

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS WELL LOG ELECTRIC LOGS  WATER SANDS LOCATION INSPECTED SUB REPORT/abd

DATE FILED JANUARY 17, 1996

LAND FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-74869 INDIAN

DRILLING APPROVED MARCH 18, 1997

SPUDDED IN: 6/9/97

COMPLETED: 7/21/97 POW PUT TO PRODUCING:

INITIAL PRODUCTION: 121 Bbl, 128 MCF, 7 Bbl

GRAVITY API

GOR: 1.1

PRODUCING ZONES: 4630-5766' PRRV

TOTAL DEPTH: 6098'

WELL ELEVATION: 5336' PR

DATE ABANDONED:

FIELD: MONUMENT BUTTE

UNIT:

COUNTY: DUCHESNE

WELL NO: TAR SANDS FEDERAL 5-31 API NO. 43-013-31607

LOCATION: 1980 FNL FT. FROM (N) (S) LINE. 660 FWL FT. FROM (E) (W) LINE. SW NW 1/4 - 1/4 SEC. 31

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
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8S	17E	31	INLAND PRODUCTION
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QUATERNARY	Star Point	Chinle	Molas
Alluvium	Wahweap	Shinarump	Manning Canyon
Lake beds	Masuk	Moenkopi	Mississippian
Pleistocene	Colorado	Sinbad	Humbug
Lake beds	Sego	PERMIAN	Brazer
TERTIARY	Buck Tongue	Kaibab	Pilot Shale
Pliocene	Castlegate	Coconino	Madison
Salt Lake	Mancos	Cutler	Leadville
Oligocene	Upper	Hoskinnini	Redwall
Norwood	Middle	DeChelly	DEVONIAN
Eocene	Lower	White Rim	Upper
Duchesne River	Emery	Organ Rock	Middle
Uinta	Blue Gate	Cedar Mesa	Lower
Bridger	Ferron	Halgaite Tongue	Ouray
Green River	Frontier	Phosphoria	Elbert
<i>Garden Gulch</i>	Dakota	Park City	McCracken
<i>Point 3</i>	Burro Canyon	Rico (Goodridge)	Aneth
<i>x marker</i>	Cedar Mountain	Supai	Simonson Dolomite
<i>y marker</i>	Buckhorn	Wolfcamp	Sevy Dolomite
<i>Donalag Crk</i>	JURASSIC	CARBON I FEROUS	North Point
<i>Bicarbonate</i>	Morrison	Pennsylvanian	SILURIAN
<i>B limestone</i>	Salt Wash	Oquirrh	Laketown Dolomite
<i>CASTLE PEAK</i>	San Rafael Gr.	Weber	ORDOVICIAN
<i>basal carb</i>	Summerville	Morgan	Eureka Quartzite
	Bluff Sandstone	Hermosa	Pogonip Limestone
North Horn	Curtis		CAMBRIAN
Almy	Entrada	Pardox	Lynch
Paleocene	Moab Tongue	Ismay	Bowman
Current Creek	Carmel	Desert Creek	Tapeats
North Horn	Glen Canyon Gr.	Akah	Ophir
CRETACEOUS	Navajo	Barker Creek	Tintic
Montana	Kayenta		PRE - CAMBRIAN
Mesaverde	Wingate		
Price River	TRIASSIC	Cane Creek	
Blackhawk			

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

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

2. NAME OF OPERATOR  
 Inland Production Company

3. ADDRESS OF OPERATOR  
 P.O. Box 1446 Roosevelt, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface SW/NW  
 At proposed prod. zone 660' FWL & 1980' FNL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 13.4 miles south of Myton, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 600'

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. 1262'

19. PROPOSED DEPTH 6500'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5335.7' GR

22. APPROX. DATE WORK WILL START\* Third Quarter 1996

5. LEASE DESIGNATION AND SERIAL NO.  
 U-74869

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Tar Sands Federal #5-31

9. WELL NO.  
 #5-31

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 31, T8S, R17E

12. COUNTY OR PARISH Duchesne

13. STATE Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24#	300'	120 sx Class G+2% CaCl+2% Gel
7 7/8	5 1/2	15.5#	TD	400 sx Hilift followed by 330 sx Class G w/ 10% CaCl

The actual cement volumes will be calculated of of the open hole logs plus 15% excess.

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

24. SIGNED Brad Mechem *Brad Mechem* TITLE Operations Manager DATE 1/15/96

(This space for Federal or State office use)

PERMIT NO. 43-013-31607 APPROVAL DATE \_\_\_\_\_

APPROVED BY *[Signature]* TITLE \_\_\_\_\_ DATE 3/18/97

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

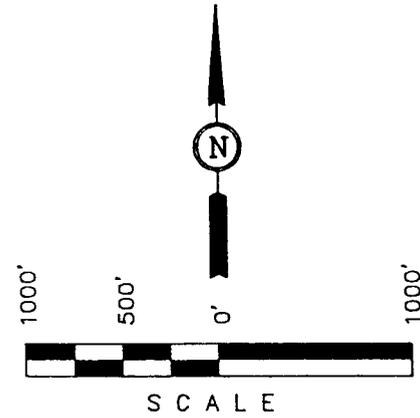
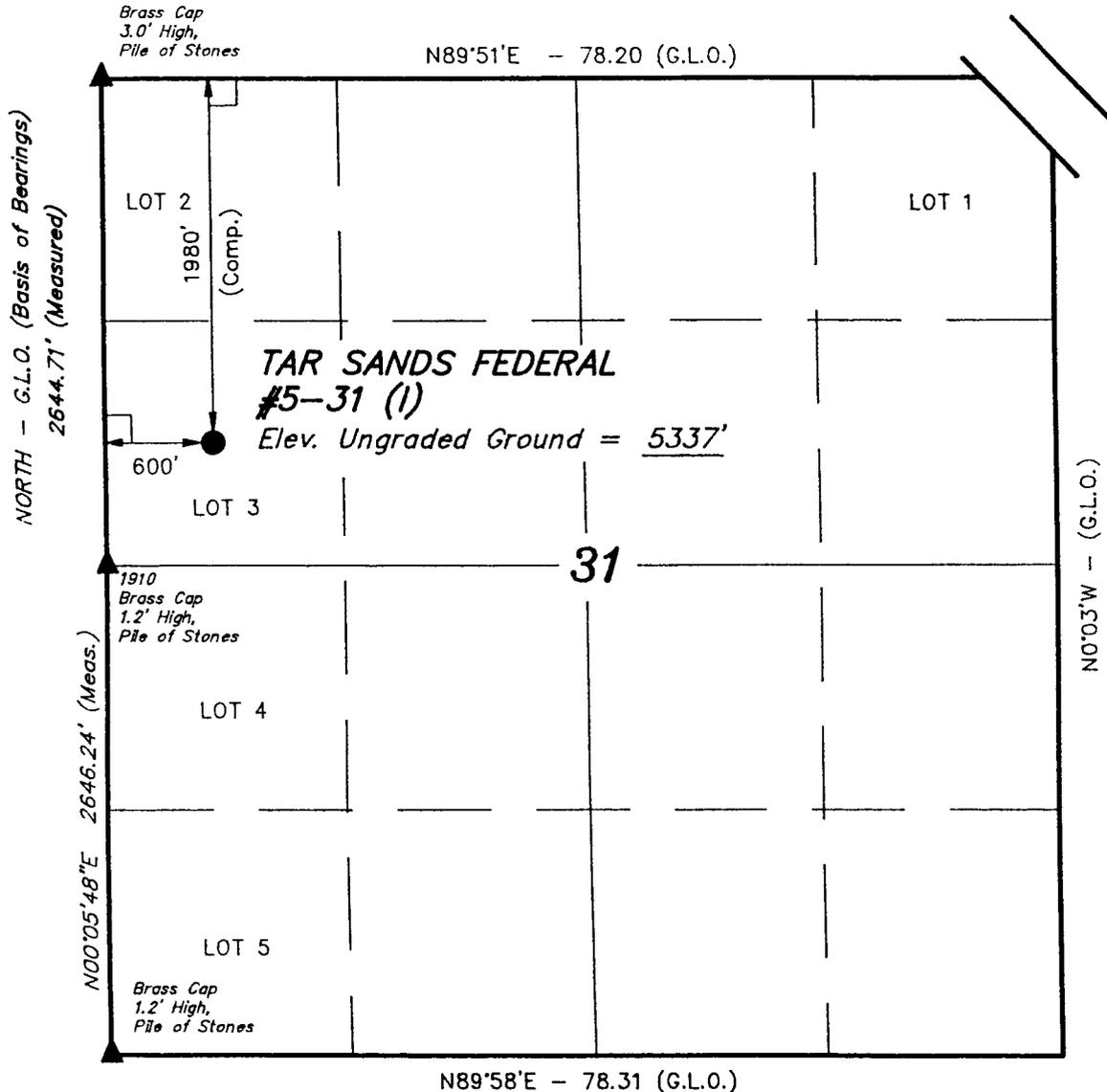
INLAND PRODUCTION CO.

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

Well location, TAR SANDS FEDERAL #5-31 (1), located as shown in Lot 3 of Section 31, T8S, R17E, S.L.B.&M. Duchesne County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 31, 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 5301 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. Gray*  
 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: 12-19-95	DATE DRAWN: 12-20-95
PARTY J.T.K. B.B. L.D.T. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE INLAND PRODUCTION CO.	

LEGEND:

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

NOTE:

PROPOSED WELL HEAD BEARS N42°00'10"E 896.6' FROM THE WEST 1/4 CORNER OF SECTION 31, T8S, R17E, S.L.B.&M.

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

December 18, 1995

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 Sands Federal 4-31, 5-311, 11-311, and 12-31.

Sincerely,

  
Karen Ashby,  
Secretary

**TAR SANDS FEDERAL #5-31  
SW/NW SECTION 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.

**INLAND PRODUCTION COMPANY  
TAR SANDS FEDERAL #5-31  
SW/NW 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 PBTD 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 third quarter of 1996, and take approximately eight days to drill.

**INLAND PRODUCTION COMPANY  
TAR SANDS FEDERAL #5-31  
SW/NW 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 #5-31 located in the SW 1/4 NW 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 southerly along Utah State Highway 6.3 miles to its junction with an existing dirt road to the southwest, proceed southwesterly along this road 2.8 miles on the existing dirt road to the south. Proceed southerly along this road .8 miles to the junction with the existing dirt road to the east; proceed easterly .6 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 NW 1/4 NE 1/4 Section 31, T8S, R17E, S.L.B., and proceeds in a westerly direction approximately .6 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 nine (9) producing, two (2) injection, Inland Production wells, one (1) unknown P&A well, four (4) producing, one (1) injection Balcron well, and one (1) producing Wildrose well, 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 one hundred twenty (120) days. During the one hundred twenty (120) 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 northwest side, between stakes 1 & 8.

Access to the well pad will be from the west corner, between stakes 7 & 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 not 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

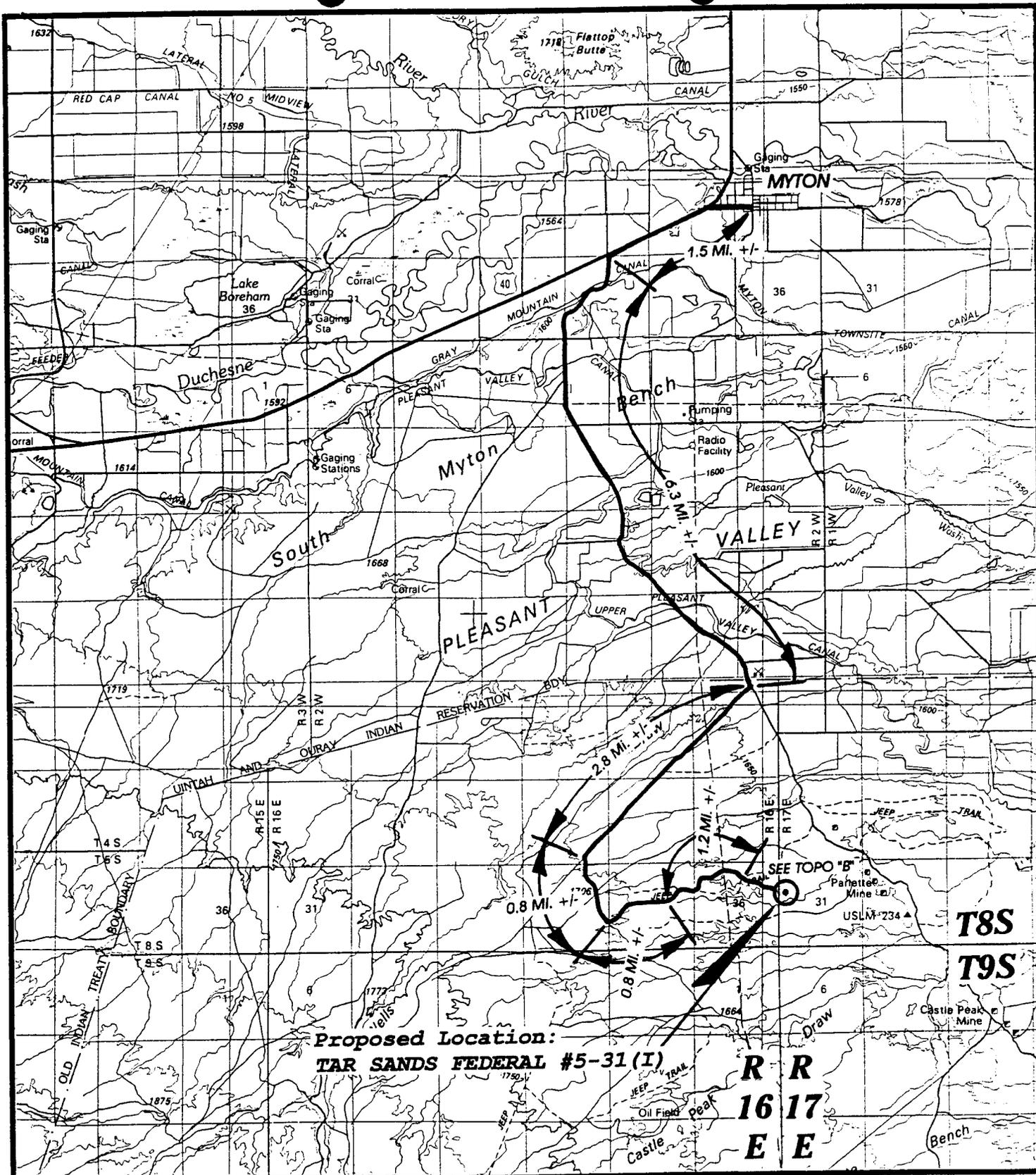
Certification

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of Tar Sands Federal #5-31 SW/NW 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.

