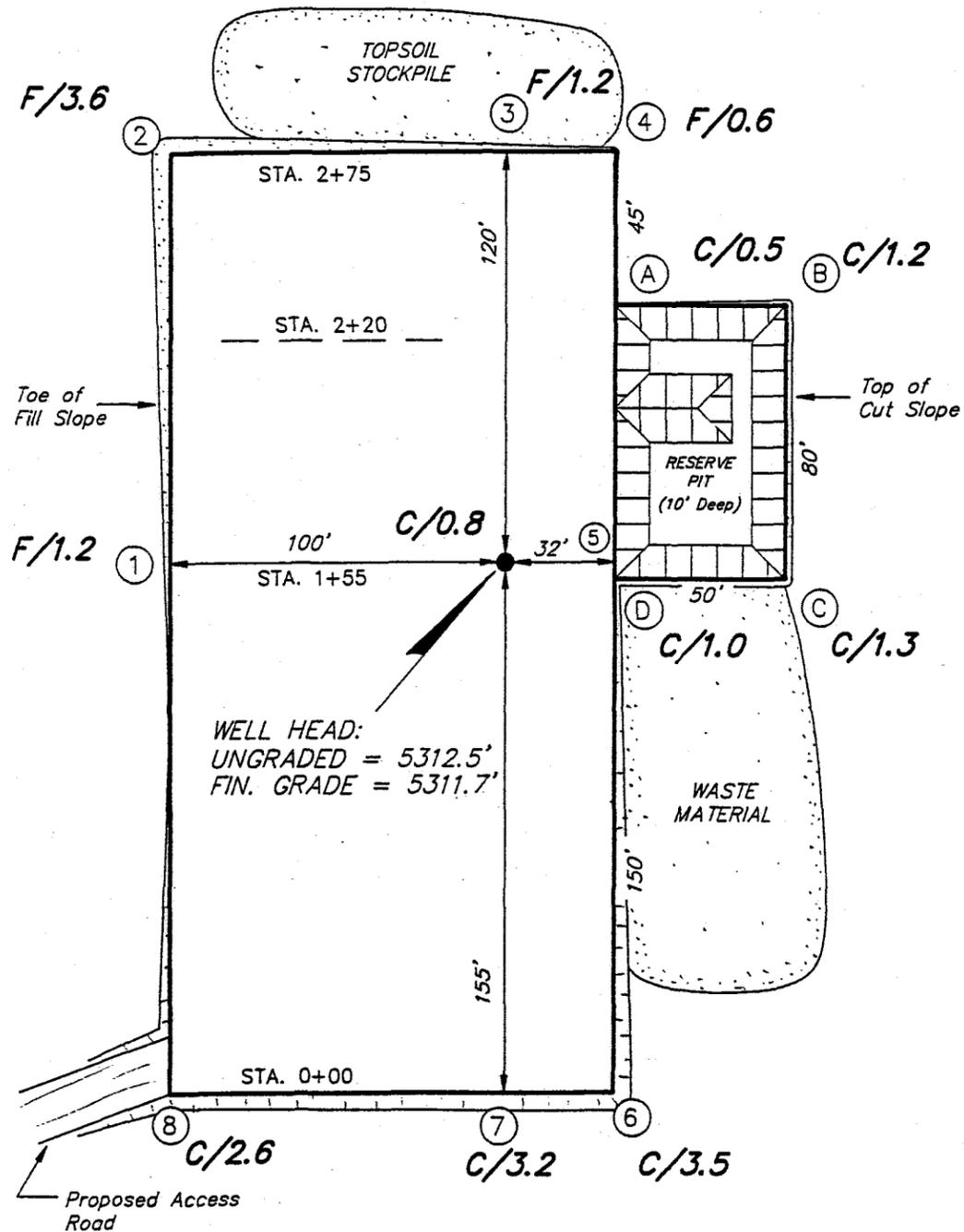


# INLAND PRODUCTION COMPANY

TAR SANDS FEDERAL #9-31  
SEC. 31, T8S, R17E, S.L.B.&M.



SCALE: 1" = 50'



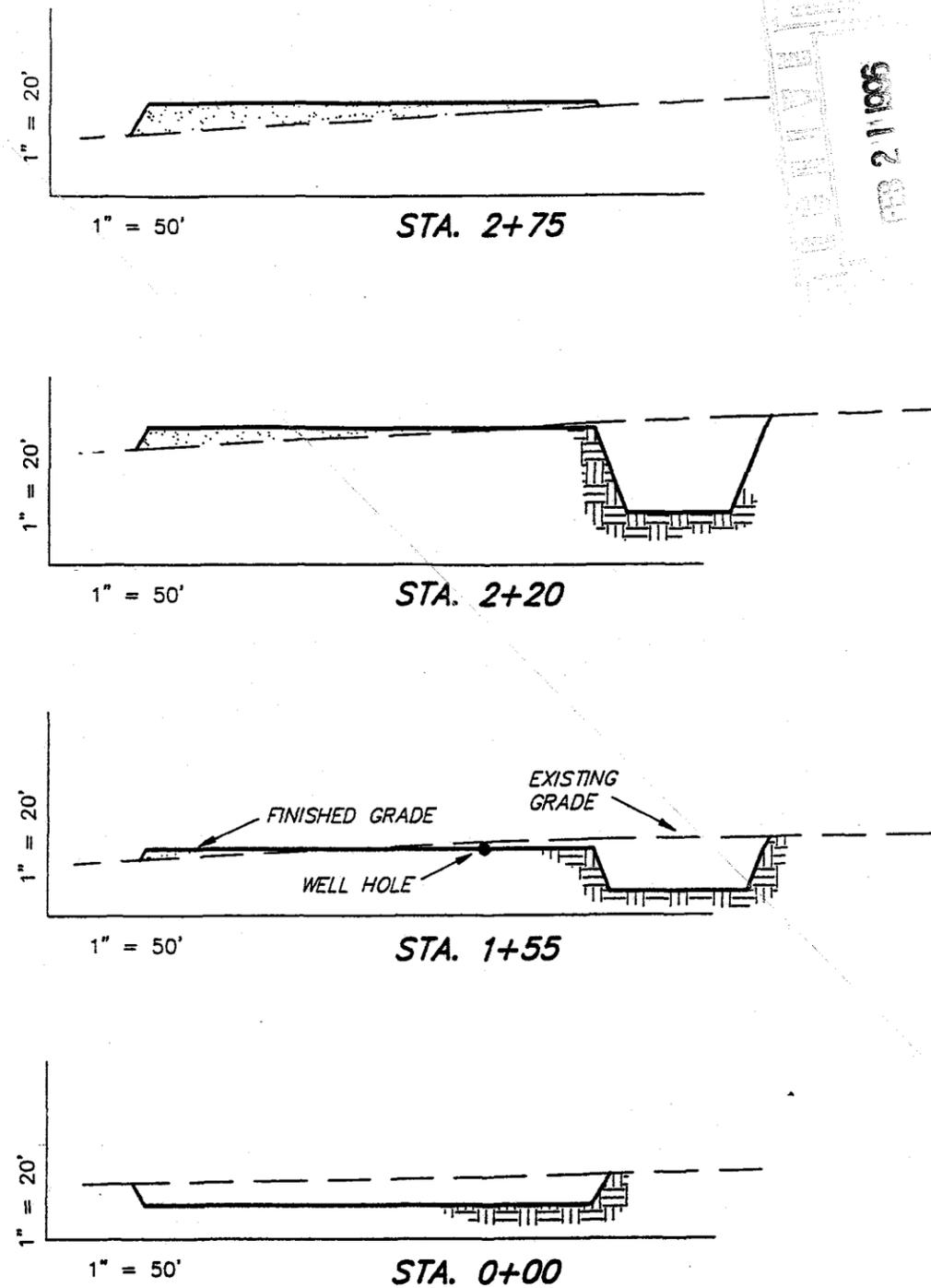
WELL HEAD:  
UNGRADED = 5312.5'  
FIN. GRADE = 5311.7'

**REFERENCE POINTS**

- 160' NORTH = 5309.0'
- 210' NORTH = 5308.8'
- 170' EAST = 5310.1'
- 220' EAST = 5309.3'

**APPROXIMATE YARDAGES**

- CUT = 950 Cu. Yds.
- FILL = 940 Cu. Yds.
- PIT = 1,060 Cu. Yds.
- 6" TOPSOIL = 750 Cu. Yds.



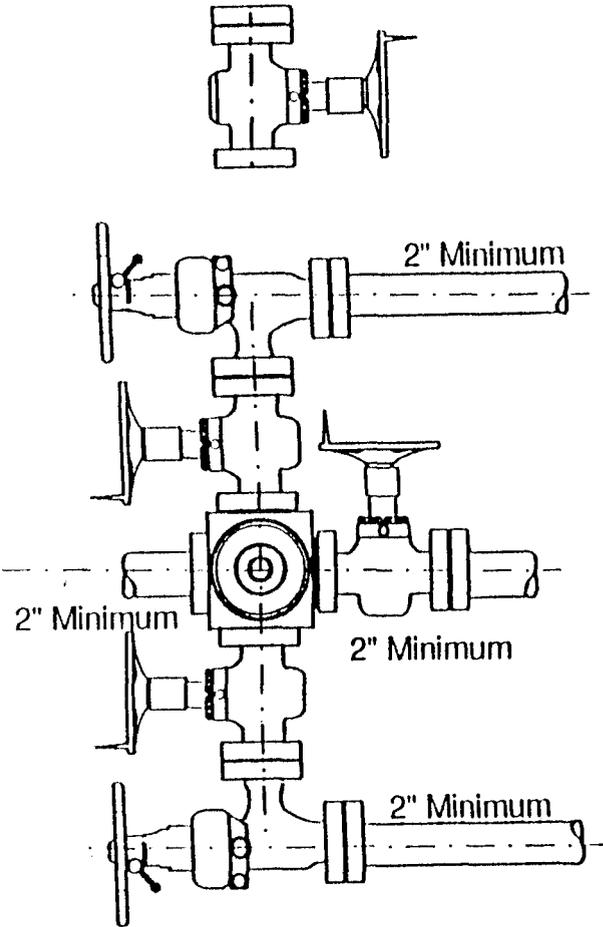
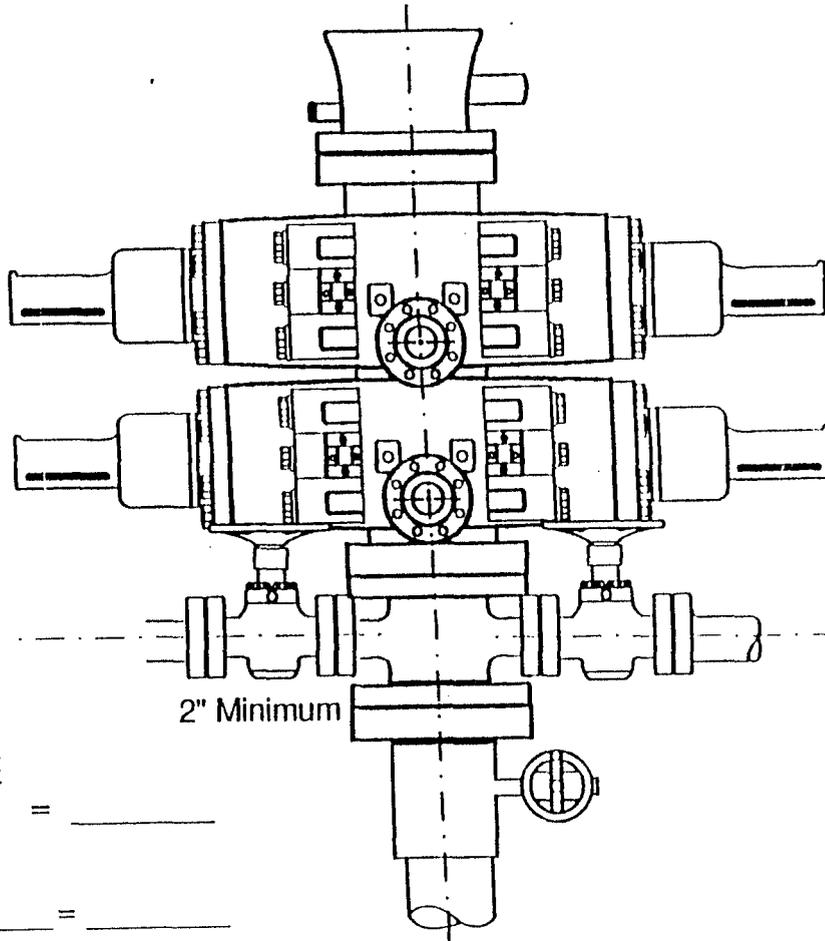
APPROVED  
FEB 21 1996

SURVEYED BY: S.S.	<p><b>Tri State</b> Land Surveying, Inc. (801) 781-2501 38 WEST 100 NORTH VERNAL, UTAH 84078</p>
DRAWN BY: J.R.S.	
DATE: 1-19-96	
SCALE: 1" = 50'	
FILE:	

# 2-M SYSTEM

EXHIBIT F

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



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

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

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/21/96

API NO. ASSIGNED: 43-013-31616

WELL NAME: TAR SANDS FEDERAL 9-31  
OPERATOR: INLAND PRODUCTION COMPANY (N5160)

PROPOSED LOCATION:

NESE 31 - T08S - R17E  
SURFACE: 1980-FSL-0660-FEL  
BOTTOM: 1980-FSL-0660-FEL  
DUCHESNE COUNTY  
MONUMENT BUTTE FIELD (105)

LEASE TYPE: FED  
LEASE NUMBER: U - 74869

PROPOSED PRODUCING FORMATION: GRRV

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

RECEIVED AND/OR REVIEWED:

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

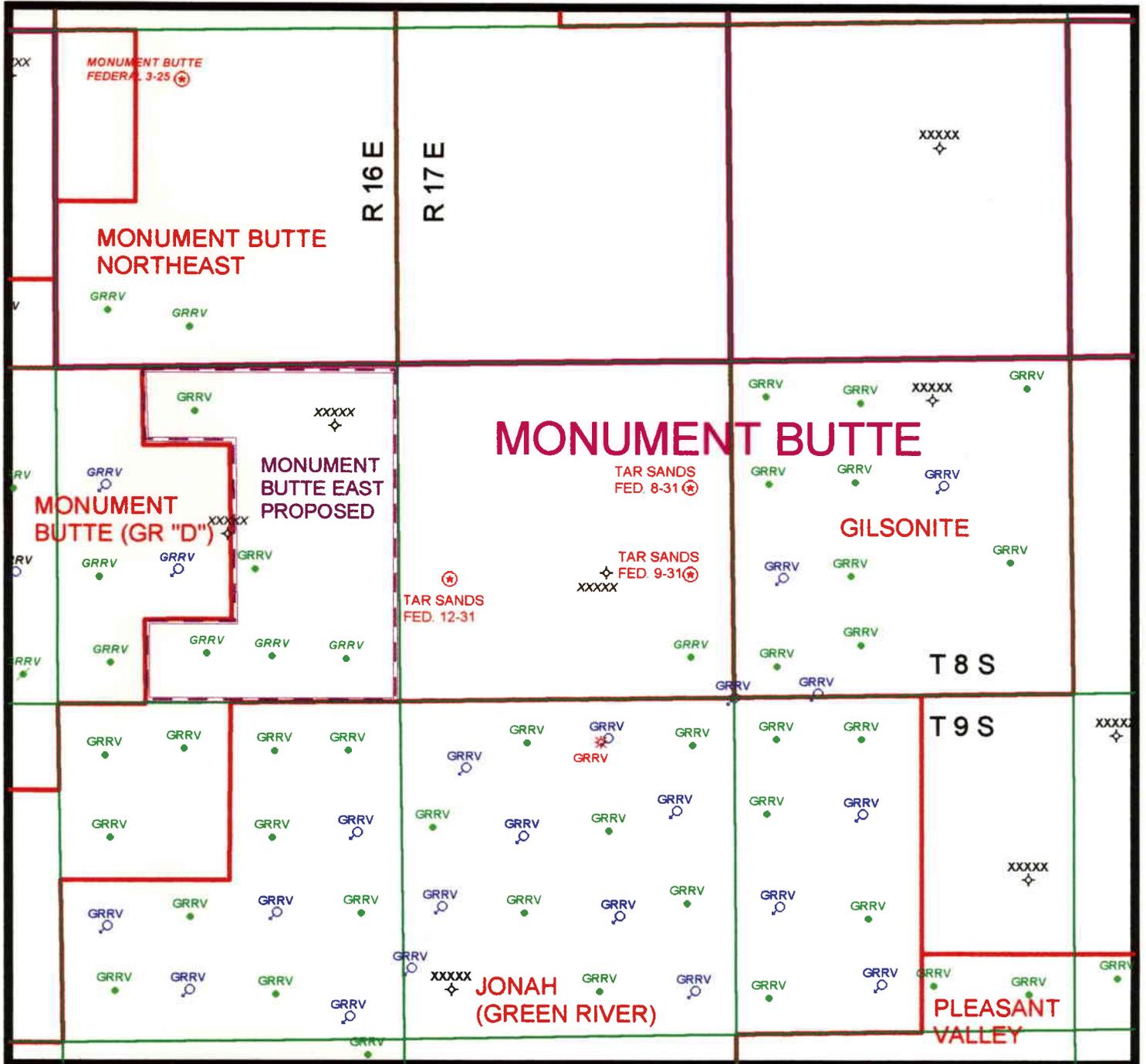
LOCATION AND SITING:

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

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

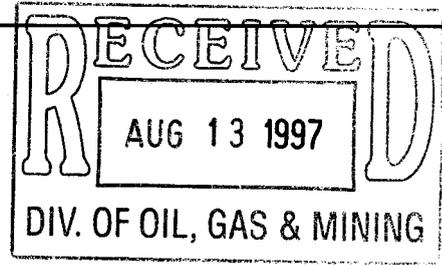
STIPULATIONS: \_\_\_\_\_

# INLAND PRODUCTION COMPANY WATERFLOOD DEVELOPMENT SEC. 31, T8S, R17E, DUCHESNE, COUNTY R649-3-2



**STATE SPACING  
UAC R649-3-2**

**PREPARED:  
DATE: 22-FEB-96**



August 12, 1997

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

**ATTENTION: John R. Baza**

**RE: Tar Sands Federal #9-31  
NE/SE Sec. 31, T8S, R17E  
Duchesne County, Utah**

Dear Mr. Baza,

Enclosed is a revised APD cover sheet and a new set of plats, as requested by the Bureau of Land Management, for the above referenced location.

Please contact me in the Vernal Branch office (801) 789-1866 (P.O. Box 790233, Vernal, UT, 84079), if you have any questions, or need additional information.

Sincerely,

Cheryl Cameron  
Regulatory Compliance Specialist



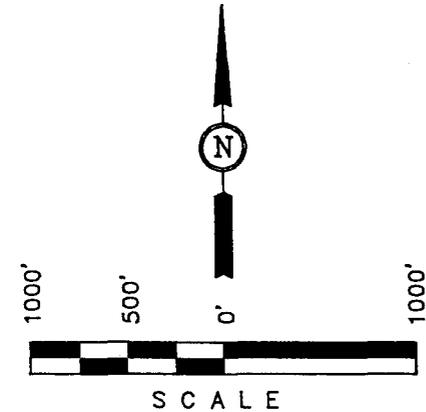
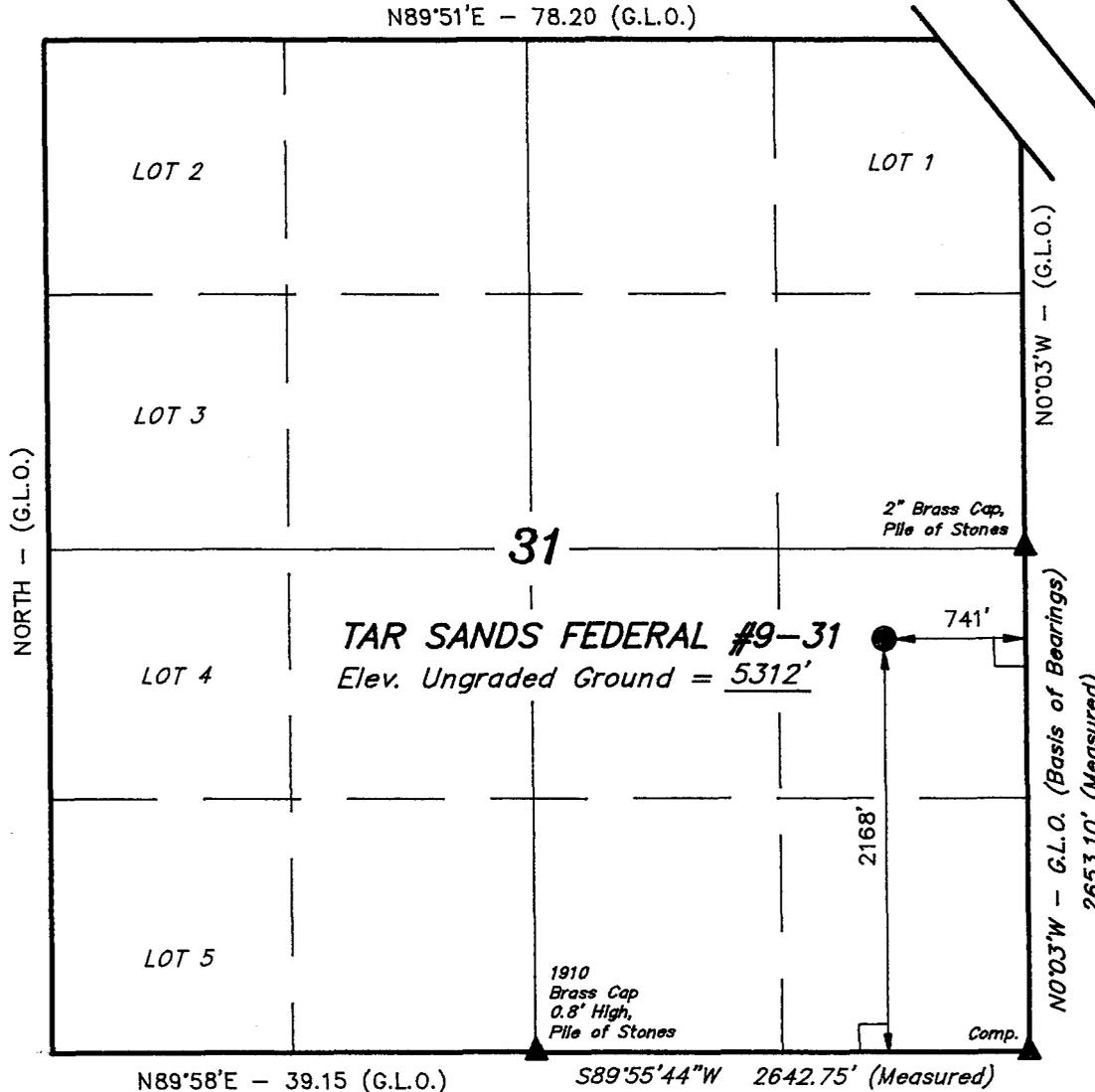
T8S, R17E, S.L.B.&M.

INLAND PRODUCTION CO.

Well location, TAR SANDS FEDERAL #9-31, located as shown in the NE 1/4 SE 1/4 of Section 31, T8S, R17E, S.L.B.&M. Duchesne County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 32, T8S, R17E, S.L.B.&M. TAKEN FROM THE MYTON SE 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 5255 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

LEGEND:

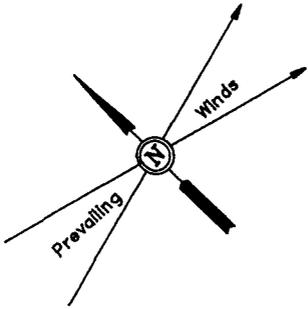
- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b>		
85 SOUTH 200 EAST - VERNAL, UTAH 84078		
(801) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 7-21-97	DATE DRAWN: 7-23-97
PARTY L.D.T. B.B. D.COX	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE INLAND PRODUCTION CO.	

# INLAND PRODUCTION CO.

## LOCATION LAYOUT FOR

TAR SANDS FEDERAL #9-31  
SECTION 31, T8S, R17E, S.L.B.&M.  
2168' FSL 741' FEL



SCALE: 1" = 50'  
DATE: 7-28-97  
Drawn By: D.COX

Proposed Access Road

F-1.9'  
El. 08.4'

F-3.1'  
El. 07.2'

F-9.5'  
El. 00.8'

Sta. 2+90

APPROX. TOE OF FILL SLOPE

**NOTE:**

FLARE PIT IS TO BE LOCATED A MINIMUM OF 125' FROM THE WELL HEAD.

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

El. 11.7'  
C-9.4'  
(Btm. Pit)

El. 12.1'  
C-1.8'

C-1.5'  
El. 11.8'

Sta. 1+45

El. 10.0'  
F-0.3'

Sta. 0+83

Sta. 0+00

El. 14.0'  
C-11.7'  
(Btm. Pit)

El. 13.8'  
C-3.5'

APPROX. TOP OF CUT SLOPE

El. 15.4'  
C-5.1'

C-4.6'  
El. 14.9'

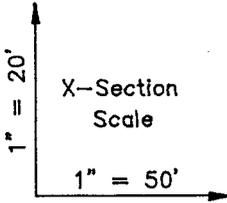
El. 14.2'  
C-3.9'

Topsoil Stockpile

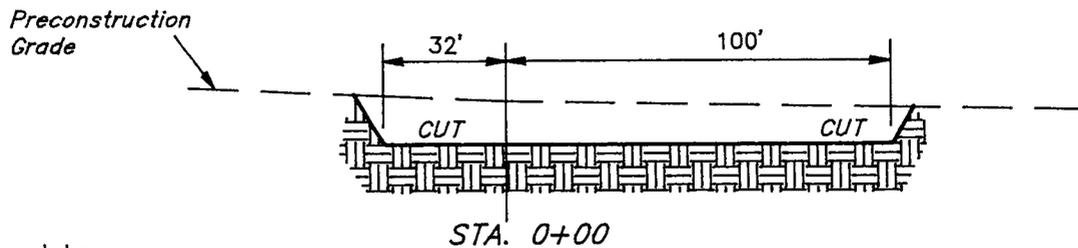
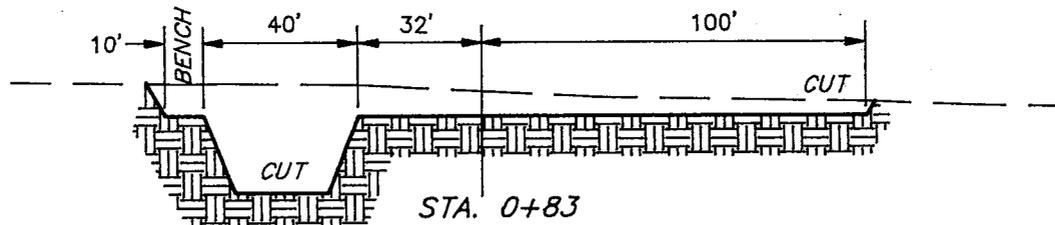
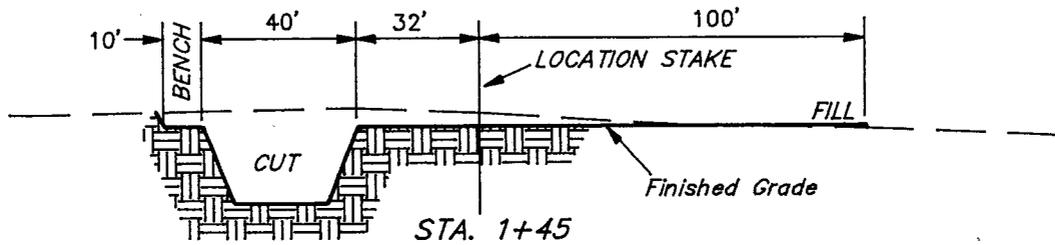
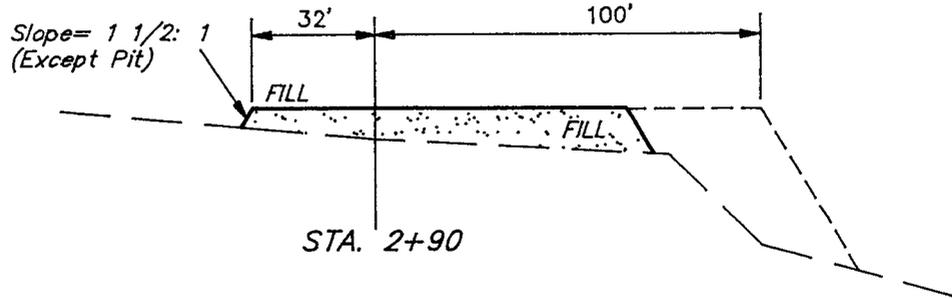
Elev. Ungraded Ground at Location Stake = 5311.8'  
Elev. Graded Ground at Location Stake = 5310.3'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (801) 788-1017

**INLAND PRODUCTION CO.**  
**TYPICAL CROSS SECTIONS FOR**  
**TAR SANDS FEDERAL #9-31**  
**SECTION 31, T8S, R17E, S.L.B.&M.**  
**2168' FSL 741' FEL**



DATE: 7-28-97  
 Drawn By: D.COX



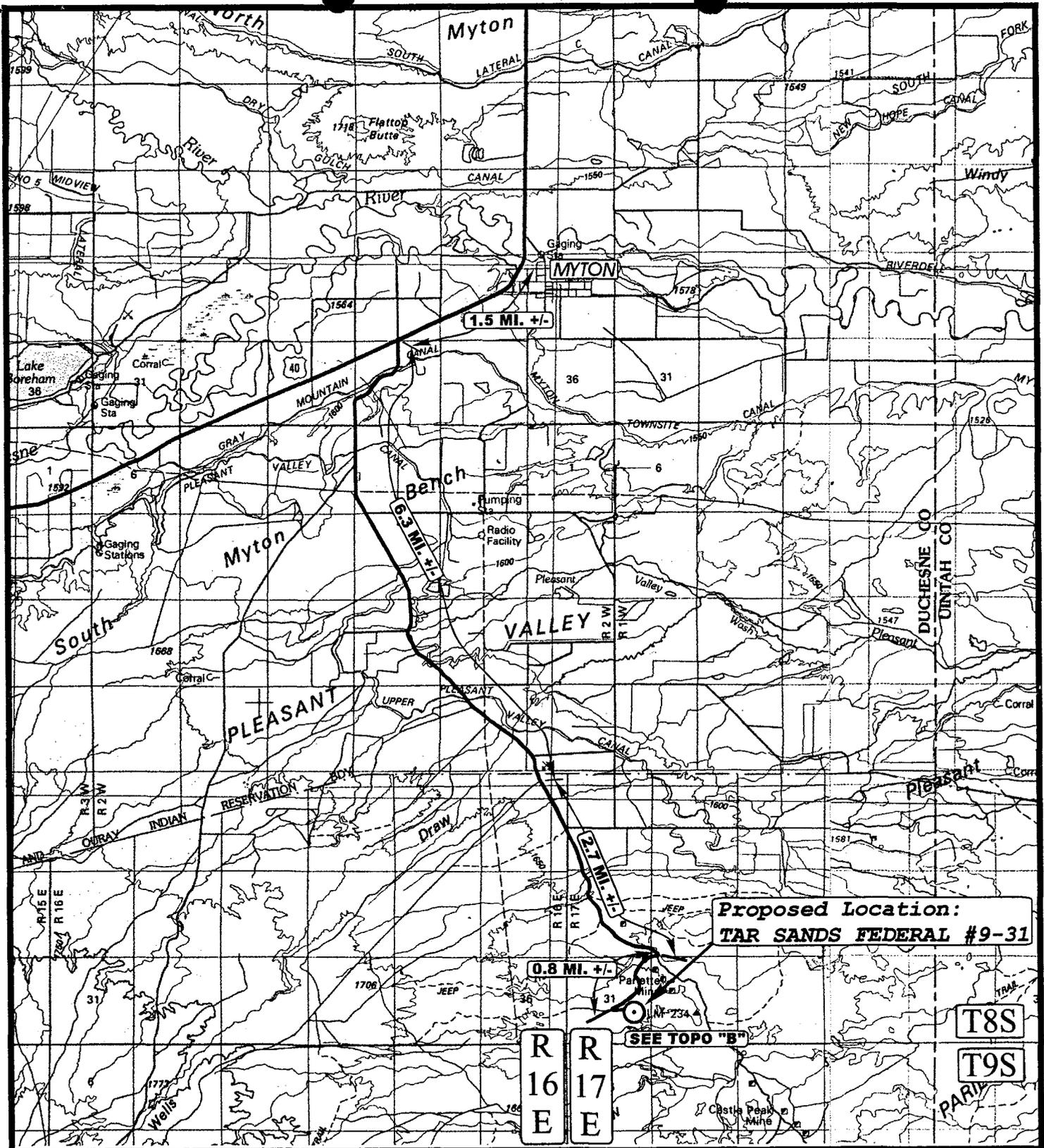
**NOTE:**  
 Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 780 Cu. Yds.
Remaining Location	= 2,570 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 3,350 CU.YDS.</b>
<b>FILL</b>	<b>= 2,150 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 1,090 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 1,090 Cu. Yds.
EXCESS MATERIAL After Reserve Pit is Backfilled & Topsoil is Re-distributed	= 0 Cu. Yds.