1-15-96  
Date

Brad Mecham  
Brad Mecham  
Operations Manager



**Proposed Location:  
TAR SANDS FEDERAL #5-31 (I)**

**R R  
16 17  
E E**

**T8S  
T9S**

**UELS**

**TOPOGRAPHIC  
MAP "A"**

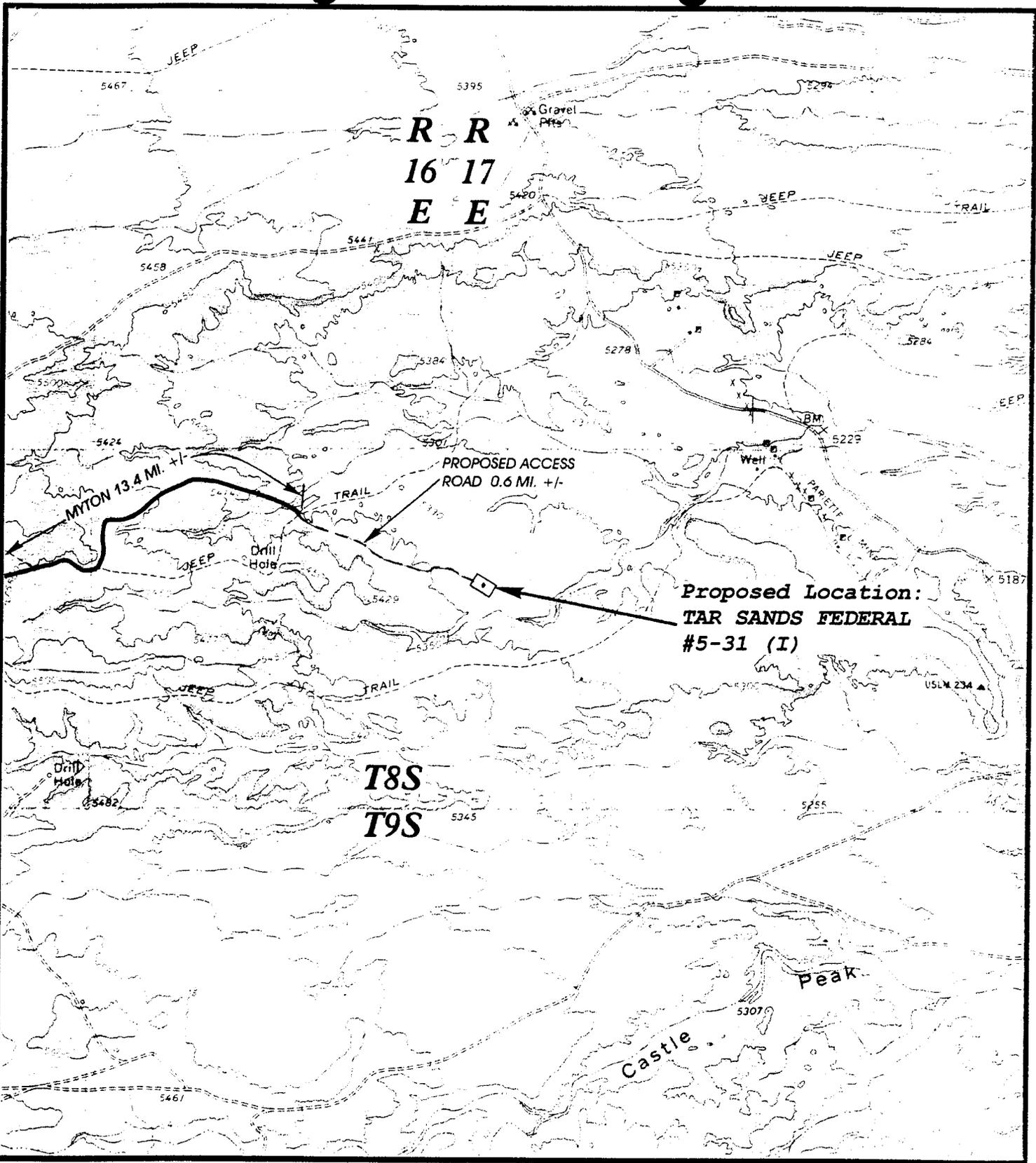
DATE: 12-20-95  
Drawn By: D.COX

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



**INLAND PRODUCTION CO.**

TAR SANDS FEDERAL 5-31 (I)  
SECTION 31, T8S, R17E, S.L.B.&M.  
1980' FNL 600' FWL



**TOPOGRAPHIC  
MAP "B"**

DATE: 12-20-95  
Drawn by: C.B.T.

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



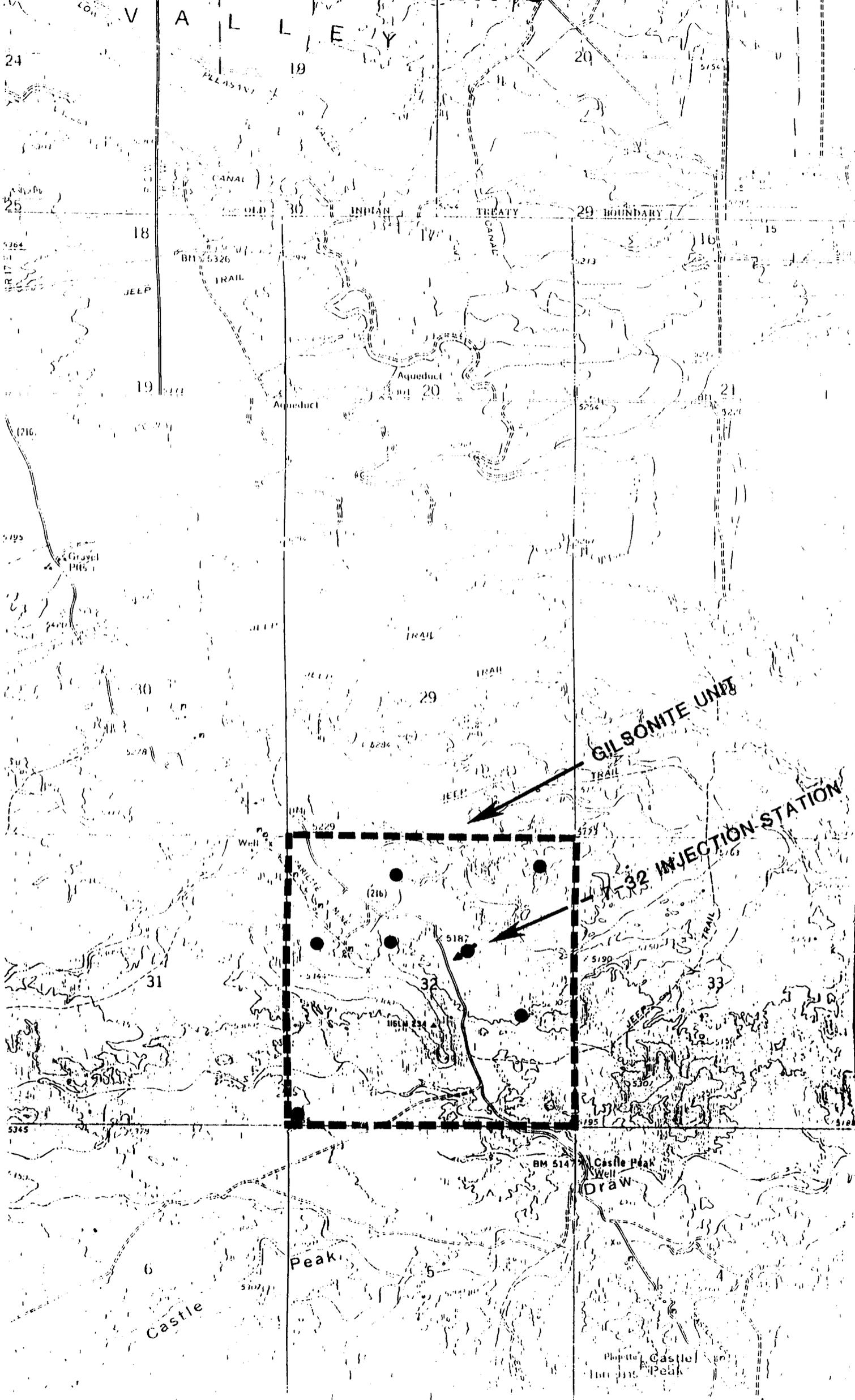
**INLAND PRODUCTION CO.**

TAR SANDS FEDERAL #5-31 (I)  
SECTION 31, T8S, R17E, S.L.B.&M.  
1980' FNL 600' FWL

SCALE: 1" = 2000'

R 2 W MYTON 616 M 2'30" R 1 W 1982 2410000 FEET 1983 1984 1985

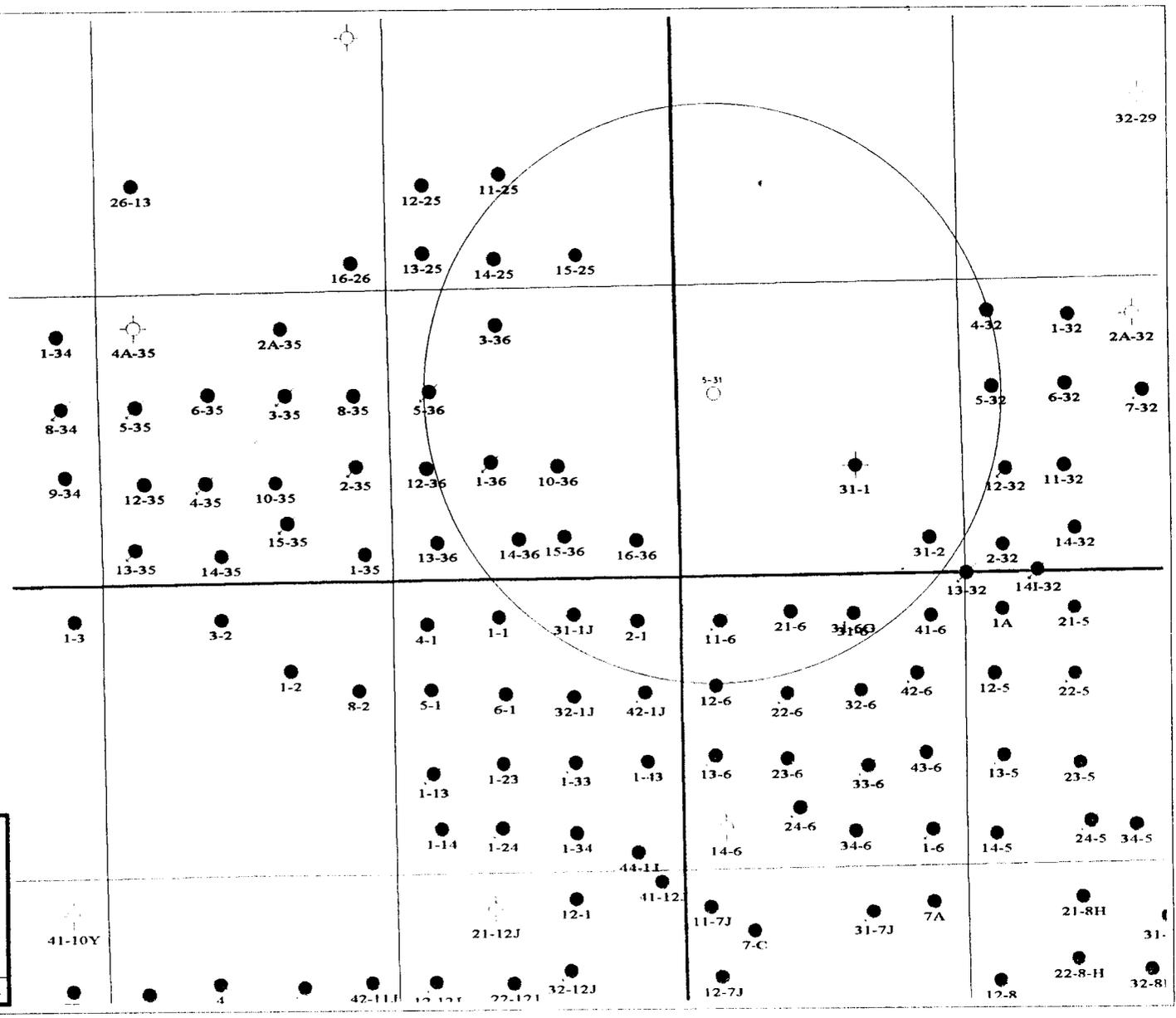
# EXHIBIT C



GILSONITE UNIT  
 TRAIL  
 JEEP TRAIL  
 INJECTION STATION

BM 514  
 Castle Peak Well  
 Draw  
 Castle Peak

EXHIBIT "D"



**Inland**  
RESOURCES INC.

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

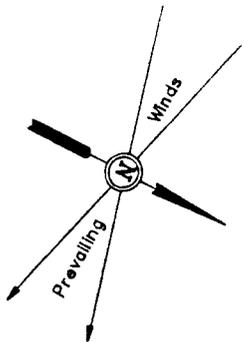
**Tar Sands Fed. #5-31**  
One Mile Radius  
Duchesne County, Utah

Date: 12-7-95 D.G.

INLAND PRODUCTION CO.

LOCATION LAYOUT FOR

TAR SANDS FEDERAL #5-31 (I)  
SECTION 31, T8S, R17E, S.L.B.&M.  
1980' FNL 600' FWL



SCALE: 1" = 50'  
DATE: 12-20-95  
Drawn By: D.R.B.

Proposed Access Road

C-2.6'  
El. 38.3'

C-1.9'  
El. 37.6'

C-1.2'  
El. 36.9'

Sta. 2+75

APPROX. TOP OF CUT SLOPE

NOTE:

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

NOTE:

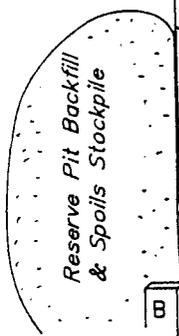
PIT CAPACITY WITH 2' OF FREEBOARD = 3,090 Bbls.

El. 39.1'  
C-13.4'  
(Btm. Pit)

El. 38.0'  
C-2.3'

C-1.0'  
El. 36.7'

Sta. 1+20



El. 38.1'  
C-12.4'  
(Btm. Pit)

El. 36.9'  
C-1.2'

El. 33.6'  
F-2.1'

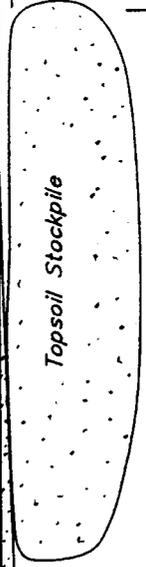
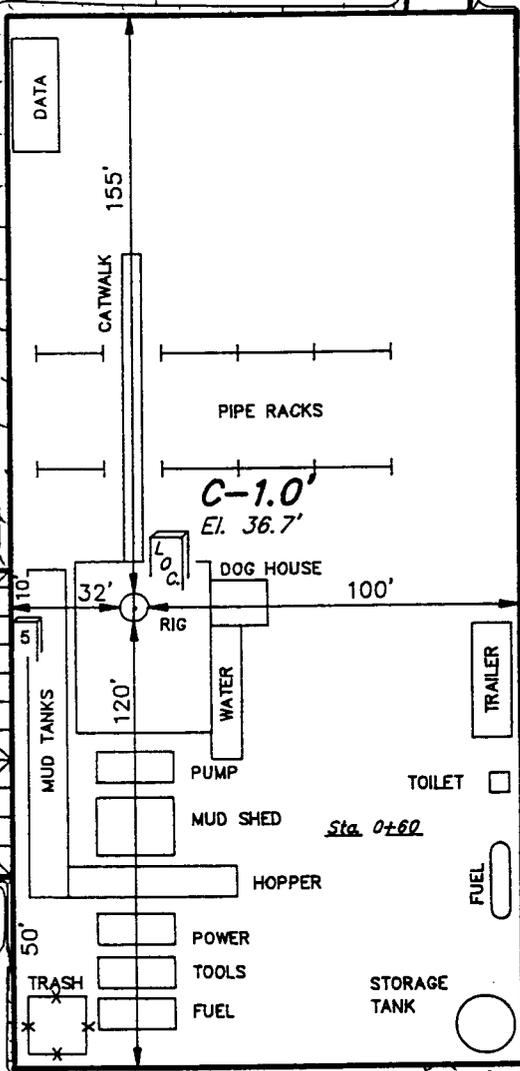
APPROX. TOE OF FILL SLOPE

Sta. 0+00

El. 35.1'  
F-0.6'

F-1.0'  
El. 34.7'

El. 32.3'  
F-3.4'



*Handwritten signature*

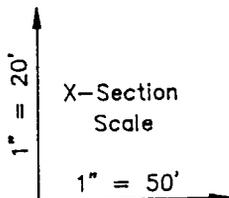
Elev. Ungraded Ground at Location Stake = 5336.7'  
Elev. Graded Ground at Location Stake = 5335.7'

INLAND PRODUCTION CO.