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 So. 200 East \* Vernal, Utah 84078 \* (801) 789-1017



**Proposed Location:  
TAR SANDS FEDERAL #9-31**

R  
16  
E

R  
17  
E

T8S

T9S

**LEGEND:**

○ PROPOSED LOCATION



**INLAND PRODUCTION CO.**

TAR SANDS FEDERAL #9-31  
SECTION 31, T8S, R17E, S.L.B.&M.  
2168' FSL 741' FEL



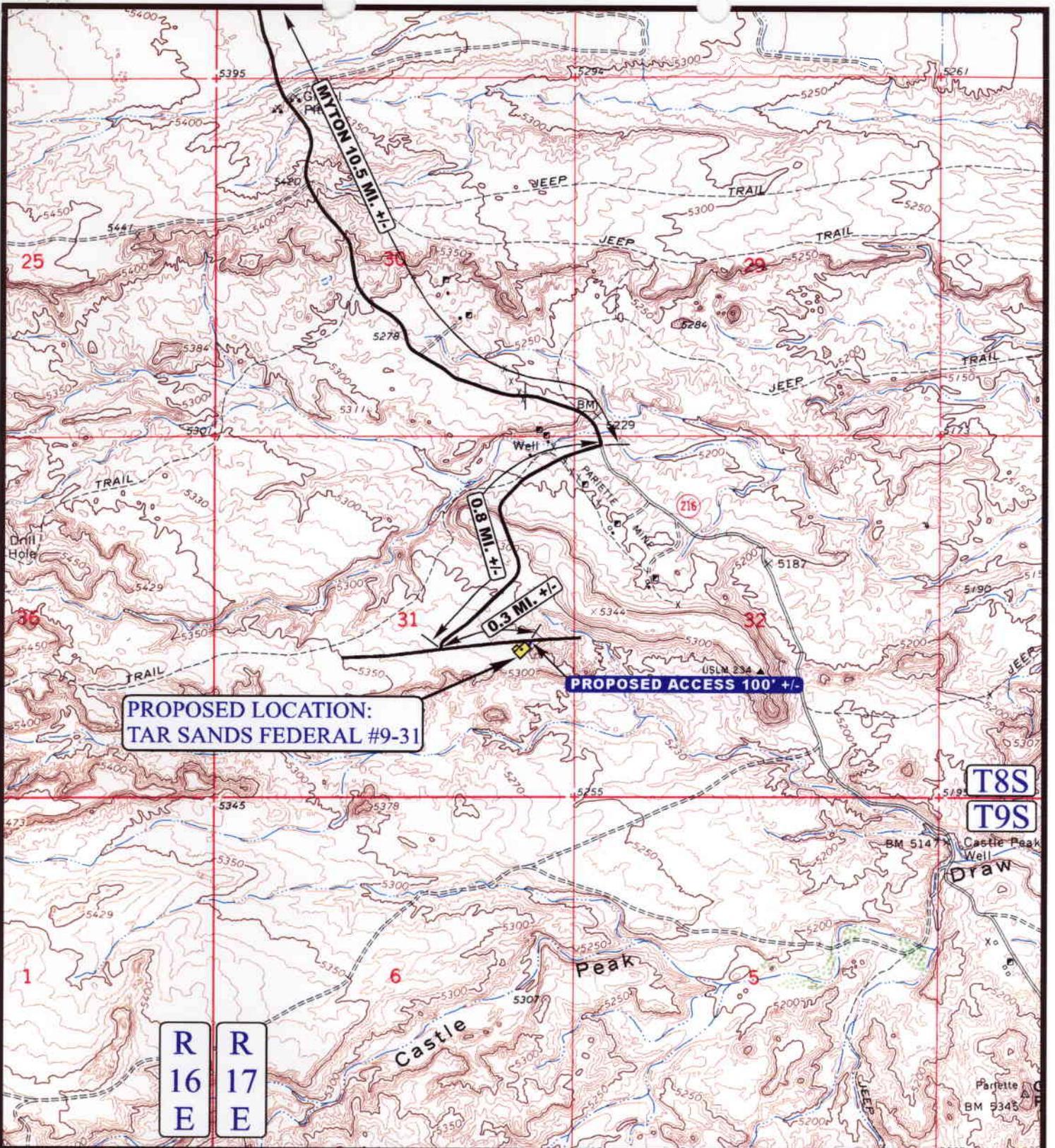
Utah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(801) 789-1017 \* FAX (801) 789-1813  
Email: ucls@casilink.com

**TOPOGRAPHIC  
MAP**

**7 23 97**  
MONTH DAY YEAR

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





**PROPOSED LOCATION:  
TAR SANDS FEDERAL #9-31**

**PROPOSED ACCESS 100' +/-**

**R  
16  
E**

**R  
17  
E**

**T8S**

**T9S**

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD



**INLAND PRODUCTION CO.**

**TAR SANDS FEDERAL #9-31**  
**SECTION 31, T8S, R17E, S.L.B.&M.**  
**2168' FSL 741' FEL**



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

**TOPOGRAPHIC** **7 23 97**  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00





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)

August 14, 1997

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

Re: Tar Sands Federal 9-31 Well, 2168' FSL, 741' FEL, NE SE,  
Sec. 31, T. 8 S., R. 17 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 43-013-31616.

Sincerely,

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: Tar Sands Federal 9-31  
API Number: 43-013-31616  
Lease: U-74869  
Location: NE SE Sec. 31 T. 8 S. R. 17 E.

### Conditions of Approval

1. General

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

2. Notification Requirements

Notify the Division 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.

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

5. LEASE DESIGNATION AND SERIAL NO <b>U-74869</b>
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME <b>Tar Sands Federal</b>
9. WELL NO. <b>#9-31</b>
10. FIELD AND POOL OR WILDCAT <b>Monument Butte</b>
11. SEC., T., R., M., OR BLK AND SURVEY OR AREA <b>Sec. 31, T8S, R17E</b>
12. County <b>Duchesne</b>
13. STATE <b>UT</b>
22. APPROX. DATE WORK WILL START* <b>4th Quarter 1997</b>

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

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

1b. TYPE OF WELL

OIL WELL        GAS WELL        SINGLE ZONE        MULTIPLE ZONE   

2. NAME OF OPERATOR  
**Inland Production Company**

3. ADDRESS OF OPERATOR  
**P.O. Box 790233 Vernal, UT 84079**

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

At Surface    **NE/SE**

At proposed Prod. Zone    **2168' FSL & 741' FEL**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE  
**12.6 Miles southeast of Myton, Utah**

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
**660'**

16. NO. OF ACRES IN LEASE    **1968.01**

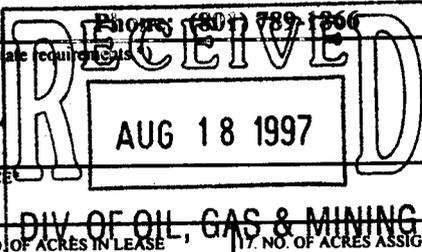
17. NO. OF ACRES ASSIGNED TO THIS WELL    **40**

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

19. PROPOSED DEPTH    **6500'**

20. ROTARY OR CABLE TOOLS  
**Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**5310.3'**



23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	300'	120 sx
7 7/8"	5 1/2"	15.5#	TD	400 sx followed by 330 sx
				See Detail Below

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% CaCl<sub>2</sub>, 1/4# /sk Flocele**

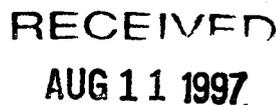
Weight: 14.8 PPG    YIELD: 1.37 Cu Ft/sk    H<sub>2</sub>O Req: 6.4 Gal/sk

**LONG STRING - Lead: Hibond 65 Modified**

Weight: 11.0 PPG    YIELD: 3.00 Cu Ft/sk    H<sub>2</sub>O Req: 18.08 Gal/sk

**Tail: Premium Plus Thixotropic**

Weight: 14.2 PPG    YIELD: 1.59 Cu Ft/sk    H<sub>2</sub>O 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. **Regulatory**

SIGNED *Cheryl Cameron*    TITLE **Compliance Specialist**    DATE **8/11/97**

**Cheryl Cameron**

(This space for Federal or State office use)

**CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY**

PERMIT NO. **NOTICE OF APPROVAL**    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 *Mark D. Hays*    TITLE **Assistant Field Manager Mineral Resources**    DATE **AUG 13 1997**

**\*See Instructions On Reverse Side**

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Tar Sands Federal 9-31

API Number: 43-013-31616

Lease Number: U - 74869

Location: NESE Sec. 31 T. 8S R. 17E

**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 360 ft. or by setting surface casing to 400 ft. and having a cement for the production casing at least 200 ft. above the shallowest potential productive zone. 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. Submit a field copy of the CBL to this office. A Sonic log will be run from TD to a minimum of 200 ft. above the top of the Mahogany oil shale.

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**  
Conditions of Approval (COAs)

**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.

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

nuttalls saltbush	Atriplex nuttalli v. cuneata	3lbs/acre
Shadscale	Atriplex confertifolia	3 lbs/acre
Fourwing saltbush	Atriplex canescens	4 lbs/acre
Galleta	Haliaria jamesii	2 lbs/acre

If the seed mixture is to be aurally 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.

**Raptor Habitat**

Stockpiled top soil or windrowed top soil will be located as much possible to the southwest corner of the location to add screening of worker activities from raptor nesting areas.

Storage tanks that will be used during production operations shall be placed on the South side of the location to add screening of worker activities.

If this is a producing well the operator is required to install a hospital type muffler or a multicylinder engine to the pumping unit to limit noise impacts to nesting raptor species.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: INLAND PRODUCTION CO

Well Name: TAR SANDS FEDERAL 9-31

Api No. 43-013-31616

Section: 31 Township: 8S Range: 17E County: DUCHESNE

Drilling Contractor: UNION

Rig # 7

SPUDDED:

Date: 8/30/97

Time: \_\_\_\_\_

How: ROTARY

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

Reported by: FAX

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

Date: 9/8/97 Signed: JLT

✓

# Facsimile Cover Sheet

**To: Lisha Cordova**  
**Company: State of Utah**  
**Phone: (801) 538-5296**  
**Fax: (801) 359-3940**

**From: Cheryl Cameron**  
**Company: Inland Production Company**  
**Phone: (801) 789-1866**  
**Fax: (801) 789-1877**

**Date: 9/10/97**

**Pages including this  
cover page: 2**

**Comments: Entity Action Form for Tar Sands Federal #9-31.**

OPERATOR Inland Production Company  
 ADDRESS P O Box 790233  
Vernal, UT 84079

OPERATOR ACCT. NO. N 5160

ACTION CODE	EXISTING ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12212	43-013-31871	Tar Sands Federal #16-29	SESE	29	8S	17E	Duchesne	8/7/97	8/7/97
WELL 1 COMMENTS: Spud surface hole w/ Rotary Rig, Union #7 @ 4:30 pm 8/7/97. <i>Entity previously added 9-9-97.</i>											
	99999	12213	43-013-31905	Monument Butte Federal 10-27	NWSE	27	8S	16E	Duchesne	9/2/97	9/2/97
WELL 2 COMMENTS: Spud surface hole w/ Leon Ross Rathole Rig @ 1:30 pm 9/2/97. <i>Entity previously added 9-9-97.</i>											
	99999	12214	43-013-31904	Monument Butte Federal 9-27	NESE	27	8S	16E	Duchesne	8/22/97	8/22/97
WELL 3 COMMENTS: Spud surface hole w/ Leon Ross Rathole Rig @ 6:00 pm 8/22/97. <i>Entity previously added 9-9-97.</i>											
	99999	12215	43-013-31903	Monument Butte Federal 8-27	NESE	27	8S	16E	Duchesne	8/26/97	8/26/97
WELL 4 COMMENTS: Spud surface hole w/ Leon Ross Rathole Rig @ 12:30 pm 8/26/97. <i>Entity previously added 9-9-97.</i>											
A	99999	12220	43-013-31616	Tar Sands Federal 9-31	NESE	31	8S	17E	Duchesne	8/30/97	8/30/97
WELL 5 COMMENTS: Spud surface hole w/ Rotary Rig, Union #7 @ 2:00 pm 8/30/97. <i>Entity added 9-15-97 Lec</i>											

- 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 COMMENTS section to explain why each Action Code was selected.

13-89

*Cheryl Cameron*  
 Signature Cheryl Cameron  
 RCS 9/9/97  
 Title \_\_\_\_\_ Date \_\_\_\_\_

Phone No. 801, 789-1366

**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 deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**U-74869**

6. If Indian, Allottee or Tribe Name

7. If unit or CA, Agreement Designation

8. Well Name and No.

**Tar Sands Federal #9-31**

9. API Well No.

**43-013-31616**

10. Field and Pool, or Exploratory Area

**Monument Butte**

11. County or Parish, State

**Duchesne, UT**

*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)

**NE/SE  
Sec. 31, T8S, R17E**

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

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent

Abandonment

Change of Plans

Subsequent Report

Recompletion

New Construction

Final Abandonment Notice

Plugging Back

Non-Routine Fracturing

Casing repair

Water Shut-off

Altering Casing

Conversion to Injection

Other Surface Spud

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)

**Drill 17 1/2" hole to 21'. Set 15' of 13 3/8" conductor. Drill surface hole from 21' - 318' w/ Union Rig #7. Set 8 5/8" 24# J-55 ST&C csg @ 299'. Pump 10 BDW & 20 BG. Cmt w/ 140 sx Prem + w/ 2% CC & 1/4#/sk flocele, 15.6 ppg, 1.18 cf/sk yield w/ est 8 BG returns. Cmt w/ 20 sx Prem +, 15.6 ppg, 1.18 cf/sk yield w/ est 2 BC return.**

**SPUD w/ Rotary Rig, Union, Rig #7 @ 2:00 pm 8/30/97.**

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

Signed *Cheryl Cameron*  
**Cheryl Cameron**

Title Regulatory Compliance Specialist

Date 9/9/97

(This space of Federal or State office use.)

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

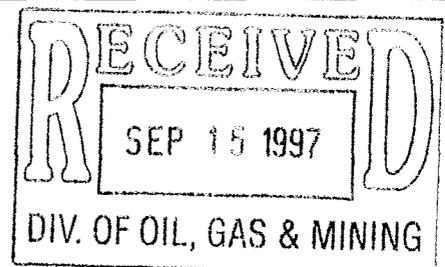
Title \_\_\_\_\_

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



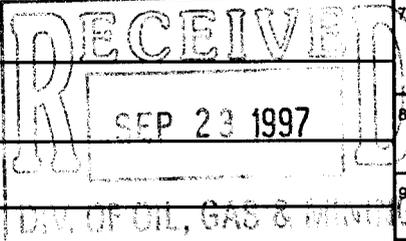
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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)  
**NE/SE    2163' FSL & 722' FEL  
 Sec. 31, T8S, R17E**

5. Lease Designation and Serial No.  
**U-74869**

6. If Indian, Allottee or Tribe Name

7. Unit or CA, Agreement Designation

8. Well Name and No.  
**Tar Sands Federal #9-31**

9. API Well No.  
**43-013-31616**

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 type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input checked="" 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 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 that the attached Regulation Variance be granted for the continued drilling operations for Air Drilling with Union, Rig #7. Please refer to Attachment A.**

**Inland Production company requests that authorization be granted a location move from the original footage permitted at 2168' FSL & 741' FEL , to 2163' FSL & 722' FEL, in order to accommodate the drilling rig, Union, Rig #7. Please refer to the revised location plat.**

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

Signed *Cheryl Cameron*  
**Cheryl Cameron**

Title **Regulatory Compliance Specialist** Date **9/12/97**

(This space of Federal or State office use.)

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

Conditions of approval, if any:

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**\*See Instruction on Reverse Side**

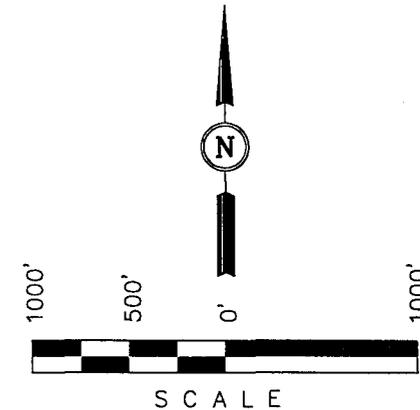
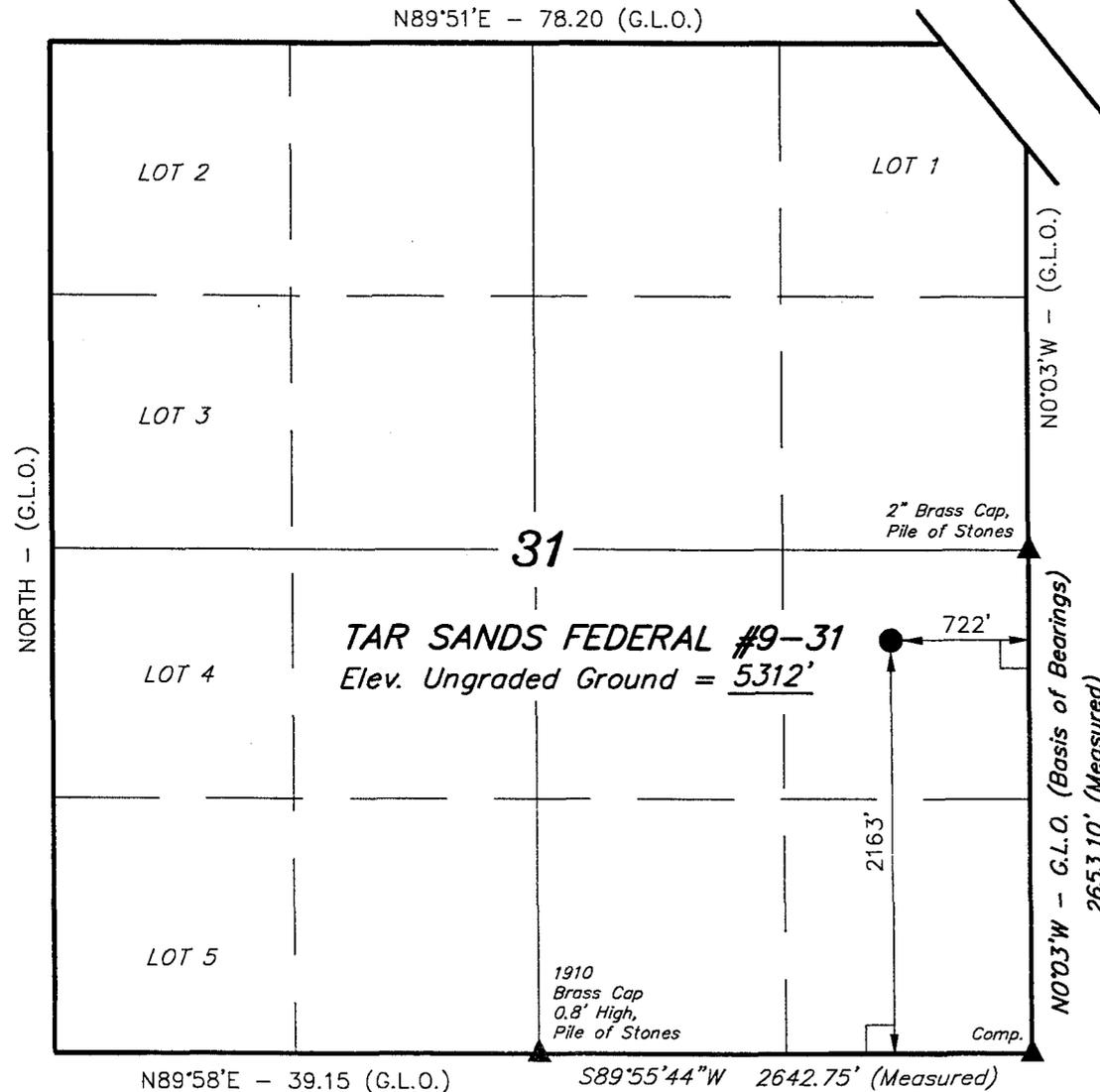
T8S, R17E, S.L.B.&M.

INLAND PRODUCTION CO.

Well location, TAR SANDS FEDERAL #9-31, located as shown in the NE 1/4 SE 1/4 of Section 31, T8S, R17E, S.L.B.&M. Duchesne County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 32, T8S, R17E, S.L.B.&M. TAKEN FROM THE MYTON SE 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 5255 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. Key*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161316  
 STATE OF UTAH

REVISED: 9-11-97 D.COX  
 REVISED: 8-22-97 D.COX

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

SCALE 1" = 1000'	DATE SURVEYED: 7-21-97	DATE DRAWN: 7-23-97
PARTY L.D.T. B.B. D.COX	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE INLAND PRODUCTION CO.	

LEGEND:

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

**Attachment "A"**

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

RE: Regulation Variance for continued drilling operations for Air Drilling with Union, Rig #7.

**Tar Sands Federal #9-31**  
**NE/SE Sec. 31, T8S, R17E**  
**Lease No. U-74869**

- (1) Inland Production Company requests that the mud type and program variance be granted for the following:

**MUD PROGRAM**

**MUD PROGRAM**

Surface - 320'  
320' - 4200'  
4200' - TD

**MUD TYPE**

Air  
Air/Mist & Foam  
The well will be drilled with fresh water through the Green River Formation @ 4200'  $\pm$ , 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.

- (2) Inland Production Company requests that a variance to regulations requiring a straight run blooie line. Inland proposes that the flowline will contain two (2) 90 degree turns.
- (3) Inland Production Company requests that 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'.

**Page 2**

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

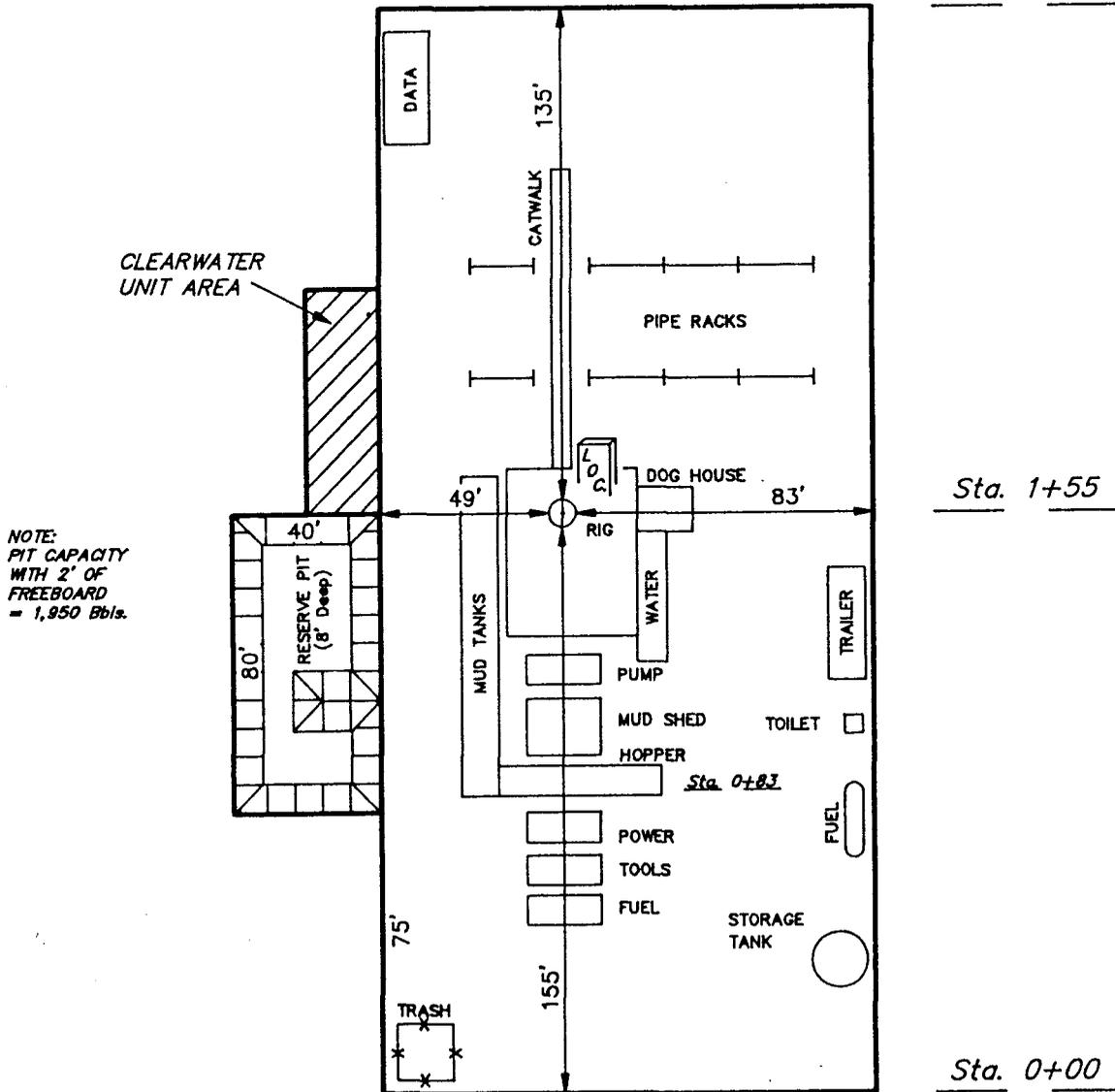
# INLAND PRODUCTION CO.

## LOCATION LAYOUT FOR

### UNION RIG

SCALE: 1" = 50'  
Date: 9-11-97

Sta. 2+90



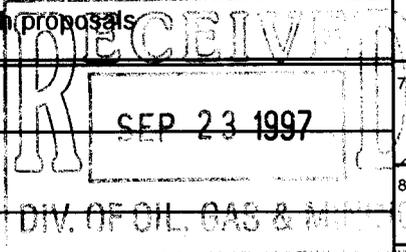
NOTE:  
PIT CAPACITY  
WITH 2' OF  
FREEBOARD  
= 1,950 Bbls.

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 deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE



1. Type of Well [X] 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) NE/SE Sec. 31, T8S, R17E

5. Lease Designation and Serial No. U-74869

6. If Indian, Allottee or Tribe Name

7. If unit or CA, Agreement Designation

8. Well Name and No. Tar Sands Federal #9-31

9. API Well No. 43-013-31616

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

Table with 2 columns: TYPE OF SUBMISSION and TYPE OF ACTION. Includes checkboxes for Notice of Intent, Subsequent Report, Final Abandonment Notice, Abandonment, Recompletion, Plugging Back, Casing repair, Altering Casing, Other (Weekly Status), Change of Plans, New Construction, Non-Routine Fracturing, Water Shut-off, Conversion to Injection, and Dispose Water.

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)

Drill 7 7/8" hole from 318' - 5950' w/ Union, Rig #7. Run 5 1/2" 15.5# J-55 csg to 5941'. Pump 20 BDW & 20 BG. Cmt w/ 295 sx Hibond 65 mod, 11.0 ppg, 3.0 cf/sk yield & 285 sx Thixo w/ 10% CalSeal, 14.2 ppg, 1.59 cf/sk yield. Good returns w/ esst 20 BDW. Rig released @ 3:30 pm 9/8/97. RDMOL.

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

Signed Cheryl Cameron Cheryl Cameron

Title Regulatory Compliance Specialist Date 9/12/97

(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

**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 deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No. <b>U-74869</b>
6. If Indian, Allottee or Tribe Name
7. If unit or CA, Agreement Designation
8. Well Name and No. <b>Tar Sands Federal #9-31</b>
9. API Well No. <b>43-013-31616</b>
10. Field and Pool, or Exploratory Area <b>Monument Butte</b>
11. County or Parish, State <b>Duchesne, UT</b>

**SUBMIT IN TRIPLICATE**

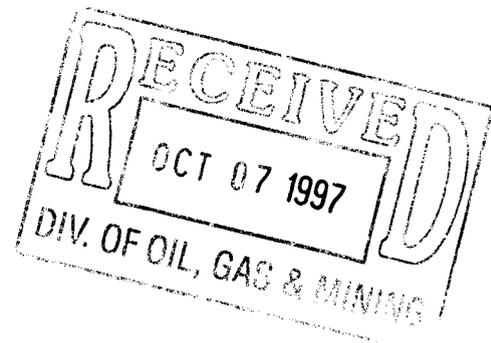
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas well <input type="checkbox"/> Other
2. Name of Operator <b>Inland Production Company</b>
3. Address and Telephone No. <b>P.O. Box 790233 Vernal, UT 84079    Phone No. (801) 789-1866</b>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>NE/SE Sec. 31, T8S, R17E</b>

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

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

**WEEKLY STATUS REPORT FOR WEEK OF 9/26/97 - 10/1/97:**

**Perf CP SD 5753'-59'**  
**Perf A sd 5298'-5300', 5304'-06', 5338'-41', 5387'-5402', 5405'-08'**  
**5410'-14', 5418'-20'**



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

Signed *Cheryl Cameron* Title Regulatory Compliance Specialist Date 10/3/97  
**Cheryl Cameron**

(This space of Federal or State office use.)

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

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**\*See Instruction on Reverse Side**

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE

1. Type of Well [X] 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) NE/SE Sec. 31, T8S, R17E

5. Lease Designation and Serial No. U-74869

6. If Indian, Allottee or Tribe Name

7. If unit or CA, Agreement Designation

8. Well Name and No. Tar Sands Federal #9-31

9. API Well No. 43-013-31616

10. Field and Pool, or Exploratory Area Monument Butte

11. County or Parish, State Duchesne, UT

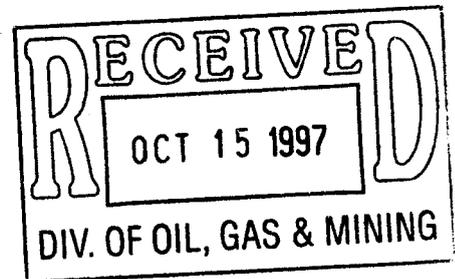
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

Table with 2 columns: TYPE OF SUBMISSION and TYPE OF ACTION. Includes checkboxes for Notice of Intent, Subsequent Report, Final Abandonment Notice, Abandonment, Recompletion, Plugging Back, Casing repair, Altering Casing, Other (Weekly Status), Change of Plans, New Construction, Non-Routine Fracturing, Water Shut-off, Conversion to Injection, and Dispose Water.

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 WEEK OF 10/2/97/97 - 10/9/97:

RIH w/ production string. On production @ 1:30 pm, 10/9/97.

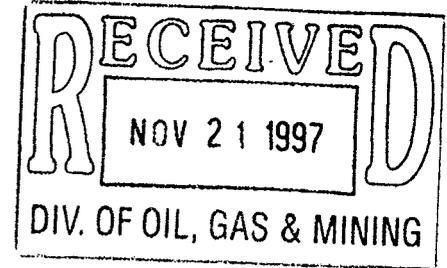


14. I hereby certify that the foregoing is true and correct. Signed Cheryl Cameron Title Regulatory Compliance Specialist Date 10/13/97

(This space of Federal or State office use.)

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

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November 19, 1997

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

Attn: Mr. Edwin I. Forsman

Re: Well Completion or Recompletion Report and Log (Form 3160-4)

Dear Mr. Forsman:

Enclosed are the above referenced documents for the Tar Sands Federal #13-29, Tar Sands Federal #9-31, N. Monument Butte Federal #9-27 and the Monument Butte Federal NE #4-26. A set of logs for each well (Item #26/#35) was sent under separate cover. If you should have any questions, please contact me at (303) 376-8107.

Sincerely,

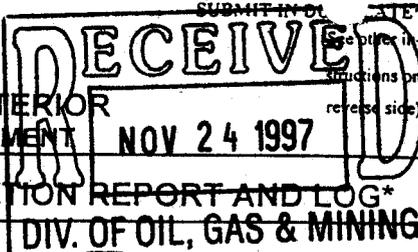
Laurie J. Horob  
Engineering Technician

43013 31616  
NESE  
DRL 0837E31

Enclosures

Cc: State of Utah, Division of Oil, Gas and Mining w/logs  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801  
Well File - Denver  
Well File - Roosevelt

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT



FORM APPROVED  
OMB NO. 1004-0137

Expires: February 28, 1995

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.