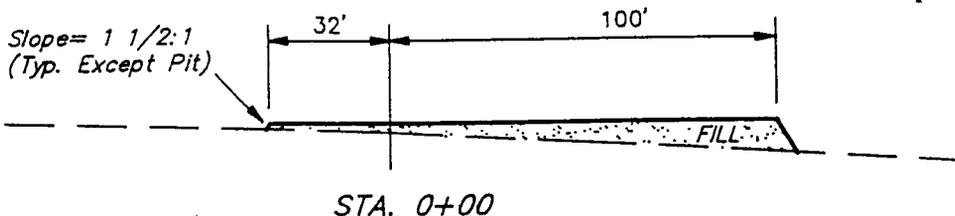
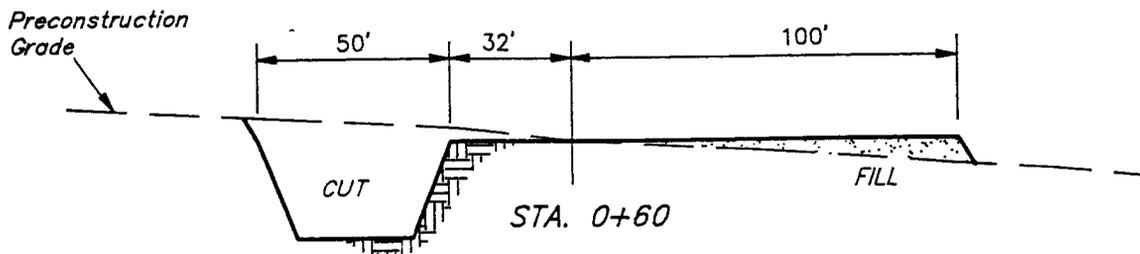
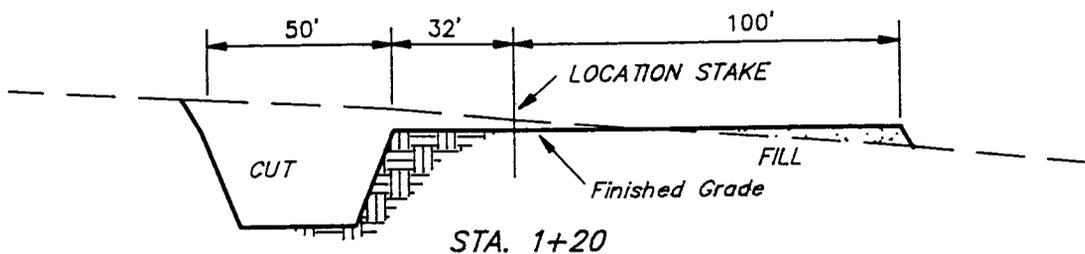
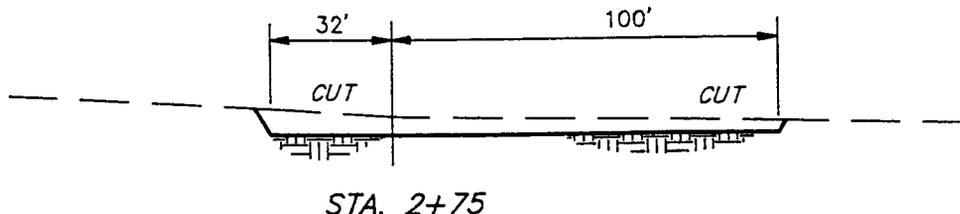
TYPICAL CROSS SECTIONS FOR

TAR SANDS FEDERAL #5-31 (I)  
SECTION 31, T8S, R17E, S.L.B.&M.  
1980' FNL 600' FWL

*Handwritten signature*



DATE: 12-18-95  
Drawn By: D.R.B.



APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 750 Cu. Yds.
Remaining Location	= 1,740 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 2,490 CU.YDS.</b>
<b>FILL</b>	<b>= 1,220 CU.YDS.</b>

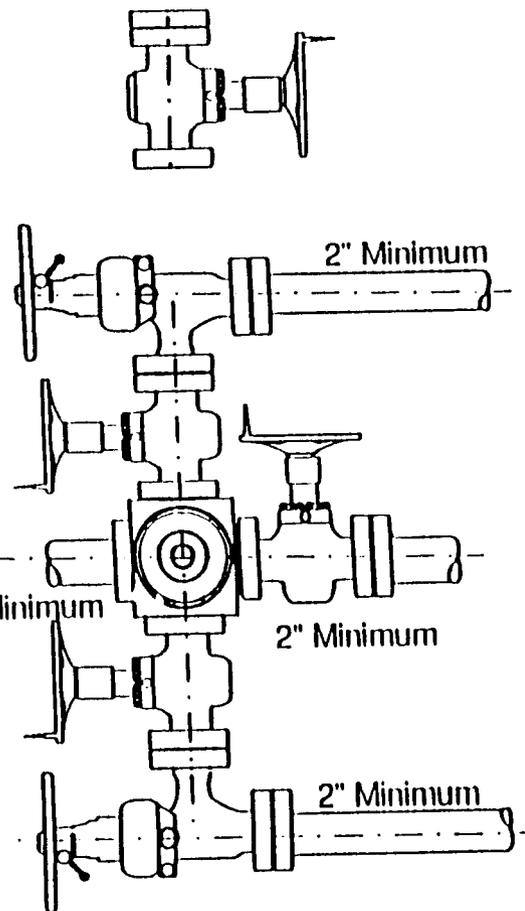
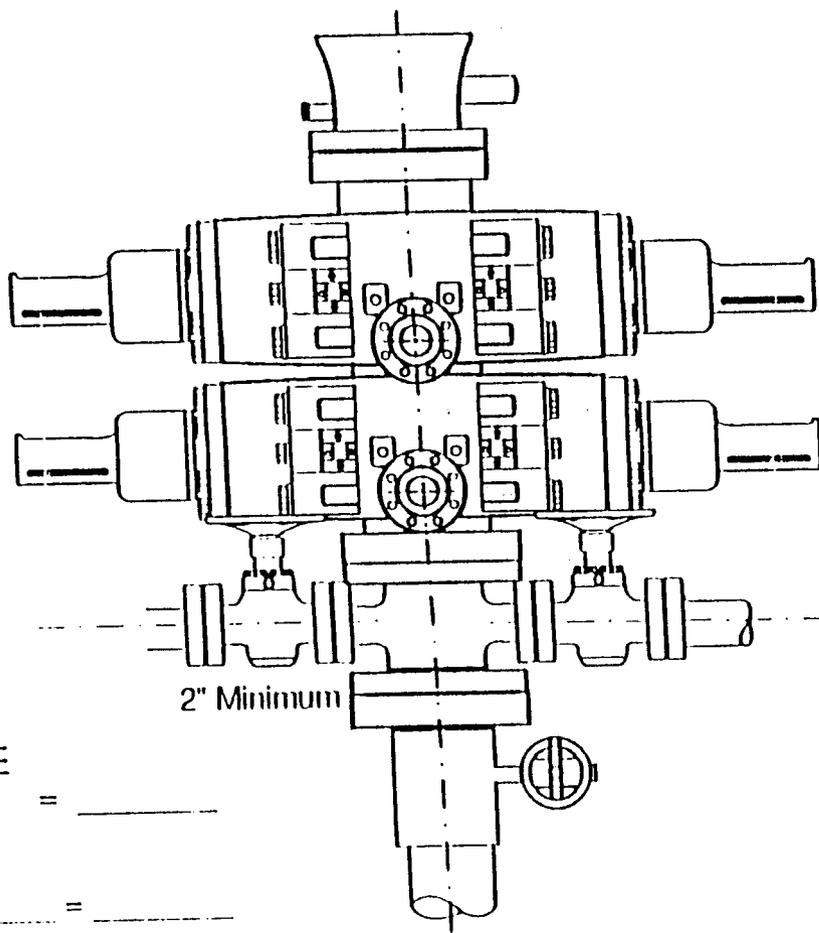
EXCESS MATERIAL AFTER 5% COMPACTION	= 1,210 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 1,210 Cu. Yds.
EXCESS MATERIAL After Reserve Pit is Backfilled & Topsoil is Re-distributed	= 0 Cu. Yds.

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

# 2-M SYSTEM

TYPE B.O.P.

ake:  
ize:  
del:



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: 01/17/96

API NO. ASSIGNED: 43-013-31607

WELL NAME: TAR SANDS FEDERAL 5-31  
 OPERATOR: INLAND PRODUCTION COMPANY (N5160)

PROPOSED LOCATION:

SWNW 31 - T08S - R17E  
 SURFACE: 1980-FNL-0660-FWL  
 BOTTOM: 1980-FNL-0660-FWL  
 DUCHESNE COUNTY  
 MONUMENT BUTTE FIELD (105)

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: FED  
 LEASE NUMBER: U - 74869

PROPOSED PRODUCING FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Federal  State  Fee   
 (Number 4488944)
- Potash (Y/N)
- Oil shale (Y/N)
- Water permit  
 (Number 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: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL       DEEPEN       PLUG BACK

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

2. NAME OF OPERATOR  
 Inland Production Company

3. ADDRESS OF OPERATOR  
 P.O. Box 1446 Roosevelt, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At surface  
 SW/NW      660' FWL & 1980' FNL  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 13.4 miles south of Myton, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)      600'

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.      1262'

19. PROPOSED DEPTH      6500'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 5335.7' GR

22. APPROX. DATE WORK WILL START\*  
 Third Quarter 1996

5. LEASE DESIGNATION AND SERIAL NO.  
 U-74869

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Tar Sands Federal #5-31

9. WELL NO.  
 #5-31

10. FIELD AND POOL, OR WILDCAT

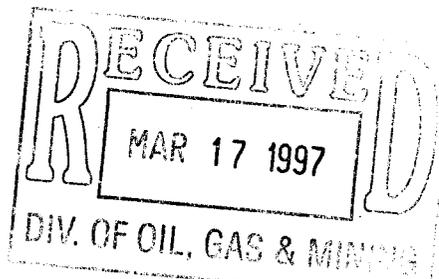
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 31, T8S, R17E

12. COUNTY OR PARISH      13. STATE  
 Duchesne      Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24#	300'	120 sx Class G+2% CaCl+2% Gel
7 7/8	5 1/2	15.5#	TD	400 sx Hilift followed by
				330 sx Class G w/ 10% CaCl

The actual cement volumes will be calculated of of the open hole logs plus 15% excess.



RECEIVED  
 JAN 18 1996

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

24. SIGNED Brad Mecham *Brad Mecham* TITLE Operations Manager DATE 1/15/96

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 Assistant Field Manager  
 APPROVED BY *Howard R. Young* TITLE Mineral Resources DATE MAR 13 1997  
 CONDITIONS OF APPROVAL, IF ANY.

NOTICE OF APPROVAL      CONDITIONS OF APPROVAL ATTACHED

DOG M  
 UH080-6m-057

\*See Instructions On Reverse Side

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Tar Sands Federal 5-31

API Number: 43-013-31607

Lease Number: U - 74869

Location: SWNW 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 **prior to setting the next casing string or requesting plugging orders**. Faxed 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 and oil shale resources 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 2,446 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

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

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

5. Coring, Logging and Testing Program

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

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

A cement bond log (CBL) will be run from the production casing shoe to  $\pm 2,246$  ft. and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office. A Dual Lateral log will be run from TD to the base of the surface casing.

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

6. Notifications of Operations

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

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

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

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

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

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

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

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

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

7. Other Information

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

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

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and within 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

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)

-Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).

-All vehicle travel will be confined to existing access road rights-of-way.

-The topsoil will be windrowed along the north side of the location between stakes 2 and 8.

-Ferruginous Hawk

1. No new construction or surface disturbing activities will be conducted within a 0.5 mile radius of an inactive nest. This COA may be modified based on one or more of the following mitigative opportunities:

a. The nest has showed no signs of breeding/nesting activity for a least two consecutive breeding seasons or,

b. The biologist has determined that the nests in question are in such poor condition that monitoring the nests for two breeding seasons is not necessary.

c. Artificial Nesting Platforms will be constructed and placed by the operator. Up to 3 platforms will be constructed for each natural nest involved in mitigation. The BLM AO will determine the placement of the platforms.

2. From May 30 through February 28, new construction or surface-disturbing activities will be conducted within a 0.5 mile of an inactive nest subject to the following restrictions:

a. Where possible, well pads proposed for construction within 0.25 miles of an inactive nest will be placed where permanent facilities will not be visible from the nest. Access roads to well pads will be designed to avoid line-of-sight visibility from inactive nests to the maximum extent practical.

b. Wells proposed within 0.5 miles of an inactive nest will be either converted to injection wells or equipped with muffled multi-cylinder engines or with equipment of comparable quietness.

3. Road access from the main road will be limited to a single-lane improved road for each well. During normal operations human access to injection wells will be limited to 4 trips per month by a single lease operator driving a full size pickup. Human access to producing wells will be limited to 1 trip per day by a single lease operator driving a full-size pickup.

4. Storage tanks and heater-treaters for new wells will be positioned at least 0.5 mile from the inactive nest in common tank/treater batteries or will use an existing facility. No crude oil haul/tanker trucks will enter the 0.5 mile radius from an inactive nest.



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)

March 18, 1997

Inland Production Company  
P.O. Box 1446  
Roosevelt, Utah 84066

Re: Tar Sands Federal 5-31 Well, 1980' FNL, 660' FWL, SW NW,  
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 43-013-31607.

Sincerely,

R. J. Birth  
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 5-31  
API Number: 43-013-31607  
Lease: U-74869  
Location: SW NW 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 Jimmie Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact R. J. Firth (801)538-5274 or Mike Hebertson at (801) 538-5333.

3. Reporting Requirements

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

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: INLAND PRODUCTION CO.

Well Name: TAR SANDS FEDERAL 5-31

Api No. 43-013-31607

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

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

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

SPUDDED:

Date 6/9/97

Time \_\_\_\_\_

How DRY HOLE

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

Reported by FACSIMILE

Telephone # \_\_\_\_\_

Date: 6/12/97 Signed: JLT

**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 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 #5-31**

9. API Well No.

**43-013-31607**

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)

**SW/NW                      660' FWL & 1980' FNL  
Sec. 31, T8S, R17E**

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

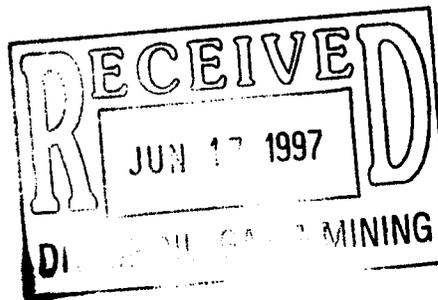
TYPE OF SUBMISSION		TYPE OF ACTION			
<input type="checkbox"/>	Notice of Intent	<input type="checkbox"/>	Abandonment	<input type="checkbox"/>	Change of Plans
<input checked="" type="checkbox"/>	Subsequent Report	<input type="checkbox"/>	Recompletion	<input type="checkbox"/>	New Construction
<input type="checkbox"/>	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>Spud Notification</u>	<input type="checkbox"/>	Dispose Water

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

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

**Drilled 12 1/4" w/ Leon Ross Rathole Rig to 250'.**

**SPUD SURFACE HOLE ON 6/9/97**



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

Signed *Cheryl Cameron*  
**Cheryl Cameron**

Title **Regulatory Compliance Specialist**

Date **6/10/97**

(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.

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  
 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)  
**SW/NW                                  660' FWL & 1980' FNL**  
**Sec. 31, T8S, R17E**

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 #5-31</b>
9. API Well No. <b>43-013-31607</b>
10. Field and Pool, or Exploratory Area <b>Monument Butte</b>
11. County or Parish, State <b>Duchesne, UT</b>

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

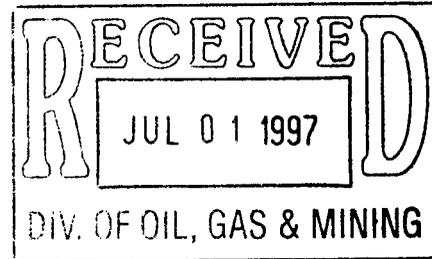
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> 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>Spud Surface Hole</u>	<input type="checkbox"/> Dispose Water

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

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

**Drilled 12 1/4" hole to 305' w/ Leon Ross Rathole Rig. Set 304.93' of 8 5/8" 24# J-55 csg. Pump 10 bbls dye wtr & 10 bbls gel. Cmt w/ 120 sx Prem + w/ 2% CC, 2% gel + 1/4#/sk flocele, 14.8 ppg, 1.37 ft/sk yield. Good returns w/ est 6 bbls cmt to surface. Drill Rathole & Mousehole f/ Four Corners, Rig #6.**

**SPUD SURFACE HOLE @ 11:30 AM 6/9/97.**



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

Signed *Cheryl Cameron*  
Cheryl Cameron

Title Regulatory Compliance Specialist Date 6/16/97

(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.

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) SW/NW 660' FWL & 1980' FNL 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 #5-31
9. API Well No. 43-013-31607
10. Field and Pool, or Exploratory Area Monument Butte
11. County or Parish, State Duchesne, UT

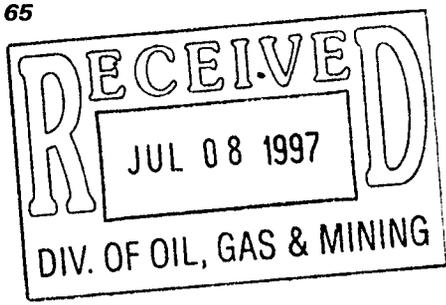
12 CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

Table with 2 main 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 6/17/97 - 6/22/97:

Drilled 7 7/8" hole from 305' - 6098' w/ Four Corners, Rig #6. Set 6102.52' of 5 1/2" 15.5# J-55 LT&C csg. Pump 20 bbls dye wtr & 20 bbls gel. Cmt w/ 405 sx Hibond 65 mod, 11.0 ppg 3.0 ft/sk yield. Followed by 360 sx Thixo, 10% CalSeal, 14.2 ppg, 1.59 ft/sk yield. Had 14 bbls gel to surface. Rig released @ 1:15 am 6/23/97.



14. I hereby certify that the foregoing is true and correct. Signed: Cheryl Cameron Title: Regulatory Compliance Specialist Date: 6/30/97

(This space of Federal or State office use.) Approved by: 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.

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
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4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SW/NW 660' FWL & 1980' FNL 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 #5-31
9. API Well No. 43-013-31607
10. Field and Pool, or Exploratory Area Monument Butte
11. County or Parish, State Duchesne, UT

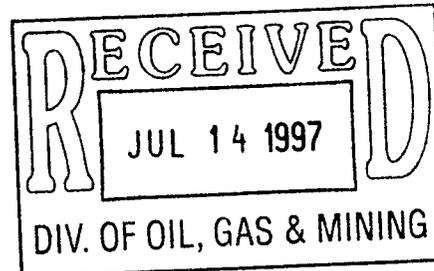
12 CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

Table with columns TYPE OF SUBMISSION and TYPE OF ACTION. Includes options like 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, 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 7/3/97 - 7/9/97:

Perf CP sd 5756'-5766'
Perf A sd 5443'-5450', 5452'-5454', 5470'-5474'



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

Signed Cheryl Cameron

Title Regulatory Compliance Specialist Date 7/11/97

(This space of Federal or State office use.)

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

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to any matter within its jurisdiction.

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

FORM APPROVED

Budget Bureau No. 1004-0135

Expires March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

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)

**SW/NW                      660' FWL & 1980' FNL  
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 #5-31**

9. API Well No.

**43-013-31607**

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**

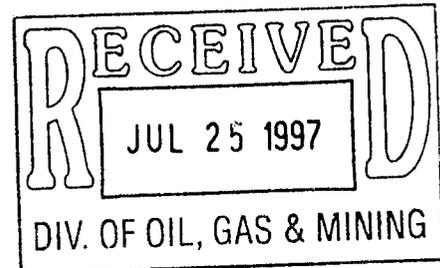
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input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

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

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

**WEEKLY STATUS REPORT FOR WEEK OF 7/10/97 - 7/17/97:**

**Perf C sd 5075'-5081', 5085'-5087'  
Perf PB sd 4630'-4638', 4640'-4644'**



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

Signed

*Cheryl Cameron*  
**Cheryl Cameron**

Title

**Regulatory Compliance Specialist**

Date

**7/18/97**

(This space of Federal or State office use.)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

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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) SW/NW 660' FWL & 1980' FNL 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 #5-31
9. API Well No. 43-013-31607
10. Field and Pool, or Exploratory Area Monument Butte
11. County or Parish, State Duchesne, UT

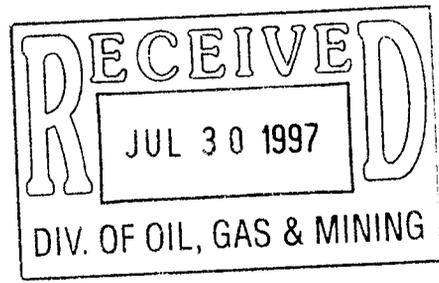
12 CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

Table with columns: TYPE OF SUBMISSION, TYPE OF ACTION. Includes options like 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, 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 7/18/97 - 7/21/97:

RIH w/ production string. On production @ 3:00 pm on 7/21/97.



14. I hereby certify that the foregoing is true and correct. Signed Cheryl Cameron Title Regulatory Compliance Specialist Date 7/25/97

(This space of Federal or State office use.)

Approved by Title Date

Conditions of approval, if any:

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-74869

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Tar Sands Federal

9. WELL NO.

#5-31

10. FIELD AND POOL, OR WILDCAT

Monument Butte

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

Sec. 31, T8S, R17E

12. COUNTY OR PARISH

Duchesne

13. STATE

UT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION:

NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. REVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR

Inland Production Company

3. ADDRESS OF OPERATOR

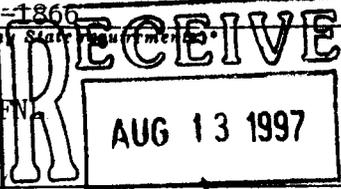
P.O. Box 790233 Vernal, UT 84079 (801) 789-1866

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

At surface SW/NW *0660 1980*

At top prod. interval reported below ~~677'~~ FWL & ~~1990'~~

At total depth



14. PERMIT NO.

43-013-31607

DATE ISSUED

9/14/97

12. COUNTY OR PARISH

Duchesne

13. STATE

UT

15. DATE SPUDDED 6/9/97 16. DATE T.D. REACHED 6/21/97 17. DATE COMPL. (Ready to prod.) 7/21/97 18. ELEVATIONS (DF, RKB, RT, OR, ETC.)\* 5335.7' GR 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 6098' 21. PLUG, BACK T.D., MD & TVD 6056' 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 5756'-5766', 5443'-5450', 5452'-5454', 5470'-5474', 5075'-5081', 5085'-5087', 4630'-4638', 4640'-4644' 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN CBL, DLL, CNL 8-13-97 27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	304.93'	12 1/4	120 sx Prem + w/ 2% CC 2% flocele	gel + 1/4#/sk
5 1/2	15.5#	6102.52'	7 7/8	405 sx Hibond 65 Mod & 360 10% CalSeal	sx Thixo w/

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

CP 5756'-5766'  
A 5443'-5450', 5452'-5454', 5470'-5474'  
C 5075'-5081', 5085'-5087'  
PB 4630'-4638', 4640'-4644'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
See Reverse	

33. PRODUCTION

DATE FIRST PRODUCTION 7/21/97 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping - 2 1/2" X 1 1/2" X 15' RHAC pump WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7 Day Avg	7/97	N/A	→	121	128	7	1.1

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

Logs listed in Item #26

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

SIGNED Cheryl Cameron TITLE Regulatory Compliance Specialist DATE 8/5/97

\*(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.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Garden Gulch Mkr	4213'		#32.			
Point 3 Mkr	4482'		Perf CP sd 5756'-5766'			
X Mkr	4725'		Frac w/ 93,500# 20/40 sd in 508 Bbls boragel			
Y Mkr	4760'					
Douglas Ck Mkr	4887'		Perf A sd 5443'-5450', 5452'-5454', 5470'-5474'			
Bicarbonate Mkr	5128'		Frac w/ 80,800# 20/40 sd in 451 Bbls boragel			
B Limestone Mkr	5252'					
Ca Peak	5741'		Perf C sd 5075'-5081'			
Basal Carbonate	NDE		Frac w/ 90,300# 20/40 sd in 462 BBls boragel			
			Perf PB SD 4630'-4638', 4640'-4644'			
			Frac w/ 72,500# 20/40 sd in 396 Bbls boragel			

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-74869

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Tar Sands Federal

9. WELL NO.

#5-31

10. FIELD AND POOL, OR WILDCAT

Monument Butte

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

Sec. 31, T8S, R17E

12. COUNTY OR PARISH

Duchesne

13. STATE

UT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other REVISED

b. TYPE OF COMPLETION:

NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESV.  Other \_\_\_\_\_

2. NAME OF OPERATOR

Inland Production Company

3. ADDRESS OF OPERATOR

P.O. Box 790233 Vernal, UT 84079 (801) 789-1866

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

At surface

SW/NW

At top prod. interval reported below

660 FWL & 1980' FNL

At total depth

14. PERMIT NO.

DATE ISSUED

43-013-31607

3/14/97

15. DATE SPUNDED

6/9/97

16. DATE T.D. REACHED

6/21/97

17. DATE COMPL. (Ready to prod.)

7/21/97

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

5335.7' GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

6098'

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

6056'

22. IF MULTIPLE COMPL. HOW MANY\*

23. INTERVALS DRILLED BY

→ X

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
Green River  
5756'-5766', 5443'-5450', 5452'-5454', 5470'-5474', 5075'-5081',  
5085'-5087', 4630'-4638', 4640'-4644'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

CBL, DLL, CNL 8-13-97

27. WAS WELL CORED

No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	304.93'	12 1/4	120 sx Prem + w/ 2% CC 2% Flocele	gel + 1/4#/sk
5 1/2	15.5#	6102.52'	7 7/8	405 sx Hibond 65 Mod & 360 10% CalSeal	sx Thixo w/

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

CP 5756'-5766'  
A 5443'-5450', 5452'-5454', 5470'-5474'  
C 5075'-5081', 5085'-5087'  
PB 4630'-4638', 4640'-4644'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
See Reverse	

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
7/21/97	Pumping - 2 1/2" X 1 1/2" X 15' RHAC pump	Producing					
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7 Day Avg	7/97	N/A	→	121	128	7	1.1
FLOW. TUBING PRBS.	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

Logs listed in Item #26

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

SIGNED

*Cheryl Cameron*  
Cheryl Cameron

TITLE

Regulatory Compliance Specialist 1997

DATE 8/5/97

\*(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.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Garden Gulch Mkr	4213'		#32.			
Point 3 Mkr	4482'		Perf CP sd 5756'-5766'			
X Mkr	4725'		Frac w/ 93,500# 20/40 sd in 508 Bbls boragel			
Y Mkr	4760'					
Douglas Ck Mkr	4887'		Perf A sd 5443'-5450', 5452'-5454',			
Bicarbonate Mkr	5128'		5470'-5474'			
B Limestone Mkr	5252'		Frac w/ 80,800# 20/40 sd in 451 Bbls boragel			
Castle Peak	5741'					
Basal Carbonate	NDE		Perf C sd 5075'-5081'			
			Frac w/ 90,300# 20/40 sd in 462 BBls boragel			
			Perf PB SD 4630'-4638', 4640'-4644'			
			Frac w/ 72,500# 20/40 sd in 396 Bbls boragel			

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)
- D - 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

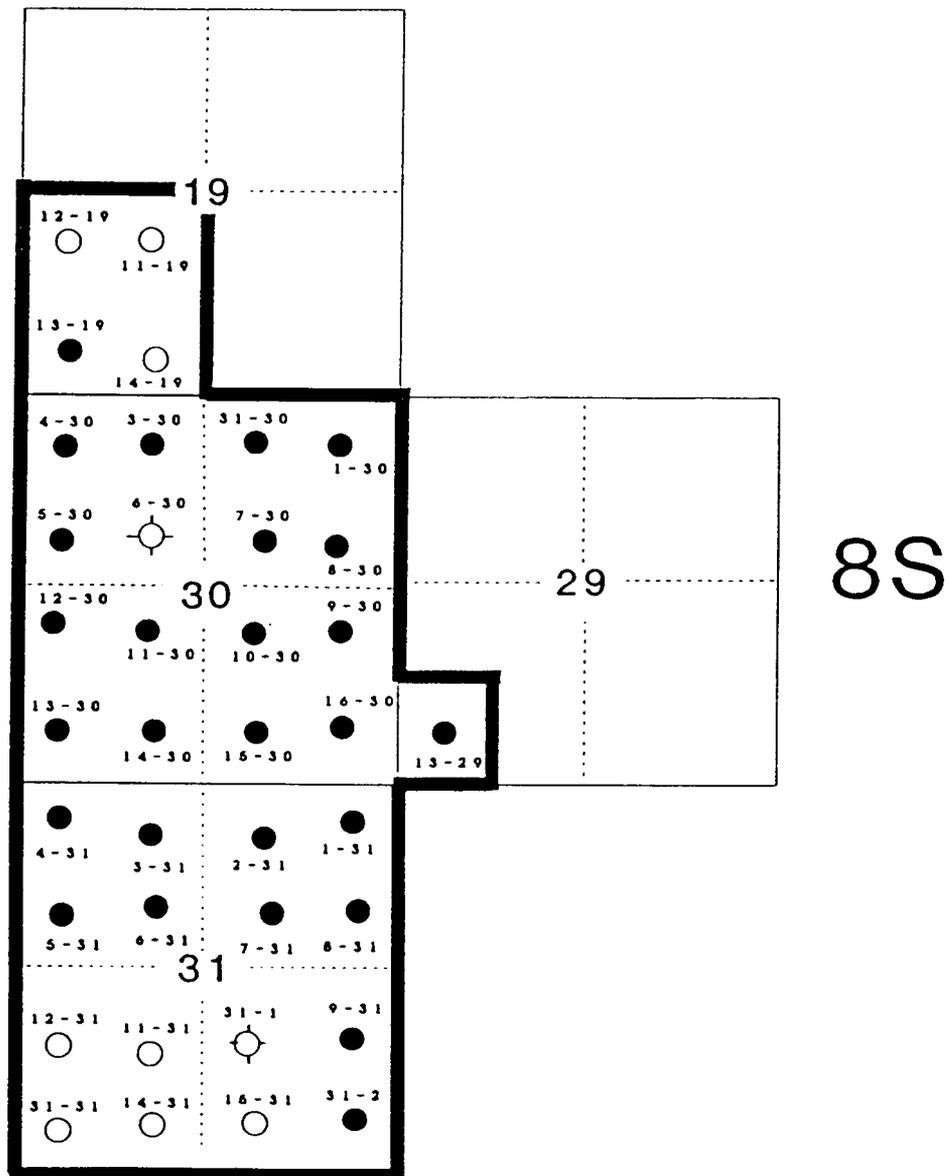
Date

Phone No. ( ) \_\_\_\_\_

# SAND WASH (GREEN RIVER) UNIT

## Duchesne County, Utah

EFFECTIVE: DECEMBER 1, 1997



17E

— UNIT OUTLINE (UTU76788X)  
1,444.06 ACRES

SECONDARY ALLOCATION  
FEDERAL 96.94%  
FEE 3.06%

INLAND PRODUCTION COMPANY SANDWASH UNIT

AS OF 3/10/98

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
Wildrose Resources	<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
Wildrose Resources	<del>GOVT #31-2-8-17 (16-31)</del>	<del>43-013-20082</del>	<del>06300</del>

To: Lisa  
 From: Debbie



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.

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 FED 5-31**

9. API Well No.

**43-013-31607**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

**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

**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)

**1980 FNL 0660 FWL SW/NW Section 31, T08S R17E**

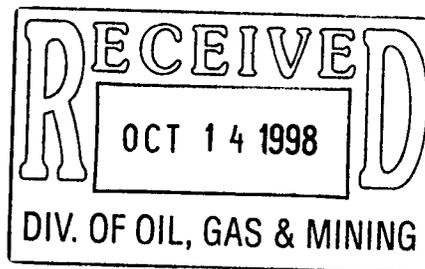
12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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

*Lubie 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**

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

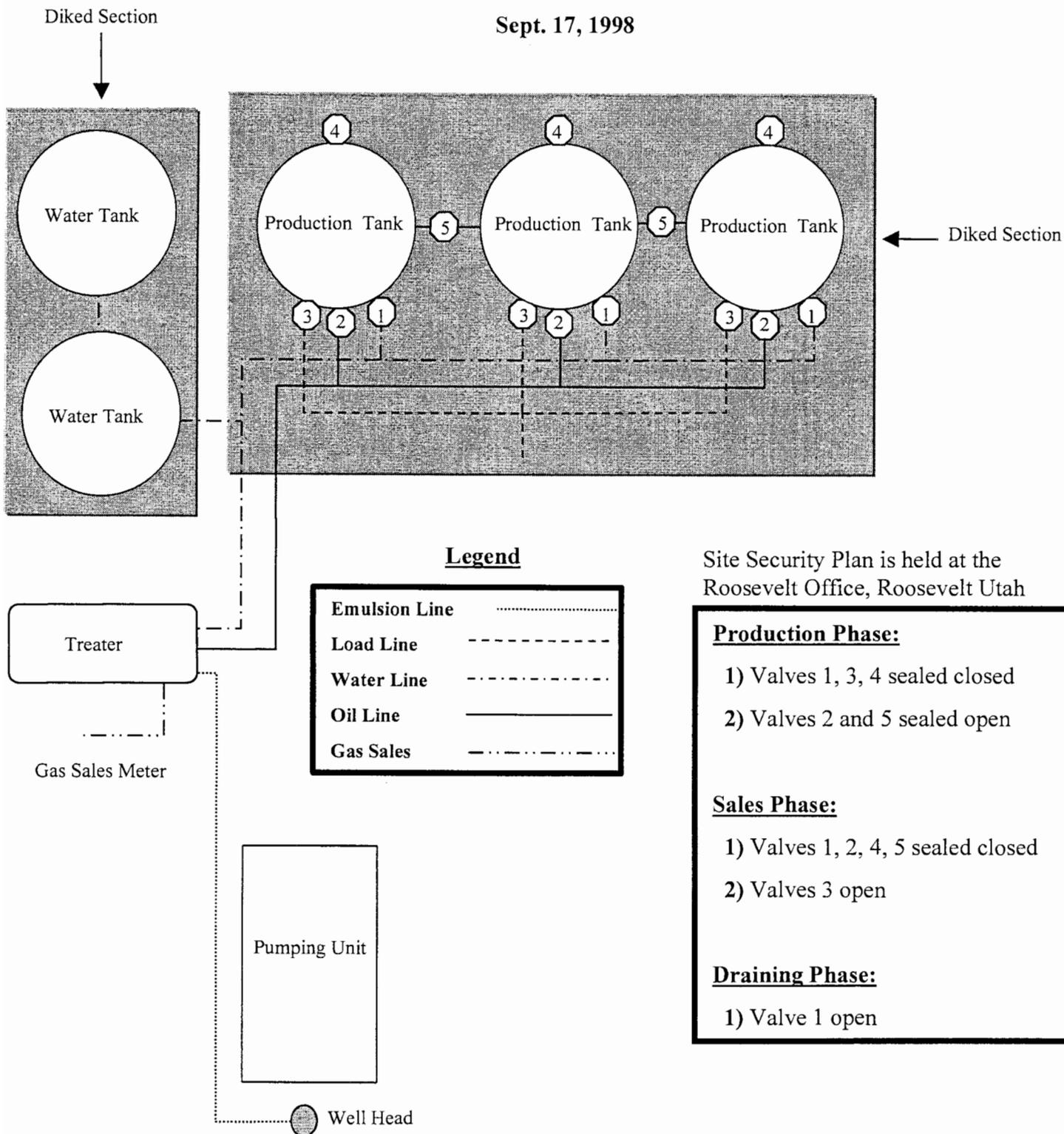
# Inland Production Company Site Facility Diagram