*475 Seventeenth Street, Suite 1500, Denver, CO 80202 (303) 292-0900*

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

At Surface

*NE/SE*

At top prod. Interval reported be

*2100 FSL 747 FEL  
2163 722 per Cheryl Cameron*

At total depth

14. PERMIT NO. *43-013-31616* DATE ISSUED *8/13/97*

5. LEASE DESIGNATION AND SERIAL NO.

*U-74869*

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

*TAR SANDS FEDERAL 9-31*

9. API WELL NO.

*43-013-31616*

10. FIELD AND POOL OR WILDCAT

*MONUMENT BUTTE*

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

*Section 31, T08S R17E*

15. DATE SPUNDED

*8/30/97*

16. DATE T.D. REACHED

*9/7/97*

17. DATE COMPL. (Ready to prod.)

*10/9/97*

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

*5310.3*

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

*5950'*

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

*5897'*

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

*----->*

ROTARY TOOLS

*X*

CABLE TOOLS

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

*Green River 4925' - 5759'*

25. WAS DIRECTIONAL SURVEY MADE

*No*

26. TYPE ELECTRIC AND OTHER LOGS RUN

*CBL, DIGL/SP/GR/CAL, SDL/DSN/GR 11-21-97*

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
<i>8 5/8</i>	<i>24#</i>	<i>299'</i>	<i>12 1/4</i>	<i>160 sx Prem Plus</i>	
<i>5 1/2</i>	<i>15.5#</i>	<i>5941'</i>	<i>7 7/8</i>	<i>295 sx Hibond &amp; 285 sx Thixo</i>	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					<i>2 7/8</i>	<i>5822'</i>	

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

*CP 5753'-59'*  
*A 5298'-5300', 5304-06', 5338'-41', 5387'-5402', 5405'-08', 5410'-14', 5418'-20'*  
*C 5048'-53' D 4925'-34', 4939'-44'*

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
<i>5753'-59'</i>	<i>95,900# 20/40 sd in 522 BG</i>
<i>5298'-5420'</i>	<i>127,200# 20/40 sd in 630 BG</i>
<i>4925'-5053'</i>	<i>104,300# 20/40 sd in 518 BG</i>

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)	WELL STATUS (Producing or shut-in)					
<i>10/9/97</i>	<i>Pumping - 2-1/2" x 1-1/2" x 12' x 15-1/2' RHAC pump</i>	<i>producing</i>					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
<i>10 Day Avg</i>	<i>10/97</i>	<i>N/A</i>	<i>→</i>	<i>131</i>	<i>127</i>	<i>10</i>	<i>0.969</i>
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)	
		<i>→</i>					

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

*[Signature]*

TITLE

*Engineering Technician*

DATE

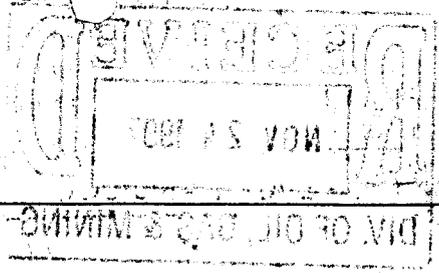
*11/19/97*

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

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

38. GEOLOGIC MARKERS

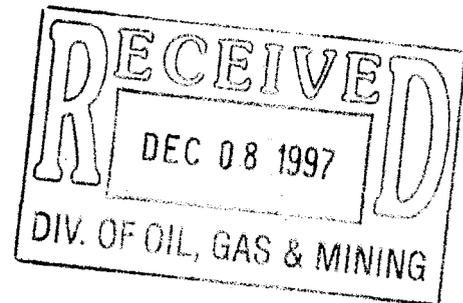
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	TOP	
				MEAS. DEPTH	TRUE VERT. DEPTH
Garden Gulch Mkr	4182'				
Point 3 Mkr	4452'				
X Mkr	4687'				
Y-Mkr	4724'				
Douglas Creek Mkr	4848'				
BiCarbonate Mkr	5085'				
B Limestone Mkr	5209'				
Castle Peak	5698'				





December 3, 1997

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



Attn: Mr. Edwin I. Forsman

Re: Well Completion or Recompletion Report and Log (Form 3160-4)

Dear Mr. Forsman:

Enclosed is the above referenced form **REVISED** for the Tar Sands Federal #9-31. The footages on the original form and APD had been revised per a subsequent sundry. A set of logs for the well were sent with the original filing. If you should have any questions, please contact me at (303) 376-8107.

Sincerely,

Laurie J. Horob  
Engineering Technician

Enclosures

Cc: State of Utah, Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801  
Well File - Denver  
Well File - Roosevelt

REVISED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.

U-74869

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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 \_\_\_\_\_

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

TAR SANDS FEDERAL 9-31

2. NAME OF OPERATOR

Inland Production Company

9. API WELL NO.

43-013-31616

3. ADDRESS AND TELEPHONE NO.

475 Seventeenth Street, Suite 1500, Denver, CO 80202 (303) 292-0900

10. FIELD AND POOL OR WILDCAT

MONUMENT BUTTE

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

At Surface

NE/SE

At top prod. Interval reported be

2163 FSL 722 FEL

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

Section 31, T08S R17E

At total depth

14. PERMIT NO.

43-013-31616

DATE ISSUED

8/13/97

12. COUNTY OR PARISH

DUCHESNE

13. STATE

UT

15. DATE SPUNDED

8/30/97

16. DATE T.D. REACHED

9/7/97

17. DATE COMPL. (Ready to prod.)

10/9/97

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

5310.3

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

5950'

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

5897'

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY ROTARY TOOLS

CABLE TOOLS

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

Green River 4925' - 5759'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

11-21-97

CBL, DIGL/SP/GR/CAL, SLD/DS/NGR

27. WAS WELL CORED

No

23. CASING RECORD (Report all strings off in MD)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP-OF-CEMENT, CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	299'	12 1/4	160 sx Prem Plus	
5 1/2	15.5#	5941'	7 7/8	295 sx Hibond & 285 sx Thixo	

29. LINER RECORD

30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8	5822'	

31. PERFORATION RECORD (Interval, size and number)

CP 5753'-59'  
A 5298'-5300', 5304-06', 5338'-41', 5387'-5402', 5405'-08',  
5410'-14', 5418'-20'  
C 5048'-53' D 4925'-34', 4939'-44'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5753'-59'	95,900# 20/40 sd in 522 BG
5298'-5420'	127,200# 20/40 sd in 630 BG
4925'-5053'	104,300# 20/40 sd in 518 BG

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)	WELL STATUS (Producing or shut-in)					
10/9/97	Pumping - 2-1/2" x 1-1/2" x 12' x 15-1/2' RHAC pump	producing					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
10 Day Avg	10/97	N/A	→	131	127	10	0.969
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

*Daniel J. Horak*

TITLE

Engineering Technician

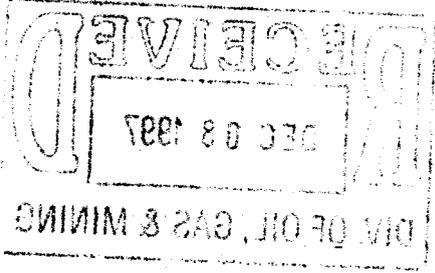
DATE

12/3/97

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

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

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	TOP	
				MEAS. DEPTH	TRUE VERT. DEPTH
Garden Gulch Mkr	4182'				
Point 3 Mkr	4452'				
X Mkr	4687'				
Y-Mkr	4724'				
Douglas Creek Mkr	4848'				
BiCarbonate Mkr	5085'				
B Limestone Mkr	5209'				
Castle Peak	5698'				



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)

FACSIMILE COVER SHEET

DATE: 01-09-98

NUMBER OF PAGES INCLUDING THIS COVER SHEET: 4

TO: KEBBIE JONES  
INLAND PRODUCTION COMPANY

FAX NUMBER: (801) 722-9149

FROM: LISHA CORDOVA  
DIVISION OF OIL GAS AND MINING

PHONE: (801) 538-5340  
 FAX: (801) 359-3940

SUBJECT: PLEASE REVIEW ENTITY ASSIGNMENTS FOR THE UNITS LISTED BELOW:  
ASHLEY, BOUNDARY, SAND WASH (GREEN RIVER) \*PLATS ATTACHED

REMARKS: IF YOU WOULD LIKE A "COMMON" ENTITY NUMBER ASSIGNED FOR  
REPORTING PURPOSES, PLEASE LET ME KNOW ASAP! ANY QUESTIONS, PLEASE  
CALL ME AT 538-5296. THANK YOU!

Should you encounter any problems with this copy, or do not receive all the pages, please call

Important: This message is intended for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this original message to us at the above address via regular postal service. Thank you.

OPERATOR INLAND PRODUCTION COMPANY

OPERATOR ACCT. NO. N 5160

ADDRESS \_\_\_\_\_

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D		12308									
WELL 1 COMMENTS: *SAND WASH (GREEN RIVER) UNIT EFF 12-01-97; ALL WELLS LISTED SHOULD BE GROUPED TOGETHER UNDER A COMMON ENTITY NUMBER AS PER OPERATOR REQUEST EFF 12-1-97. (SEE ATTACHED)											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

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

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

(3/89)

L. CORDOVA (DOGM)

Signature

ADMIN. ANALYST

3-11-98

Title

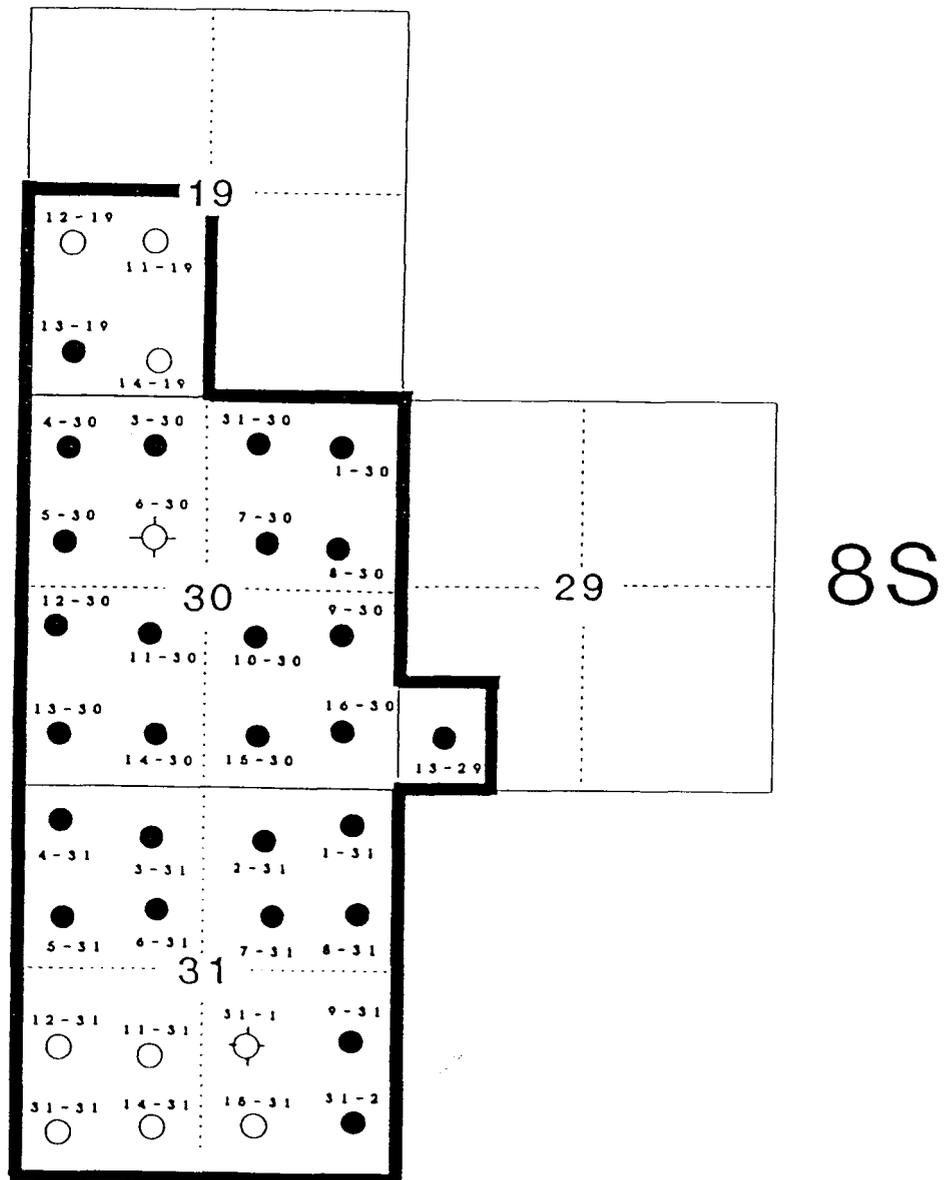
Date

Phone No. ( )

# SAND WASH (GREEN RIVER) UNIT

## Duchesne County, Utah

EFFECTIVE: DECEMBER 1, 1997



17E

— UNIT OUTLINE (UTU76788X)  
1,44' 06 ACRES

SECONDARY ALLOCATION	
FEDERAL FEE	96.94%
	3.06%

SANDWASH UNIT	WELL NAME & # W/ RANGE & TOWNSHIP	API NUMBER	
	TAR SANDS #13-29-8-17	43-013-31925	12218
	TAR SANDS #1-30-8-17	43-013-31898	12251
<i>Wildrose Resources</i>	<del>HARBOUR TOWN #31-30-8-17 (2-30)</del>	<del>43-013-31758</del>	<del>12097</del>
	TAR SANDS #3-30-8-17	43-013-31755	12045
	TAR SANDS #4-30-8-17	43-013-31621	11916
	TAR SANDS #5-30-8-17	43-013-31620	11958
	TAR SANDS #7-30-8-17	43-013-31807	12131
	TAR SANDS #8-30-8-17	43-013-31870	12141
	TAR SANDS #9-30-8-17	43-013-31873	12177
	TAR SANDS #10-30-8-17	43-013-31808	12126
	TAR SANDS #11-30-8-17	43-013-31732	12041
	TAR SANDS #12-30-8-17	43-013-31543	11945
	TAR SANDS #13-30-8-17	43-013-31637	11940
	TAR SANDS #15-30-8-17	43-013-31874	12164
	TAR SANDS #16-30-8-17	43-013-31708	12070
	TAR SANDS #1-31-8-17	43-013-31654	12012
	TAR SANDS #2-31-8-17	43-013-31866	12142
	TAR SANDS #3-31-8-17	43-013-31733	12162
	TAR SANDS #4-31-8-17	43-013-31606	11953
	TAR SANDS #5-31-8-17	43-013-31607	12140
	TAR SANDS #6-31-8-17	43-013-31686	12163
	TAR SANDS #7-31-8-17	43-013-31684	12149
	TAR SANDS #8-31-8-17	43-013-31615	11913
	TAR SANDS #9-31-8-17	43-013-31616	12220
<i>Wildrose Resources</i>	<del>GOVT #31-2-8-17 (16-31)</del>	<del>43-013-20082</del>	<del>06300</del>

*Dr. Liska*  
*From: Sebille*

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

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial No.  
**U-74869**

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

7. If Unit or CA, Agreement Designation  
**SAND WASH (GR RVR)**

8. Well Name and No.  
**TAR SANDS FEDERAL 9-31**

9. API Well No.  
**43-013-31616**

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)  
**2163 FSL 0722 FEL                      NE/SE Section 31, T08S R17E**

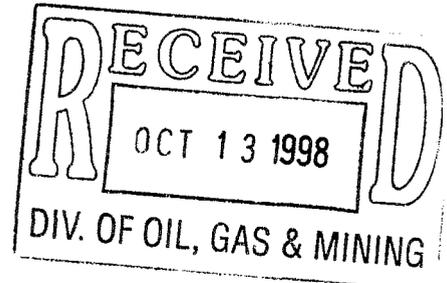
12. **CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <u>Site Security</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.)\*

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 10/8/98

(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

Tar Sands 9-31

NE/SE Sec. 31, T8S, 17E

Duchesne County

May 12, 1998

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

**Production Phase:**

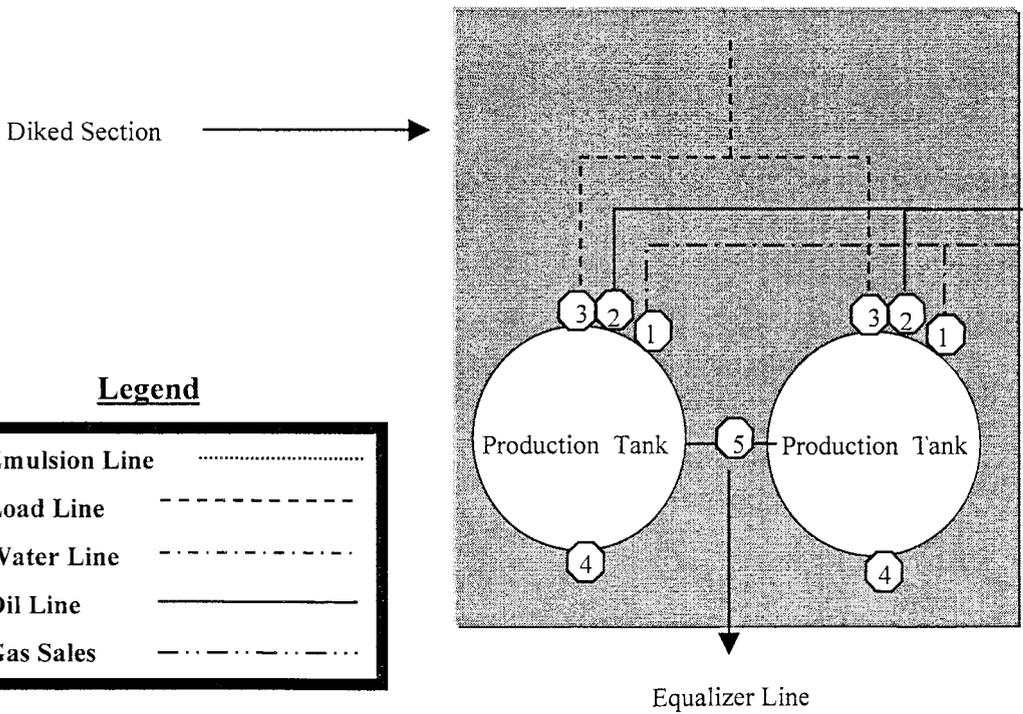
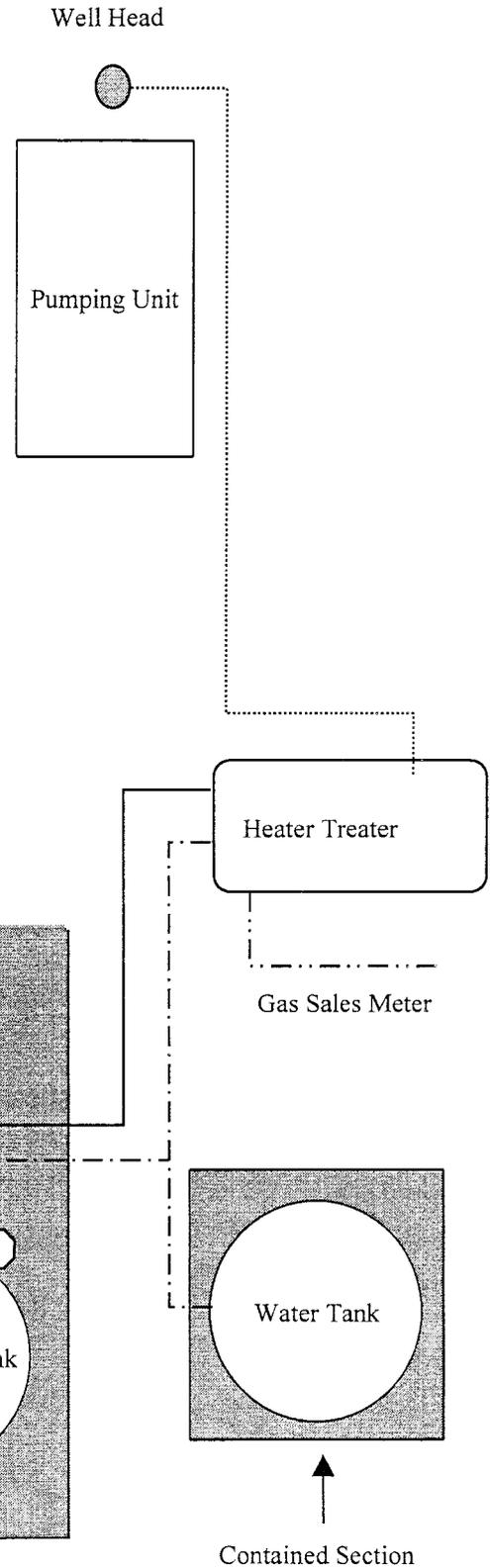
- 1) Valves 1, 3, 4 sealed closed
- 2) Valves 2 and 5 sealed open

**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	-.-.-.-



February 24, 2003

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  
Tar Sands Federal #9-31-8-17  
Monument Butte Field, Sand Wash Unit, Lease #U-74869  
Section 31-Township 8S-Range 17E  
Duchesne County, Utah

Dear Mr. Jarvis:

Inland Production Company herein requests approval to convert the Tar Sands Federal #9-31-8-17 from a producing oil well to a water injection well in the Monument Butte (Green River) Field, Sand Wash Unit.

We also request permission to add additional perforations between the Garden Gulch and Basal Limestone formations at that time. All work will be detailed in a Sundry Notice.

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,

David Gerbig  
Operations Engineer

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

**RECEIVED**

**MAR 06 2003**

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

**INLAND PRODUCTION COMPANY**

**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**

**TAR SANDS FEDERAL #9-31-8-17**

**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**

**SAND WASH UNIT**

**LEASE #U-74869**

**FEBRUARY 24, 2003**

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ATTACHMENT H-1	WELLBORE DIAGRAM OF PROPOSED PLUGGED WELL

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Inland Production Company  
ADDRESS 410 17th Street, Suite 700  
Denver, Colorado 80202

Well Name and number: Tar Sands Federal 9-31-8-17  
Field or Unit name: Monument Butte (Green River) Sand Wash Unit Lease No. U-74869  
Well Location: QQ NE/SE section 31 township 8S range 17E county Duchesne

Is this application for expansion of an existing project? . . . . . Yes [ X ] No [ ]  
Will the proposed well be used for: Enhanced Recovery? . . . . . Yes [ X ] No [ ]  
Disposal? . . . . . Yes [ ] No [ X ]  
Storage? . . . . . Yes [ ] No [ X ]  
Is this application for a new well to be drilled? . . . . . Yes [ ] No [ X ]  
If this application is for an existing well,  
has a casing test been performed on the well? . . . . . Yes [ ] No [ X ]  
Date of test: \_\_\_\_\_  
API number: 43-013-31616

Proposed injection interval: from 4182' to 5942'  
Proposed maximum injection: rate 500 bpd pressure 1785 psig  
Proposed injection zone contains [x] oil, [ ] gas, and/or [ ] fresh water within 1/2  
mile of the well.

**IMPORTANT:** Additional information as required by R615-5-2 should accompany this form.

List of Attachments: Attachments "A" through "H-1"

I certify that this report is true and complete to the best of my knowledge.

Name: David Gerbig Signature *David Gerbig*  
Title: Operations Engineer Date 3-3-03  
Phone No. (303)893-0102

(State use only)  
Application approved by \_\_\_\_\_ Title \_\_\_\_\_  
Approval Date \_\_\_\_\_

Comments:

# Tar Sands Federal #9-31-8-17

Spud Date: 8/30/97  
 Put on Production: 10/9/97  
 GL: 5312' KB: 5322'

Initial Production: 131 BOPD,  
 127 MCFPD, 10 BWPD

Proposed Injection  
 Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (289')  
 DEPTH LANDED: 299' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 140 sxs Premium cmt, est 8 bbls cmt to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 147 jts. (5931')  
 DEPTH LANDED: 5942' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 295 sk HiBond mixed & 285 sxs thixotropic  
 CEMENT TOP AT: Surface

**TUBING**

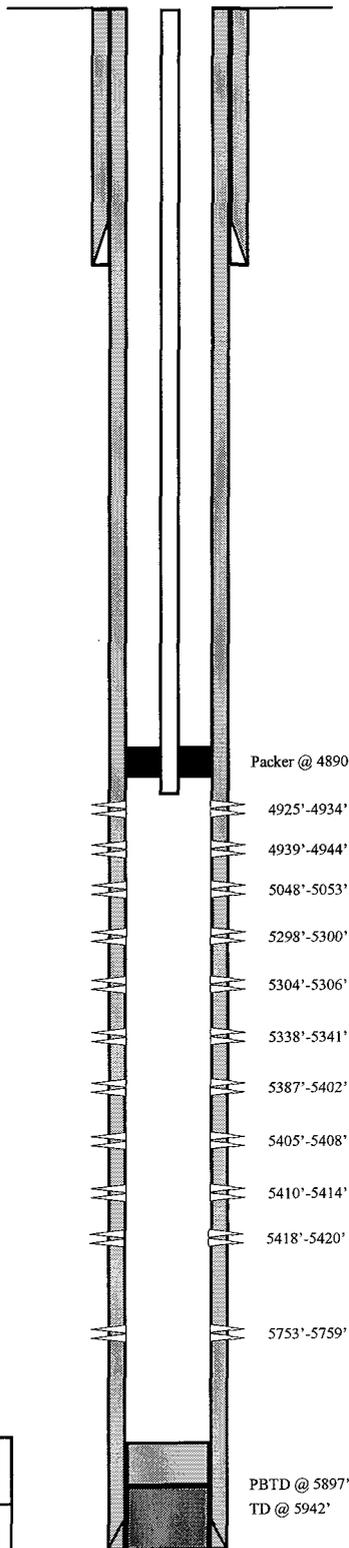
SIZE/GRADE/WT.: 2-7/8"/M-50/6.5#.  
 NO. OF JOINTS: 156 jts.  
 SEATING NIPPLE: 2-7/8"  
 SN LANDED AT: 4860' KB  
 PACKER @ 4864' KB  
 TOTAL STRING LENGTH: EOT @ 4865' KB

**FRAC JOB**

10/1/97 5753'-5759' **Frac CP sand as follows:**  
 95,900# of 20/40 sand in 522 bbls of Boragel. Perfs Broke down @ 3650 psi. Treated @ avg press of 1700 psi w/avg rate of 26 bpm. ISIP-1812 psi, 5-min 1727 psi. Flowback on 12/64" ck for 3 hours and died.

10/3/97 5298'-5420' **Frac A sand as follows:**  
 127,200# of sand in 634 bbls of Boragel. Perfs brokedown @ 3084 psi. Treated @ avg press of 1500 psi w/avg rate of 42.2 bpm. ISIP-1796 psi, 5-min 1765 psi. Flowback on 12/64" ck for 3-1/2 hours and died.

10/5/97 4925'-5053' **Frac C/D sands as follows:**  
 104,300# of 20/40 sand in 518 bbls of Boragel. Perfs brokedown @ 2388 psi. Treated @ avg press of 2560 psi w/avg rate of 30 bpm. ISIP-3432 psi, 5-min 3367 psi. Flowback on 12/64" ck for 2-1/2 hours and died.



**PERFORATION RECORD**

Date	Interval	Tool	Holes
9/30/97	5753'-5759'	4 JSPF	24 holes
10/2/97	5298'-5300'	4 JSPF	8 holes
10/2/97	5304'-5306'	4 JSPF	8 holes
10/2/97	5338'-5341'	4 JSPF	12 holes
10/2/97	5387'-5402'	4 JSPF	60 holes
10/2/97	5405'-5408'	4 JSPF	12 holes
10/2/97	5410'-5414'	4 JSPF	16 holes
10/2/97	5418'-5420'	4 JSPF	8 holes
10/4/97	4925'-4934'	4 JSPF	36 holes
10/4/97	4939'-4944'	4 JSPF	20 holes
10/4/97	5048'-5053'	4 JSPF	20 holes

**Inland Resources Inc.**

**Tar Sands Federal #9-31-8-17**

2168 FSL & 741 FEL  
 NESE Section 31-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-31616; Lease #U-74869

## 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.**

Inland Production Company  
410 17<sup>th</sup> Street, Suite 700  
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 Tar Sands Federal #9-31-8-17 from a producing oil well to a water injection well in Monument Butte (Green River) Field, Sand Wash Unit.

**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. In the Tar Sands Federal #9-31-8-17 well, the proposed injection zone is from Garden Gulch to Basal Limestone (4182' - 5942'). We may add additional perfs to those already existing; any additional perfs will be detailed in a Sundry Notice at that time. The confining strata directly above and below the injection zones are the Garden Gulch and Castle Peak Members of the Green River Formation, with the Garden Gulch Marker top at 4182' and the Castle Peak top at 5698'.

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

The referenced log for the Tar Sands Federal #9-31-8-17 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 from the Johnson Water District supply line. The secondary type of fluid to be used for injection will be culinary water from the Johnson Water District 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.**

Inland 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 #U-74869) in the Monument Butte (Green River) Field, Sand Wash Unit, 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#, J-55 surface casing run to 299' GL, and 5-1/2" 15.5# J-55 casing run from surface to 5942' 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 from the Johnson Water District supply line. The secondary type of fluid to be used for injection will be culinary water from the Johnson Water District 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 1785 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 Tar Sands Federal #9-31-8-17, for existing perforations (4925' - 5759') calculates at 0.77 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 1785 psig. At the time of conversion, we may add additional perforations between 4182' and 5942', and will detail the work performed in a Sundry Notice. 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 Tar Sands Federal #9-31-8-17, the proposed injection zone (4182' - 5942') is in the Garden Gulch to Basal limestone members 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 Field. Outside the Monument Butte 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-16.

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.**

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

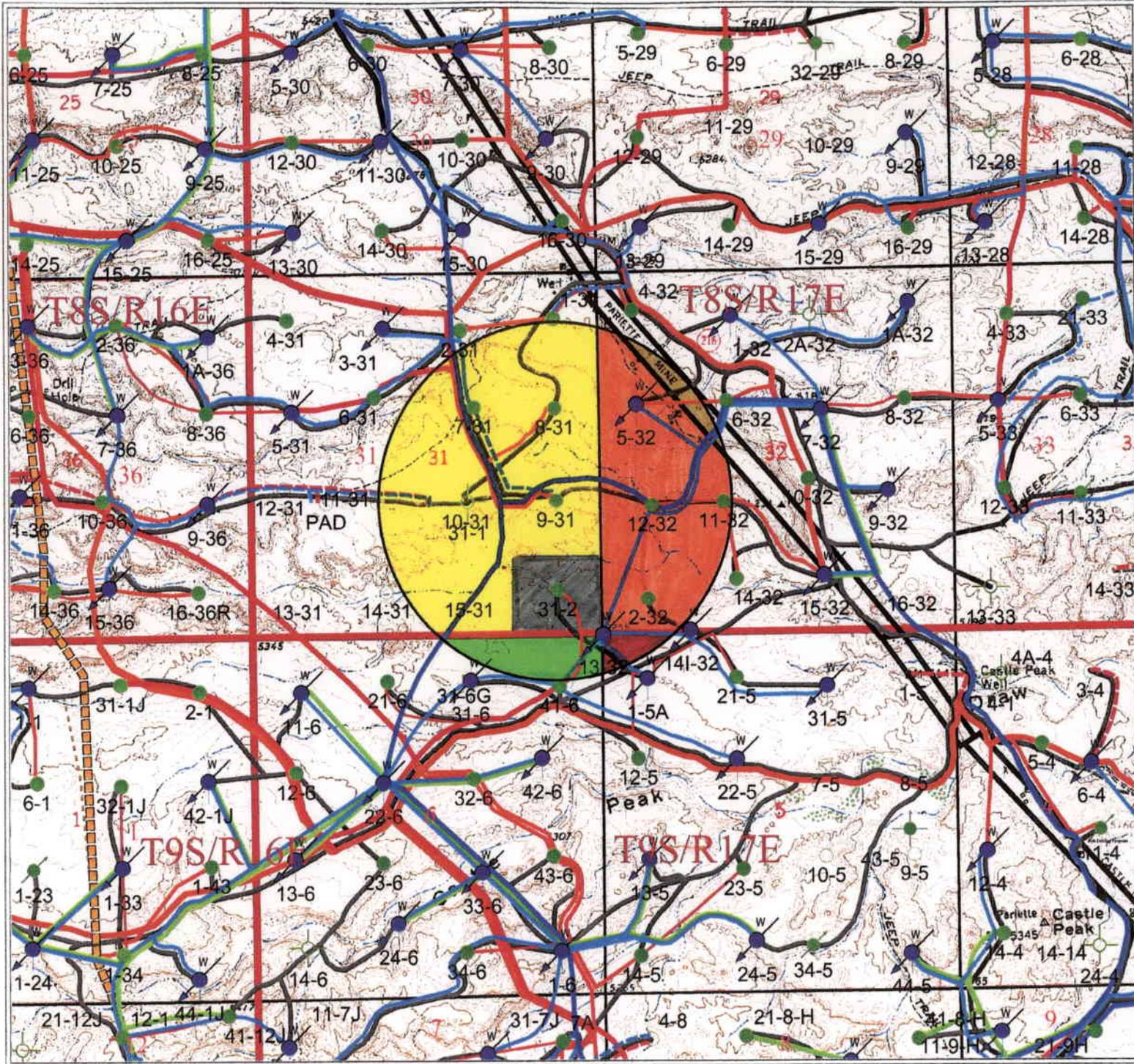
# Attachment A

## Well Status

- POW
- ☀ PGW
- W ● WW
- LOC
- ⊕ DRY
- PA
- SI
- W ● WSW
- ⊙ WOC

U-74869  
 ML-22060  
 U-020433  
 U-020252-A  
 U-020252

AMERICAN  
 Gilsonite



Tar Sands Fed. 9-31-8-17  
 Sec 31, T8S-R17E



410 17<sup>th</sup> Street Suite 700  
 Denver, Colorado 80202  
 Phone: (303) 693 0102

**1/4 Mile Radius Map**  
 UINTA BASIN, UTAH  
 Duchesne & Uintah Counties, Utah

February 6, 2003 D. C. Chapin

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

Attachment A-1

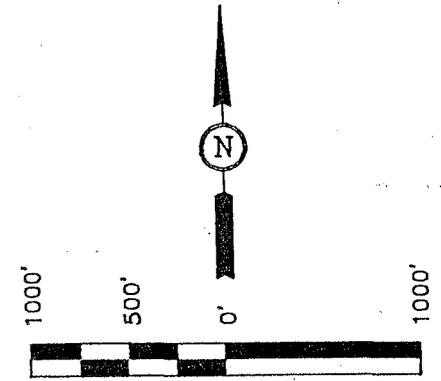
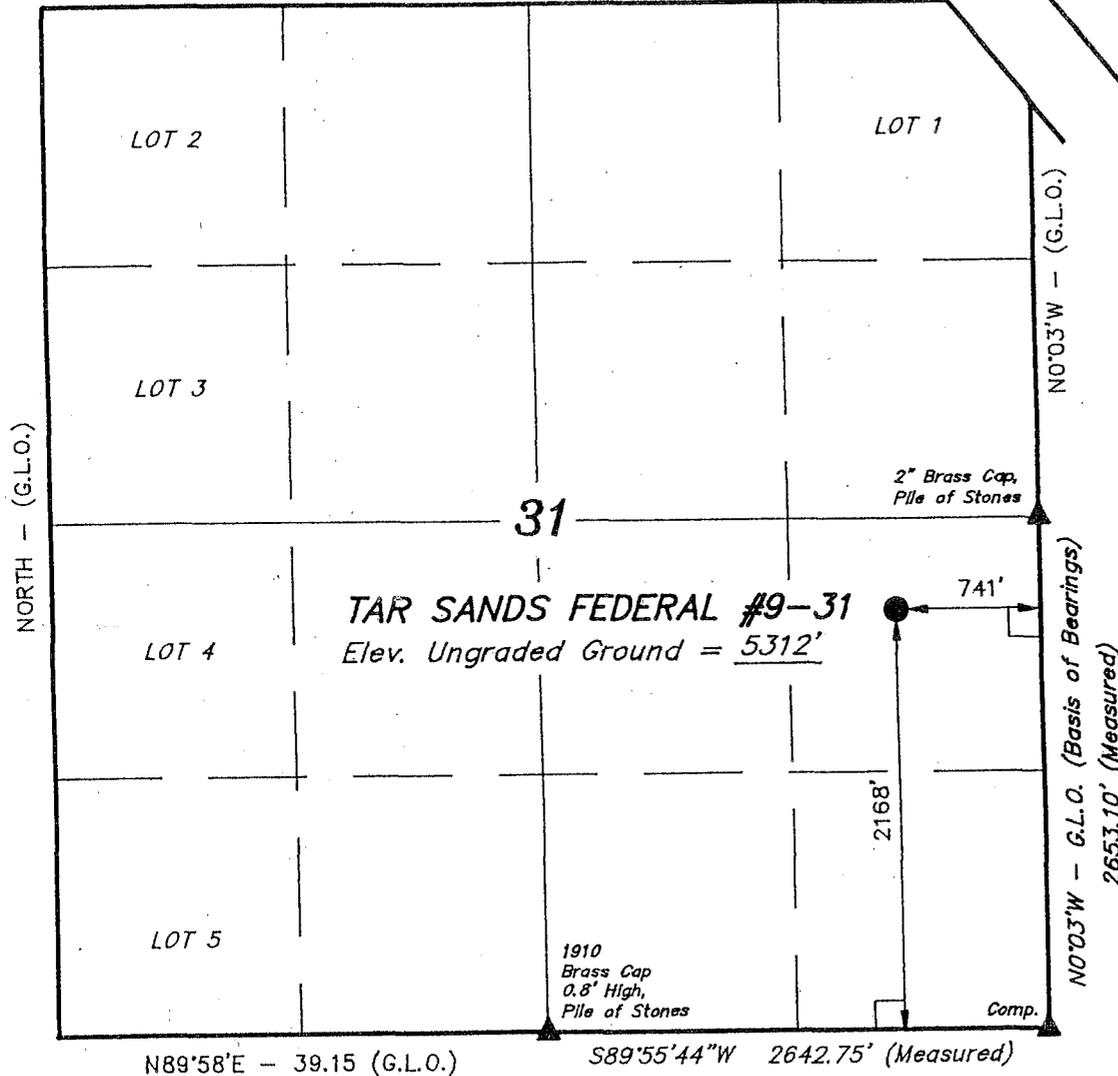
N89°51'E - 78.20 (G.L.O.)

INLAND PRODUCTION CO.

Well location, TAR SANDS FEDERAL #9-31, located as shown in the NE 1/4 SE 1/4 of Section 31, T8S, R17E, S.L.B.&M. Duchesne County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 32, T8S, R17E, S.L.B.&M. TAKEN FROM THE MYTON SE 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 5255 FEET.



SCALE

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. Kay*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (801) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 7-21-97	DATE DRAWN: 7-23-97
PARTY L.D.T. B.B. D.COX		REFERENCES G.L.O. PLAT
WEATHER COOL		FILE INLAND PRODUCTION CO.

LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

RECEIVED JUL 31 1997

# EXHIBIT B

Page 1

#	Land Description	Minerals Ownership & Expiration	Minerals Leased By	Surface Rights
1	<u>Township 8 South, Range 17 East</u> Section 29: Lot 1 Section 30: Lots 1-14, E/2NE, E/2SW, SWSE Section 31: Lots 1-5, W/2E/2, SENE, E/2W/2, NESE	UTU-74869 HBP	Inland Production Company	USA
2	<u>Township 8 South, Range 17 East</u> Section 31: SESE	U-020433 HBP	Carol Bibler Leslie J. Breaux Carl B. Field Montana & Wyoming Oil Larry Simpson Vaughey & Vaughey John Warne Bonnie B. Warne WRC 91 LTD. Wildrose Resources	USA
3	<u>Township 9 South, Range 16 East</u> Section 5: Lots 4 & 5, S/2NW, SW	U-020252 HBP	Inland Production Company	USA
4	<u>Township 8 South, Range 17 East</u> Section 32: Lots 1-22, NE, NENW, NWSW, S/2SW NESE	ML-22060 HBP	Inland Production Company Key Production Company Inc. Goldrus Drilling	State of Utah
5	<u>Township 9 South, Range 16 East</u> Section 6: Lots 1-7, S2NE, SENW, E2SW, SE	U-020252-A HBP	Inland Production Company	USA
6	<u>Township 8 South, Range 17 East</u> Section 32: Lots 37, 38, 39 & 40	American Gilsonite Company	Inland Production Company	

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Tar Sands Federal #9-31-8-17

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: David Gerbig  
Inland Production Company  
David Gerbig  
Operations Engineer

Sworn to and subscribed before me this 3rd day of March, 2003.

Notary Public in and for the State of Colorado: [Signature]

My Commission Expires: 8/29/05

# Tar Sands Federal #9-31-8-17

Spud Date: 8/30/97  
 Put on Production: 10/9/97  
 GL: 5312' KB: 5322'

Initial Production: 131 BOPD,  
 127 MCFPD, 10 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (289')  
 DEPTH LANDED: 299' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 140 sxs Premium cmt, est 8 bbls cmt to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 147 jts. (5931')  
 DEPTH LANDED: 5942' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 295 sk HiBond mixed & 285 sxs thixotropic  
 CEMENT TOP AT: Surface

**TUBING**

SIZE/GRADE/WT.: 2-7/8"/M-50/6.5#  
 NO. OF JOINTS: 183 jts. (5705.02')  
 TUBING ANCHOR: 5715.02' KB  
 NO. OF JOINTS: 1 jts. (31.40')  
 SEATING NIPPLE: 2-7/8"  
 SN LANDED AT: 5749.27' KB  
 NO. OF JOINTS: 1 jts. (31.25')  
 TOTAL STRING LENGTH: EOT @ 5782.07' KB

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' polished rod.  
 SUCKER RODS: 6-1 1/2" wt rods, 14-3/4" scraper rods, 111-3/4" plain rods,  
 97-3/4" scraper rods, 1-2", 2-8" x 3/4" pony rods.  
 PUMP SIZE: 2-1/2 x 1-1/2 x 12' x 16" RHAC pump  
 STROKE LENGTH: 56"  
 PUMP SPEED, SPM: 6 SPM  
 LOGS: DIGL/SP/GR/CAL (5948'-318')  
 SDL/DSN/GR (5902'-3000')

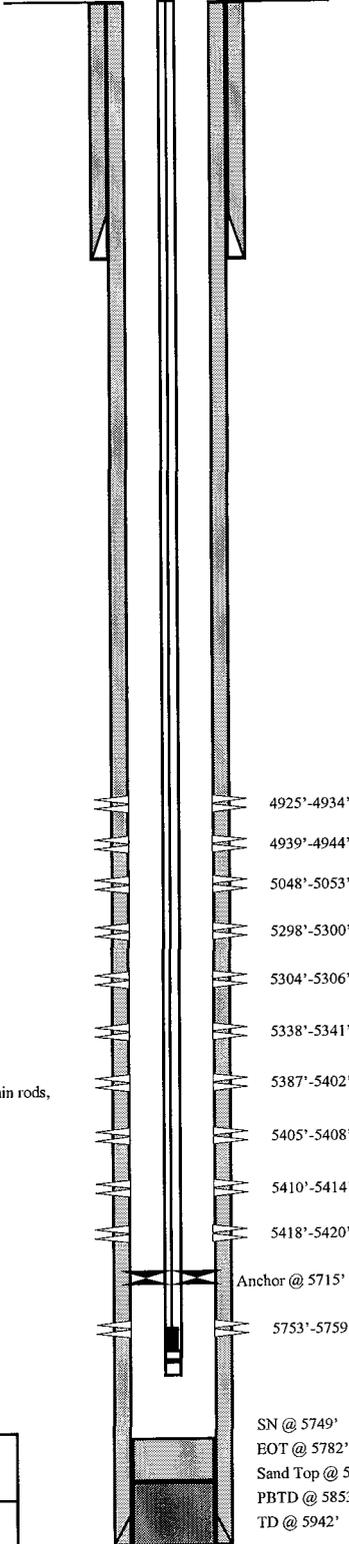
**FRAC JOB**

10/1/97 5753'-5759' **Frac CP sand as follows:**  
 95,900# of 20/40 sand in 522 bbls of Boragel. Perfs Broke down @ 3650 psi. Treated @ avg press of 1700 psi w/avg rate of 26 bpm. ISIP-1812 psi, 5-min 1727 psi. Flowback on 12/64" ck for 3 hours and died.

10/3/97 5298'-5420' **Frac A sand as follows:**  
 127,200# of sand in 634 bbls of Boragel. Perfs brokedown @ 3084 psi. Treated @ avg press of 1500 psi w/avg rate of 42.2 bpm. ISIP-1796 psi, 5-min 1765 psi. Flowback on 12/64" ck for 3-1/2 hours and died.

10/5/97 4925'-5053' **Frac C/D sands as follows:**  
 104,300# of 20/40 sand in 518 bbls of Boragel. Perfs brokedown @ 2388 psi. Treated @ avg press of 2560 psi w/avg rate of 30 bpm. ISIP-3432 psi, 5-min 3367 psi. Flowback on 12/64" ck for 2-1/2 hours and died.

5/06/02  
 Rod job. Update rod details.



**PERFORATION RECORD**

Date	Interval	Tool	Holes
9/30/97	5753'-5759'	4 JSPF	24 holes
10/2/97	5298'-5300'	4 JSPF	8 holes
10/2/97	5304'-5306'	4 JSPF	8 holes
10/2/97	5338'-5341'	4 JSPF	12 holes
10/2/97	5387'-5402'	4 JSPF	60 holes
10/2/97	5405'-5408'	4 JSPF	12 holes
10/2/97	5410'-5414'	4 JSPF	16 holes
10/2/97	5418'-5420'	4 JSPF	8 holes
10/4/97	4925'-4934'	4 JSPF	36 holes
10/4/97	4939'-4944'	4 JSPF	20 holes
10/4/97	5048'-5053'	4 JSPF	20 holes



**Inland Resources Inc.**

**Tar Sands Federal #9-31-8-17**

2168 FSL & 741 FEL  
 NESE Section 31-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-31616; Lease #U-74869

# Tar Sands Federal #1-31

Spud Date: 10/4/96  
 Put on Production: 10/28/96  
 GL: 5250' KB: 5263'

Initial Production: 147 BOPD,  
 170 MCFPD, 5 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (284.88')  
 DEPTH LANDED: 284.68' GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 120 sxs Type V cmt, est 9 bbls to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 100 jts. (6047.84')  
 DEPTH LANDED: 6033.34' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 390 sk Hibond mixed & 350 sxs thixotropic  
 CEMENT TOP AT: 638' per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
 NO. OF JOINTS: 183 jts  
 TUBING ANCHOR: 5628'  
 SEATING NIPPLE: 2-7/8" (1.10')  
 TOTAL STRING LENGTH: (EOT @ 5732')  
 SN LANDED AT: 5662'

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 8-1" scraped, 4-3/4" guided rods, 120-3/4" plain rods, 94-3/4" scraped  
 PUMP SIZE: 2-1/2" x 1-1/2" x 12 x 16' RHAC rod pump  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 7 SPM  
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

**FRAC JOB**

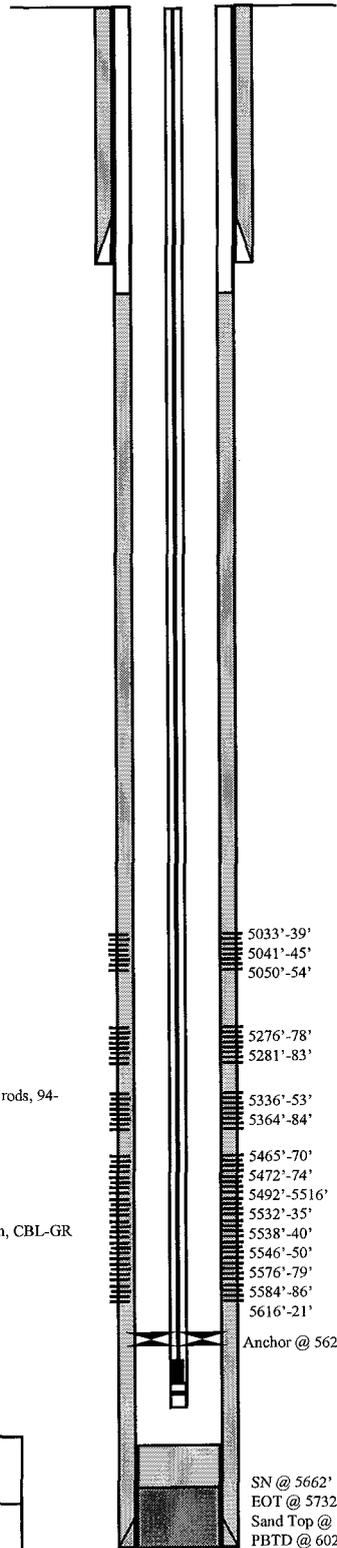
10/18/96 5465'-5621' **Frac LDC sand as follows:**  
 119,800# of 20/40 sand in 642 bbls of Delta Frac fluid. Breakdown @ 2830 psi. Treated @ avg rate of 40 bpm w/avg press of 1700 psi. ISIP-1661 psi, 5-min 1507 psi. Flowback on 12/64" ck for 1-1/2 hours and died.

10/21/96 5276'-5384' **Frac A-1 & A-3 sands as follows:**  
 103,700# of 20/40 sand in 525 bbls of Delta Frac fluid. Breakdown @ 2200 psi. Treated @ avg rate of 30.7 bpm w/avg press of 1600 psi. ISIP-1941 psi, 5-min 1573 psi. Flowback on 12/64" ck for 1-1/2 hours and died.

10/23/96 5033'-5054' **Frac C sand as follows:**  
 92,800# of 20/40 sand in 480 bbls of Delta Frac fluid. Breakdown @ 1510 psi. Treated @ avg rate of 21 bpm w/avg press of 1600 psi. ISIP-3916 psi, 5-min 2623 psi. Flowback on 12/64" ck for 2 hours and died.

**PERFORATION RECORD**

10/18/96	5465'-5470'	2 JSPF	10 holes
10/18/96	5472'-5474'	2 JSPF	4 holes
10/18/96	5492'-5516'	2 JSPF	48 holes
10/18/96	5532'-5535'	2 JSPF	6 holes
10/18/96	5538'-5540'	2 JSPF	4 holes
10/18/96	5546'-5550'	2 JSPF	8 holes
10/18/96	5576'-5579'	2 JSPF	6 holes
10/18/96	5584'-5586'	2 JSPF	4 holes
10/18/96	5616'-5621'	2 JSPF	10 holes
10/19/96	5276'-5278'	4 JSPF	8 holes
10/19/96	5281'-5283'	4 JSPF	8 holes
10/19/96	5336'-5353'	2 JSPF	34 holes
10/19/96	5364'-5384'	2 JSPF	40 holes
10/22/96	5033'-5039'	4 JSPF	24 holes
10/22/96	5041'-5045'	4 JSPF	16 holes
10/22/96	5050'-5054'	4 JSPF	16 holes





**Inland Resources Inc.**

**Tar Sands Federal #1-31**

639 FEL 706 FNL  
 NENE Section 31-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-31654; Lease #U-74869

# Tar Sands Federal #2-31-8-17

Spud Date: 6/23/97  
 Put on Production: 7/31/97  
 GL: 5262' KB: 5275'

Initial Production: 130 BOPD,  
 164 MCFPD, 6 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (302.54')  
 DEPTH LANDED: 300.05' GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 155 sxs Premium cmt, est 8 bbls to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 145 jts. (6046.34')  
 DEPTH LANDED: 6024.81' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 350 sxs Hibond mixed & 270 sxs thixotropic  
 CEMENT TOP AT: NA per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / M -50 / 6.5#  
 NO. OF JOINTS: 184 jts (5742.86')  
 TUBING ANCHOR: 5755' KB  
 NO. OF JOINTS: 2 jts (62.54')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5820' KB  
 NO. OF JOINTS: 2 jts (62.48')  
 TOTAL STRING LENGTH: EOT @ 5884.21' KB

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 6- 1 1/2" wt rods, 25-3/4" scraper rods, 106-3/4" plain rods, 95-3/4" scraper rods.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16 RHAC rod pump  
 STROKE LENGTH: 43"  
 PUMP SPEED, SPM: 5 SPM  
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

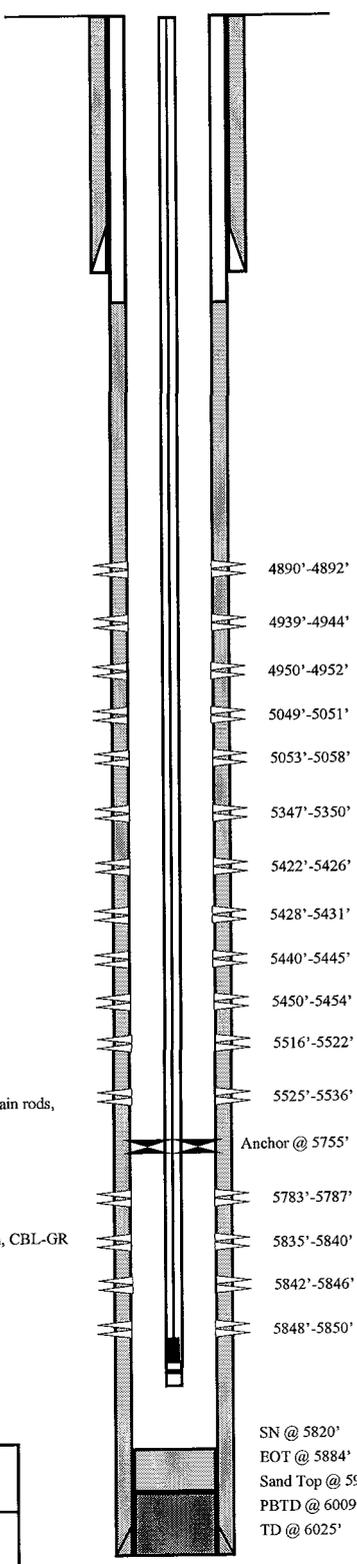
**FRAC JOB**

7/22/97 5783'-5850' **Frac CP sand as follows:**  
 96,200# of 20/40 sand in 506 bbls of Boragel. Breakdown @ 2121 psi. Treated @ avg rate of 26.3 bpm w/avg press of 1760 psi. ISIP-1972 psi, 5-min 1878 psi. Flowback on 12/64" ck for 4 hours and died.

7/25/97 5347'-5536' **Frac A sands as follows:**  
 154,300# of 20/40 sand in 708 bbls of Boragel. Breakdown @ 2212 psi. Treated @ avg rate of 40.5 bpm w/avg press of 2000 psi. ISIP-2115 psi, 5-min 1892 psi. Flowback on 12/64" ck for 4 - 1/2 hours and died.

7/27/97 4890'-5058' **Frac D/C sands as follows:**  
 151,800# of 20/40 sand in 692 bbls of Boragel. Breakdown @ 2116 psi. Treated @ avg rate of 33.3 bpm w/avg press of 2350 psi. ISIP-2654 psi, 5-min 2559 psi. Flowback on 12/64" ck for 4 hours and died.

4/30/02 Rod job. Update rod and tubing details.



**PERFORATION RECORD**

Date	Depth Range	Tool	Holes
7/21/97	5783'-5787'	4 JSPF	16 holes
7/21/97	5835'-5840'	4 JSPF	20 holes
7/21/97	5842'-5846'	4 JSPF	16 holes
7/21/97	5848'-5850'	4 JSPF	8 holes
7/23/97	5347'-5350'	4 JSPF	12 holes
7/23/97	5422'-5426'	4 JSPF	16 holes
7/23/97	5428'-5431'	4 JSPF	16 holes
7/23/97	5440'-5445'	4 JSPF	20 holes
7/23/97	5450'-5454'	4 JSPF	16 holes
7/23/97	5516'-5522'	4 JSPF	24 holes
7/23/97	5525'-5536'	4 JSPF	44 holes
7/25/97	4890'-4892'	4 JSPF	8 holes
7/25/97	4939'-4944'	4 JSPF	20 holes
7/25/97	4950'-4952'	4 JSPF	8 holes
7/25/97	5049'-5051'	4 JSPF	8 holes
7/25/97	5053'-5058'	4 JSPF	20 holes



**Inland Resources Inc.**  
**Tar Sands Federal #2-31-8-17**  
 2048 FEL & 814 FNL  
 NENE Section 31-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-31866; Lease #U-74869

# Tar Sands Federal #7-31-8-17

Spud Date: 7/2/97  
 Put on Production: 7/31/97  
 GL: 5298' KB: 5310'

Initial Production: 247 BOPD,  
 240 MCFPD, 16 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (302.65')  
 DEPTH LANDED: 312'KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 120 sxs Premium cmt, est 6 bbls cmt to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 146 jts. (6180.51')  
 DEPTH LANDED: 6164.75'KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 360 sk HiBond mixed & 340 sxs thixotropic  
 CEMENT TOP AT: 1305' per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8"/M-50/6.5#.  
 NO. OF JOINTS: 182 jts. (5640.51')  
 TUBING ANCHOR: 5652.51'KB  
 NO. OF JOINTS: 1 jt. (30.95')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5686.27'KB  
 NO. OF JOINTS: 1 jt. (31.25') PBGA jt.  
 NO. OF JOINTS: 3 jt. (92.94')  
 TOTAL STRING LENGTH: EOT @ 5812.36'KB

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' polished rod.  
 SUCKER RODS: 4-1 1/2" Wt rods, 6-3/4" guided rods, 103-3/4" plain rods,  
 113-3/4" scraper rods, 1-8", 1-6", 1-4", 1-2" x 3/4" pony rods.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 15-1/2" RHAC pump  
 STROKE LENGTH: 74"  
 PUMP SPEED, SPM: 6 SPM  
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR  
 Fish Top @ 6010' KB  
 Fish is 29.90' of jt of 2-7/8" 6.5# tgb(no collar), 2-7/8" notched collar(.45')  
 Total length: 30.35'

**FRAC JOB**

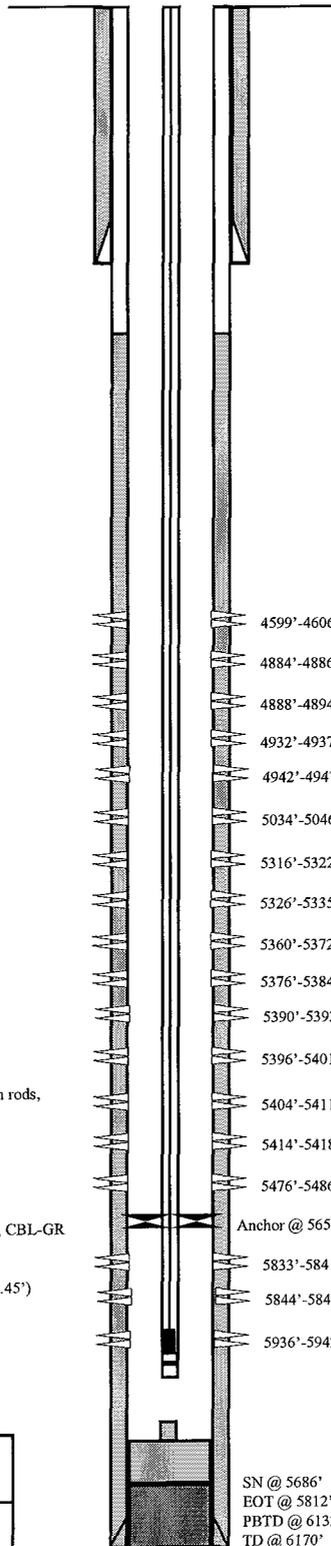
7/18/97 5833'-5942' **Frac CP-2 & CP-3 sands as follows:**  
 96,000# of 20/40 sand in 519 bbls of Boragel.  
 Treated @ avg press of 1300 psi w/avg rate of  
 26.5 bpm. ISIP-1835 psi. Calc. flush: 5833  
 gal. Actual flush: 5762 gal.

7/21/97 5316'-5486' **Frac A-3 sands as follows:**  
 149,200# of 20/40 sand in 694 bbls of  
 Boragel. Treated @ avg press of 1550 psi  
 w/avg rate of 45 bpm. ISIP-1958 psi. Calc.  
 flush: 5316 gal. Actual flush: 5238 gal.

7/23/97 4884'-5046' **Frac D-1, D-2 & C sands as follows:**  
 137,700# of 20/40 sand in 650 bbls of  
 Boragel. Treated @ avg press of 2200 psi  
 w/avg rate of 36 bpm. ISIP-3204 psi. Calc.  
 flush: 4884 gal. Actual flush: 54796 gal.

7/24/97 4599'-4606' **Frac PB-10 sands as follows:**  
 73,600# of 20/40 sand in 398 bbls of  
 Boragel. Treated @ avg press of 2231 w/avg  
 rate of 22.2 bpm. ISIP-3206 psi. Calc. flush:  
 4599 gal. Actual flush: 4480 gal.

6/12/99 Pump change.  
 12/13/00 Pump change. Updated rod and tubing details.



**PERFORATION RECORD**

Date	Depth Range	Completion	Holes
7/17/97	5833'-5841'	4 JSPF	32 holes
7/17/97	5844'-5846'	4 JSPF	8 holes
7/17/97	5936'-5942'	4 JSPF	24 holes
7/19/97	5316'-5322'	2 JSPF	12 holes
7/19/97	5326'-5335'	2 JSPF	18 holes
7/19/97	5360'-5372'	2 JSPF	24 holes
7/19/97	5376'-5384'	2 JSPF	16 holes
7/19/97	5390'-5392'	2 JSPF	4 holes
7/19/97	5396'-5401'	2 JSPF	10 holes
7/19/97	5404'-5411'	2 JSPF	14 holes
7/19/97	5414'-5418'	2 JSPF	8 holes
7/19/97	5476'-5486'	2 JSPF	20 holes
7/22/97	4884'-4886'	4 JSPF	8 holes
7/22/97	4888'-4894'	4 JSPF	24 holes
7/22/97	4932'-4937'	4 JSPF	20 holes
7/22/97	4942'-4947'	4 JSPF	20 holes
7/22/97	5034'-5046'	4 JSPF	48 holes
7/24/97	4599'-4606'	4 JSPF	28 holes

SN @ 5686'  
 EOT @ 5812'  
 PBTB @ 6132'  
 TD @ 6170'



**Inland Resources Inc.**

**Tar Sands Federal #7-31-8-17**

1870 FEL & 1947 FNL  
 SWNE Section 31-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-31684; Lease #U-74869

# Tar Sands Federal #8-31-8-17

Spud Date: 4/29/96  
 Put on Production: 6/25/96  
 GL: 5296' KB: 5309'

Initial Production: 262 BOPD,  
 165 MCFPD, 3 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (290.87')  
 DEPTH LANDED: 288.87'(GL)  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 120 sxs Premium cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 146 jts. (6205.40')  
 DEPTH LANDED: 6202'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 280 sk Hyfill mixed & 340 sxs thixotropic  
 CEMENT TOP AT: Surface per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8"/6.5#/LS tbg.  
 NO. OF JOINTS: 163 jts. (4995.51')  
 TUBING ANCHOR: 5008.51' KB  
 NO. OF JOINTS: 13 jts. (396.17')  
 SEATING NIPPLE: 2-7/8" (1.10")  
 SN LANDED AT: 5408.53' KB  
 NO. OF JOINTS: 5 jts. (156.02')  
 TOTAL STRING LENGTH: EOT @ 5564.55' KB

SUCKER RODS

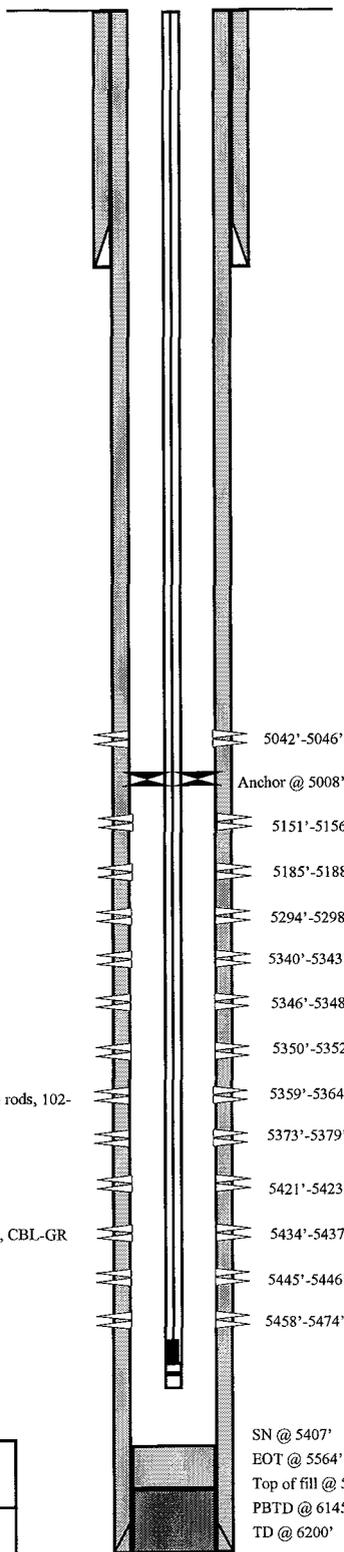
POLISHED ROD: 1-1/2" x 22' polished rod.  
 SUCKER RODS: 4- 1 1/2" K bars, 4- 3/4" guide rods, 106- 3/4" plain rods, 102- 3/4" guide rods.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16" RHAC pump  
 STROKE LENGTH: 64"  
 PUMP SPEED, SPM: 7 SPM  
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

FRAC JOB

6/19/96 5294'-5474' Frac LDC, A-3 & A-1 sands as follows:  
 161,500# of 20/40 sand in 727 bbls of Boragel.  
 Treated @ avg rate 46.7 bpm @ avg press of 950 psi. ISIP: 1534 psi. Calc. flush: 5294 gal. Actual flush: 5230 gal.

6/21/96 5042'-5188' Frac B-2, B-1 & C sands as follows:  
 94,700# of 20/40 sand in 510 bbls of Boragel.  
 Treated @ avg rate 31 bpm w/avg press of 1300#. ISIP: 2049 psi. Calc. flush: 5042 gal. Actual flush: 4955 gal.

9/05/00 Pump change. Update rod and tubing details.