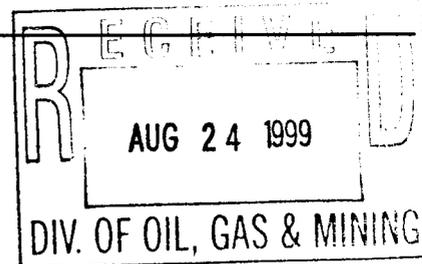
Tar Sands 5-31

SW/NW Sec. 31, T8S, 17E

Duchesne County

Sept. 17, 1998





July 26, 1999

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

RE: Permit Application for Water Injection Well  
Tar Sands #5-31-8-17  
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 #5-31-8-17 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

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

Sincerely,

John E. Dyer  
Chief Operating Officer

**INLAND PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**TAR SANDS #5-31-8-17**  
**SAND WASH UNIT**  
**MONUMENT BUTTE (GREEN RIVER) FIELD**  
**LEASE #U-74869**  
**JULY 26, 1999**

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ATTACHMENT H-1	WELLBORE DIAGRAM OF PROPOSED PLUGGED WELL



# Tar Sands Federal #5-31

Spud Date: 6/9/97  
 Put on Production: 7/21/97  
 GL: 5336' KB: 5348'

Initial Production: 121 BOPD,  
 128 MCFPD, 7 BWPD

## SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (304.93')  
 DEPTH LANDED: 303.04' GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 120 sxs Premium cmt, est 6 bbls to surf.

## PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 143 jts. (6102.52')  
 DEPTH LANDED: 6096.52' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 405 sxs Hibond mixed & 360 sxs thixotropic  
 CEMENT TOP AT: NA per CBL

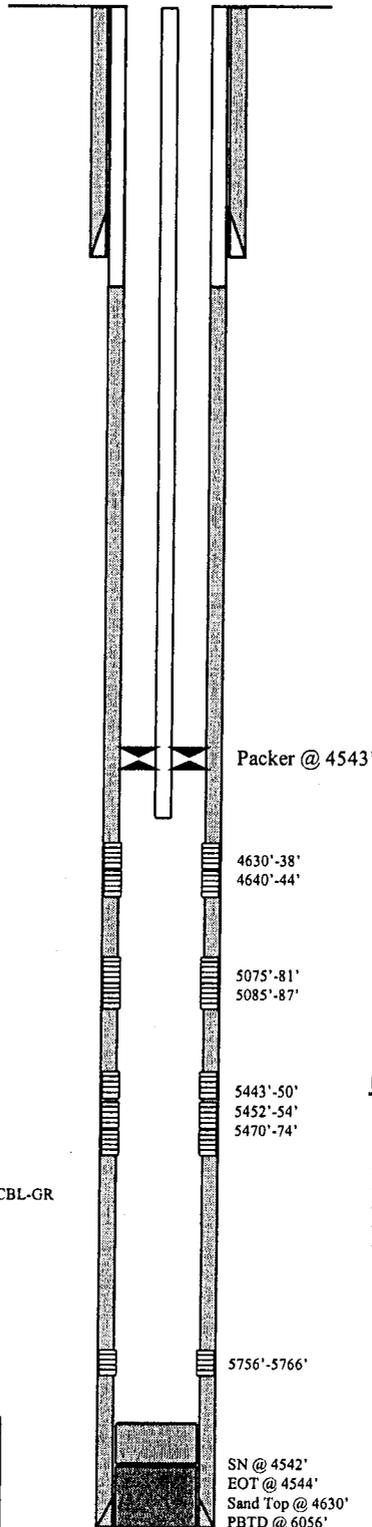
## TUBING

SIZE/GRADE/WT.: 2-7/8" / M -50 / 6.5#  
 NO. OF JOINTS: 142 jts  
 PACKER: 4543'  
 TOTAL STRING LENGTH: ? (EOT @ 4544')  
 SN LANDED AT: 4542'

## SUCKER RODS

POLISHED ROD:  
 SUCKER RODS:  
 PUMP SIZE:  
 STROKE LENGTH:  
 PUMP SPEED, SPM:  
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

## Proposed Injection Wellbore Diagram



## FRAC JOB

7/8/97 5756'-5766' **Frac CP sand as follows:**  
 93,500# of 20/40 sand in 508 bbls of Boragel. Breakdown @ 3680psi.  
 Treated @ avg rate of 26.5 bpm w/avg press of 2250 psi. ISIP-2353 psi, 5-min 2166 psi. Flowback on 12/64" ck for 3 hours and died.

7/10/97 5443'-5474' **Frac A sand as follows:**  
 80,800# of 20/40 sand in 451 bbls of Boragel. Breakdown @ 2648psi.  
 Treated @ avg rate of 24.7 bpm w/avg press of 1750 psi. ISIP-2143 psi, 5-min 1752 psi. Flowback on 12/64" ck for 3 hours and died.

7/12/97 5075'-5087' **Frac C sand as follows:**  
 90,300# of 20/40 sand in 462 bbls of Boragel. Breakdown @ 2453psi.  
 Treated @ avg rate of 27 bpm w/avg press of 2400 psi. ISIP-3264 psi, 5-min 2933 psi. Flowback on 12/64" ck for 3 - 1/2 hours and died.

7/15/97 4630'-4644' **Frac PB sand as follows:**  
 72,500# of 20/40 sand in 396 bbls of Boragel. Breakdown @ 2974psi.  
 Treated @ avg rate of 22.5 bpm w/avg press of 2250 psi. ISIP-3553 psi, 5-min 3429 psi. Flowback on 12/64" ck for 3 hours and died.

## PERFORATION RECORD

Date	Interval	Tool	Holes
7/8/97	5756'-5766'	4 JSFP	40 holes
7/10/97	5470'-5474'	4 JSFP	16 holes
7/10/97	5452'-5454'	4 JSFP	8 holes
7/10/97	5443'-5450'	4 JSFP	28 holes
7/12/97	5085'-5087'	4 JSFP	8 holes
7/12/97	5075'-5081'	4 JSFP	24 holes
7/15/97	4640'-4644'	4 JSFP	16 holes
7/15/97	4630'-4638'	4 JSFP	32 holes



**Inland Resources Inc.**  
**Tar Sands Federal #5-31**  
 660 FWL 1980 FNL  
 NENE Section 31-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-31607; Lease #U-74869

SN @ 4542'  
 EOT @ 4544'  
 Sand Top @ 4630'  
 PBD @ 6056'  
 TD @ 6098'

## 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, 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 #5-31-8-17 from a producing oil well to a water injection well in the 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 #5-31-8-17 well, the proposed injection zone is from 4630' - 5766'. The confining strata directly above and below the injection zones are the top of the Garden Gulch formation and the Basal Carbonate. 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.

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

The referenced log for the Tar Sands #5-31-8-17 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 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, 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 303' GL, and 5-1/2", 15.5#, J-55 casing run from surface to 6096' 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 injected is culinary water from the Johnson Water District supply line. 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, F-1, and F-2.

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

The proposed average injection pressure will be approximately 1500 psig and the maximum injection pressure will not exceed 2125 psig.

**2.9 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 #5-31-8-17, for proposed zones (4630' - 5766') calculates at .826 psig/ft. The maximum injection pressures will be limited so as not to exceed the gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 2125 psig. See Attachment G through G-1.

**2.10 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 #5-31-8-17, the injection zone (4630' - 5766') is in the Douglas Creek member of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The Douglas Creek member is 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' within the Monument Butte area. 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.

**2.11 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-8.

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.

**2.12 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.

**2.13 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.

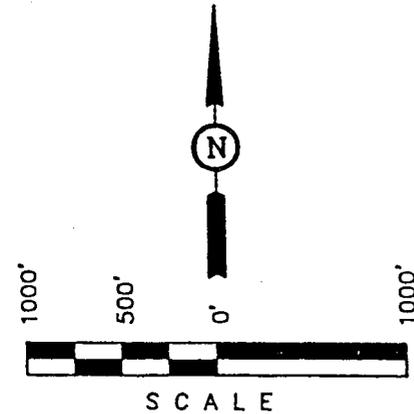
**INLAND PRODUCTION CO.**

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

Well location, TAR SANDS FEDERAL #5-31 (1), located as shown in Lot 3 of Section 31, T8S, R17E, S.L.B.&M. Duchesne County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 31, 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 5301 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.

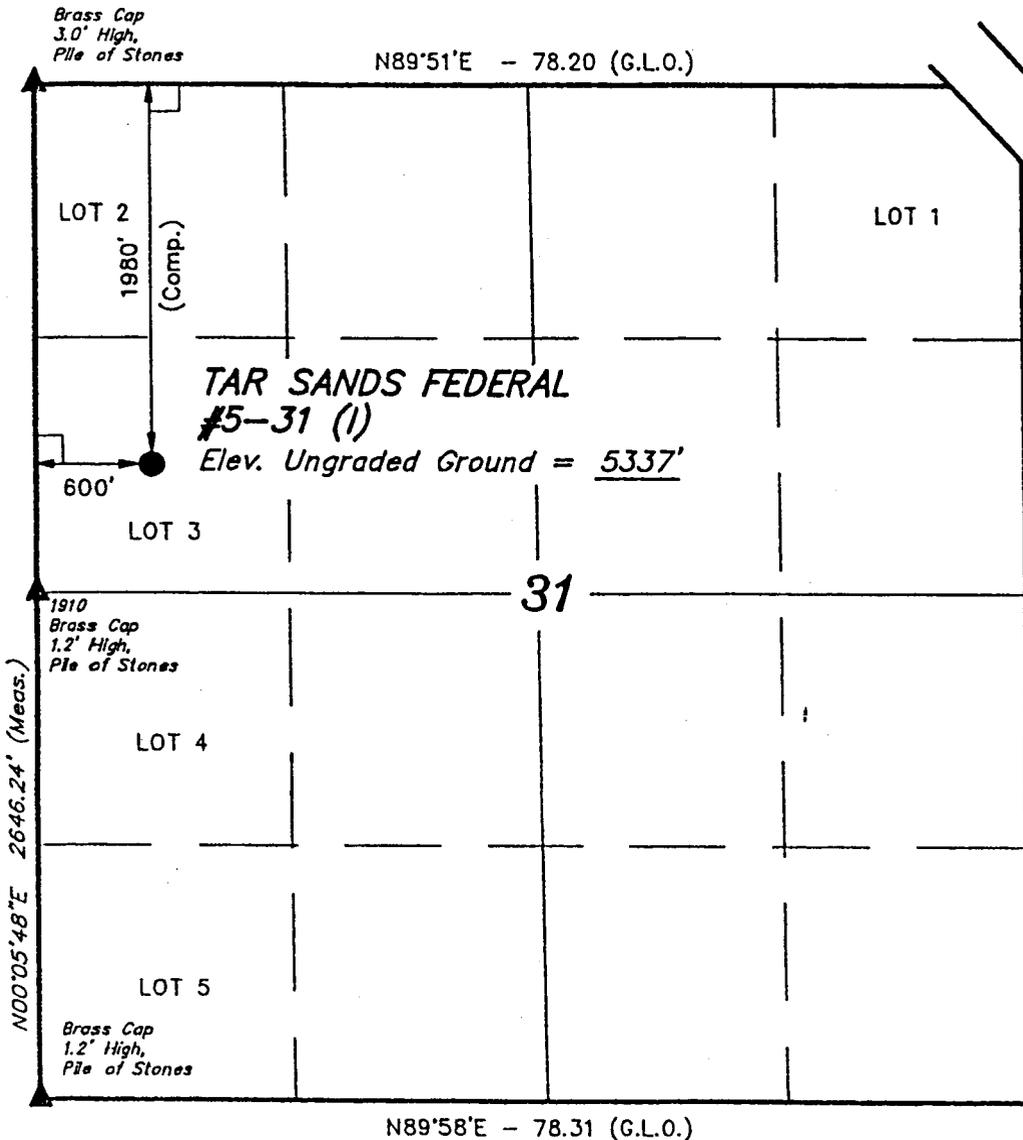
*Robert L. Gray*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

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

SCALE 1" = 1000'	DATE SURVEYED: 12-19-95	DATE DRAWN: 12-20-95
PARTY J.T.K. B.B. L.D.T. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE INLAND PRODUCTION CO.	

Attachment A-1

NORTH - G.L.O. (Basis of Bearings)  
2644.71' (Measured)



N0°03'W - (G.L.O.)

**LEGEND:**

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

**NOTE:**

PROPOSED WELL HEAD BEARS N42°00'10"E 896.6' FROM THE WEST 1/4 CORNER OF SECTION 31, T8S, R17E, S.L.B.&M.

# Attachment B

Tract	Land Description	Mineral Ownership & Expires	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/4, E/2SW/4, SW/4SE/4 Section 31: Lots 1-5, W/2E/2, SE/NE E/2W/2, NE/4SE/4	UTU-74869 HBP	Inland Production Company	(Surface Rights) USA
2	<u>Township 8 South, Range 16 East</u> Section 36: All	ML-22061 HBP	Inland Production Company	(Surface Rights) STATE
3	<u>Township 8 South, Range 16 East</u> Section 24: S/2 Section 25: NE/4, E/2NW/4, S/2 Section 26: S/2SE/4	UTU-67170 HBP	Inland Production Company	(Surface Rights) USA

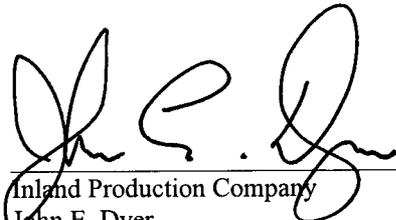
ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Tar Sands #5-31-8-17

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: \_\_\_\_\_

  
Inland Production Company  
John E. Dyer  
Chief Operating Officer

Sworn to and subscribed before me this 26<sup>th</sup> day of July, 1999.