PERFORATION RECORD

6/18/96	5294'-5298'	4 JSPF	16 holes
6/18/96	5340'-5343'	2 JSPF	5 holes
6/18/96	5346'-5348'	2 JSPF	5 holes
6/18/96	5350'-5352'	2 JSPF	4 holes
6/18/96	5359'-5364'	2 JSPF	10 holes
6/18/96	5373'-5379'	2 JSPF	12 holes
6/18/96	5421'-5423'	2 JSPF	4 holes
6/18/96	5434'-5437'	2 JSPF	6 holes
6/18/96	5445'-5446'	2 JSPF	2 holes
6/18/96	5458'-5474'	4 JSPF	60 holes
6/20/96	5185'-5188'	4 JSPF	12 holes
6/20/96	5151'-5156'	4 JSPF	20 holes
6/20/96	5042'-5046'	4 JSPF	16 holes



**Inland Resources Inc.**

**Tar Sands Federal #8-31-8-17**

660 FEL & 1980 FNL  
 SENE Section 31-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-31615; Lease #U-74869

# Government #31-2-8-17

Spud Date: 7/29/66  
 Put on Production: 8/9/66  
 GL: 5253' KB: 5265'

Initial Production: 80 BOPD,  
 ? MCFPD, 20 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: ? jts. (168')  
 HOLE SIZE: 11"  
 CEMENT DATA: 87 sxs cement

**PRODUCTION CASING**

CSG SIZE: 4-1/2"  
 GRADE: J-55  
 WEIGHT: 10.5#  
 LENGTH: ? jts. (5355')  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 224 sxs cement  
 CEMENT TOP AT: 4470' per CBL

**TUBING**

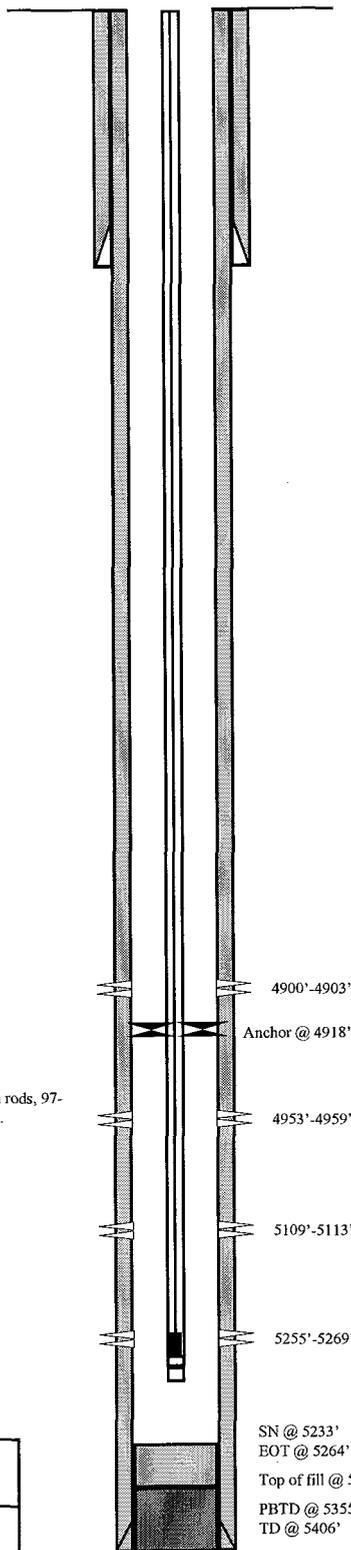
SIZE/GRADE/WT.: 2-3/8", EUE J-55  
 NO. OF JOINTS: 5 jts.  
 SIZE/GRADE/WT.: 2-3/8", Seal-lock non-upset  
 NO. OF JOINTS: 153 jts.  
 TUBING ANCHOR: 4918'  
 NO. OF JOINTS: 10 jts.  
 SN LANDED AT: 5233'  
 NO. OF JOINTS: 1 jt.  
 TOTAL STRING LENGTH: 5264'

**SUCKER RODS**

POLISHED ROD: 1-1/4"x22'  
 SUCKER RODS: 85-3/4" plain rods, 3-3/4" guided rods, 6-3/4" plain rods, 97-3/4" guided rods, 17-3/4" plain rods, 3-4', 1-6', 1-8' x 3/4" pony rods.  
 PUMP SIZE: 2" x 1 1/2" x 12"  
 STROKE LENGTH: 56"  
 PUMP SPEED, SPM: 6 SPM  
 LOGS: IES, GRN, CBL

**FRAC JOB**

8/26/66	4900'-5269'	<b>Frac zones as follows:</b>
		49,000# 20/40 sand in 262 bbls frac fluid.
		Treated @ avg press of 3600 psi w/avg rate of 33 BPM. Screened out.
6/9/94		Pump change. Update rod details.
2/4/97		Re-perf zones. Update tubing details.



**PERFORATION RECORD**

Date	Depth Range	SPF	Holes
8/24/66	4900'-4903'	1 SPF	4 holes
8/24/66	4956'-4959'	1 SPF	3 holes
8/24/66	5110'-5113'	1 SPF	3 holes
8/24/66	5257'-5269'	1 SPF	6 holes
2/04/97	4953'-4958'	2 SPF	28 holes
2/04/97	5109'-5112'	2 SPF	6 holes
2/04/97	5255'-5269'	2 SPF	10 holes

**Inland Resources Inc.**  
**Tar Sands Federal #31-2-8-17**  
 660 FSL & 660 FEL  
 SESE Section 31-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-20082; Lease # U-020433

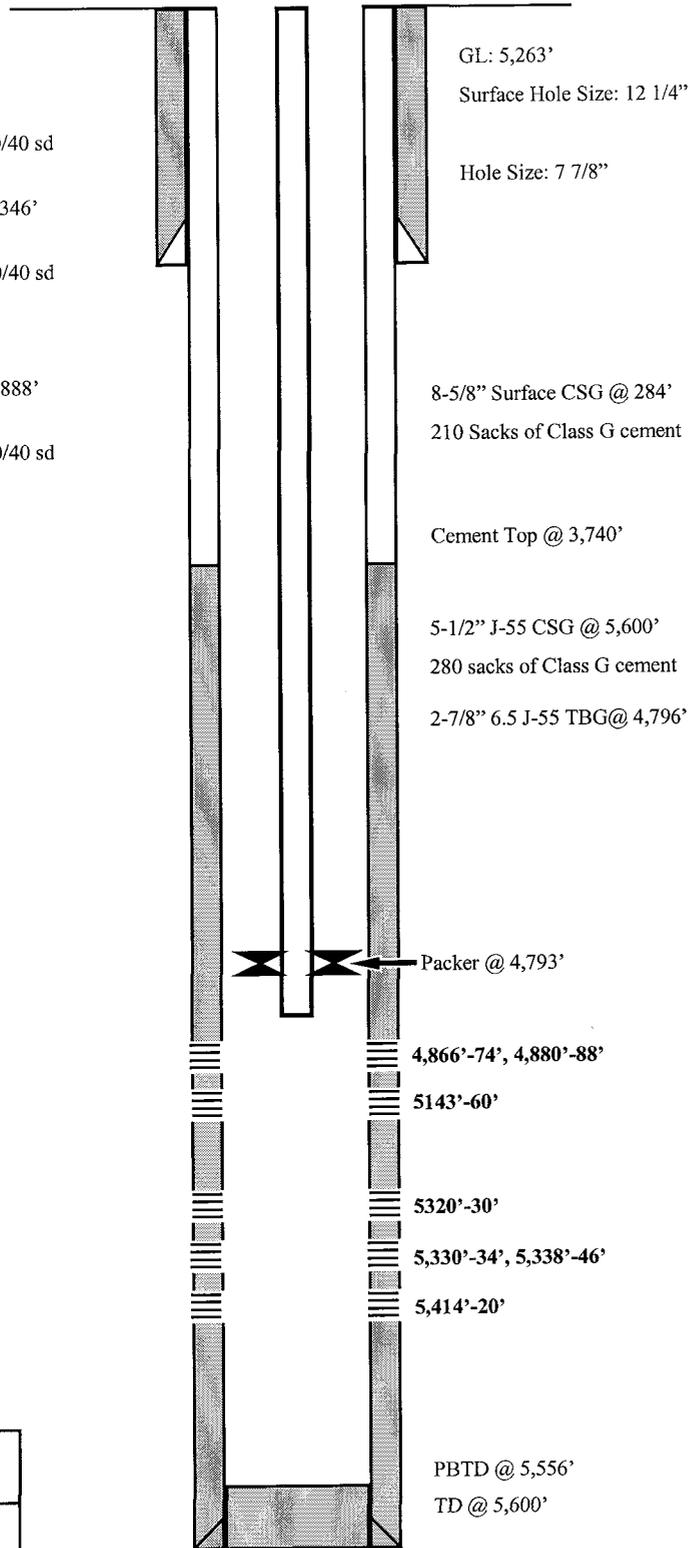
# Gilsonite State #5-32

## Injection Wellbore Diagram

GBR IV 11/2/00

Well History:

12-12-82	Spud Well
12-30-82	Perf: 5,414'-5,420'
1-1-83	Frac LDC zone as follows: Totals 12,500 gal, 17,500# 20/40 sd Avg TP 3,700 @ 25 BPM
1-6-83	Perf: 5,330'-5,334', 5,338'-5,346'
1-7-83	Frac A-1 zone as follows: Totals 24,500 gal, 76,000# 20/40 sd Max TP 4,000 @ 30 BPM Avg TP 2,600 @ 30 BPM ISIP 2,000
1-12-83	Perf: 4,866'-4,874', 4,880'-4,888'
1-13-83	Frac D-1 zone as follows: Totals 24,500 gal, 76,000# 20/40 sd Max TP 3,150 @ 30 BPM Avg TP 2,500 @ 31 BPM ISIP 2,200



	<b>Inland Resources Inc.</b>
	<b>Gilsonite State #5-32</b> 559 FWL 1937 FNL SWNW Section 32-T8S-R17E Duchesne Co, Utah API #43-013-30714; Lease #ML-22060

# Gilsonite State #6-32-8-17

Spud Date: 6/19/1983  
Put on Production: 8/2/1983

Initial Production: 107 BOPD,  
NM MCFD, NM BWPD

GL: 5252' KB: 5262'

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 293'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 210 sxs Class "G" cmt.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 17#  
LENGTH: 5612'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 275 sxs Ideal Class "G"  
CEMENT TOP AT: 3190' per CBL

**TUBING**

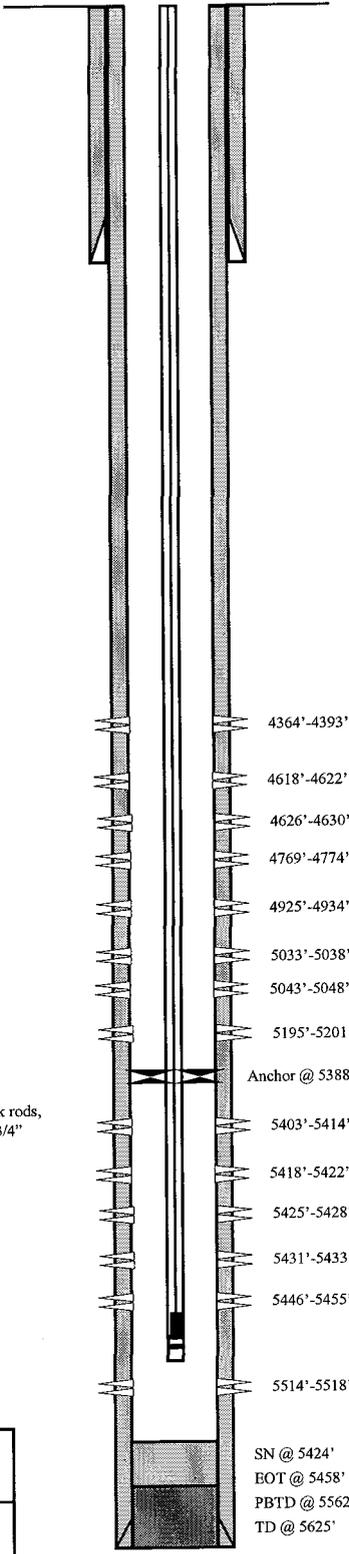
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 167 jts (5378.80')  
TUBING ANCHOR: 5388.80' KB'  
NO. OF JOINTS: 1 jts (32.45')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5424.05' KB  
NO. OF JOINTS: 1 jts (32.55')  
TOTAL STRING LENGTH: EOT @ 5458.15' KB

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 6-1 1/2" weight bars; 10-3/4" scraper rods; 77-3/4" slick rods, 6-3/4" scraper rods, 22-3/4" slick rods, 94-3/4" scraper rods, 1-6', 1-8' x 3/4" pony rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC  
STROKE LENGTH: 42"  
PUMP SPEED, SPM: 5 SPM  
LOGS: DIGL/SP/GR/CAL

**FRAC JOB**

7/16/83	5033'-5048'	<b>Frac zone as follows:</b> 61,400# 20/40 sand in 590 bbls frac fluid. Treated @ avg press of 2300 psi w/avg rate of 30 BPM. Screened out.
7/29/84	4364'-4392'	<b>Frac zone as follows:</b> 153,000# 20/40 sand in 1071 bbls frac fluid. Treated @ avg press of 1850 psi w/avg rate of 30 BPM.
5/07/02	5403'-5518'	<b>Frac LODC as follows:</b> 66,700# 20/40 sand in 491 bbls Viking I-25 frac fluid. Treated @ avg press of 3550 psi w/avg rate of 17.4 BPM. Screened out w/ 61,816# sand in frntn and 4,884# sand in tubing.
5/07/02	5195'-5201'	<b>Frac B2 as follows:</b> 21,184# 20/40 sand in 160 bbls Viking I-25 frac fluid. Treated @ avg press of 3400 psi w/avg rate of 14.5 BPM. ISIP 2350 psi. Calc. flush: 1327 gal, Actual flush: 1260 gal.
5/08/02	4929'-4934'	<b>Frac D2 as follows:</b> 13,100# 20/40 sand in 106 bbls Viking I-25 frac fluid. Treated @ avg press of 3000 psi w/avg rate of 14.8 BPM. Screened out w/ 6,972# sand in frntn and 6,128# sand in tubing.
5/08/02	4769'-4774'	<b>Frac DS-1 as follows:</b> 18,000# 20/40 sand in 121 bbls Viking I-25 frac fluid. Treated @ avg press of 4200 psi w/avg rate of 16.4 BPM. Screened out w/ 12,513# sand in frntn and 5,487# sand in tubing.
5/08/02	4618'-4630'	<b>Frac BP10 as follows:</b> 10,735# 20/40 sand in 117 bbls Viking I-25 frac fluid. Treated @ avg press of 5300 psi w/avg rate of 16.1 BPM. Screened out w/ 8,505# sand in frntn and 2,230# sand in tubing.



**PERFORATION RECORD**

Date	Depth Range	Tool	Holes
7/16/83	5043'-5048'	1 JSPP	07 holes
7/16/83	5033'-5038'	1 JSPP	07 holes
7/29/84	4364'-4392'	1 JSPP	29 holes
5/03/02	5514'-5518'	4 JSPP	16 holes
5/03/02	5446'-5455'	4 JSPP	36 holes
5/03/02	5431'-5433'	4 JSPP	08 holes
5/03/02	5425'-5428'	4 JSPP	12 holes
5/03/02	5418'-5422'	4 JSPP	16 holes
5/03/02	5403'-5414'	4 JSPP	44 holes
5/03/02	5195'-5201'	4 JSPP	24 holes
5/03/02	4925'-4934'	4 JSPP	20 holes
5/03/02	4769'-4774'	4 JSPP	20 holes
5/03/02	4626'-4630'	4 JSPP	16 holes
5/03/02	4618'-4622'	4 JSPP	16 holes



**Inland Resources Inc.**

**Gilsonite State #6-32-8-17**

1911 FNL & 1904 FWL  
SENW Section 32-T8S-R17E  
Duchesne Co, Utah  
API #43-013-30748; Lease #ML-22060

# Gilsonite #11-32-8-17

Spud Date: 9/19/1982

Put on Production:

GL: 5146' KB: 5156'

**SURFACE CASING**

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (315')

HOLE SIZE: 12-1/4"

CEMENT DATA: 210 sxs Class "G" w/additives

**PRODUCTION CASING**

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 150 jts. (6285')

HOLE SIZE: 7-7/8"

CEMENT DATA: 575 sxs 50/50 Poz, w/additives

CEMENT TOP AT: 3250' per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 170 jts (5334')

TUBING ANCHOR: 5334'

NO. OF JOINTS: 1 jts

SEATING NIPPLE: 2-7/8" (1.10")

SN LANDED AT: 5367' KB

NO. OF JOINTS: 3 jts

TOTAL STRING LENGTH: EOT @ 5463'

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' SM

SUCKER RODS: 4-1 1/2" weight bars; 18-3/4" guided rods; 89-3/4" slick rods,

102-3/4" guided rods, 1-2' x 3/4" pony rod.

PUMP SIZE: 2-1/2" x 1-1/2" x 15' RHAC

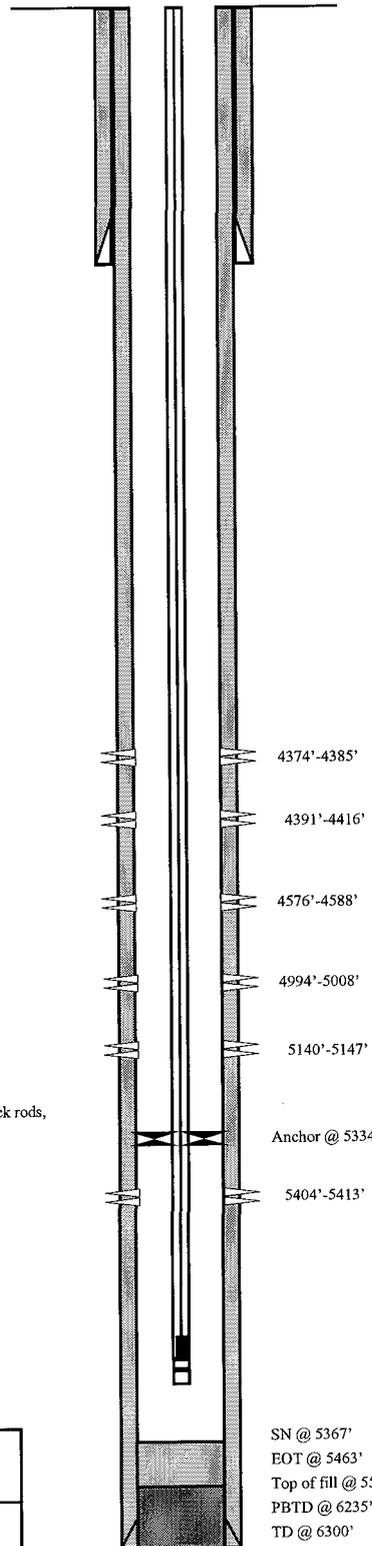
STROKE LENGTH: 44"

PUMP SPEED, SPM: 4 SPM

LOGS: DIGL/SP/GR/CAL

Initial Production: 156 BOPD,  
NM MCFD, 21 BWPD

Wellbore Diagram



**FRAC JOB**

10/13/82	4994'-5447'	<b>Frac zone as follows:</b> 71,400# 20/40 sand in 935 bbls frac fluid. Treated @ avg press of 2500 psi w/avg rate of 30 BPM. Screened out w/ 51,700# sand in formation. ISIP 3000.
10/17/82	4580'-4588'	<b>Frac zone as follows:</b> 47,780# 20/40 sand in 497 bbls frac fluid. Treated @ avg press of 1900 psi w/avg rate of 25 BPM. Screened out.
10/22/82	4378'-4416'	<b>Frac zone as follows:</b> 104,000# 20/40 sand in 857 bbls frac fluid. Treated @ avg press of 2000 psi w/avg rate of 31 BPM. ISIP 1800.
1/17/96		Break down re-perfs with 15% HCl plus inhibitor.
10/16/01		Workover. Update rod and tubing details.

**PERFORATION RECORD**

10/12/82	5411'-5413'	1 JSPF	02 holes
10/12/82	5143'-5147'	1 JSPF	04 holes
10/12/82	5002'-5008'	1 JSPF	06 holes
10/12/82	4994'-4996'	1 JSPF	02 holes
10/16/82	4580'-4588'	1 JSPF	08 holes
10/21/82	4378'-4385'	1 JSPF	07 holes
10/21/82	4396'-4416'	1 JSPF	20 holes
01/16/96	5404'-5412'	4 JSPF	24 holes
01/16/96	5140'-5144'	4 JSPF	16 holes
01/16/96	4998'-5004'	4 JSPF	24 holes
01/16/96	4576'-4584'	4 JSPF	32 holes
01/16/96	4374'-4380'	4 JSPF	24 holes
01/16/96	4391'-4412'	4 JSPF	84 holes

SN @ 5367'  
EOT @ 5463'  
Top of fill @ 5506'  
PBTD @ 6235'  
TD @ 6300'



**Inland Resources Inc.**  
**Gilsonite State #11-32-8-17**  
 1936 FSL & 1834 FWL  
 NESW Section 32-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-30685; Lease #ML-22060

# Gilsonite State #12-32-8-17

Spud Date: 11/02/83  
 Put on Production: 6/20/93  
 Put on Injection: 10/28/94  
 Put back on Production: 1/21/03  
 GL: 5250' KB: 5262'

Initial Production: 30 BOPD,  
 72 MCFD, 29 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts.  
 DEPTH LANDED: 277' GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 210 sxs Class "G" cement.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 17#  
 LENGTH: 144 jts.  
 DEPTH LANDED: 5782' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Thixotropic cement.  
 CEMENT TOP AT: 3840' per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 144 jts (4768.32')  
 TUBING ANCHOR: 4780.32' KB  
 NO. OF JOINTS: 1 jt (31.36')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4814.41' KB  
 NO. OF JOINTS: 1 jt (33.38')  
 TOTAL STRING LENGTH: EOT @ 4849.29' w/12' KB

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 6-1 1/2" weight bars; 10-3/4" scraped rods; 85-3/4" plain rods; 91-3/4" scraped rods; 1-8" x 3/4" pony rod  
 PUMP SIZE: 2-1/2" x 1-1/2" x 14.5' RHAC  
 STROKE LENGTH: 44"  
 PUMP SPEED, SPM: 5.5 SPM  
 LOGS: DIGL/SP/GR/CAL

**FRAC JOB**

11/17/83 5295'-5311' **Frac A3 sand as follows:**  
 93,440# 20/40 sand in 617 bbls 5% KCl frac fluid. Treated @ avg press of 2000 psi w/avg rate of 25.7 BPM. ISIP 1750 psi. Screened out during flush. Calc flush: 5295 gal. Actual flush: 3402 gal.

11/27/83 5184'-5162' **Frac B2 sand as follows:**  
 68,000# 20/40 sand in 571 bbls 5% KCl frac fluid. Treated @ avg press of 2020 psi w/avg rate of 25 BPM. ISIP 2100 psi. Calc flush: 5148 gal. Actual flush: 5040 gal.

12/03/83 4956'-4997' **Frac C-sd sand as follows:**  
 70,000# 20/40 sand in 833 bbls 5% KCl frac fluid. Treated @ avg press of 1900 psi w/avg rate of 37 BPM. ISIP 1700 psi. Calc flush: 4956 gal. Actual flush: 4830 gal.

06/13/93 5365'-5468' **Frac LODC as follows: (Down tubing)**  
 21,100# 20/40 sand + 41,100# 16/30 sand in 833 bbls gelled frac fluid. Treated @ avg press of 3420 psi w/avg rate of 17.5 BPM. ISIP 1680 psi. Calc flush: 1337 gal. Actual flush: 1590 gal.

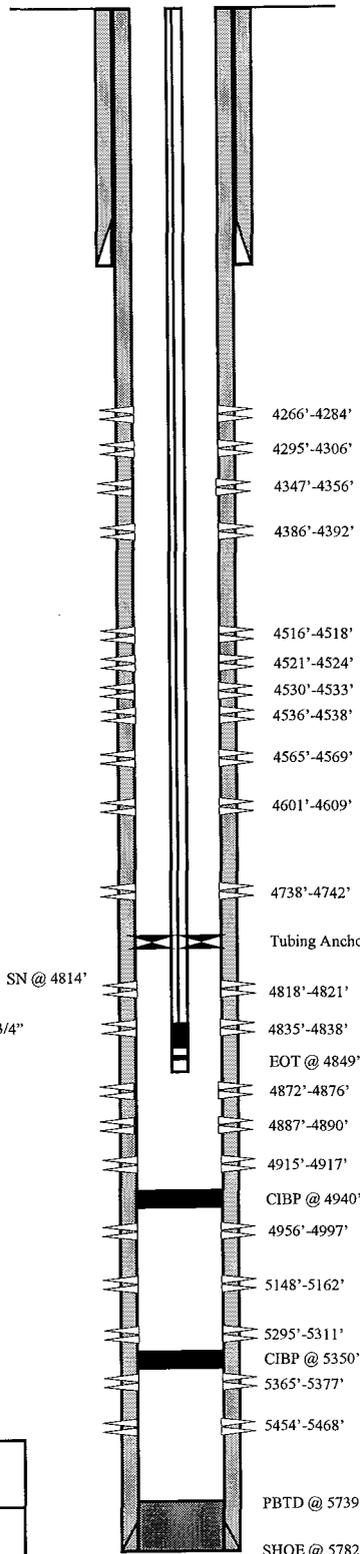
10/19/94  
 Converted to injector.

1/15/03 4738'-4917' **Frac D sands as follows:**  
 74,500# 20/40 sand in 563 bbls Viking I-25 fluid. Treated @ avg. pressure of 1650 psi w/avg. rate of 23.5 BPM. ISIP - 2414 psi. Calc flush: 4738 gals. Actual flush: 4536 gals.

1/15/03 4516'-4609' **Frac PB sands as follows:**  
 50,000# 20/40 sand in 414 bbls Viking I-25 fluid. Treated @ avg. pressure of 2545 psi w/avg. rate of 24.5 BPM. ISIP - 2450 psi. Calc flush: 4516 gals. Actual flush: 4326 gals.

1/15/03 4516'-4609' **Frac PB sands as follows:**  
 50,000# 20/40 sand in 414 bbls Viking I-25 fluid. Treated @ avg. pressure of 2545 psi w/avg. rate of 24.5 BPM. ISIP - 2450 psi. Calc flush: 4516 gals. Actual flush: 4326 gals.

1/15/03 4266'-4392' **Frac GB sands as follows:**  
 150,880# 20/40 sand in 952 bbls Viking I-25 fluid. Treated @ avg. pressure of 1500 psi w/avg. rate of 16 BPM. ISIP - 1952 psi. Calc flush: 4266 gals. Actual flush: 4074 gals.



**PERFORATION RECORD**

Date	Depth Range	Number of Holes	Notes
11/16/83	5295'-5311'	1 JSPF	17 holes
11/23/83	5148'-5162'	1 JSPF	15 holes
12/03/83	4956'-4997'	1 JSPF	21 holes
(1 shot every other foot)			
06/10/93	5365'-5377'	4 JSPF	48 holes
06/10/93	5454'-5468'	4 JSPF	56 holes
1/15/03	4915'-4917'	4 JSPF	8 holes
1/15/03	4887'-4890'	4 JSPF	12 holes
1/15/03	4872'-4876'	4 JSPF	16 holes
1/15/03	4835'-4838'	4 JSPF	12 holes
1/15/03	4818'-4821'	4 JSPF	12 holes
1/15/03	4738'-4742'	4 JSPF	16 holes
1/15/03	4601'-4609'	4 JSPF	32 holes
1/15/03	4565'-4569'	4 JSPF	16 holes
1/15/03	4536'-4538'	4 JSPF	8 holes
1/15/03	4530'-4533'	4 JSPF	12 holes
1/15/03	4521'-4524'	4 JSPF	12 holes
1/15/03	4516'-4518'	4 JSPF	8 holes
1/15/03	4386'-4392'	4 JSPF	24 holes
1/15/03	4347'-4356'	4 JSPF	36 holes
1/15/03	4295'-4306'	4 JSPF	44 holes
1/15/03	4266'-4284'	4 JSPF	72 holes



**Inland Resources Inc.**  
**Gilsonite State #12-32-8-17**  
 1891' FSL & 767' FWL  
 NWSW Section 32-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-30787; Lease #ML-22060

# Gilsonite State #2-32-8-17

Spud Date: 12/20/81  
 Put on Production: 2/20/82  
 GL: 5241' KB: 5258'  
**SURFACE CASING**  
 CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: (300')  
 DEPTH LANDED: 314'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 175 sxs

Initial Production: BOPD;  
 MCFD; BWPD

Wellbore Diagram

**FRAC JOB**

2-2-82      Frac All zones as follows:  
 Stage 1: 12,000gal, 30,000# 20/40 sd Avg TP 2,800 @ 30 BPM  
 Stage 2: 17,500 gal, 30,000# 20/40 sd Avg TP 3,200 @ 30 BPM  
 Stage 3: 14,000 gal, 25,000# 20/40 sd Avg TP 3,400 @ 30 BPM.

3-22-85      Frac GB-4 zone as follows:  
 Totals 25,000 gal, 70,000# 20/40 sd 20,000# 12/20 sd Max TP 2,900 @ 30 BPM Avg TP 2,400 @ 30 BPM ISIP 2,200, after 5 min. 2,020.

1/23/03      Pump Change. Update rod and tubing details.

**PRODUCTION CASING**

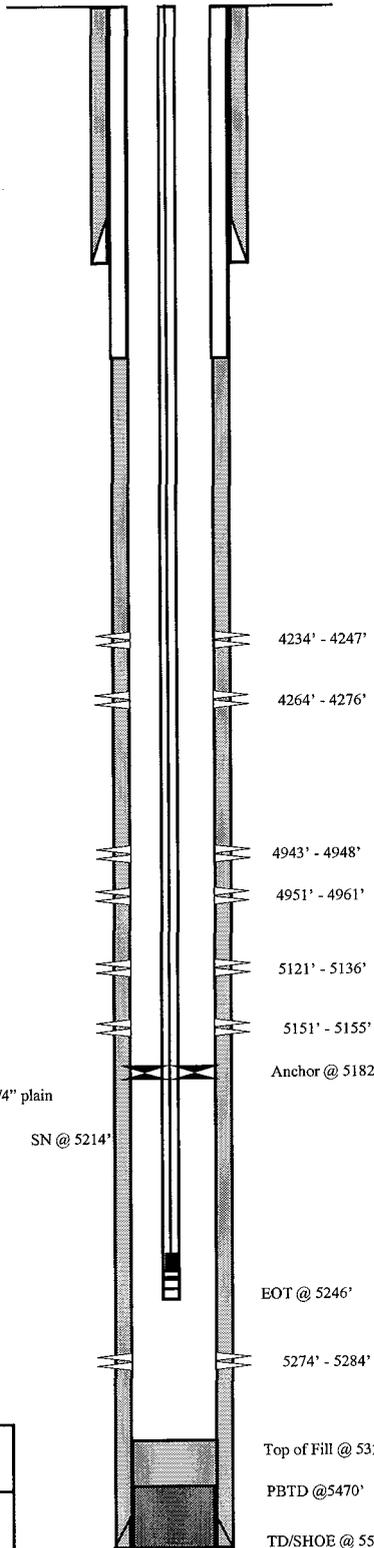
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: (5527')  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 485 sxs 50/50 Poz mixed  
 CEMENT TOP AT: 2500'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 164 jts (5168.80')  
 TUBING ANCHOR: 5181.6'  
 NO. OF JOINTS: 1 jts (31.65')  
 SEATING NIPPLE: 2-7/8"  
 SN LANDED AT: 5214.35'  
 NO. OF JOINTS: 1 jts (31.58')  
 TOTAL STRING LENGTH: EOT @ 5246.38'

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 6- 1-1/2" weight bars, 10-3/4" scraped rods; 94-3/4" plain rods; 98-3/4" scraped rods; 1-2' x 3/4" pony rods.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC Pump  
 STROKE LENGTH: 54"  
 PUMP SPEED, SPM: 6  
 LOGS: DIGL/SP/GR/CAL  
 SDL/DSN/GR



**PERFORATION RECORD**

Date	Depth Range	Tool Joint	Holes
1/31/82	5274' - 5284'	4JSPF	10 holes
1/31/82	5151' - 5155'	4JSPF	4 holes
1/31/82	5123' - 5135'	4JSPF	12 holes
1/31/82	4951' - 4961'	4JSPF	10 holes
1/31/82	4943' - 4948'	4JSPF	5 holes
3/20/85	4264' - 4276'	4JSPF	6 holes
3/20/85	4234' - 4247'	4JSPF	6 holes
1/16/96	5274' - 5284'	4JSPF	40 holes reperf
1/16/96	5121' - 5136'	4JSPF	56 holes reperf
1/16/96	4951' - 4961'	4JSPF	40 holes reperf
1/16/96	4943' - 4948'	4JSPF	20 holes reperf
1/16/96	4264' - 4274'	4JSPF	40 holes reperf
1/16/96	4234' - 4247'	4JSPF	48 holes reperf



**Inland Resources Inc.**

**Gilsonite State 2-32-8-17**

517 FSL & 686 FWL  
 SWSW Section 32 -T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-30604; Lease #ML-22060

# Gilsonite State #14-32-8-17

Spud Date: 3/22/1995  
Put on Production: 5/4/1995

Initial Production: 137 BOPD,  
183 MCFD, 3 BWPD

GL: 5224' KB: 5234'

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 310'  
DEPTH LANDED: 300'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 165 sxs Class "G" cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: K-55  
WEIGHT: 15.5#  
DEPTH LANDED: 6003'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 277 sxs Hilift & 286 sxs 10-0 RFC.  
CEMENT TOP AT: ? per CBL

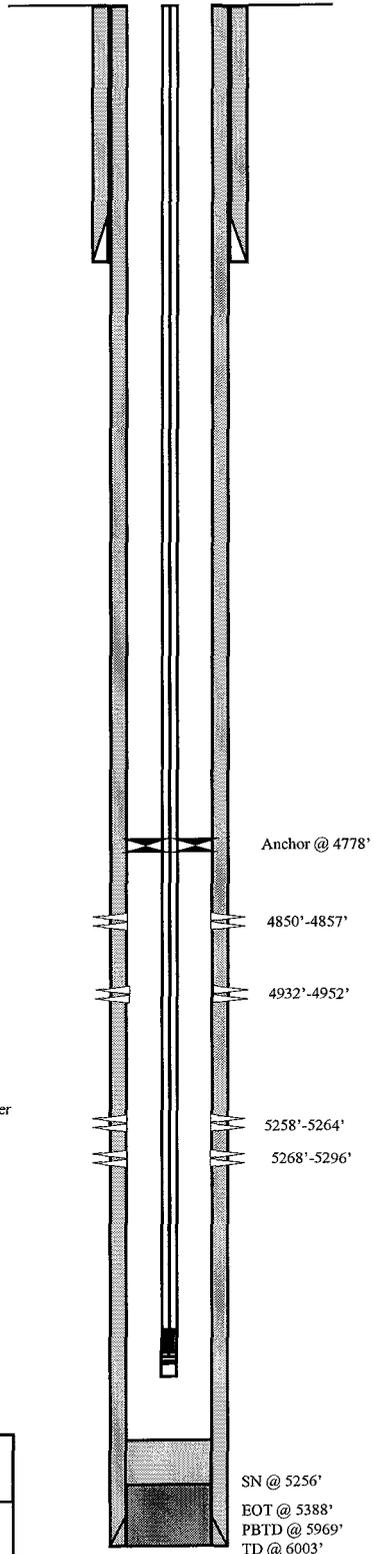
TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 151 jts (4764.41')  
TUBING ANCHOR: 4778.41'  
NO. OF JOINTS: 15 jts (475.22')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5256.38 KB  
NO. OF JOINTS: 4 jts (130.48')  
TOTAL STRING LENGTH: EOT @ 5388.38'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 4-1 1/2" weight bars; 105-3/4" slick rods, 99-3/4" scraper rods, 2-2', 1-8' x 3/4" pony rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 15.5' RHAC  
STROKE LENGTH: 51"  
PUMP SPEED, SPM: 6 SPM  
LOGS: DIGL/SP/GR/CAL

Wellbore Diagram



FRAC JOB

4/28/95	5256'-5296'	<b>Frac A sand as follows:</b> 102,400# 20/40 sand in 496 bbls frac fluid. ISIP 2000 psi.
4/28/95	4932'-4952'	<b>Frac C sand as follows:</b> 50,800# 16/30 sand in 257 bbls frac fluid. Line washed out. ISIP 3400 psi. Flow back 30 min. then died.
5/03/95	4850'-4857'	<b>Frac D sand as follows:</b> 27,000# 16/30 sand in 338 bbls frac fluid. ISIP 2250 psi. Flow 1.5 hr. then died.
9/29/01		Pump change. Update rod and tubing details.

PERFORATION RECORD

Date	Interval	Number of Holes	Notes
4/26/95	5258'-5264'	4	JSPF 24 holes
4/26/95	5268'-5296'	4	JSPF 112 holes
4/28/95	4932'-4952'	4	JSPF 80 holes
5/03/95	4850'-4857'	4	JSPF 28 holes



**Inland Resources Inc.**  
**Gilsonite State #14-32-8-17**  
 795' FSL & 2005' FEL  
 SWSE Section 32-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-31480; Lease #ML-22060

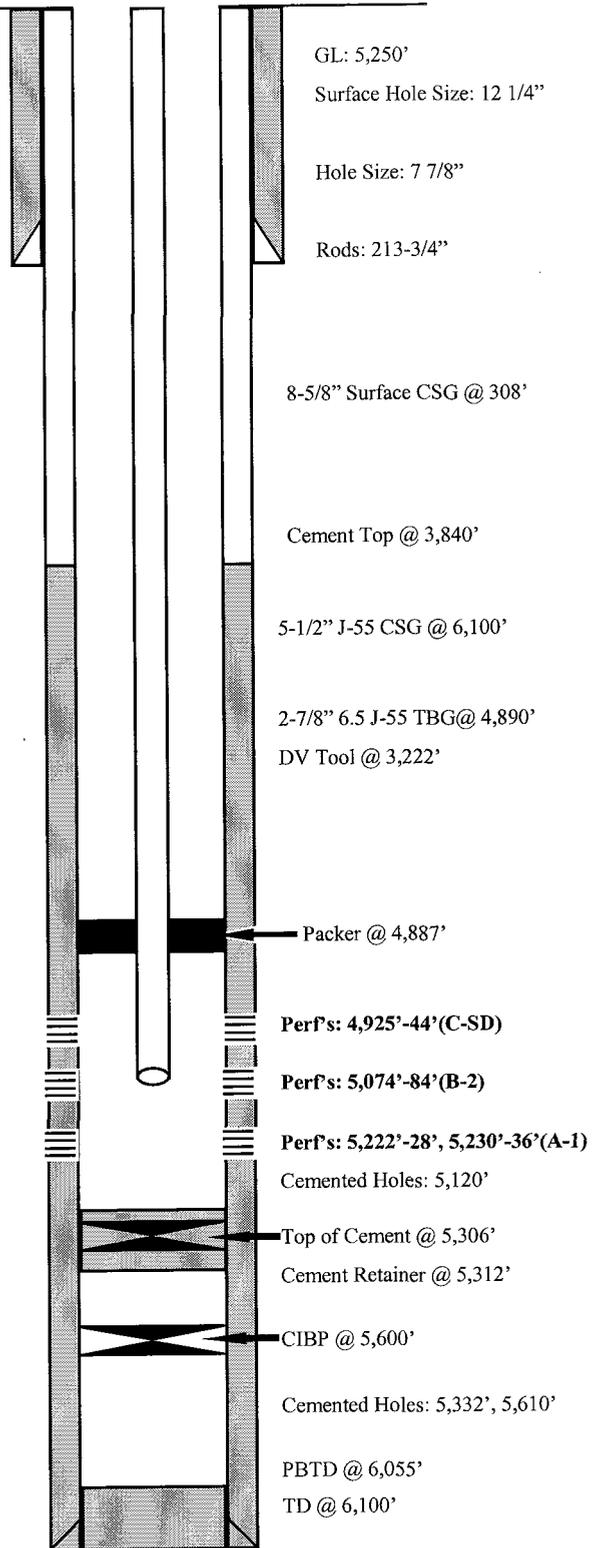
SN @ 5256'  
EOT @ 5388'  
PBT @ 5969'  
TD @ 6003'

# Gilsonite State #13-32

## Injection Well Wellbore Diagram

Well History:

9-6-94	Spud Well
10-9-94	Perf: 5,222'-5,228', 5,230'-5,236'
10-9-94	Frac A-3 zone as follows: Totals 4,000# Flowed Back @ 30 BPM
10-10-94	Perf: 5,074'-5,084'
10-10-94	Frac B-2 zone as follows: Max TP 2,200 @ 30 BPM ISIP 1,830, after 5 min 1,750
10-11-94	Perf: 4,925'-4,944'
10-11-94	Frac C-sd zone as follows: Totals 116 bbbls, 20,000# 20/40 sd Max TP 1,900 @ 25 BPM Avg TP 1,750 @ 25 BPM ISIP 1,634, after 5 min 1,430
10-21-94	Put on Injection @ 4:30 P.M.



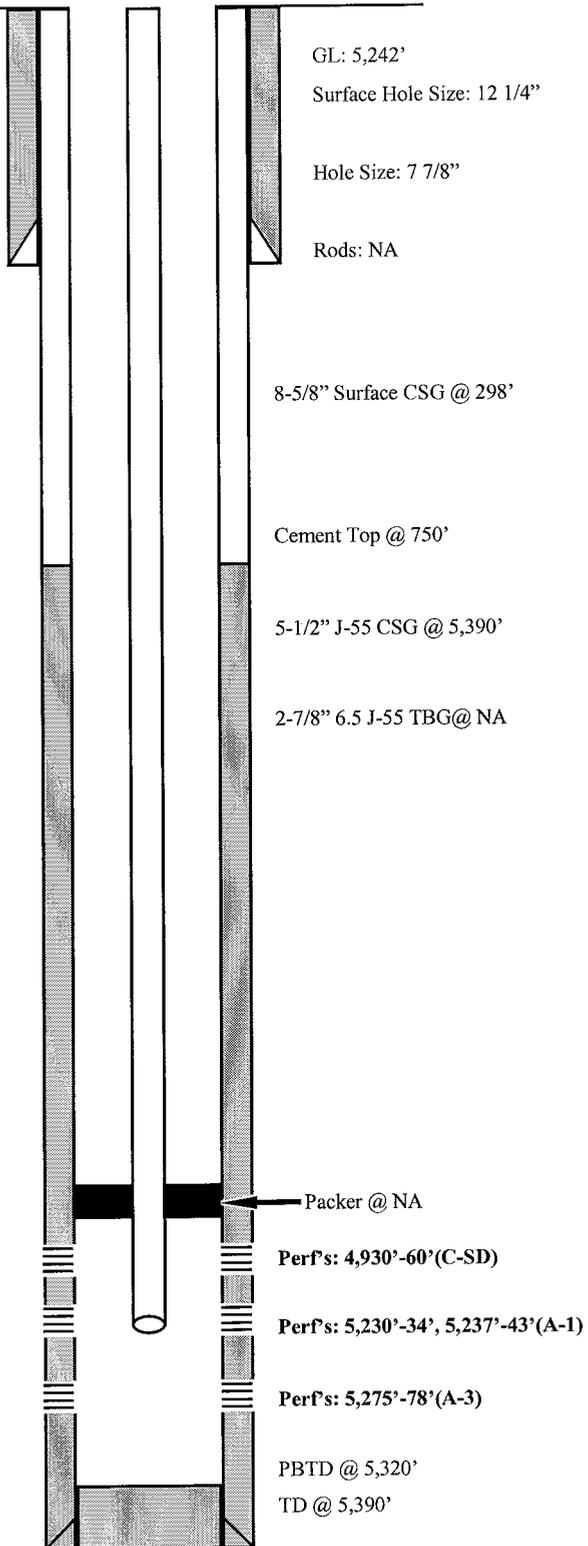
	<b>Inland Resources Inc.</b>
	<b>Gilsonite State #13-32</b> 5 FSL 5 FWL SWSW Section 32-T8S-R17E Duchesne Co, Utah API #43-013-31403; Lease #ML-22060

# Gilsonite State #14I-32

## Injection Well Wellbore Diagram

Well History:

6-30-95	Spud Well
7-26-95	Perf: 5,275'-5,278', 5,230'-5,234, 5,237'-5,243'
7-27-95	Frac A-3 and A-1 zone as follows: Totals 1,800 gal, 4,500# 16/30 sd Avg TP 2,300 @ 25 BPM ISIP 3,300
7-27-95	Perf: 4,930'-4,960'
7-27-95	Frac C-SD zone as follows: Totals 7,500 gal, 22,500 16/30 sd Avg TP 2,300 @ 25 BPM
7/2/01	Mr. Carver w/ EPA and Mr. Ingram w/ DOGM notified that we would perform MIT on well. No gvmt. agency was on location for test.



	<b>Inland Resources Inc.</b>
	<b>Gilsonite State #14I-32</b> 1310 FWL & 4 FSL SWSW Section 32-T8S-R17E Duchesne Co, Utah API #43-013-31523; Lease #ML-21839

# Balcron Allen Federal #31-6G-9-17

Spud Date: 6/11/94  
 Put on Production: 7/29/94  
 GL: 5292' KB: 5302'

Initial Production: 0 BOPD, 900 MCFD,  
 0 BOPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: K-55  
 WEIGHT: 24#  
 LENGTH: 352.75'  
 DEPTH LANDED: 362.75' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 225 sxs Class "G" cmt to surface

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: K-55  
 WEIGHT: 15.5#  
 LENGTH: 66 jts. (2839.38')  
 DEPTH LANDED: 2874.3' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 50 sxs G Scavenger tail with 375 sxs G  
 CEMENT TOP AT: ?

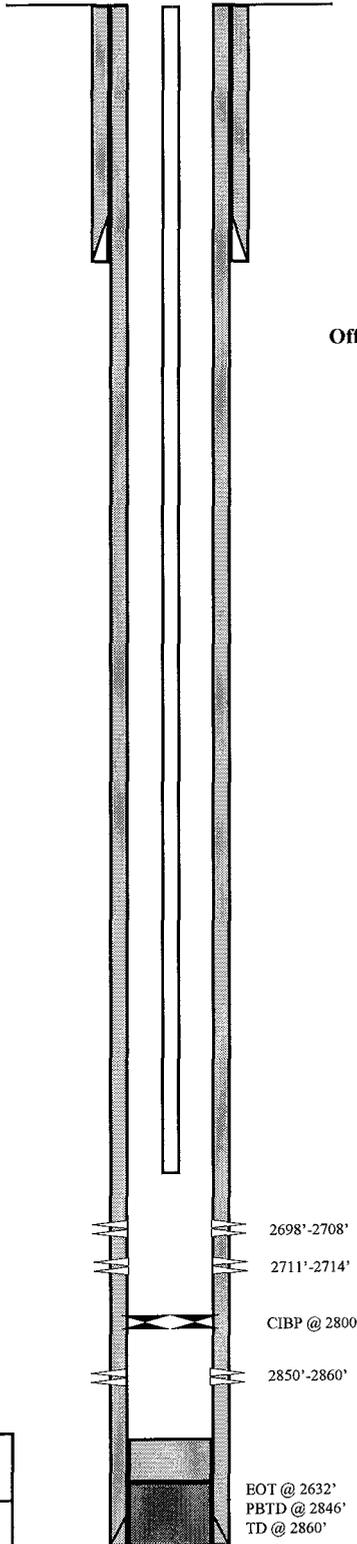
Tubing Record

SIZE/GRADE/WEIGHT: 2-7/8", J-55, 6.5#  
 F PROFILE NIPPLE: 2-7/8" x 1.40' (2.25" ID)  
 NO. OF JOINTS: 85 JT @ 2630.43'  
 TUBING ANCHOR: N/A  
 NO. OF JOINTS: N/A  
 SEATING NIPPLE: N/A  
 TOTAL STRING LENGTH: 2631.83' (10' KB)  
 CIBP: 2800' KB

ACID JOB

2850'-2860', 6/23/94 w/ Western.  
 500 gals. 15% HCl & 336 gals. 2% KCl wr. ATP  
 1300 psi, max 2600 psi. ATR 3.1 BPM, max 4 BPM.  
 ISIP 985 psi, 5-min 905 psi, 10-min 820 psi, 15-min  
 745 psi.  
 2698'-2714' No treatment.

Officially TA 5/28/99



PERFORATION RECORD

Date	Interval	SPF	Holes
6/22/94	2850'-2860'	4 SPF	40 holes
6/24/94	2711'-2714'	4 SPF	12 holes
6/24/94	2698'-2706'	4 SPF	32 holes



**Inland Resources Inc.**

**Balcron Allen Federal #31-6G-9-17**

708 FNL & 2076 FEL  
 NWNE Section 6-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-31442; Lease #U-020252A

# Allen Federal #41-6-9-17

Spud Date: 7/18/81  
 Put on Production: 12/20/85  
 GL: 5276' KB: 5290'

Initial Production: 41 BOPD, 91 MCFD, 1 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8 5/8" / K-55 / 24 lbs.  
 LENGTH: 7 jts @ 283'  
 DEPTH LANDED: 297' KB  
 HOLE SIZE: 12 1/4"  
 CEMENT DATA: 190 sx, Class-G. Cemented to surface

**PRODUCTION CASING**

CSG SIZE: 5 1/2" / K-55 / 15.5 lbs.  
 LENGTH: 135 jts @ 5399'  
 DEPTH LANDED: 5413' KB  
 D.V. TOOL: 3310'  
 HOLE SIZE: 7 7/8"  
 CEMENT DATA: 945 sx, 50-50 poz  
 CEMENT TOP AT: 1730' from CBL

**TUBING RECORD**

SIZE/GRADE/WT.: 2 3/8" J-55, 4.6#  
 NO. OF JOINTS: 171 Jts (5177.71')  
 TUBING ANCHOR: 5192"  
 NO. OF JOINTS: 1 Jts (30.23')  
 SEATING NIPPLE: 2 3/8" x 1'  
 SN LANDED AT: 5224.69' KB  
 NO. OF JOINTS: 1 Jts (29.51')  
 TOTAL STRING LENGTH: 5255.75'

**SUCKER RODS**

POLISHED ROD: 1-1/4" x 16' SM  
 SUCKER RODS: 6-1 1/2" weight bars; 20-3/4" scraper rods; 91-3/4" slick rods, 91-3/4" scraper rods.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC  
 STROKE LENGTH: 64"  
 PUMP SPEED, SPM: 6 SPM  
 LOGS: DIGL/SP/GR/CAL

**FRAC JOB**

**4750'-4764' Frac w/Western on 8-17-81.**  
 24,000 gal Apollo 40 w/36,000 lbs 20-40 sd,  
 24,000 lbs 10-20 sd, Avg 25 BPM @ 2000psig,  
 max @ 2600psig, ISIP @ 2000psig, 15 min @ 1700psig.

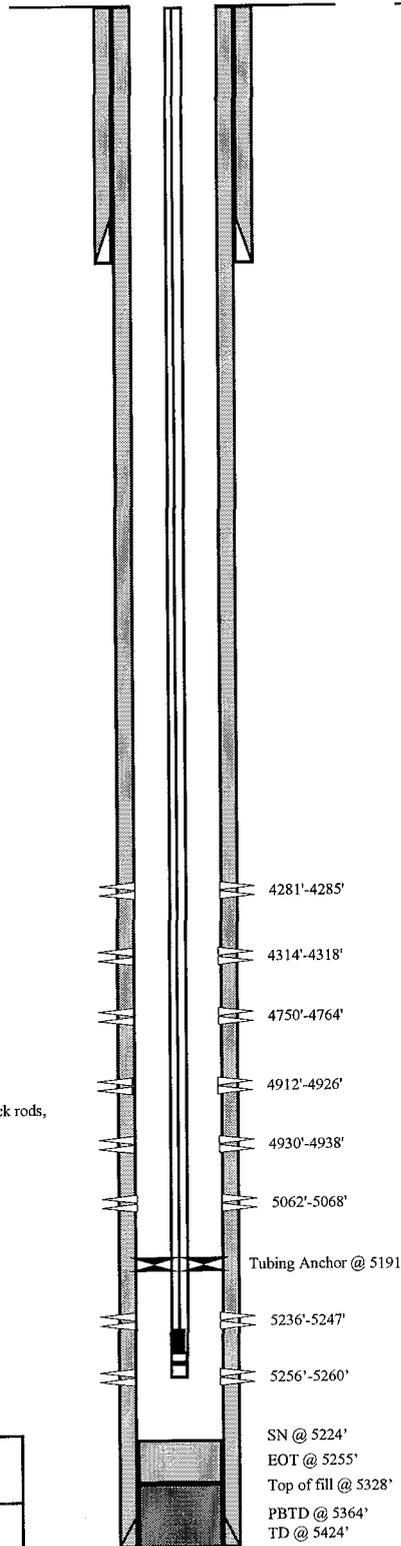
**4912'-4938' Frac w/Western on 8-16-81.**  
 24,000 gal Apollo 40 w/36,000 lbs 20-40 sd,  
 24,000 lbs 10-20 sd, Avg 25 BPM @ 1600psig,  
 max @ 2000psig, ISIP @ 1700psig, 15 min @ 1400psig.

**5236'-5260' Frac w/Western on 8-14-81.**  
 24,000 gal Apollo 40 w/36,000 lbs 20-30 sd,  
 18,000 lbs 10-20 sd, Avg 17 BPM @ 2000psig,  
 max @ 4000psig, ISIP @ 4000psig, 15 min @ 1300psig.

**4281'-4318' Frac w/Halliburton on 12-10-85.**  
 33,440 gal Versagel w/65,000 lbs 16/30 sd, Avg 32 BPM  
 @ 2100psig, max @ 2630psig, ISIP @ 2400psig, 15 min  
 @ 1850psig, 20 min @ 1820psig.

**5062'-5068' Frac w/Halliburton on 12-6-85.**  
 19,000 gal Vel-1500 w/30,000 lbs 20-40 sd, Avg 18 BPM  
 @ 3700psig, max @ 4400psig, ISIP @ 1850psig, 15 min  
 @ 1540psig, 20 min @ 1510psig.

3/4/00 Rod job. Update rod and tubing details.  
 2/9/02 Stuck pump. Update rod and tubing details.



**PERFORATION RECORD**

Date	Interval	SPF	Holes
8/17/81	4750'-4764'	2 SPF	12 holes
8/16/81	4912'-4926'	2 SPF	28 holes
8/16/81	4930'-4938'	2 SPF	16 holes
8/13/81	5236'-5247'	2 SPF	22 holes
8/13/81	5256'-5260'	2 SPF	8 holes
12/08/85	4281'-4285'	4 SPF	16 holes
12/08/85	4314'-4318'	4 SPF	16 holes
12/05/85	5062'-5068'	4 SPF	24 holes



**Inland Resources Inc.**  
**Allen Federal #41-6-9-17**  
 761 FNL & 655 FEL  
 NENE Section 6-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-30581; Lease #U-020252A

# Allen Federal #1-5A-9-17

Initial Production: 142 STBOPD,  
30 MCFD, 0 STBOPD

Spud Date: 6/19/65  
Put on Production: 7/30/65  
GL: 5253' KB: 5263'

Injection Wellbore  
Diagram

SURFACE CASING

STRING: 1  
CSG SIZE: 8 5/8"  
GRADE: J-55  
WEIGHT: 24 lbs.  
LENGTH: 6 jnts @ 230'  
DEPTH LANDED: 240' KB  
HOLE SIZE: 11"  
CEMENT DATA: 125 sx Class-G w/ 2% HAS  
Cement to surface

FRAC JOB

4232'- 5220', Frac w/Dowel on 7-17-65.  
43,000 gal gel water w/50,000 lbs 20-40  
mesh sand, 3,000 gals gel water w/3,000  
lbs 8-12 glass beads, Avg. 56.5 BPM @  
3850 psig, ISIP @ 1650 psig, 15 min @  
1600 psig, 16 hr @ 500 psig.

ACID JOB

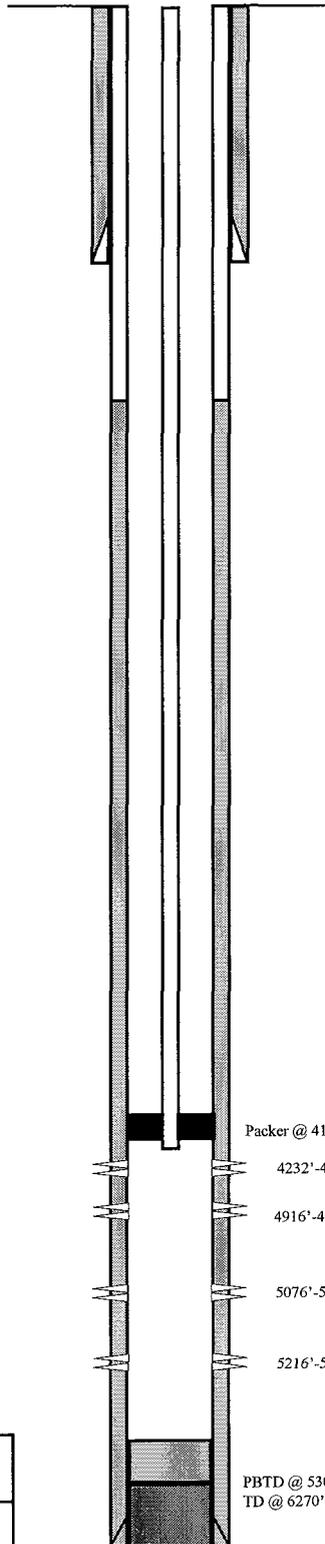
1000 gal 15% Acid (250 gal per set of perms)

PRODUCTION CASING

STRING: 1  
CSG SIZE: 4 1/2"  
GRADE: J-55  
WEIGHT: 11.60 lbs.  
LENGTH: 5326'  
DEPTH LANDED: 5336' KB  
HOLE SIZE: 7 7/8"  
CEMENT DATA: 500 sx 50-50 pozmix w/  
1% CFR-2 & 10% salt.  
CEMENT TOP AT: 3262' KB from CBL.

Tubing Record

SIZE/GRADE/WT.: 2 3/8", J-55, 4.6#  
NO. OF JOINTS: 132 jts. @ 4159.63'  
PACKER: 4163'  
SEATING NIPPLE: 4160.73'  
TOTAL STRING LENGTH: 4163.73'



PERFORATION RECORD

4232'-4246'	9 shots	14'
4916'-4932'	10 shots	16'
5075'-5077'	3 shots	2'
5216'-5220'	3 shots	4'

Packer @ 4163'

4232'-4246'

4916'-4932'

5076'-5077'

5216'-5220'

PBTD @ 5300'  
TD @ 6270'



**Inland Resources Inc.**

**Allen Federal #1-5A-9-17**

660 FNL & 660 FWL  
NWNW Section 5-T9S-R17E  
Duchesne Co, Utah  
API #43-013-15780; Lease #U-020252

Analytical Laboratory Report for:

Inland Production



BJ Unichem  
Chemical Services

UNICHEM Representative: Rick Crosby

## Production Water Analysis

Listed below please find water analysis report from: JWL, PIS #2

Lab Test No: 2002403193      Sample Date: 10/14/2002  
Specific Gravity: 1.002

TDS: 554  
pH: 7.50

Cations:	mg/L	as:
Calcium	64	(Ca <sup>++</sup> )
Magnesium	39	(Mg <sup>++</sup> )
Sodium	46	(Na <sup>+</sup> )
Iron	0.20	(Fe <sup>++</sup> )
Manganese	0.00	(Mn <sup>++</sup> )
Anions:	mg/L	as:
Bicarbonate	244	(HCO <sub>3</sub> <sup>-</sup> )
Sulfate	90	(SO <sub>4</sub> <sup>-</sup> )
Chloride	71	(Cl <sup>-</sup> )
Gases:		
Carbon Dioxide		(CO <sub>2</sub> )
Hydrogen Sulfide	0	(H <sub>2</sub> S)

Analytical Laboratory Report for:  
Inland Production



BJ Unichem  
Chemical Services

UNICHEM Representative: Rick Crosby

## Production Water Analysis

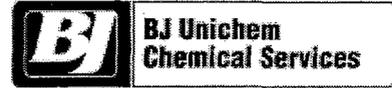
Listed below please find water analysis report from: Tar Sands, 9-31-8-17

Lab Test No: 2003400391      Sample Date: 02/13/2003  
Specific Gravity: 1.011  
TDS: 14500  
pH: 8.30

Cations:	mg/L	as:
Calcium	120	(Ca <sup>++</sup> )
Magnesium	0.00	(Mg <sup>++</sup> )
Sodium	5359	(Na <sup>+</sup> )
Iron	1.40	(Fe <sup>++</sup> )
Manganese	0.10	(Mn <sup>++</sup> )
Anions:	mg/L	as:
Bicarbonate	1220	(HCO <sub>3</sub> <sup>-</sup> )
Sulfate	0	(SO <sub>4</sub> <sup>=</sup> )
Chloride	7800	(Cl <sup>-</sup> )
Gases:		
Carbon Dioxide		(CO <sub>2</sub> )
Hydrogen Sulfide	0	(H <sub>2</sub> S)

Inland Production

Lab Test No: 2003400391



**DownHole SAT™ Scale Prediction  
@ 120 deg. F**

Mineral Scale	Saturation Index	Momentary Excess (lbs/1000 bbls)
Calcite (CaCO3)	34.28	17.64
Aragonite (CaCO3)	28.68	17.51
Witherite (BaCO3)	0	-4.11
Strontianite (SrCO3)	0	-.978
Magnesite (MgCO3)	0	-2.41
Anhydrite (CaSO4)	0	-606.59
Gypsum (CaSO4*2H2O)	0	-692.37
Barite (BaSO4)	0	-5.95
Celestite (SrSO4)	0	-153.93
Silica (SiO2)	0	-71.75
Brucite (Mg(OH)2)	0	-4.52
Magnesium silicate	0	-229.38
Siderite (FeCO3)	228.76	.201
Halite (NaCl)	< 0.001	-184816
Thenardite (Na2SO4)	0	-53404
Iron sulfide (FeS)	0	-.0166

**Interpretation of DHSat Results:**

The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The scale is logarithmic, i.e. a Saturation Index of 3 is 10 times more saturated than a value of 2.

The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) infinity to positive (precipitating) infinity. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.

DownHole SAT(tm)  
 MIXED WATER DEPOSITION POTENTIAL INDICATORS

1) Johnson Water

2) TS 9-31-8-17

Report Date: 02-18-2003

SATURATION LEVEL

Calcite (CaCO3)	28.80
Aragonite (CaCO3)	24.09
Anhydrite (CaSO4)	0.00511
Gypsum (CaSO4*2H2O)	0.00497
Barite (BaSO4)	0.00
Hydroxyapatite	0.00
Iron hydroxide (Fe(OH)3)	5333
Siderite (FeCO3)	374.32
Iron sulfide (FeS)	0.00

MOMENTARY EXCESS (Lbs/1000 Barrels)

Calcite (CaCO3)	14.39
Aragonite (CaCO3)	14.26
Witherite (BaCO3)	-3.29
Strontianite (SrCO3)	-0.786
Anhydrite (CaSO4)	-492.39
Gypsum (CaSO4*2H2O)	-563.30
Barite (BaSO4)	-0.680
Hydroxyapatite	-293.57
Iron hydroxide (Fe(OH)3)	< 0.001
Siderite (FeCO3)	0.273
Iron sulfide (FeS)	-0.0142

SIMPLE INDICES

Langelier	1.69
Stiff Davis Index	1.75

BOUND IONS

	TOTAL	FREE
Calcium	92.11	65.62
Barium	0.00	0.00
Carbonate	105.51	25.97
Phosphate	0.00	0.00
Sulfate	45.00	38.87

OPERATING CONDITIONS

Temperature (°F)	120.00
Time (mins)	3.00

UNICHEM - Corporate Office  
 14505 Torrey Chase Boulevard, Houston, Texas 77014

**Attachment "G"**

**Tar Sands Federal 9-31-8-17  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5753	5759	5756	1812	0.75	1800
5298	5420	5359	1796	0.77	1785
4925	5053	4989	3432	1.13	3421
				<b>Minimum</b>	<u><u>1785</u></u>

Calculation of Maximum Surface Injection Pressure  
 $P_{max} = (\text{Frac Grad} - (0.433 \times 1.005)) \times \text{Depth of Top Perf}$   
 where pressure gradient for the fresh water is .433 psi/ft and  
 specific gravity of the injected water is 1.005.

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

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



Attachment G-1  
Page 1 of 3

**DAILY COMPLETION REPORT**

WELL NAME Tar Sands Fed 9-31 Report Date 10/1/97 Completion Day 3  
 Present Operation Perf A sand. Rig Basin #2

**WELL STATUS**

Surf Csg: 8-5/8 @ 299' KB Liner @ Prod Csg 5-1/2 @ 5942 Csg PBD: 5897  
 Tbg: Size 2-7/8 Wt 6.5# Grd M-50 Pkr/EOT @ BP/Sand PSTD:

**PERFORATION RECORD**

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
CP	5753-59'	4/24			

**CHRONOLOGICAL OPERATIONS**

Date Work Performed: 9/30/97 BITP: SICP 100  
 Bleed gas off csg. IFL @ 5700'. Made 2 swab runs, rec 1 BW. FFL @ 5800'. TOH w/tbg. NU Isolation tool. RU Halliburton & frac CP sands w/95,900# 20/40 sd in 522 bbls Boragel. Perfs broke @ 3550 psi. Treated @ ave press of 1700 psi w/ave rate of 26 BPM. ISIP: 1812 psi, 5 min: 1727 psi. Flowback on 12/64" choke for 3 hrs & died. Rec 146 BTF (est 28% of load). SIFN w/est 376 BWTR.

**FLUID RECOVERY (BBL'S)**

Starting fluid load to be recovered	<u>522</u>	Starting oil rec to date	<u>0</u>
Fluid lost/recovered today	<u>148</u>	Oil lost/recovered today	<u>0</u>
Ending fluid to be recovered	<u>376</u>	Cum oil recovered	<u>0</u>
IFL <u>5700</u> FFL <u>5800</u> FTP		Choke <u>12/64</u> Final Fluid Rate	<u>Final oil out</u>

**STIMULATION DETAIL**

Base Fluid used: Boragel Job Type: Sand Frac  
 Company: Halliburton  
 Procedure:  
3000 gal pad  
1000 gal w/1-6 ppg of 20/40 sd  
7000 gal w/6-8 ppg of 20/40 sd  
5244 gal w/8-10 ppg of 20/40 sd  
Flush w/5668 gal of 10# Linear gel.

**COSTS**

Basin rig	<u>730</u>
BOP	<u>140</u>
Tanks	<u>80</u>
HOT	<u>798</u>
Frac	<u>20,490</u>
Flowback - super	<u>150</u>
IPC Supervision	<u>200</u>
Wtr	<u>650</u>

Max TP 3650 Max Rate 26.7 Total fluid pmpd: 522 bbls  
 Avg TP 1700 Avg Rate 26 Total Prop pmpd: 95,900#  
 ISIP 1812 5 min 1727 10 min 15 min  
 Completion Supervisor: Gary Dietz

DAILY COST: \$23,248  
 TOTAL WELL COST: \$197,825



**DAILY COMPLETION REPORT**

**WELL NAME** Tar Sands Fed 9-31 **Report Date** 10/3/97 **Completion Day** 5  
**Present Operation** Perf D/C sands. **Rig** Basin #2

**WELL STATUS**

**Surf Csg:** 8-5/8 @ 299' KB **Liner** @ **Prod Csg** 5-1/2 @ 5942 **Csg PBTD** 5897  
**Tbg:** Size 2-7/8 **Wt** 8.5# **Grd** M-50 **Pkr/EOT @** BWSand PBTD: 5880

**PERFORATION RECORD**

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
A	5298-5300'	4/8	A	5410-14'	4/16
A	5304-08'	4/8	A	5418-20'	4/8
A	5338-41'	4/12	CP	5753-59'	4/24
A	5387-5402'	4/80			
A	5405-08'	4/12			

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** 10/2/97 **SITP:** 0 **SICP** 0  
 IFL @ 5100'. Made 3 swab runs, rec 5 BTF w/tr oil. FFL @ 5400'. TOH w/tbg. NU isolation tool. RU Halliburton & frac A sands w/127,200# 20/40 sd in 830 bbls Boragel. Perfs broke dn @ 3084 psi. Treated @ ave press of 1500 psi w/ave rate of 42.2 bpm. ISIP: 1796 psi, 5 min: 1765 psi. Flowback on 12/64" choke for 3-1/2 hrs & died. Rec 112 BTF (est 18% of load). SIFN w/est 772 BWTR.