Notary Public in and for the State of Colorado: Patsy A. Barreau



My Commission Expires 11/14/2000

Attachment A

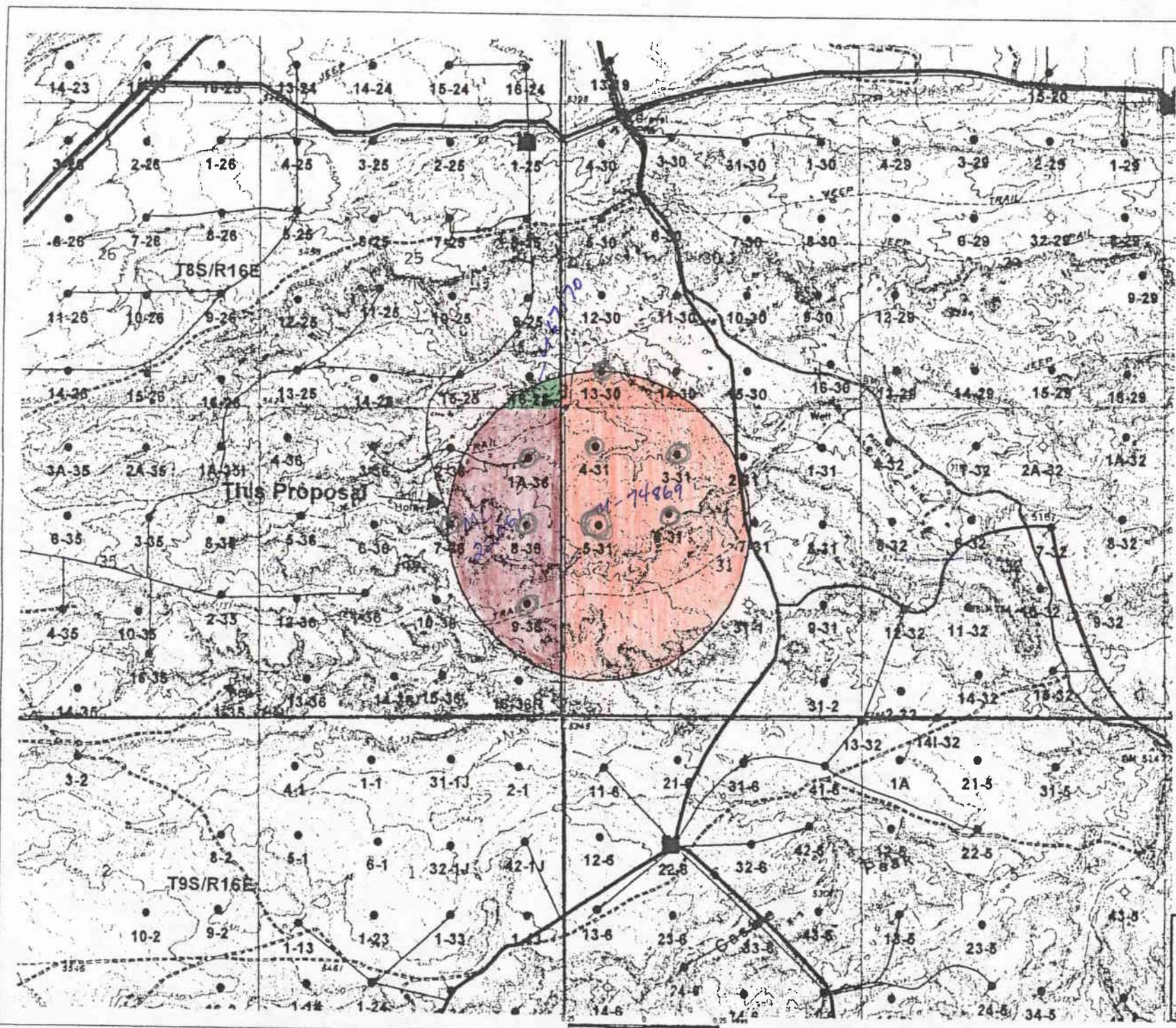


Exhibit "A"



- Well Categories
- INJ
  - OIL
  - DRY
  - SHUTIN
  - Water 6"
  - Water 4"
  - Water 2 - 3"
  - Injectors

118 17' West Sub 78  
 Zone 1, Course 19221  
 Plan 103-093411

UINTA BASIN  
 Drilling & Well Completions, Inc.

DATE: 11-28-08

## Tar Sands Federal #5-31

Spud Date: 6/9/97  
 Put on Production: 7/21/97  
 GL: 5336' KB: 5348'

Initial Production: 121 BOPD,  
 128 MCFPD, 7 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (304.93')  
 DEPTH LANDED: 303.04' GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 120 sxs Premium cmt, est 6 bbls to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 143 jts. (6102.52')  
 DEPTH LANDED: 6096.52' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 405 sxs Hibond mixed & 360 sxs thixotropic  
 CEMENT TOP AT: NA per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / M -50 / 6.5#  
 NO. OF JOINTS: 183 jts  
 TUBING ANCHOR: 5695'  
 SEATING NIPPLE: 2 - 7/8" (1.10')  
 TOTAL STRING LENGTH: 7 (EOT @ 5859')  
 SN LANDED AT: 5791'

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 99-3/4" scraped, 4-1-1/2" guided rods, 122-3/4" plain rods,  
 PUMP SIZE: 2-1/2" x 1-1/2" x 15 RHAC rod pump  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 8 SPM  
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

**FRAC JOB**

**7/8/97 5756'-5766'**      **Frac CP sand as follows:**  
 93,500# of 20/40 sand in 508 bbls of Boragel. Breakdown @ 3680psi.  
 Treated @ avg rate of 26.5 bpm w/avg press of 2250 psi. ISIP-2353 psi, 5-min 2166 psi. Flowback on 12/64" ck for 3 hours and died.

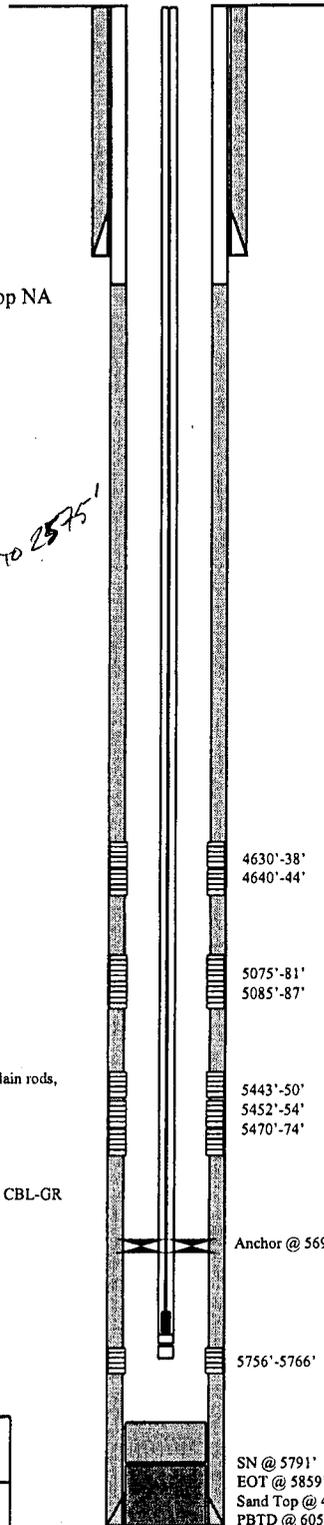
**7/10/97 5443'-5474'**      **Frac A sand as follows:**  
 80,800# of 20/40 sand in 451 bbls of Boragel. Breakdown @ 2648psi.  
 Treated @ avg rate of 24.7 bpm w/avg press of 1750 psi. ISIP-2143 psi, 5-min 1752 psi. Flowback on 12/64" ck for 3 hours and died.

**7/12/97 5075'-5087'**      **Frac C sand as follows:**  
 90,300# of 20/40 sand in 462 bbls of Boragel. Breakdown @ 2453psi.  
 Treated @ avg rate of 27 bpm w/avg press of 2400 psi. ISIP-3264 psi, 5-min 2933 psi. Flowback on 12/64" ck for 3 - 1/2 hours and died.

**7/15/97 4630'-4644'**      **Frac PB sand as follows:**  
 72,500# of 20/40 sand in 396 bbls of Boragel. Breakdown @ 2974psi.  
 Treated @ avg rate of 22.5 bpm w/avg press of 2250 psi. ISIP-3553 psi, 5-min 3429 psi. Flowback on 12/64" ck for 3 hours and died.

Cement Top NA

*Handwritten note:* Most 760% to 2575'



**PERFORATION RECORD**

Date	Interval	Number of Holes
7/8/97	5756'-5766'	4 JSPP 40 holes
7/10/97	5470'-5474'	4 JSPP 16 holes
7/10/97	5452'-5454'	4 JSPP 8 holes
7/10/97	5443'-5450'	4 JSPP 28 holes
7/12/97	5085'-5087'	4 JSPP 8 holes
7/12/97	5075'-5081'	4 JSPP 24 holes
7/15/97	4640'-4644'	4 JSPP 16 holes
7/15/97	4630'-4638'	4 JSPP 32 holes

**Inland Resources Inc.**

**Tar Sands Federal #5-31**

660 FWL 1980 FNL

NENE Section 31-T8S-R17E

Duchesne Co, Utah

API #43-013-31607; Lease #U-74869

# Tar Sands Federal #13-30

Spud Date: 6/29/96  
 Put on Production: 7/30/96  
 GL: 5282' KB: 5295'

Initial Production: 32 BOPD,  
 68 MCFPD, 2 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (290.48')  
 DEPTH LANDED: 289.38'(GL)  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 120 sxs Premium cmt, est 4 bbls cmt to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 144 jts. (6146.77')  
 DEPTH LANDED: 6140.77'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 320 sk Hybond mixed & 340 sxs thixotropic  
 CEMENT TOP AT: Surface per CBL  
*Most 3300 to 3300*

**TUBING**

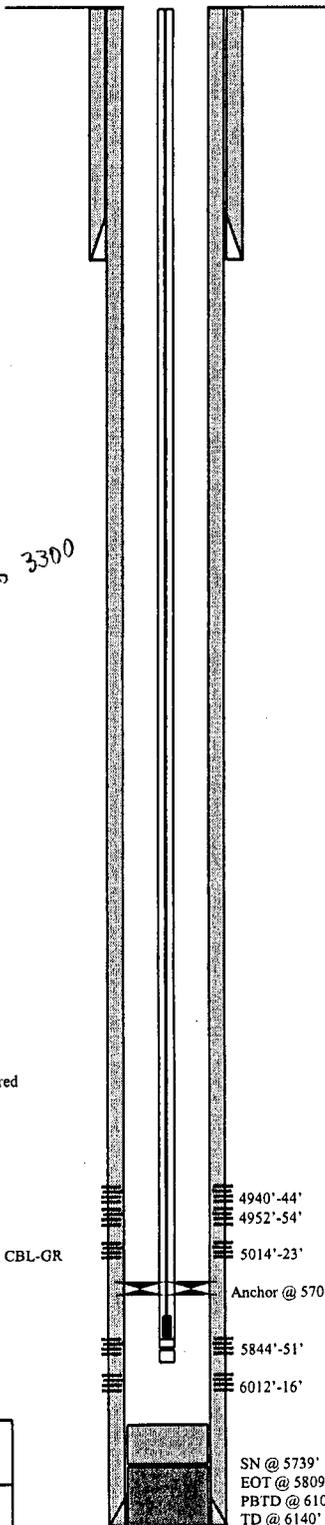
SIZE/GRADE/WT.: 2-7/8"/6.5#/LS tbg.  
 NO. OF JOINTS: 202 jts.  
 TUBING ANCHOR: 5706'  
 SEATING NIPPLE: 2-7/8" (1.10')  
 TOTAL STRING LENGTH: EOT @ 5809'  
 SN LANDED AT: 5739'

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' polished rod.  
 SUCKER RODS: 4- 1" scraped, 123-3/4" plain rods, 98-3/4" scraped  
 TOTAL ROD STRING LENGTH: ?  
 PUMP NUMBER: ?  
 PUMP SIZE: 1-1/2" pump  
 STROKE LENGTH: 74"  
 PUMP SPEED, SPM: 9 SPM  
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

**FRAC JOB**

7/17/96 5844'-6016' Frac CP-1 and CP-4 sands as follows:  
 83,900# of 20/40 sand in 486 bbls of Boragel. Breakdown @ 2763 psi, treated @ avg rate of 28 bpm w/ avg press of 2000psi. ISIP-2497 psi, 5-min 2170 psi. Flowback on 16/64" ck for 2-1/2 hrs & died.  
 7/20/96 4940'-5023' Frac D-1 and D-2 sand as follows:  
 87,100# of 20/40 sd in 470 bbls of Boragel. Breakdown @ 2640 psi. Treated @ avg rate of 26.4 bpm w/avg press of 2400 psi. ISIP-2938 psi, 5-min 2881 psi. Flowback on 16/64" ck for 2-1/2 hrs and died.



**PERFORATION RECORD**

Date	Interval	Tool	Holes
7/17/96	5844'-5851'	4 JSPF	28 holes
7/17/96	6012'-6016'	4 JSPF	16 holes
7/18/96	4940'-4944'	4 JSPF	16 holes
7/18/96	4952'-4954'	4 JSPF	8 holes
7/18/96	5014'-5023'	4 JSPF	36 holes



**Inland Resources Inc.**  
**Tar Sands Federal #13-30**  
 602.6 FSL 698.9 FWL  
 SWSW Section 30-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-31637; Lease #U-74869

SN @ 5739'  
 EOT @ 5809'  
 FBTD @ 6100'  
 TD @ 6140'

# Attachment E-2

## Tar Sands Federal #3-31

Spud Date: 7/8/97  
 Put on Production: 8/11/97  
 GL: 5283' KB: 5296'

Initial Production: 61 BOPD,  
 133 MCFPD, 7 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (296.30')  
 DEPTH LANDED: 294.56'(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: 144 jts. (6033.86')  
 DEPTH LANDED: 6075.54'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 340 sk HiBond mixed & 320 sxs thixotropic  
 CEMENT TOP AT: 977' per CBL

*Handwritten:* 977' to 2462'

**TUBING**

SIZE/GRADE/WT.: 2-7/8"/6.5#/M-50 tbg.  
 NO. OF JOINTS: 194 jts.  
 TUBING ANCHOR: 5823'  
 SEATING NIPPLE: 2-7/8" (1.10')  
 TOTAL STRING LENGTH: EOT @ 5985'  
 SN LANDED AT: 5917'

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' polished rod.  
 SUCKER RODS: 4-1" guided, 133-3/4" plain rods, 99-3/4" scraped  
 TOTAL ROD STRING LENGTH: ?  
 PUMP NUMBER: ?  
 PUMP SIZE: 2-1/2 x 1-1/2 x 12 x 15 RHAC pump  
 STROKE LENGTH: 84"  
 PUMP SPEED, SPM: 8 SPM  
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

**FRAC JOB**

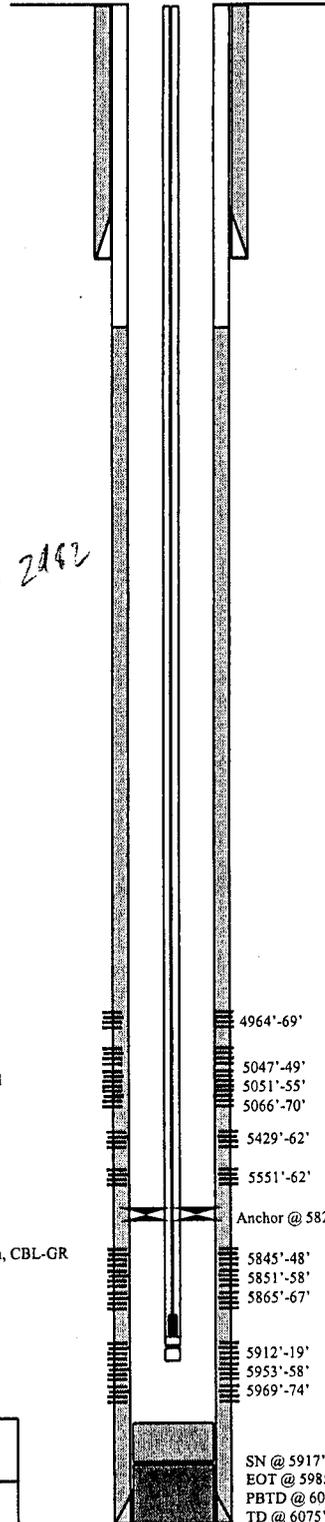
8/2/97 5845'-5974' **Frac CP-2 & CP-4 sands as follows:**  
 109,400# of 20/40 sand in 573 bbls of Boragel. Brokedown @ 2609 psi. Treated @ avg rate of 31.4 w/avg pressure of 1300 psi. ISIP-1912 psi. 5-min 1358 psi. Flowback on 12/64" ck for 2-1/2 hours until dead.

8/5/97 5429'-5562' **Frac A-3 & LODC sands as follows:**  
 106,000# of 20/40 sand in 550 bbls of Boragel. Broke down @ 2630 psi. Treated w/avg press of 1500 psi @ avg rate of 30.5 bpm. ISIP 1851 psi, 5-min 1740 psi, 10-min 1512 psi, 15-min 1443 psi. Start Flowback after 5-min SI @ 1 bpm until dead.

8/7/97 4964'-5070' **Frac C & D-2 sands as follows:**  
 107,100# of 20/40 sand in 510 bbls of Boragel. Breakdown @ 2043 psi. Treated @ avg rate of 27.5 bpm w/avg press of 2270 psi. ISIP-3261 psi, 5-min SI: 3141 psi. Flowback @ 1 bpm until dead.