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered** 260 **Starting oil rec to date** 0  
**Fluid lost/recovered today** 512 **Oil lost/recovered today** 0  
**Ending fluid to be recovered** 772 **Cum oil recovered** 0  
**IFL** 5100 **FFL** 5400 **FTP**  **Choke** 12/64 **Final Fluid Rate**  **Final oil out** Tr.

**STIMULATION DETAIL**

**Base Fluid used:** Boragel **Job Type:** Sand Frac  
**Company:** Halliburton  
**Procedure:**  
4000 gal of pad  
1000 gal w/1-8 ppg of 20/40 sd  
10,000 gal w/8-8 ppg of 20/40 sd  
6256 gal w/8-10 ppg of 20/40 sd  
Flush w/5211 gal of 10# Linear gel.

**COSTS**

**Basin rig** 795  
**BOP** 140  
**Tanks** 90  
**Wtr** 850  
**HOT** 874  
**Frac** 24,080  
**Flowback - super** 150  
**IPC Supervision** 200

**Max TP** 3084 **Max Rate** 43.9 **Total fluid pmpd:** 830 bbls  
**Avg TP** 1500 **Avg Rate** 42.2 **Total Prop pmpd:** 127,200#  
**ISIP** 1796 **5 min** 1765 **10 min**  **15 min**   
**Completion Supervisor:** Gary Dietz

**DAILY COST:** \$27,179  
**TOTAL WELL COST:** \$230,709



DAILY COMPLETION REPORT

WELL NAME Tar Sands Fed 9-31 Report Date 10/5/97 Completion Day 7
Present Operation Pull plugs. Rig Basin #2

WELL STATUS

Surf Csg: 8-5/8 @ 299' KB Liner @ Prod Csg 5-1/2 @ 5942 Csg PBDT 5897
Tbg: Size 2-7/8 Wt 6.5# Grd M-50 Pkr/EOT @ BP/Sand PBDT: 5085

PERFORATION RECORD

Table with 6 columns: Zone, Perfs, SPF/#shots, Zone, Perfs, SPF/#shots. Rows include zones D, C, A and A with various perforation depths and rates.

CHRONOLOGICAL OPERATIONS

Date Work Performed: 10/4/97 SITP: 0 SICP 0
IFL @ 4300'. Made 5 swab runs, rec 12 BTF w/tr oil. FFL @ 5000'. TOH w/tbg. NU isolation tool. RU Halliburton & frac D & C perfs w/104,300# 20/40 sd in 518 bbls Boragel. Perfs broke dn @ 2388 psi. Treated @ ave press of 2560 psi w/ave rate of 30 bpm. ISIP: 3432 psi, 5 min: 3367 psi. Flowback on 12/64" choke for 2-1/2 hrs & died. Rec 76 BTF (est 15% of load). SIFN w/est 574 BWTR.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered 662 Starting oil rec to date 0
Fluid lost/recovered today 88 Oil lost/recovered today 0
Ending fluid to be recovered 574 Cum oil recovered 0
IFL 4300 FFL 5000 FTP Choke 12/64 Final Fluid Rate Final oil cut Tr.

STIMULATION DETAIL

Base Fluid used: Boragel Job Type: Sand Frac
Company: Halliburton
Procedure:
3000 gal of pad
1000 gal w/1-6 ppg of 20/40 sd
8000 gal w/6-8 ppg of 20/40 sd
4939 gal w/8-10 ppg of 20/40 sd
Flush w/4837 gal of 10# Linear gel.

COSTS

Basin rig 925
BOP 140
Tanks 90
Wtr 800
HOT 798
Frac 21,325
Flowback - super 150
IPC Supervision 200

Max TP 3510 Max Rate 30.7 Total fluid pmpd: 518 bbls
Avg TP 2560 Avg Rate 30 Total Prop pmpd: 104,300#
ISIP 3432 5 min 3367 10 min 15 min
Completion Supervisor: Gary Dietz

DAILY COST: \$24,428
TOTAL WELL COST: \$260,160

ATTACHMENT H

WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4830'.
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class G cement.
3. Plug #2 Set 200' plug from 2000'-2200' with 25 sx Class "G" cement.
4. Plug #3 Pump 41 sx Class G cement down 5-1/2" to 349'.

The approximate cost to plug and abandon this well is \$33,025.

# Tar Sands Federal #9-31-8-17

Spud Date: 8/30/97  
 Put on Production: 10/9/97  
 GL: 5312' KB: 5322'

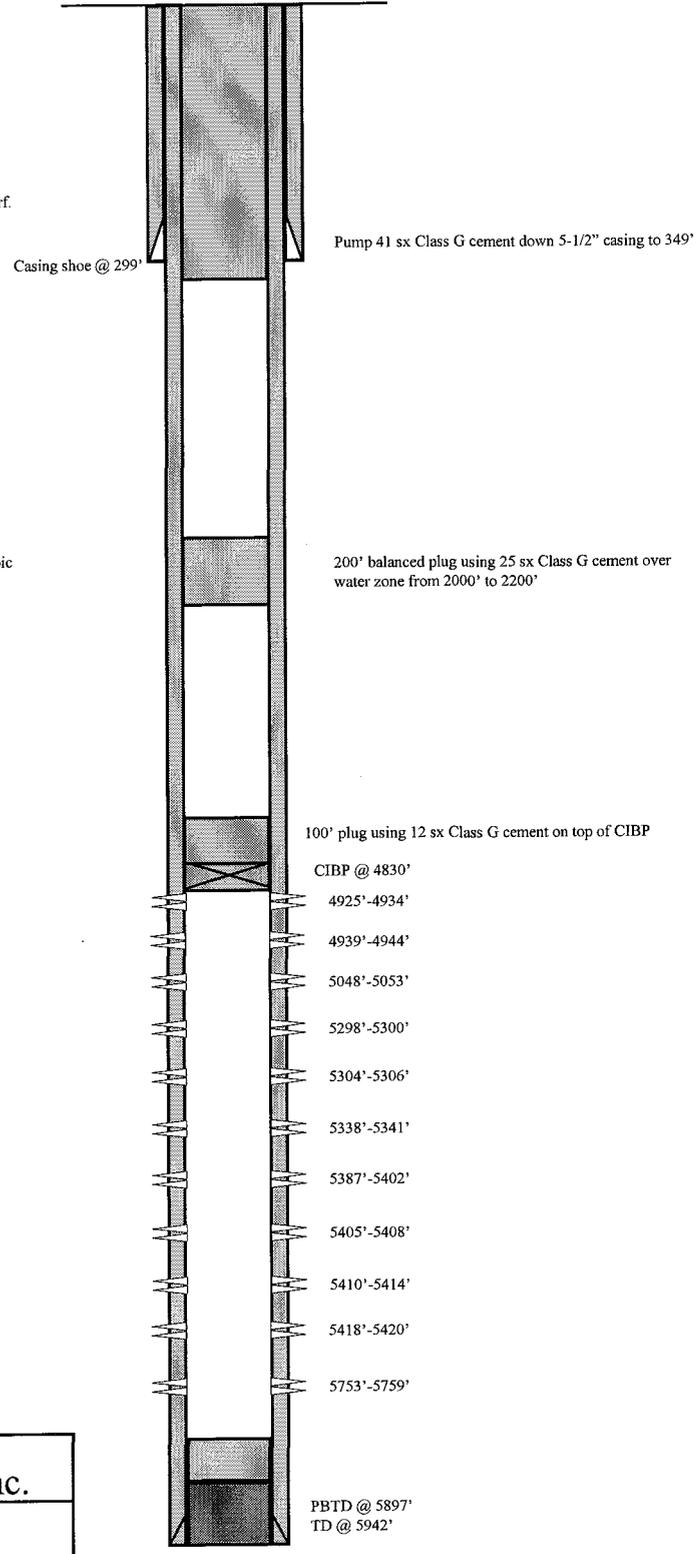
Proposed P & A Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (289')  
 DEPTH LANDED: 299' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 140 sxs Premium cmt, est 8 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 147 jts. (5931')  
 DEPTH LANDED: 5942' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 295 sk HiBond mixed & 285 sxs thixotropic  
 CEMENT TOP AT: Surface



 <p><b>Inland Resources Inc.</b></p> <p><b>Tar Sands Federal #9-31-8-17</b></p> <p>2168 FSL &amp; 741 FEL</p> <p>NESE Section 31-T8S-R17E</p> <p>Duchesne Co, Utah</p> <p>API #43-013-31616; Lease #U-74869</p>
--

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

**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

	5. Lease Designation and Serial No. U-74869
	6. If Indian, Allottee or Tribe Name NA
<i>SUBMIT IN TRIPLICATE</i>	7. If unit or CA, Agreement Designation  Sand Wash
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas well <input type="checkbox"/> Other	8. Well Name and No. Tar Sands Fed. 9-31-8-17
2. Name of Operator <b>INLAND PRODUCTION COMPANY</b>	9. API Well No. 43-013-31616
3. Address and Telephone No. <b>410 17th Street, Suite 700, Denver, Colorado 80202      (303) 893-0102</b>	10. Field and Pool, or Exploratory Area Monument Butte
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  NE/SE      2168' FSL, 741' FEL      Sec. 31, T8S, R17E	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 checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input 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 checked="" type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other _____	<input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

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

Please see attached injection application.

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

Signed David Gerbig Title Operations Engineer Date 3-3-03

(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.

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

**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

<b>SUBMIT IN TRIPLICATE</b>	5. Lease Designation and Serial No. <b>U-74869</b>
	6. If Indian, Allottee or Tribe Name <b>NA</b>
	7. If unit or CA, Agreement Designation <b>Sand Wash</b>
	8. Well Name and No. <b>Tar Sands Fed. 9-31-8-17</b>
	9. API Well No. <b>43-013-31616</b>
	10. Field and Pool, or Exploratory Area <b>Monument Butte</b>
	11. County or Parish, State <b>Duchesne County, Utah</b>

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 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 checked="" 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)

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Signed David Gerbig Title Operations Engineer Date 3-3-03  
**David Gerbig**

(This space of Federal or State office use.)

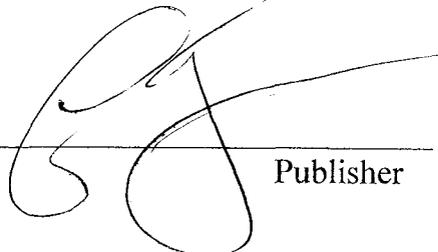
Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
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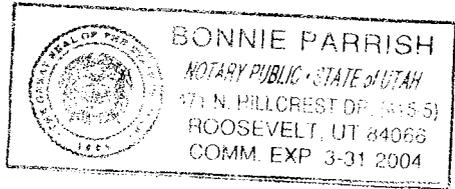
**AFFIDAVIT OF PUBLICATION**

County of Duchesne,  
STATE OF UTAH

I, Craig L. Ashby on oath, say that I am the PUBLISHER 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 18 day of March, 2003, and that the last publication of such notice was in the issue of such newspaper dated the 18 day of March, 2003.

  
\_\_\_\_\_  
Publisher

Subscribed and sworn to before me this  
18 day of March, 2003  
Bonnie Parrish  
\_\_\_\_\_  
Notary Public



**NOTICE OF  
AGENCY  
ACTION  
CAUSE  
NO. UIC 306**

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

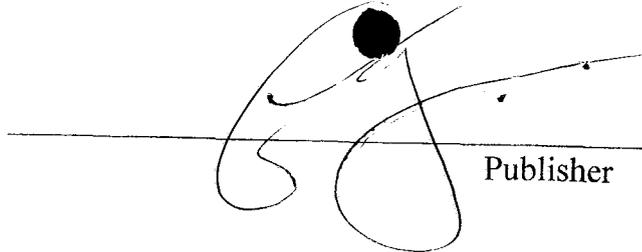
IN THE MATTER OF THE APPLICATION OF INLAND PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF THE TAR SANDS FEDERAL 9-31-8-17 WELL LOCATED IN SEC. 31, T8S, R17E, AND BALCRON FEDERAL 24-3Y-9-17 WELL LOCATED IN SEC. 3, T9S, R17E, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS

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 Inland Production Company for administrative approval of the Tar Sands Federal 9-31-8-17 well, located in NE/4 SE/4 Sec. 31, T8S, R17E, and Balcron Federal 24-3Y-9-17 well located in Sec. 3, T9S, R17E, Duchesne County, Utah, for conversion to Class II injection wells. These wells are located in the Sand Wash and Black Jack Units. The adjudicative proceeding will be conducted informally according to Utah Admin. Rule R649-10, Administrative Procedures.

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

Any person desiring to object to the proposed application or otherwise intervene in the proceeding

  
\_\_\_\_\_  
Publisher

Subscribed and sworn to before me this  
18 day of March, 2003

Bonnie Parrish  
\_\_\_\_\_  
Notary Public



WELLS  
THE STATE OF UTAH  
TO ALL PERSONS INTERESTED IN THE  
ABOVE ENTITLED  
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Selective zones in the Green River Formation will be used for water injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Inland Production Company.

Any person desiring to object to the proposed 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 this proceeding is John R. Baza, Associate Director at PO Box 145801, Salt Lake City, Utah 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 procedure rule. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 11th day of March, 2003.

STATE OF UTAH  
DIVISION OF OIL,  
GAS & MINING

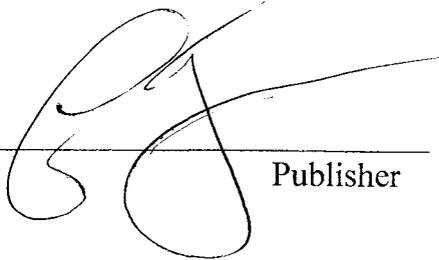
John R. Baza  
Associate Director

Published in the Uintah  
Basin Standard March 18,  
2003.

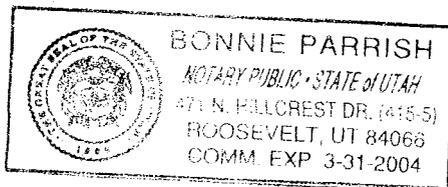
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\_\_\_\_\_  
Publisher

Subscribed and sworn to before me this  
18 day of March, 2003  
Bonnie Parrish  
\_\_\_\_\_  
Notary Public



## NOTICE OF AGENCY ACTION CAUSE NO. UIC 306

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

IN THE MATTER OF THE APPLICATION OF INLAND PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF THE TAR SANDS FEDERAL 9-31-8-17 WELL LOCATED IN SEC. 31, T8S, R17E, AND BALCRON FEDERAL 24-3Y-9-17 WELL LOCATED IN SEC. 3, T9S, R17E, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS

42 013 3/6/06

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 Inland Production Company for administrative approval of the Tar Sands Federal 9-31-8-17 well, located in NE/4 SE/4 Sec. 31, T8S, R17E, and Balcron Federal 24-3Y-9-17 well located in Sec. 3, T9S, R17E, Duchesne County, Utah, for conversion to Class II injection wells. These wells are located in the Sand Wash and Black Jack Units. The adjudicative proceeding will be conducted informally according to Utah Admin. Rule R649-10, Administrative Procedures.

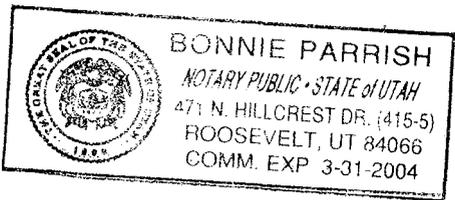
Selective zones in the Green River Formation will be used for water injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Inland Production Company.

Any person desiring to object to the proposed application or otherwise intervene in the proceeding.

*[Handwritten Signature]*  
\_\_\_\_\_  
Publisher

Subscribed and sworn to before me this  
18 day of March, 2003

*[Handwritten Signature]*  
\_\_\_\_\_  
Notary Public



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 Inland Production Company for administrative approval of the Tar Sands Federal 9-31-8-17 well, located in NE/4 SE/4 Sec. 31, T8S, R17E, and Balcron Federal 24-3Y-9-17 well located in Sec. 3, T9S, R17E, Duchesne County, Utah, for conversion to Class II injection wells. These wells are located in the Sand Wash and Black Jack Units. The adjudicative proceeding will be conducted informally according to Utah Admin. Rule R649-10, Administrative Procedures.

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

Any person desiring to object to the proposed 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 this proceeding is John R. Baza, Associate Director at PO Box 145801, Salt Lake City, Utah 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 procedure rule. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 11th day of March, 2003.

STATE OF UTAH  
DIVISION OF OIL,  
GAS & MINING  
John R. Baza  
Associate Director  
Published in the Uintah  
Basin Standard March 18,  
2003.

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

---

IN THE MATTER OF THE APPLICATION :  
OF INLAND PRODUCTION COMPANY :  
FOR ADMINISTRATIVE APPROVAL OF : NOTICE OF AGENCY ACTION  
THE TAR SANDS FEDERAL 9-31-8-17 :  
WELL LOCATED IN SEC. 31, T8S, R17E, : CAUSE NO. UIC 306  
AND BALCRON FEDERAL 24-3Y-9-17 :  
WELL LOCATED IN SEC. 3, T9S, R17E, : ,  
DUCHESNE COUNTY, UTAH, AS CLASS II :  
INJECTION WELLS

---

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

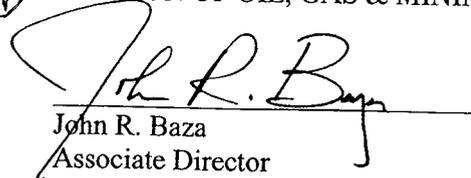
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Dated this 11th day of March, 2003.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

  
John R. Baza  
Associate Director

PUBLISHED IN  
UNION BASIN  
03-18-03

STANDARD

**Inland Production Company**  
**Tar Sands Federal 9-31-8-17 and Balcron Federal 24-3Y-9-17**  
**Cause No. UIC 306**

Publication Notices were sent to the following:

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

Uintah Basin Standard  
268 S 200 E  
Roosevelt UT 84066-3109

via E-Mail and Facsimile (801) 237-2776  
Salt Lake Tribune  
PO Box 45838  
Salt Lake City, UT 84145

Vernal District Office  
Bureau of Land Management  
170 S 500 E  
Vernal UT 84078

Duchesne County Planning  
PO Box 317  
Duchesne UT 84021-0317

Dan Jackson  
US EPA Region VIII, Suite 5000  
999 18th Street  
Denver, CO 80202-2466

  
\_\_\_\_\_  
Earlene Russell  
Executive Secretary  
March 11, 2003

**From:** "NAC LEGAL" <naclegal@nacorp.com>  
**To:** "Earlene Russell" <EARLENERUSSELL@utah.gov>  
**Date:** 3/12/03 8:43AM  
**Subject:** Re: Cause # UIC 306

Please check the ad in the paper on Saturday, March 15th.  
Thank you.

----- Original Message -----

From: Earlene Russell  
To: naclegal@nacorp.com  
Sent: Tuesday, March 11, 2003 4:59 PM  
Subject: Cause # UIC 306

Please let me know when the publication date will be.

Thanks.

TRANSACTION REPORT

P. 01

MAR-11-2003 TUE 05:03 PM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
MAR-11	05:03 PM	2372776	43"	2	SEND	OK	471	
TOTAL :						43S PAGES:	2	



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

1594 West North Temple, Suite 1210  
 PO Box 145801  
 Salt Lake City, Utah 84114-5801  
 (801) 538-5340 telephone  
 (801) 359-3940 fax  
 (801) 538-7223 TTY  
 www.nr.utah.gov

Michael O. Leavitt  
 Governor  
 Robert L. Morgan  
 Executive Director  
 Lowell P. Braxton  
 Division Director

March 11, 2003

SENT VIA E-MAIL AND FAX (801) 237-2776

Salt Lake Tribune  
 PO Box 45838  
 Salt Lake City, UT 84145

RE: Notice of Agency Action - Cause No. UIC 306

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

*[Handwritten signature]*



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

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
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Sincerely,

*Earlene Russell*  
Earlene Russell  
Executive Secretary

encl.

TRANSACTION REPORT

P. 01

MAR-11-2003 TUE 05:02 PM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
MAR-11	05:02 PM	14357224140	41"	2	SEND	OK	470	

TOTAL : 41S PAGES: 2



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

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Michael O. Leavitt  
Governor  
Robert L. Morgan  
Executive Director  
Lowell P. Braxton  
Division Director

March 11, 2003

SENT VIA E-MAIL AND FAX

Uintah Basin Standard  
268 S 200 E  
Roosevelt UT 84066-3109

RECEIVED

MAR 12 2003

DIV. OF OIL, GAS & MINING

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Sincerely,



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

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
(801) 538-5340 telephone  
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www.nr.utah.gov

Michael O. Leavitt  
Governor  
Robert L. Morgan  
Executive Director  
Lowell P. Braxton  
Division Director

March 11, 2003

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Uintah Basin Standard  
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Sincerely,

*Earlene Russell*  
Earlene Russell  
Executive Secretary

encl.



## 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

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



# 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



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

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

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

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

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

**DATA ENTRY:**

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

**FEDERAL WELL(S) BOND VERIFICATION:**

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

**INDIAN WELL(S) BOND VERIFICATION:**

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

**FEE & STATE WELL(S) BOND VERIFICATION:**

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

**LEASE INTEREST OWNER NOTIFICATION:**

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

**COMMENTS:**

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
999 18<sup>TH</sup> STREET - SUITE 200  
DENVER, CO 80202-2466  
Phone 800-227-8917  
<http://www.epa.gov/region08>

JAN 18 2007

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

David Gerbig  
Operations Engineer  
Newfield Production Company  
1401 Seventeenth Street - Suite 1000  
Denver, CO 80202

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

RECEIVED

JAN 24 2007

DIV. OF OIL, GAS & MINING

43,013,316/6  
85 17E 31  
RE: Additional Well to Sand Wash Area Permit  
UIC Permit No. UT20847-00000  
Well ID: UT20847-06171  
Tar Sands Federal No. 9-31-8-17  
Duchesne County, Utah

Dear Mr. Gerbig:

The Newfield Production Company (Newfield) request to convert the Tar Sands Federal No. 9-31-8-17 well to a Green River Formation enhanced recovery injection well is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions of the enclosed Authorization For Additional Well.

The addition of Tar Sands Federal No. 9-31-8-17, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 Code of Federal Regulations (CFR) §144.33 (c) and terms of the Sand Wash Area Permit, Underground Injection Control (UIC) Area Permit No. UT20847-00000. Unless specifically mentioned in the enclosed Authorization For Additional Well, Tar Sands Federal No. 9-31-8-17 is subject to all terms and conditions of the UIC Area Permit UT20847-00000, as modified.

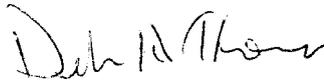


Please be aware that Newfield does not have authorization to begin injection operations into the well until all Prior to Commencing Injection requirements have been submitted and evaluated by the EPA, and Newfield has received written authorization from the Director to begin injection. Please note that the Permit limits injection to the gross interval within the Green River Formation between the depths of 3870 feet and the top of the Wasatch Formation, estimated to be 6239 feet.

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

If you have any questions, please call Emmett Schmitz at (303) 312-6174 or 1-800-227-8917 (Ext. 6174). Please submit the required data to the **ATTENTION: EMMETT SCHMITZ at the new EPA mailing address: 1595 WYNKOOP 80202**, citing **MAIL CODE: 8P-W-GW** very prominently.

Sincerely,



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

encl: Authorization for Conversion of an Additional Well  
EPA Form No. 7520-12 (Well Rework Record)  
Schematic Diagram Proposed Conversion: Tar Sands Federal 9-31-8-17  
Schematic Diagram Proposed Plug & Abandonment: Tar Sands Federal 9-31-8-17  
Ground Water Section Guidance No. 37 (Part II External MIT)  
Ground Water Section Guidance No. 39 (Part I Internal MIT)

cc: without enclosures

Maxine Natchees  
Chairperson  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Chester Mills  
Superintendent  
U.S. Bureau of Indian Affairs  
Uintah & Ouray Indian Agency

cc: with enclosures

Lynn Becker  
Director  
Energy & Minerals Dept.  
Ute Indian Tribe

Shaun Chapoose  
Director  
Land Use Dept.  
Ute Indian Tribe

Michael Guinn  
Vice President - Operations  
Newfield Production Company  
Myton, Utah

Gilbert Hunt  
Associate Director  
State of Utah  
Division of Oil, Gas, and Mining

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



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

REGION 8  
999 18<sup>TH</sup> STREET - SUITE 200  
DENVER, CO 80202-2466  
Phone 800-227-8917  
<http://www.epa.gov/region08>

**RECEIVED**  
**JAN 24 2007**  
DIV. OF OIL, GAS & MINING

**AUTHORIZATION FOR ADDITIONAL WELL**

**UNDERGROUND INJECTION CONTROL (UIC) AREA PERMIT NO: UT20847-00000**

The Final UIC Sand Wash Area Permit No. UT20847-00000, effective May 26, 1998, authorized enhanced recovery injection into the Garden Gulch and Douglas Creek Members of the Green River Formation. A Major Permit Modification No. 2, effective September 9, 2003, authorized injection for the purpose of enhanced oil recovery into multiple lenticular sand and carbonate units which are distributed throughout the Garden Gulch-Douglas Creek- Basal Carbonate Members of the Green River Formation.

On March 3, 2003, the permittee, Inland Production Company (Inland) submitted notice to the Director requesting an additional enhanced recovery injection well for the Sand Wash Area Permit. However, Inland later requested that an authorization for the Tar Sands Federal No. 9-31-8-17 be postponed.

On December 8, 2005, Newfield Production Company (Newfield), the successor to Inland, requested the Environmental Protection Agency (EPA) to permit the Tar Sands Federal No. 9-31-8-17 as an Additional Well to the Sand Wash Area Permit.

Well Name:	<b><u>Tar Sands Federal No. 9-31-8-17</u></b>
EPA Well ID Number:	<b><u>UT20847-06171</u></b>
Location:	2168 ft FSL & 741 ft FEL NE SE Sec. 31 - T8S - R17E Duchesne County, Utah.

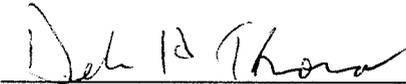
Pursuant to 40 Code of Federal Regulations (CFR) §144.33, UIC Sand Wash Area Permit No. UT20847-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the Permit.



This well is subject to all provisions of UIC Area Permit No. UT20847-00000, and as modified. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: 01/18/07

  
\_\_\_\_\_  
**Stephen S. Tuber**

\*Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

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

## WELL-SPECIFIC REQUIREMENTS

Well Name: Tar Sands Federal 9-31-8-17

EPA Well ID Number: UT20847-06171

**Prior to commencing injection operations, the permittee shall submit the following information and receive written Authority to Inject from the Director: (II. C. Condition 2).**

1. a successful Part I (Internal) Mechanical Integrity Test (MIT);
2. pore pressure calculation of the proposed injection zone;
3. completed Well Rework Record (EPA Form No. 7520-12) and schematic diagram.

### **Approved Injection Zone:**

**(II. C. Condition C. 4)**

Injection is approved between the top of the Green River Formation Garden Gulch Member (3870 feet) and the top of the Wasatch Formation ( Estimated 6239 feet).

The Permittee has cited current Douglas Creek Member perforations proposed for enhanced recovery injection, i.e., gross 4925 feet - 5759 feet. The permittee is also authorized to perforate any additional intervals for enhanced recovery injection between the top of the Garden Gulch Member and the top of the Wasatch Formation during well conversion.

### **Determination of a Fracture Gradient:**

**(II. C. Condition 5. b. 1.)**

*“Using sand fracture treatment data, the EPA will calculate the Maximum Allowable Injection Pressure (MAIP) for each treated (sand-frac) interval using the instantaneous shut-in pressure (ISIP) from that interval. The minimum injection pressure calculated shall be the initial maximum allowable injection pressure limit for that well.”*

Of the three (3) sand/frac treatments conducted on the Tar Sands Federal No. 9-31-8-17, the minimum calculated fracture gradient (FG) is 0.750 psi/ft; a value not in accord with lesser FG values derived from Step-Rate Tests (SRT) in Sections 30 and 31 - T8S - R17E. The EPA will use the maximum Section 31- T8S - R17E SRT fracture gradient value of 0.685 psi/ft for MAIP calculation.

### **Maximum Allowable Injection Pressure (MAIP):**

**(II. C. Condition 5).**

The initial MAIP is **1210 psig**, based on the following calculation and a cited “top perforation”:

$$\begin{aligned} \text{MAIP} &= [\text{FG} - (0.433)(\text{SG})] D, \text{ where} \\ \text{FG} &= 0.685 \text{ psi/ft} \\ \text{SG} &= 1.015 \text{ (Approved by EPA)} \\ \text{D} &= 4925 \text{ (Top perforation depth)} \end{aligned}$$

$$\text{MAIP} = 1210 \text{ psig.}$$

UIC Area Permit No. UT20847-00000 also provides the opportunity for the permittee to request a change of the MAIP based upon results of a Step-Rate Test that demonstrates the formation breakdown pressure will not be exceeded.

**Well Construction and Corrective Action:**

**(II. A).**

No Corrective Action is required.

**Tubing and Packer:**

**(II. A. Condition 3).**

2-7/8" injection tubing is approved. The packer shall be set at a depth no more than 100 ft above the top perforation.

**Corrective Action for Wells in Area of Review: *No Corrective Action is required.*** The following Green River oil wells, within the one-quarter (1/4) mile radius around the Tar Sands Federal No. 9-31-8-17, were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs. Other than a weekly inspection of these locations for surface injectate leakage, no corrective action is required.

Tar Sands Federal No. 8-31-8-17

SE NE Section 31 - T8S - R17E

Tar Sands Federal No. 10-31-8-17

NW SE Section 31-T8S - R17E

Tar Sands Federal No. 31-2-8-17

SE SE Section 31 - T8S - R17E

Gilsonite State No. 12-32-8-17

NW SW Section 32 - T8S - R17E

**Demonstration of Mechanical Integrity:**

**(II. C. Condition 3).**

A successful demonstration of **Part I (Internal)** Mechanical Integrity Test using a standard Casing-Tubing pressure test is required prior to injection and at least once every five (5) years thereafter.

**Tar Sands Federal No. 9-31-8-17:** As the EPA is not able to establish an effective cement barrier to significant upward movement of fluids through vertical channels adjacent to the Confining Zone, pursuant to 40 CFR 146.8 (a)(2), the permittee shall conduct a **Part II (External)** Mechanical Integrity Test within a 180-day period of "Limited Authorization to Inject. A Part II (External) Mechanical Integrity Test shall be run at least once every five (5) years thereafter.

**Demonstration of Financial Responsibility:**

**(II. F. Condition 1).**

The applicant has demonstrated financial responsibility via an Annual Statement that has been reviewed and approved by the EPA. The Plugging and Abandonment cost has been estimated by the permittee to be \$33,500.

**(II. E. Condition 2).**

**Plugging and Abandonment Plan (P&A Plan):**

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between USDWs. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. Should the current uppermost perforations (4925 feet - 4934 feet) be changed, the EPA will modify this P&A Plan accordingly. At a minimum, the following plugs are required:

PLUG NO. 1: Remove downhole apparatus from the well and perform necessary clean out; displace well fluid with plugging gel. Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top perforation (4925 feet) with a minimum 20-foot cement plug on top.

PLUG NO. 2: Set a balanced cement plug 3000 feet to 3166 feet, i.e., approximately fifty (50) feet above the top of the Trona/Birds Nest interval (3052 feet) and fifty (50) feet below the base of the Mahogany Bench (3116 feet).

PLUG NO. 3: Set a minimum 100-foot cement plug across the top contact of the Green River Formation and the Uinta Formation, i.e., 1475 feet to 1575 feet.

PLUG NO. 4: Perforate 4 JSPF at 349 feet. Circulate Class "G" cement down the 5-1/2 inch casing to 349 feet, and up the 5-1/2 inch X 8-5/8 inch casings annulus to the surface.

Cut off surface and 5-1/2" casing at least 4 ft below ground level. Set P&A marker. Submit Sundry Notices and all necessary data as required by the EPA and other regulatory agencies.

**Reporting of Noncompliance:**

**(III. E.)**

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

**Twenty-Four Hour Noncompliance Reporting:**

**(II. E.).**

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

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

Oil Spill and Chemical Release Reporting:

**(II. E.).**

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

Other Noncompliance:

**(II. E.).**

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

Other Information:

**(II. E.)**

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

**WELL-SPECIFIC CONSIDERATIONS**

Well Name: **Tar Sands Federal No. 9-31-8-17**

EPA Well ID Number: **UT20847-06171**

**Current Status:** The Tar Sands Federal No. 9-31-8-17 is a producing Douglas Creek Member oil well currently waiting on EPA authorization to complete/convert to a Class II Green River Formation enhanced recovery injection well.

**Underground Sources of Drinking Water (USDWs):** USDWs in the Sand Wash Area Permit generally occur within the Uinta Formation. According to the "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the base of moderately saline ground water may be found at approximately 250 feet below ground surface.

**http://NRWRT1.NR.STATE.UT.US: (Water Rights...Queries...POD).** Within the one-quarter (1/4) mile Area-of-Review (AOR) around the Tar Sands Federal No. 9-31-8-17 there are no reservoirs, streams, springs, domestic or agricultural water wells.

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

- FORMATION TDS of Green River Formation water: 14,500 mg/l (Analysis: 2/13/03).
  
- JOHNSON WATER DISTRICT RESERVOIR TDS: 554 mg/l (Analysis: 10/14/02).

The **injectate** is primarily water from the Johnson Water District reservoir blended with minimal volumes of Sand Wash Unit produced Green River water.

**Per a December 20, 2006 agreement between the EPA and Newfield, the EPA will not require an “injectate” water analysis submittal with the Permit application as long as the “injectate” total dissolved solids does not exceed a Specific Gravity (SG) of 1.015. Therefore by this agreement, the EPA will use a standard Specific Gravity value of 1.015 when calculating the maximum allowable surface injection pressure (MAIP).**

**Confining Zone:**

The Confining Zone is seventy-one (71) feet of shale between the depths of 3799 feet and 3870 feet (KB) which directly overlies the Garden Gulch Member of the Green River Formation.

**Injection Zone:**

**(II. C. 4.)**

The Injection Zone is an approximate 2369-foot section of multiple lenticular sand units interbedded with shale, marlstone and limestone from the top of the Garden Gulch Member at 3870 ft (KB) to the top of the Wasatch Formation (estimated to be 6239 feet KB). All formation and formation Member tops are based on correlation to the Federal No.1-26-8-17 Type Log (UT20702-04671), NE NW Sec. 26 - T8S - R17E.

**Well Construction:**

**(II. A. 1.)**

There is no 80% bond index cement bond across the Confining Zone annulus.

Surface Casing: 8-5/8" casing is set at 299 (KB) in a 12-1/4" hole, using 140 sacks of cement which was circulated to the surface.

Longstring: 5-1/2" casing is set at 5942 feet (KB) in a 7-7/8" hole and secured with 580 sacks of cement. Calculated top of cement (TOC) by EPA: 2182 feet.

Perforations: Gross Perforations: 4925 feet to 5759 feet.

**Step-Rate Test (SRT):**

**(II. C. 2. d.)**

A Step-Rate Test may be required to confirm that the initial maximum authorized injection pressure (MAIP), based on sand/frac treatments, is appropriate to ensure that pressure during injection will not initiate new fractures or propagate existing fractures in the confining zone.

**Wells in Area of Review (AOR):**

The permittee shall observe the surface location of all wells cited within the one-quarter (1/4) mile AOR around the Tar Sands Federal No. 9-31-8-17 on a weekly basis. Should such injectate contamination be observed at the surface, the permittee shall immediately suspend injection into the Tar Sands Federal No. 9-31-8-17. The Tar Sands Federal No. 9-31-8-17 will stay suspended until the noncompliance has been resolved. Renewed injection shall be authorized by letter from the Director.

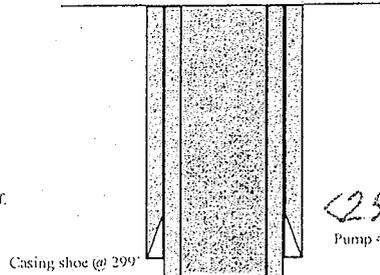
# Tar Sands Federal #9-31-8-17

Spud Date: 8/30/97  
 Put on Production: 10/9/97  
 GI: 5312' KB: 5322'

## Proposed P & A Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jcs. (289')  
 DEPTH LANDED: 299' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 140 sxs Premium cmt, est 8 bbls cmt to surf.



250' Base USDWs  
 Pump 41 sx Class G cement down 5-1/2" casing to 349'

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 147 jcs. (5931')  
 DEPTH LANDED: 5942' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 295 sk Hibond mixed & 285 sxs thixotropic  
 CEMENT TOP AT: Surface

*Balanced Plug 1475-1575*

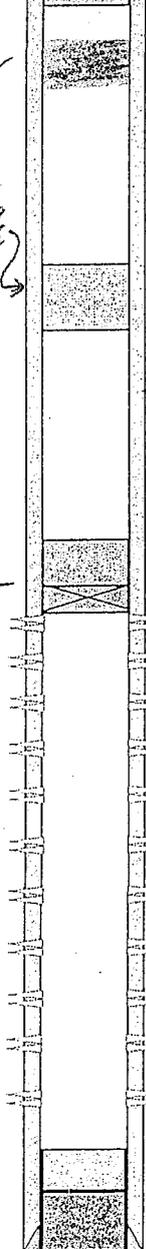
*Tonal Birds Nest 30522*  
*Mehozay Bench 3096*

*1524' Green River*  
*2182' TCC/PA*

*3005' } Balanced Cement Plug*  
*3166 }*

*3799'-3870' Confining Zone*  
*3870' Garden Gulch*

*Touglas Creek 4848'*



100' plug using 12 sx Class G cement on top of CIBP

CIBP @ 4830'  
 4925'-4934'  
 4939'-4944'  
 5048'-5053'  
 5298'-5300'  
 5304'-5306'  
 5338'-5341'  
 5387'-5402'  
 5405'-5408'  
 5410'-5414'  
 5418'-5420'  
 5753'-5759'

PBTD @ 5897'  
 TD @ 5942'

*Est 611' Garden Gulch*  
*Est 6239' Washakie*

**Inland Resources Inc.**  
 Tar Sands Federal #9-31-8-17  
 2168 FSL & 741 FEL  
 NESH Section 31-TSS-R17E  
 Duchesne Co, Utah  
 API #43-013-31616; Lease #U-74869

# Tar Sands Federal #9-31-8-17

Spud Date: 8/30/97  
 Put on Production: 10/9/97  
 GL: 5312' KB: 5322'

Initial Production: 131 BOPD,  
 127 MCFPD, 10 BWPD

## Proposed Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (289')  
 DEPTH LANDED: 299' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 140 sxs Premium cmt, est 8 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 147 jts. (5931')  
 DEPTH LANDED: 5942' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 295 sk HiBond mixed & 285 sxs thixotropic  
 CEMENT TOP AT: Surface

### TUBING

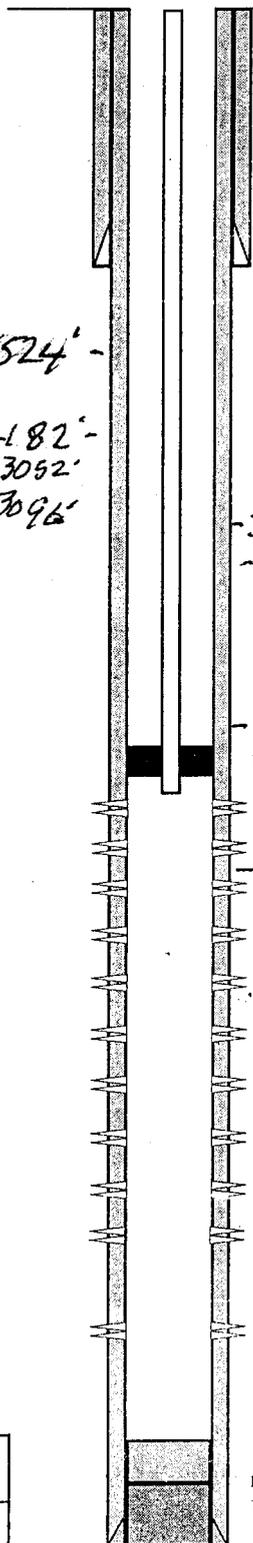
SIZE/GRADE/WT.: 2-7/8"/M-5016.5#  
 NO. OF JOINTS: 156 jts.  
 SEATING NIPPLE: 2-7/8"  
 SN LANDED AT: 4860' KB  
 PACKER @ 4864' KB  
 TOTAL STRING LENGTH: EOT @ 4865' KB

### FRAC JOB

10/1/97 5753'-5759' **Frac CP sand as follows:**  
 95,900# of 20/40 sand in 522 bbls of Boragel. Perfs Broke down @ 3650 psi. Treated @ avg press of 1700 psi w/avg rate of 26 bpm. ISIP-1812 psi, 5-min 1727 psi. Flowback on 12/64" ck for 3 hours and died.

10/3/97 5298'-5420' **Frac A sand as follows:**  
 127,200# of sand in 634 bbls of Boragel. Perfs brokedown @ 3084 psi. Treated @ avg press of 1500 psi w/avg rate of 42.2 bpm. ISIP-1796 psi, 5-min 1765 psi. Flowback on 12/64" ck for 3-1/2 hours and died.

10/5/97 4925'-5053' **Frac C/D sands as follows:**  
 104,300# of 20/40 sand in 518 bbls of Boragel. Perfs brokedown @ 2388 psi. Treated @ avg press of 2560 psi w/avg rate of 30 bpm. ISIP-3432 psi, 5-min 3367 psi. Flowback on 12/64" ck for 2-1/2 hours and died.



250 Base USDL -299'

Green River 1524'

TOC/EPA 2182'

Iron 2/Birds Nest 3052'

Mahogany B. 3096'

3799-3870 Confining Zone  
 3870 Garden Gulch

4848 Douglas Creek  
 Packer @ 4890'

80% Bond 5040-5084'

### PERFORATION RECORD

Date	Depth Range	Perforations	Holes
9/30/97	5753'-5759'	4 JSPF	24 holes
10/2/97	5298'-5300'	4 JSPF	8 holes
10/2/97	5304'-5306'	4 JSPF	8 holes
10/2/97	5338'-5341'	4 JSPF	12 holes
10/2/97	5387'-5402'	4 JSPF	60 holes
10/2/97	5405'-5408'	4 JSPF	12 holes
10/2/97	5410'-5414'	4 JSPF	16 holes
10/2/97	5418'-5420'	4 JSPF	3 holes
10/4/97	4925'-4934'	4 JSPF	36 holes
10/4/97	4939'-4944'	4 JSPF	20 holes
10/4/97	5048'-5053'	4 JSPF	20 holes

PBTD @ 5897'  
 TD @ 5942'

Est. 6114 Base Carb.  
 Est. 6239 Washack



Inland Resources Inc.

Tar Sands Federal #9-31-8-17

2168 FSL & 741 FEL

NESE Section 31-T8S-R17E

Duchesne Co. Utah

API #43-013-31616; Lease #U-74869



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION VIII  
999 18th STREET - SUITE 300  
DENVER, COLORADO 80202-2466

RECEIVED

JAN 24 2007

DIV. OF OIL, GAS & MINING

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 37  
Demonstrating Part II (external) Mechanical Integrity  
for a Class II injection well permit.

FROM: Tom Pike, Chief  
UIC Direct Implementation Section

TO: All Section Staff  
Montana Operations Office

During the review for a Class II injection well permit, consideration must be given to the mechanical integrity (MI) of the well. MI demonstrates that the well is in sound condition and that the well is constructed in a manner that prevents injected fluids from entering any formation other than the authorized injection formation.

A demonstration of MI is a two part process:

PART I - INTERNAL MECHANICAL INTEGRITY is an assurance that there are no significant leaks in the casing/tubing/packer system.

PART II - EXTERNAL MECHANICAL INTEGRITY demonstrates that after fluid is injected into the formation, the injected fluids will not migrate out of the authorized injection interval through vertical channels adjacent to the wellbore.

A Class II injection well may demonstrate Part II MI by showing that injected fluids remain within the authorized injection interval. This may be accomplished as follows:

- 1) Cement bond log showing 80% bond through the an appropriate interval (Section Guidance 34),
- 2) Radioactive tracer survey conducted according to a EPA-approved procedure, or
- 3) Temperature survey conducted according to a EPA-approved procedure (Section Guidance 38).

For each test option above, the operator of the injection well should submit a plan for conducting the test. The plan will then be approved (or modified and approved) by EPA. EPA's pre-approval of the testing method will assure the operator that the

test is conducted consistent with current EPA guidance, and that the test will provide meaningful results.

Part II MI may be demonstrated either before or after issuing the Final Permit. However, if Part II is to be demonstrated after the Final Permit is issued, a provision in the permit will require the demonstration of Part II MI. The well will also be required to pass Part II MI prior to granting authorization to inject.

Radioactive tracer surveys and temperature surveys require that the well be allowed to inject fluids as part of the procedure. In these cases, a well that has shown no other demonstration of Part II MI will be allowed to inject only that volume of fluid that is necessary to conduct the appropriate test.

After the results of the test proves that the well has passed Part II MI, the well will be given authorization to begin full injection operations.

If any of the tests show a lack of Part II MI, the well will be repaired and retested, or plugged (See Headquarters Guidance #76).

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

5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-74869
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: SAND WASH UNIT
8. WELL NAME and NUMBER: TAR SANDS FEDERAL 9-31-8-17
9. API NUMBER: 4301331616
10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

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

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 2163 FSL 722 FEL COUNTY: DUCHESNE  
OTR/OTR SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE, 31, T8S, R17E STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will be completed: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 02/28/2008	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: -
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
This well was converted from a producing oil well to an injection well on 2/28/08.  
On 2/29/08 Margo Smith with the EPA was contacted concerning the initial MIT on the above listed well. Permission was given at that time to perform the test on 3/5/08. On 3/5/08 the csg was pressured up to 1505 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 220 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT20847-06171 API# 43-013-31616

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

NAME (PLEASE PRINT) Callie Ross TITLE Production Clerk  
SIGNATURE *Callie Ross* DATE 03/06/2008

**RECEIVED  
MAR 10 2008  
DIV. OF OIL, GAS & MINING**

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: \_\_\_\_\_ Date: 3 / 5 / 08  
 Test conducted by: Newfield Production - David Chase  
 Others present: \_\_\_\_\_

Well Name: <u>Tar Sand Federal 9-31-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Mossumet Butte</u>		
Location: <u>9-31-8-17</u> Sec: <u>31</u> T <u>8</u> N <u>(S)</u> R <u>17</u> E W	County: <u>Duchesne</u>	State: <u>Utah</u>
Operator: <u>Newfield Production</u>		
Last MIT: <u>  </u> / <u>  </u> / <u>  </u>	Maximum Allowable Pressure: _____	PSIG

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

Pre-test casing/tubing annulus pressure: \_\_\_\_\_ psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>220</u> <sup>#</sup> psig	psig	psig
End of test pressure	<u>220</u> <sup>#</sup> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1505</u> <sup>#</sup> psig	psig	psig
5 minutes	<u>1505</u> <sup>#</sup> psig	psig	psig
10 minutes	<u>1505</u> <sup>#</sup> psig	psig	psig
15 minutes	<u>1505</u> <sup>#</sup> psig	psig	psig
20 minutes	<u>1505</u> <sup>#</sup> psig	psig	psig
25 minutes	<u>1505</u> <sup>#</sup> psig	psig	psig
30 minutes	<u>1505</u> <sup>#</sup> psig	psig	psig
_____ minutes	) psig	psig	psig
_____ minutes	) psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

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

### MECHANICAL INTEGRITY PRESSURE TEST

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

Signature of Witness: \_\_\_\_\_



**Daily Activity Report**

Format For Sundry

**TAR SANDS 9-31-8-17****12/1/2007 To 4/29/2008****2/27/2008 Day: 1****Conversion**

Leed #712 on 2/26/2008 - MIRU Leed #712. RU HO trk & pump 70 BW dn casing @ 250°F. RD pumping unit & unseat rod pump. Flush tbg & rods W/ 55 BW @ 250°F. Re-seat pump, soft joint rod string & strip off flow-T. Fill tbg W/ 8 BW. Pressure test tbg to 3000 psi. Retrieve rod string & unseat pump. TOH and LD rod string and pump. ND wellhead & release TA @ 5724'. NU BOP. SIFN.

**2/28/2008 Day: 2****Conversion**

Leed #712 on 2/27/2008 - TOH & talley production tbg. Broke each connection, clean & inspect pins and apply Liquid O-ring to pins. LD btm 32 jts tbg and BHA. MU & TIH W/ injection string to 4851'. SIFN.

**2/29/2008 Day: 3****Conversion**

Leed #712 on 2/28/2008 - RU HO trk & pump 10 bbls pad. Drop standing valve & pump to SN. Pressure tested tbg to 3000 psi. Held solid for 30 minutes. Retrieve standing valve W/ overshot on sandline. ND BOP & land tbg on flange. Mix 15 gals Baker Hughes WCW 87 & 5 gals X-Cide 370 in 70 bbls fresh wtr. RU HO trk & pump dn annulus @ 90°F. PU on tbg & set pkr W/ SN @ 4856', CE @ 4861' & EOT @ 4865'. Land tbg W/ 16,000# tension. NU wellhead. Pressure test casing & pkr to 1400 psi. Held solid for 30 minutes. RDMOSU. Well ready for MIT.

**3/6/2008 Day: 4****Conversion**

On 3/5/2008 - On 2/29/08 Margo Smith with the EPA was contacted concerning the initial MIT on the above listed well (Tar Sands Fed. 9-31-8-17). Permission was given at that time to perform the test on 3/5/08. On 3/5/08 the csg was pressured up to 1505 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 220 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20847-06171 API# 43-013-31616

**Pertinent Files: Go to File List**

3/6/08



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

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

MAY 21 2008

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

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

85 17E 31

RE: **180-Day Limited Authorization to Inject**  
Tar Sands Federal 9-31-8-17 Well  
EPA Permit No. UT20847-06171  
Uintah County, UT  
API #43-013-31616

Dear Mr. Guinn:

The Newfield Production Company (Newfield) letter with attached information was received by the Environmental Protection Agency (EPA), Region 8, on March 6, 2008. The submittal satisfactorily completed the **Prior to Commencing Injection** requirements for Final Class II Underground Injection Control Permit UT20847-06171, effective January 18, 2007. The Part I (Internal) Mechanical Integrity Test (MIT), Well Rework Record (EPA Form No. 7520-12), schematic diagram, and calculated pore pressure were reviewed and approved by EPA on May 19, 2008.

As of the date of this letter, Newfield is authorized to commence injection into Tar Sands Federal (TSF) 9-31-8-17 at a maximum allowable injection pressure (MAIP) of **1,210 psig** for a limited period of time.

Because the cement bond log submitted for this well did not show an adequate interval of 80% or greater bond index through the confining zone above the injection zone, Newfield is required to demonstrate Part II (External) Mechanical Integrity (Part II MI) within a 180-day period from the date that injection begins. Approved tests include temperature survey, noise log or oxygen activation log, and Region 8 may accept results of a Radioactive Tracer Survey. The Part II MIT shall be demonstrated at least once every five years. This 180-day period allows time for injection zone pressure to elevate prior to demonstrating Part II MI, which is necessary because it may be underpressured from previous oil production, and the Part II MI tests rely on elevated formation pressure.

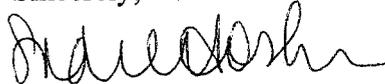
RECEIVED  
MAY 30 2008  
DIV. OF OIL, GAS & MINING

Newfield must receive prior authorization from the Director in order to inject at pressures greater than the permitted MAIP during any test. Please note that the maximum pressure used during the Part II MI test may become the new MAIP because Part II MI was demonstrated at that pressure. Therefore, it may be advantageous to run a step rate test prior to conducting the Part II MI test. Should Newfield apply for an increase to the MAIP at a later date, the demonstration of Part II MI must also be conducted at that time.

Please remember that it is Newfield's responsibility to be aware of and to comply with all conditions of Permit UT20847-06171 for the TSF 9-31-8-17 injection well.

If you have questions regarding the above action, please call Bruce Suchomel at 303-312-6001 or 1-800-227-8917, ext. 312-6001. Results from the Part II MI test should be mailed directly to the attention of Bruce Suchomel, at the letterhead address citing **Mail Code: 8P-W-GW** very prominently.

Sincerely,



Stephen S. Tuber

Assistant Regional Administrator

Office of Partnerships and Regulatory Assistance

cc: Curtis Cesspooch, Chairman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Ronald Groves, Councilman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Irene Cuch, Vice-Chairwoman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Steven Cesspooch, Councilman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Phillip Chimburas, Councilman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Frances Poowegup, Councilwoman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Felicia Myore, Acting Director  
Energy and Minerals Department  
Ute Indian Tribe

Chester Mills, Superintendent  
BIA - Uintah & Ouray Indian Agency

Shaun Chapoose, Director  
Land Use Department  
Ute Indian Tribe

Gil Hunt ✓  
Assistant Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg  
Regulatory Analyst  
Newfield Exploration Company

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-74869

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME:

SAND WASH UNIT

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:  
TAR SANDS FEDERAL 9-31-8-17

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301331616

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

PHONE NUMBER  
435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 2163 FSL 722 FEL

COUNTY: DUCHESNE

OTR/TR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NESE, 31, T8S, R17E

STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEOUENT REPORT (Submit Original Form Only)  Date of Work Completion: <u>11/12/2008</u>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: -
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

The above reference well was put on injection at 2:00 PM on 11-12-08

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

NAME (PLEASE PRINT) Kathy Chapman

TITLE Office Manager

SIGNATURE *Kathy Chapman*

DATE 11/13/2008

(This space for State use only)

**RECEIVED**

**NOV 17 2008**

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8  
1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

OCT 06 2009

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

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

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

**RECEIVED**  
OCT 12 2009  
DIV. OF OIL, GAS & MINING

RE: Underground Injection Control (UIC)  
Authorization to Continue Injection  
EPA UIC Permit UT20847-06171  
Tar Sands Federal No. 9-31-8-17  
Duchesne County, Utah  
API 43-013-31616

85 17E 31

Dear Mr. Guinn:

The Environmental Protection Agency (EPA) received the results from the August 28, 2009 Radioactive Tracer Survey (RTS) on Tar Sands Federal No. 9-31-8-17. The RTS concluded that the authorized injectate will be confined to the permitted Green River Formation interval.

EPA hereby authorizes continuation of injection into Tar Sands Federal No. 9-31-8-17 under the terms and conditions of EPA UIC Permit No. UT20847-06171 at a maximum authorized surface injection pressure of 1,210 psig.

Please be advised that pursuant to Additional Well to Sand Wash Permit, Part II, Section C. Condition 3 (Demonstration of Mechanical Integrity), Newfield Production Company (Newfield) shall run a successful RTS within five (5) years from August 28, 2009 and every five (5) years thereafter.

You may apply for a higher maximum allowable injection pressure at a later date. Your application should be accompanied by the interpreted results from a Step-Rate Test (SRT) that measures the formation fracture pressure and the fracture gradient at this location. A current

copy of EPA Guidelines for running and interpreting a SRT will be sent upon request. Should the SRT result in approval of a higher maximum allowable injection pressure, a new RTS demonstration must be run to show that the injected fluids will remain in the authorized injection interval at the higher pressure.

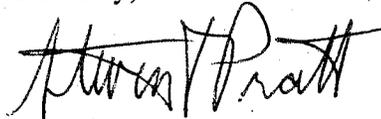
As of this approval, responsibility for Permit Compliance and Enforcement is transferred to Region 8 UIC Technical Enforcement Program office. Therefore, please direct all future notification, reporting, monitoring and compliance correspondence to the following address, referencing your well name and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

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

For questions regarding notification, testing, monitoring, reporting or other Permit requirements, Nathan Wiser of the UIC Technical Enforcement Program may be reached by calling 1-800-227-8917 (ext. 312-6211). Please be reminded that it is your responsibility to be aware of and to comply with all conditions of your Permit.

If you have any questions regarding this approval, please call Emmett Schmitz at 303-312-6174 or 1-800-227-8917 (ext. 312-6174).

Sincerely,



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

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

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Ferron Secakuku  
Director, Natural Resources  
Ute Indian Tribe

Larry Love  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

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

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst  
Newfield Production Company  
Denver, CO 80202

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74869
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
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>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Water Injection Well		<b>8. WELL NAME and NUMBER:</b> TAR SANDS FED 9-31
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>9. API NUMBER:</b> 43013316160000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2163 FSL 0722 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESE Section: 31 Township: 08.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/1/2013  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="5 YR MIT"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
5 YR MIT on the above listed well. On 02/01/2013 the casing was pressured up to 1360 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 1055 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-06171		<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 25, 2013</b>
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A		<b>DATE</b> 2/4/2013

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: \_\_\_\_\_ Date: Feb 11 2013  
 Test conducted by: Don Trane  
 Others present: \_\_\_\_\_

Well Name: <u>Federal</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>9</u> Sec: <u>31</u> T: <u>8</u> N <u>(S)</u> R: <u>17</u> E/W	County: <u>Duchesne</u>	State: <u>Ut</u>
Operator: <u>Don Trane</u>		
Last MIT: <u>1</u>	Maximum Allowable Pressure: <u>1210</u>	PSIG

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

Pre-test casing/tubing annulus pressure: 1360 psig

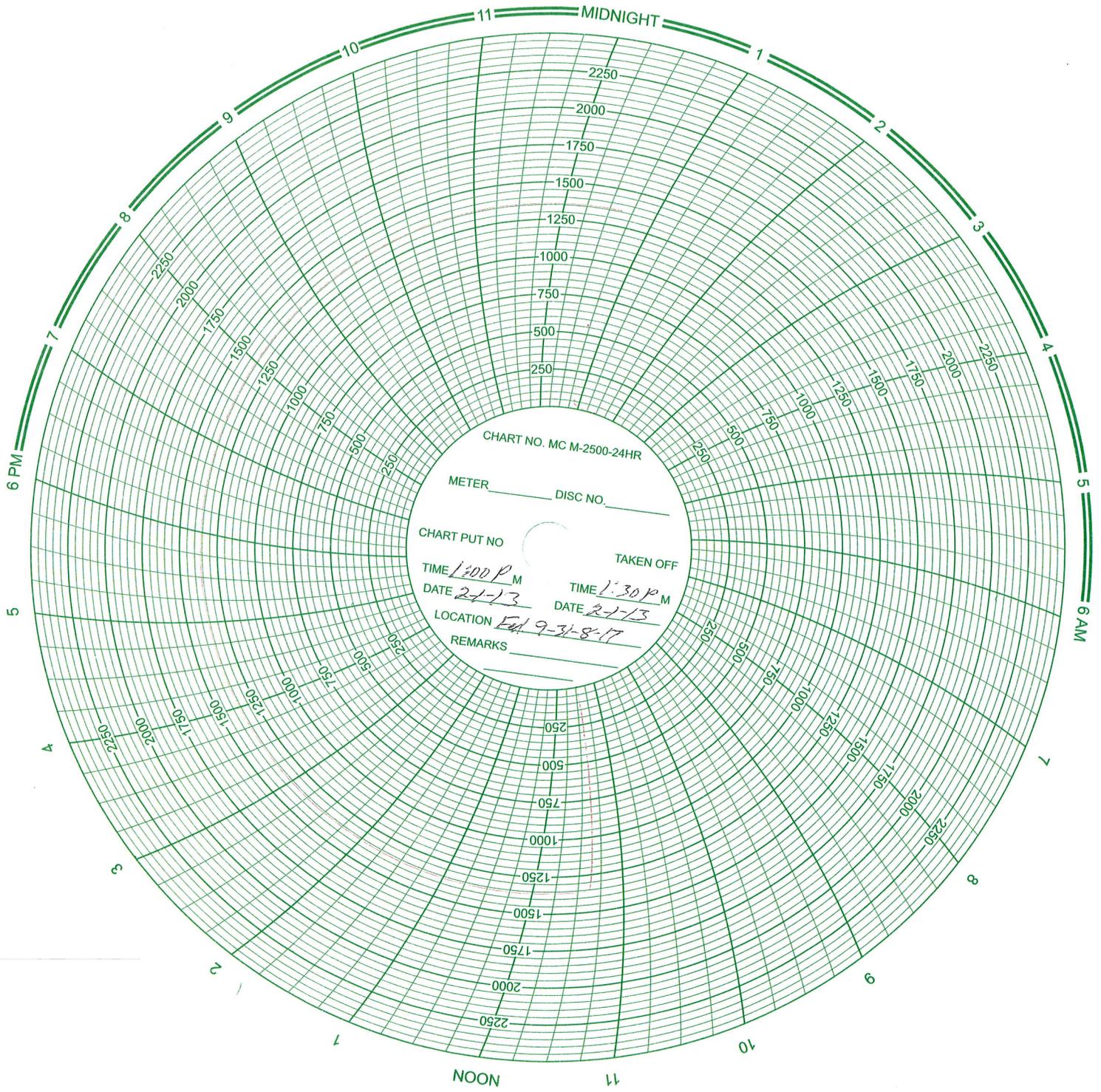
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>1055</u> psig	psig	psig
End of test pressure	<u>1055</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1360</u> psig	psig	psig
5 minutes	<u>1360</u> psig	psig	psig
10 minutes	<u>1360</u> psig	psig	psig
15 minutes	<u>1360</u> psig	psig	psig
20 minutes	<u>1360</u> psig	psig	psig
25 minutes	<u>1360</u> psig	psig	psig
30 minutes	<u>1360</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

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

### MECHANICAL INTEGRITY PRESSURE TEST

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

Signature of Witness: \_\_\_\_\_



# Tar Sands Federal #9-31-8-17

Spud Date: 8/30/97  
 Put on Production: 10/9/97  
 GL: 5312' KB: 5322'

Initial Production: 131 BOPD,  
 127 MCFPD, 10 BWPD

## SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (289')  
 DEPTH LANDED: 299' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Premium cmt, est 8 bbls cmt to surface

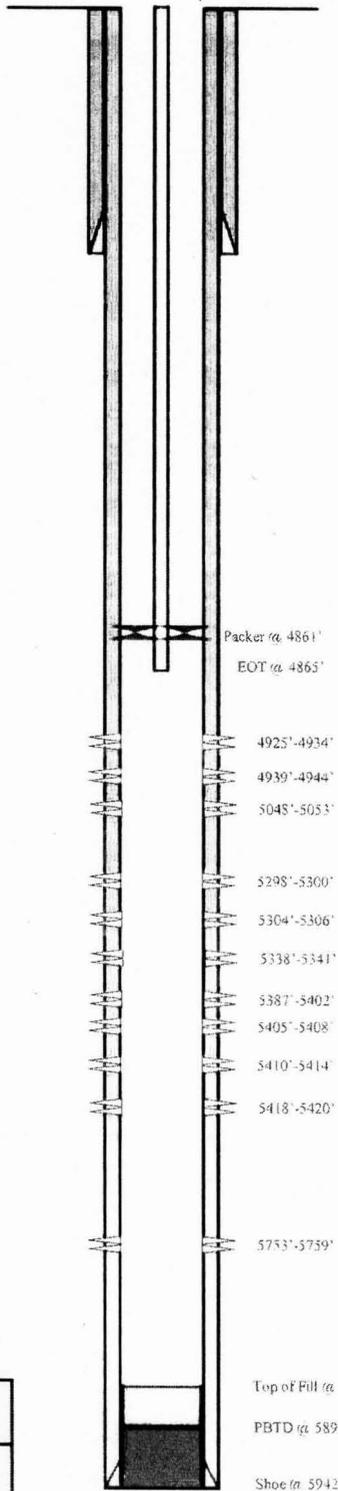
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 147 jts. (5931.29')  
 DEPTH LANDED: 5941.61' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 295 sk HiBond mixed & 285 sxs thixotropic  
 CEMENT TOP AT: Surface

## TUBING

SIZE-GRADE WT.: 2-7/8" M-50  
 NO. OF JOINTS: 160 jts. (4846.19')  
 TUBING ANCHOR: 5724-52'  
 SEATING NIPPLE: 2-7/8" (1.10)  
 TOTAL STRING LENGTH: EOT @ 4864.69'

## Injection Wellbore Diagram



## FRAC JOB

09/30/97	5753'-5759'	<b>Frac CP sand as follows:</b> 95,900# of 20/40 sand in 522 bbls of Boragel. Treated @ avg press of 1700 psi w/avg rate of 26 bpm. ISIP-1812 psi. Calc flush: 5751 gal. Actual flush: 5668 gals.
10/3/97	5298'-5420'	<b>Frac A sand as follows:</b> 127,200# of sand in 634 bbls of Boragel. Treated @ avg press of 1500 psi w/avg rate of 42.2 bpm. ISIP-1796 psi. Calc flush: 5296 gal. Actual flush: 5211 gal.
10/5/97	4925'-5053'	<b>Frac C/D sands as follows:</b> 104,300# of 20/40 sand in 518 bbls of Boragel. Treated @ avg press of 2560 psi w/avg rate of 30 bpm. ISIP-3432 psi. Calc flush: 4923 gal. Actual flush: 4837 gal.
05/06/02		Rod job. Update rod details.
03/16/05		Tubing leak. Update tubing and rod details.
4-29-05		Pump change. Update tubing and rod details.
8-23-07		Parted rods. Updated rod & tubing details.
11-29-07		Pump change. Updated rod & tubing details.
2-28-08		<b>Well converted to an Injection well.</b>
3-6-08		<b>MIT completed and submitted.</b>

Packer @ 4861'

EOT @ 4865'

4925'-4934'

4939'-4944'

5048'-5053'

5298'-5300'

5304'-5306'

5338'-5341'

5387'-5402'

5405'-5408'

5410'-5414'

5418'-5420'

5753'-5759'

Top of Fill @ 5825'

PBTD @ 5897'

Shoe @ 5942'

TD @ 5948'

## PERFORATION RECORD

9/30/97	5753'-5759'	4 JSPF	24 holes
10/2/97	5418'-5420'	4 JSPF	8 holes
10/2/97	5410'-5414'	4 JSPF	16 holes
10/2/97	5405'-5408'	4 JSPF	12 holes
10/2/97	5387'-5402'	4 JSPF	20 holes
10/2/97	5338'-5341'	4 JSPF	12 holes
10/2/97	5304'-5306'	4 JSPF	8 holes
10/2/97	5298'-5300'	4 JSPF	8 holes
10/4/97	5048'-5053'	4 JSPF	20 holes
10/4/97	4939'-4944'	4 JSPF	20 holes
10/4/97	4925'-4934'	4 JSPF	36 holes

**NEWFIELD**

**Tar Sands Federal #9-31-8-17**

2168 FSL & 741 FEL  
 NESE Section 31 T8S R17E  
 Duchesne Co, Utah  
 API #43-013-31616; Lease #UTU-74869