**PERFORATION RECORD**

Date	Interval	Tool	Holes
8/1/97	5845'-5848'	4 JSPF	12 holes
8/1/97	5851'-5858'	4 JSPF	28 holes
8/1/97	5865'-5867'	4 JSPF	8 holes
8/1/97	5912'-5919'	4 JSPF	28 holes
8/1/97	5953'-5958'	4 JSPF	20 holes
8/1/97	5969'-5974'	4 JSPF	20 holes
8/5/97	5429'-5462'	2 JSPF	66 holes
8/5/97	5551'-5562'	4 JSPF	44 holes
8/6/97	4964'-4969'	4 JSPF	20 holes
8/6/97	5047'-5049'	4 JSPF	32 holes
8/6/97	5051'-5055'	4 JSPF	16 holes
8/6/97	5066'-5070'	4 JSPF	16 holes



**Inland Resources Inc.**

**Tar Sands Federal #3-31**

771 FNL 1978 FWL

NENW Section 31-T8S-R17E

Duchesne Co, Utah

API #43-013-31733; Lease #U-74869

Tar Sands Federal #4-31

Spud Date: 7/27/96  
 Put on Production: 8/26/96  
 GL: 5312' KB: 5325'

Initial Production: 45 BOPD,  
 45 MCFPD, 3 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (291.13')  
 DEPTH LANDED: 289.53'(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: 155 jts. (6224.10')  
 DEPTH LANDED: 6222.10'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 330 sk Hybond mixed & 370 sxs thixotropic  
 CEMENT TOP AT: Surface per CBL

*Most -> 80' to TD 2385'*

TUBING

SIZE/GRADE/WT.: 2-7/8"/6.5#/LS tbg.  
 NO. OF JOINTS: 197 jts.  
 TUBING ANCHOR: 5519'  
 SEATING NIPPLE: 2-7/8" (1.10')  
 TOTAL STRING LENGTH: EOT @ 5681'  
 SN LANDED AT: 5554'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod.  
 SUCKER RODS: 8- 1" scraped, 114-3/4" plain rods, 99-3/4" scraped  
 TOTAL ROD STRING LENGTH: ?  
 PUMP NUMBER: ?  
 PUMP SIZE: 2-1/2 x 1-1/2 x 12 x 15 RHAC pump  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 7 SPM  
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

FRAC JOB

8/14/96 5570'-5582' **Frac LDC sand as follows:**  
 87,700# 20/40 sand in 484 bbls of Boragel. Breakdown @ 2889 psi. Treated @ avg rate of 20 bpm w/avg press of 200 psi. ISIP-2339 psi, 5-min 2161 psi. Flowback on 12/64" ck. for 2-1/2 hrs & died.

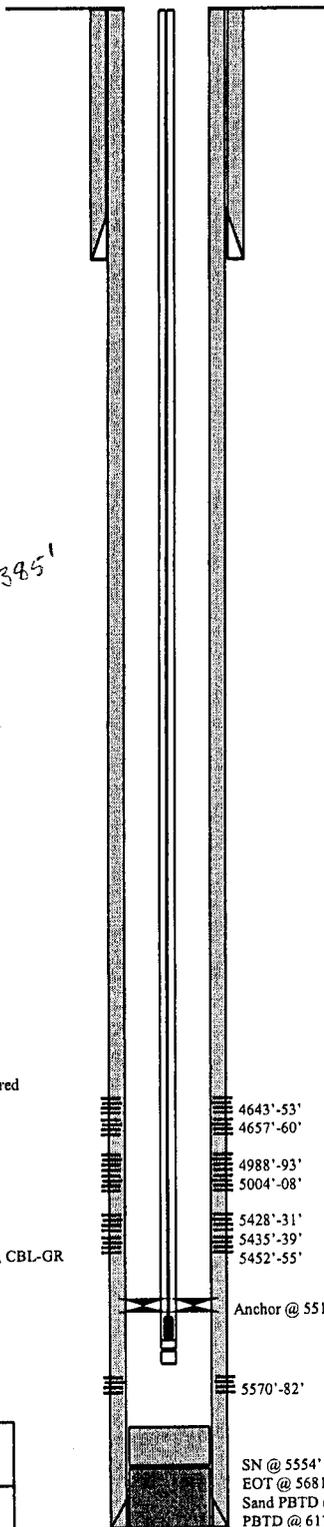
8/16/96 5428'-5455' **Frac A-3 sand as follows:**  
 86,700# of 20/40 sand in 478 bbls of Boragel. Breakdown @ 2200 psi. Treated @ avg rate of 18.3 bpm w/avg press of 2050 psi. ISIP-3007 psi, 5-min 2832 psi. Flowback on 12/64" ck. for 3 hrs and died.

8/19/96 4988'-5008' **Frac D-2 sand as follows:**  
 86,500# of 20/40 sand in 475 bbls of Boragel. Breakdown @ 2734 psi. Treated @ avg rate of 18 bpm 2/avg press of 2200 psi. ISIP-2793 psi, 5-min 2749 psi. Flowback on 12/64" ck. for 1-1/2 hrs and died.

8/21/96 4643'-4660' **Frac PB-10 sand as follows:**  
 99,400# of 20/40 sand in 546 bbls of Boragel. Breakdown @ 3615 psi. Treated @ avg rate of 22.2 bpm w/avg press of 2600 psi. ISIP-3453 psi, 5-min 3188 psi. Flowback on 12/64" ck. for 3-1/2 hrs and died.

PERFORATION RECORD

8/13/96	5570'-5582'	4 JSPF	48 holes
8/15/96	5428'-5431'	4 JSPF	12 holes
8/15/96	5435'-5439'	4 JSPF	16 holes
8/15/96	5452'-5455'	4 JSPF	12 holes
8/17/96	4988'-4993'	4 JSPF	20 holes
8/17/96	5004'-5008'	4 JSPF	16 holes
8/20/96	4643'-4653'	4 JSPF	40 holes
8/20/96	4657'-4660'	4 JSPF	12 holes



SN @ 5554'  
 EOT @ 5681'  
 Sand PBD @ 5924'  
 PBD @ 6177'  
 TD @ 6226'



**Inland Resources Inc.**  
 Tar Sands Federal #4-31  
 549 FWL 635 FNL  
 NWNW Section 31-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-31606; Lease #U-74869

Tar Sands Federal #6-31

Spud Date: 7/7/97  
 Put on Production: 8/16/97  
 GL: 5313' KB: 5325'

Initial Production: 111 BOPD,  
 250 MCFPD, 10 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (301.25')  
 DEPTH LANDED: 299.8' GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 120 sxs Premium cmt, est 5 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 145 jts. (6122.33')  
 DEPTH LANDED: 6117' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 425 sxs Hibond mixed & 380 sxs thixotropic  
 CEMENT TOP AT: NA per CBL

TUBING

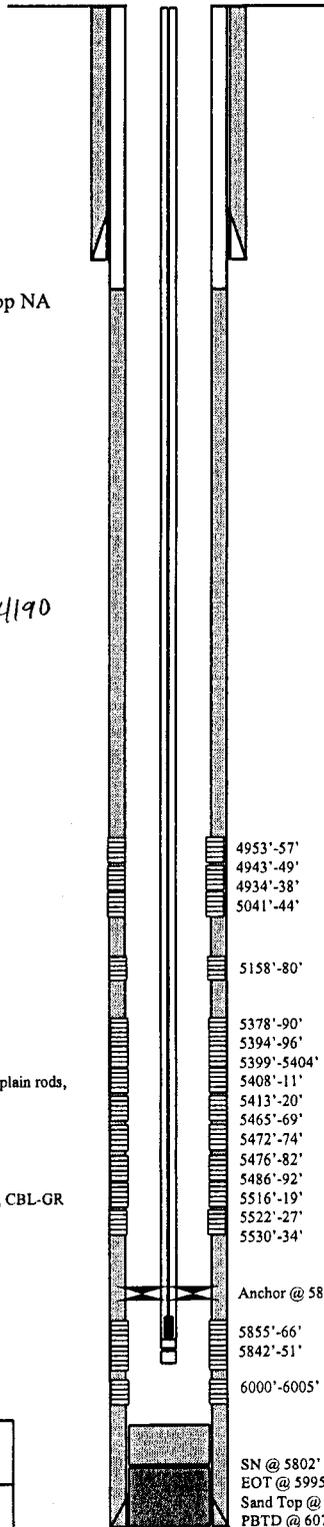
SIZE/GRADE/WT.: 2-7/8" / M -50 / 6.5#  
 NO. OF JOINTS: 187 jts  
 TUBING ANCHOR: 5802'  
 SEATING NIPPLE: 5-1/2" (1.10')  
 TOTAL STRING LENGTH: ? (EOT @ 5995')  
 SN LANDED AT: 5927'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 97-3/4" scraped, 4 - 1-1/2" guided rods, 135-3/4" plain rods,  
 PUMP SIZE: 2-1/2" x 1-1/2" x 15 RHAC rod pump  
 STROKE LENGTH: 72"  
 PUMP SPEED, SPM: 8 SPM  
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

780' to 3532' - 4190'  
 PATI+Y BELOW

Cement Top NA



FRAC JOB

8/4/97 5842'-6005' **Frac CP sand as follows:**  
 1590# of 20/40 sand in 308 bbls of Boragel. Breakdown @ 2078 psi. Treated @ avg rate of 22.0 bpm w/avg press of 1750 psi. ISIP-1697 psi, 5-min 1495 psi. Flowback on 12/64" ck for 5 hours and died.

8/6/97 5842'-6005' **Refrac CP sand as follows:**  
 119,300# of 20/40 sand in 594 bbls of Boragel. Breakdown @ 2302 psi. Treated @ avg rate of 26.80 bpm w/avg press of 1560 psi. ISIP-2031 psi, 5-min 1922 psi. Flowback on 12/64" ck for 5 hours and died.

8/7/97 5378'-5534' **Frac A/LDC sands as follows:**  
 166,400# of 20/40 sand in 746 bbls of # Boragel. Breakdown @ 2520 psi. Treated @ avg rate of 43.3 bpm w/avg press of 1700 psi. ISIP-1626 psi, 5-min 1545 psi. Flowback on 12/64" ck for 5 hours and died.

8/9/97 5158'-5180' **Frac B sands as follows:**  
 125,400# of 20/40 sand in 583 bbls of # Boragel. Breakdown @ 3209 psi. Treated @ avg rate of 25.0 bpm w/avg press of 1600 psi. ISIP-2401 psi, 5-min 2338 psi. Flowback on 12/64" ck for 5 hours and died.

8/12/97 4934'-5044' **Frac D sands as follows:**  
 106,100# of 20/40 sand in 527 bbls of # Boragel. Breakdown @ 2420 psi. Treated @ avg rate of 26.6 bpm w/avg press of 1900 psi. ISIP-3264 psi, 5-min 3220 psi. Flowback on 12/64" ck for 3 hours and died.

PERFORATION RECORD

Date	Interval	Tool	Holes
8/4/97	6000'-6005'	4 JSPP	20 holes
8/4/97	5855'-5866'	4 JSPP	44 holes
8/4/97	5842'-5851'	4 JSPP	44 holes
8/7/97	5530'-5534'	2 JSPP	8 holes
8/7/97	5522'-5527'	2 JSPP	10 holes
8/7/97	5516'-5519'	2 JSPP	6 holes
8/7/97	5486'-5492'	2 JSPP	12 holes
8/7/97	5476'-5482'	2 JSPP	12 holes
8/7/97	5472'-5474'	2 JSPP	4 holes
8/7/97	5465'-5469'	2 JSPP	8 holes
8/7/97	5413'-5420'	2 JSPP	14 holes
8/7/97	5408'-5411'	2 JSPP	6 holes
8/7/97	5399'-5404'	2 JSPP	10 holes
8/7/97	5394'-5396'	2 JSPP	4 holes
8/7/97	5378'-5390'	2 JSPP	24 holes
8/9/97	5158'-5180'	4 JSPP	80 holes
8/12/97	5041'-5044'	4 JSPP	12 holes
8/12/97	4953'-4957'	4 JSPP	16 holes
8/12/97	4943'-4949'	4 JSPP	24 holes
8/12/97	4934'-4938'	4 JSPP	16 holes

4953'-57'  
 4943'-49'  
 4934'-38'  
 5041'-44'

5158'-80'

5378'-90'  
 5394'-96'  
 5399'-5404'  
 5408'-11'  
 5413'-20'  
 5465'-69'  
 5472'-74'  
 5476'-82'  
 5486'-92'  
 5516'-19'  
 5522'-27'  
 5530'-34'

Anchor @ 5802'

5855'-66'  
 5842'-51'

6000'-6005'

SN @ 5802'  
 EOT @ 5995'  
 Sand Top @ 4934'  
 PBTD @ 6079'  
 TD @ 6120'



Inland Resources Inc.

Tar Sands Federal #6-31

1825 FWL 1785 FNL

NENE Section 31-T8S-R17E

Duchesne Co, Utah

API #43-013-31874; Lease #U-74869

# Monument Butte State #1A-36

Spud Date: 4/9/96  
 Put on Injection: 9/12/97  
 GL: 5332' KB: 5345'

## Injector Wellbore Diagram

Initial Production: 150 BOPD est.

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 290'  
 DEPTH LANDED: 289.07'(GL)  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 120 sxs Premium cmt, est 5 bbls to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 145 jts. (6182.72')  
 DEPTH LANDED: 6179.72.03'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 290 sk Hyfill mixed & 360 sxs thixotropic  
 CEMENT TOP AT: Surface per CBL

*> 80% TO 3580*

### TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
 NO. OF JOINTS: 156 jts  
 TUBING ANCHOR:  
 SEATING NIPPLE: 2-7/8" (1.10')  
 TOTAL STRING LENGTH:  
 SN LANDED AT: 4877'

### SUCKER RODS

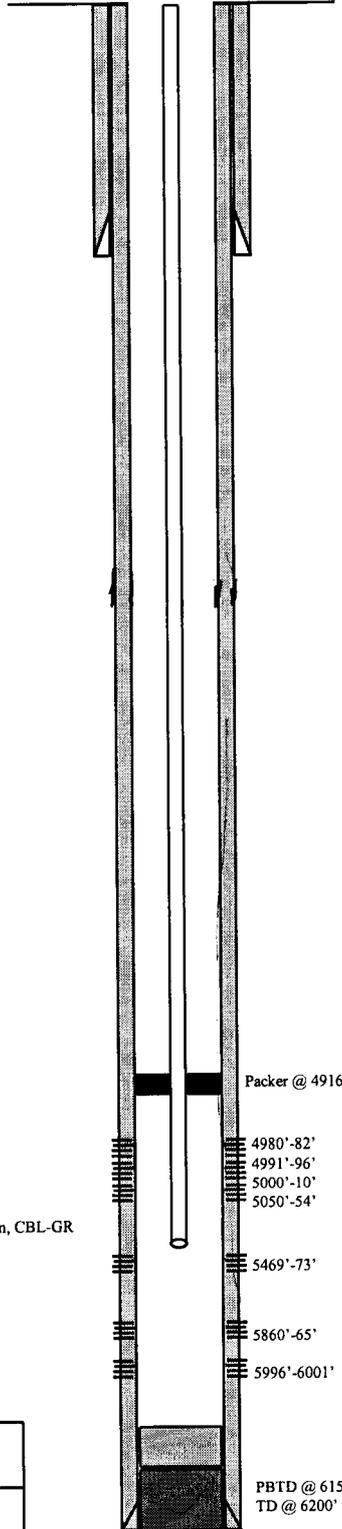
POLISHED ROD:  
 SUCKER RODS:  
 TOTAL ROD STRING LENGTH: ?  
 PUMP SIZE:  
 STROKE LENGTH:  
 PUMP SPEED, SPM:  
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

### FRAC JOB

5/20/96 5860'-6001' **Frac CP-2 and CP-5 sands as follows:**  
 62,400# of 20/40 sd in 419 bbls of Boragel. Breakdown @ 2950 treated @ avg rate of 30 bpm, avg press 1950 psi. ISIP-2153 psi, 5-min 1942 psi. Flowback after 5 min on 16/64" ck.

5/22/96 5469'-5473' **Frac A sand as follows:**  
 61,500# of 20/40 sd in 409 bbls Boragel. Breakdown @ 3148# treated @ avg rate of 24.5, avg press 2300#. ISIP-2346 psi, 5-min 2249 psi. Flowback after 5 min on 16/64" ck @ 1.8 bpm.

5/24/96 4980'-5054' **Frac D sand as follows:**  
 76,500# of 20/40 sd in 425 bbls of Boragel. Breakdown @ 1950# treated @ avg rate pf 25 bpm, avg press 1800#. ISIP-3516 psi, 5-min 2953 psi. Flowback on 16/64" ck @ 1.7 bpm.



### PERFORATION RECORD

Date	Depth Range	Number of Joints	Number of Holes
5/18/96	5860'-5865'	2 JSPP	10 holes
5/18/96	5996'-6001'	4 JSPP	20 holes
5/21/96	5469'-5473'	4 JSPP	16 holes
5/23/96	4980'-4982'	4 JSPP	8 holes
5/23/96	4991'-4996'	4 JSPP	20 holes
5/23/96	5000'-5010'	4 JSPP	40 holes
5/23/96	5050'-5054'	4 JSPP	16 holes



**Inland Resources Inc.**

**Monument Butte State #1A-36**

854 FNL 621 FEL  
 NENE Section 36-T8S-R16E  
 Duchesne Co, Utah  
 API #43-013-31599; Lease #ML-22061

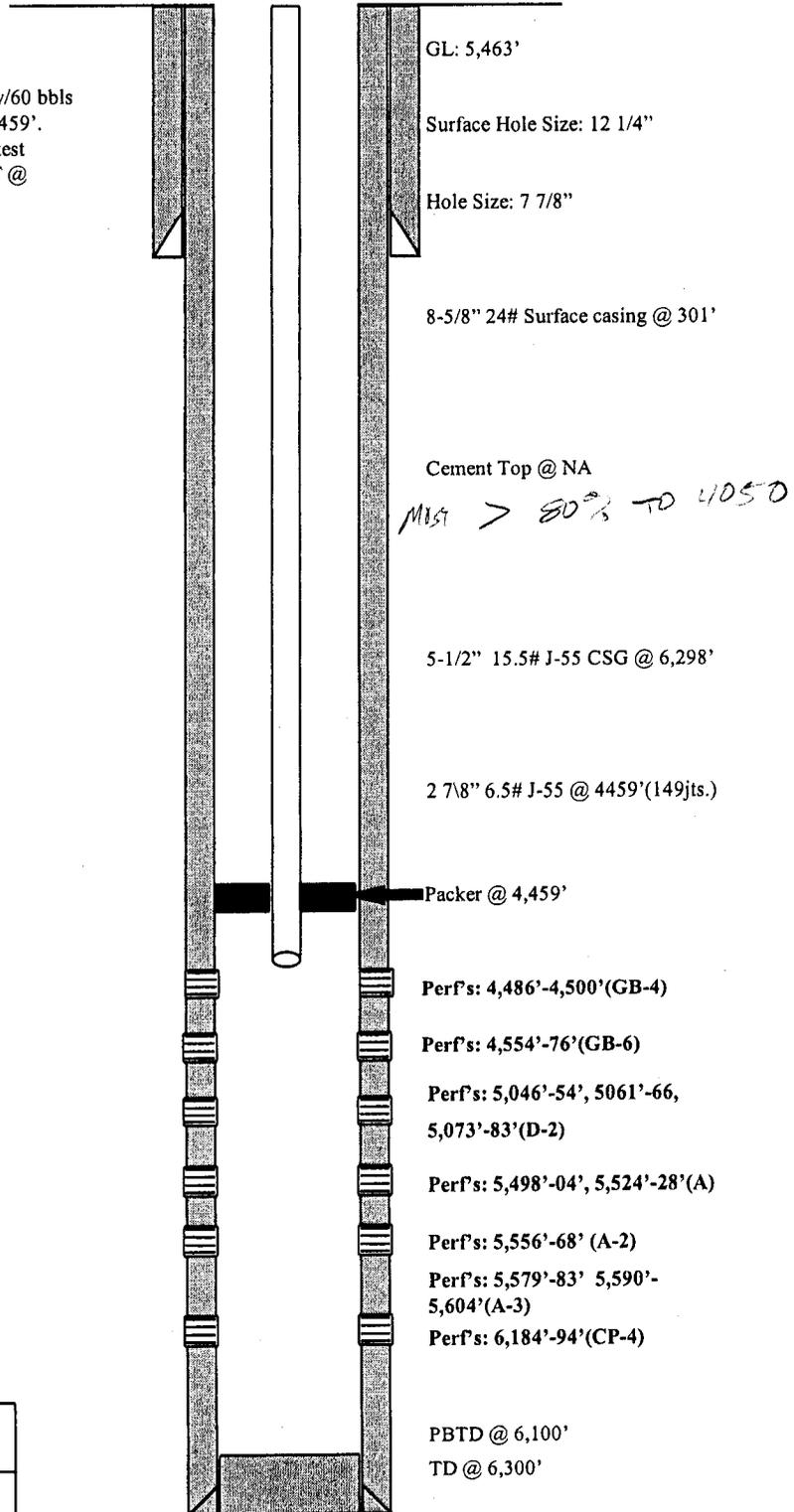
Monument Butte State #7-36

Injector

Wellbore Diagram

Well History:

- 1-26-96 Spud Well
- 12/11/96 Converted to Injector  
Pumped 55 gal packer fluid w/60 bbls water. Set 5-12" PLS pkr @ 4459'. Filled casing w/water, press test casing to 1400 psi, held. EOT @ 4472' KB.
- 12/23/96 Start Injection @ 1:15 PM



	<p><b>Inland Resources Inc.</b></p> <p>Monument Butte State #7-36</p> <p>1899 FNL 1970 FEL</p> <p>SWNE Section 36-T8S-R16E</p> <p>Duchesne Co, Utah</p> <p>API #43-013-31558; Lease #ML-22061</p>
---	---

Monument Butte State #8-36

Spud Date: 4/2/96  
 Put on Production: 4/27/96  
 GL: 5363' KB: 5376'

Initial Production: 90 BOPD,  
 58 MCFGPD, 4 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 304.40'  
 DEPTH LANDED: 302'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 150 sxs Premium cmt, est 5 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 145 jts. (6214.68')  
 DEPTH LANDED: 6202'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sk Hyfill mixed & 375 sxs thixotropic  
 CEMENT TOP AT: Surface per CBL

*MDST > 80% TO 3165'*

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
 NO. OF JOINTS: 198 jts (?)  
 TUBING ANCHOR: 4958'  
 SEATING NIPPLE: 2-7/8" (1.10')  
 TOTAL STRING LENGTH: ? (EOT @ 6065')  
 SN LANDED AT: 5995'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 4-3/4" scraped, 135-3/4" slick rods, 95-3/4" scraped  
 TOTAL ROD STRING LENGTH: ?  
 PUMP NUMBER: ?  
 PUMP SIZE: 2-1/2" x 1-1/2" x 14 RHAC  
 STROKE LENGTH: 74"  
 PUMP SPEED, SPM: 7 SPM  
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

FRAC JOB

4/16/96 6100'-6106' **Frac CP-4 sand as follows:**  
 53,800# of 20/40 sd in 376 bbls Boragel.  
 Breakdown @ 2773 psi. Treated @ avg rate 20.5 bpm, avg press 2850 psi. ISIP-3276 psi, 5-min 2816 psi. Flowback on 16/64" ck @ 1.7 bpm.

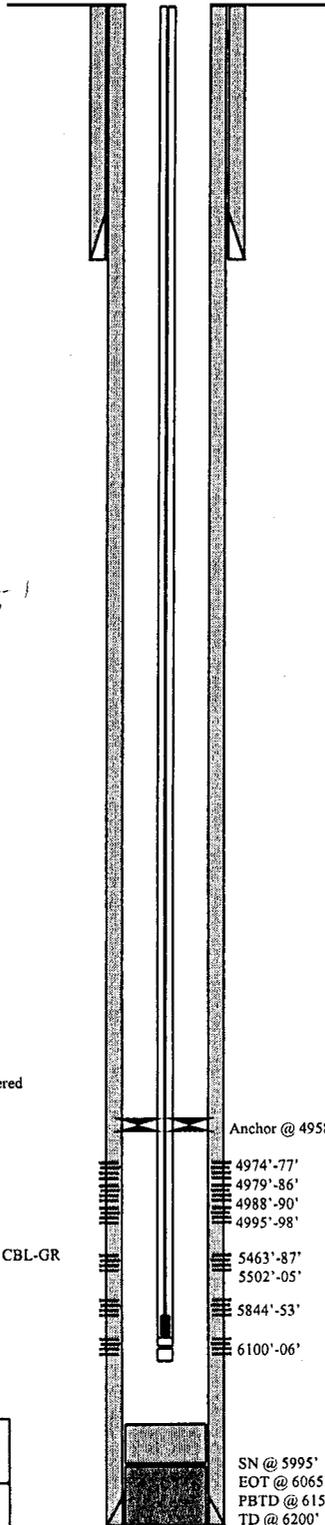
4/18/96 5844'-5853' **Frac CP-2 sand as follows:**  
 69,200# of 20/40 sd in 432 bbls Boragel.  
 Breakdown @ 3905#. Treated @ avg rate 24.5 bpm, avg press 1850 psi. ISIP-2052 psi, 5-min 1887 psi. Start flowback after 5 min SI on 16/64" ck @ 1.6 bpm.

4/20/96 5463'-5505' **Frac A sand as follows:**  
 106,600# 20/40 sd in 600 bbls Boragel.  
 Breakdown @ 3664 psi, treated @ avg rate 24.4 bpm, avg press 1450 psi. ISIP-1706 psi, 5-min 1625 psi. Flowback on 16/64" ck @ 1.6 bpm. Refrac w/ 70,600# 20/40 sand in 438 bbls of Boragel.

4/22/96 4974'-4998' **Frac D sand as follows:**  
 97,900# of 20/40 sd in 549 bbls Boragel.  
 Breakdown @ 1775. Treated @ avg rate 22.6 bpm, avg press 2180 psi. ISIP-2439 psi, 5-min 2440 psi. Flowback on 16/64" ck @ 1.8 bpm.

PERFORATION RECORD

4/15/96	6100'-6106'	4 JSPF	24 holes
4/17/96	5844'-5853'	4 JSPF	36 holes
4/19/96	5463'-5487'	4 JSPF	88 holes
4/19/96	5502'-5505'	4 JSPF	12 holes
4/22/96	4974'-4977'	4 JSPF	12 holes
4/22/96	4979'-4986'	4 JSPF	28 holes
4/22/96	4988'-4990'	4 JSPF	8 holes
4/22/96	4995'-4998'	4 JSPF	12 holes



Anchor @ 4958'  
 4974'-77'  
 4979'-86'  
 4988'-90'  
 4995'-98'  
 5463'-87'  
 5502'-05'  
 5844'-53'  
 6100'-06'

SN @ 5995'  
 EOT @ 6065'  
 FBDT @ 6157'  
 TD @ 6200'



Inland Resources Inc.

Monument Butte State #8-36

1981 FNL 662 FEL

SENE Section 36-T8S-R16E

Duchesne Co, Utah

API #43-013-31598; Lease #U-22061

# Attachment E-8

## Monument Butte State #9-36

Spud Date: 5/3/96  
 Put on Production: 6/14/96  
 GL: 5386' KB: 5399'

Initial Production: 144 BOPD,  
 167 MCFGPD, 5 BWPD

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (303.13')  
 DEPTH LANDED: 301'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 120 sxs Premium cmt, est 5 bbls to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 146 jts. (6182.53')  
 DEPTH LANDED: 6174.53'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 335 sk Hyfill mixed & 335 sxs thixotropic  
 CEMENT TOP AT: Surface per CBL

*MOS > 80% TO 3950'*

### TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
 NO. OF JOINTS: 155 jts (?)  
 TUBING ANCHOR: 4855'  
 SEATING NIPPLE: 2-7/8" (1.10')  
 TOTAL STRING LENGTH: ? (EOT @ 5928.50')  
 SN LANDED AT: 5857.46'

### SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 4-3/4" scraped, 129-3/4" slick rods, 96-3/4" scraped  
 TOTAL ROD STRING LENGTH: ?  
 PUMP NUMBER: ?  
 PUMP SIZE: ?  
 STROKE LENGTH: 71-1/2"  
 PUMP SPEED, SPM: 6 SPM  
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

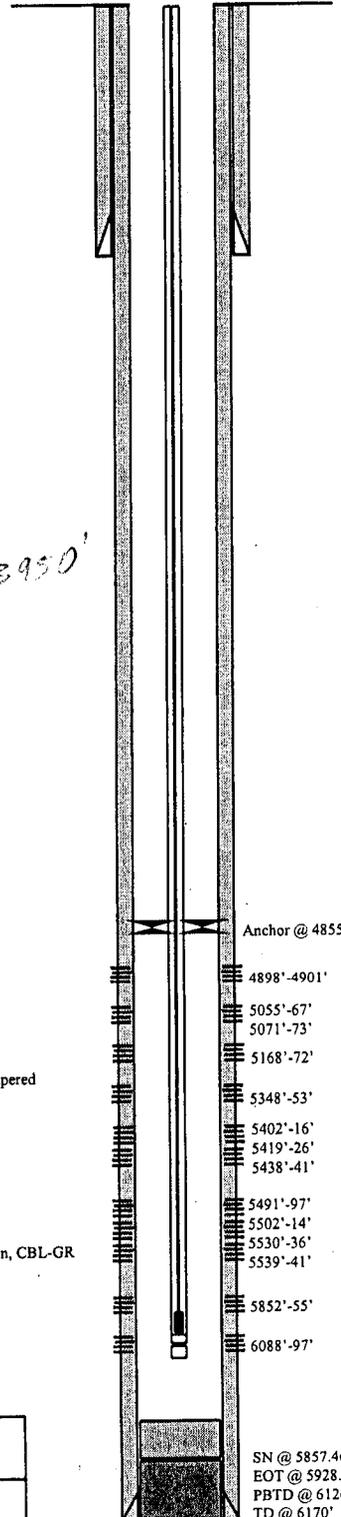
### FRAC JOB

6/4/96 5852'-6097' **Frac CP-5 and CP-3 sands as follows:**  
 81,700# of 20/40 sd in 511 bbls of Borigel. Breakdown @ 2953 psi treated @ avg rate 30 bpm @ avg press 2100 psi. ISIP-2045 psi, 5-min 1796 psi. Flowback on 16/64" ck. @ 1.3 bpm. Flowed 2-1/2 hrs and died.

6/6/96 5348'-5541' **Frac A-1, A-3 and LODC sands as follows:**  
 114,100# 20/40 sd in 651 bbls of Borigel. Breakdown @ 2480 psi & treated @ avg rate 40.5 bpm w/ avg 1700 psi. ISIP-1870 psi, 5-min 1756 psi. Flowback on 16/64" ck @ 1.6 bpm. Flowed 2 hrs and died.

6/8/96 5055'-5172' **Frac B-1 and C sands as follows:**  
 70,000# of 20/40 sd in 430 bbls of Borigel. Breakdown @ 2449 psi & treated @ avg rate 18.3 bpm w/ avg press 1900 psi. ISIP- 2548 psi, 5-min 2004 psi. Flowback on 16/64" ck for 1.5 hrs until dead.

6/11/96 4898'-4901' **Frac D-1 sand as follows:**  
 40,600# of 20/40 sd in 298 bbls of Borigel. Breakdown @ 3730 psi, treated @ avg rate 12 bpm w/ avg press of 2550 psi. ISIP-2950 psi, 5-min 2817 psi. Start flowback after 5 min on 16/64" ck. Flowed 1-1/2 hrs and died.



Anchor @ 4855'

4898'-4901'  
 5055'-67'  
 5071'-73'  
 5168'-72'  
 5348'-53'  
 5402'-16'  
 5419'-26'  
 5438'-41'  
 5491'-97'  
 5502'-14'  
 5530'-36'  
 5539'-41'  
 5852'-55'  
 6088'-97'

### PERFORATION RECORD

Date	Interval	JSPF	Holes
6/3/96	6088'-6097'	4 JSPF	36 holes
6/3/96	5852'-5855'	1 JSPF	4 holes
6/5/96	5539'-5541'	2 JSPF	4 holes
6/5/96	5530'-5536'	2 JSPF	12 holes
6/5/96	5502'-5514'	2 JSPF	24 holes
6/5/96	5491'-5497'	2 JSPF	12 holes
6/5/96	5438'-5441'	2 JSPF	6 holes
6/5/96	5419'-5426'	2 JSPF	14 holes
6/5/96	5402'-5416'	2 JSPF	28 holes
6/5/96	5348'-5353'	2 JSPF	10 holes
6/7/96	5168'-5172'	4 JSPF	16 holes
6/7/96	5071'-5073'	4 JSPF	8 holes
6/7/96	5055'-5067'	4 JSPF	48 holes
6/10/96	4898'-4901'	4 JSPF	12 holes

SN @ 5857.46'  
 EOT @ 5928.50'  
 PBTD @ 6126'  
 TD @ 6170'



**Inland Resources Inc.**  
 Monument Butte State #9-36  
 1991 FSL 662 FEL  
 NESE Section 36-T8S-R16E  
 Duchesne Co, Utah  
 API #43-013-31572; Lease #ML-22061

Attachment F

# UNICHEM

A Division of BJ Services

P.O. Box 217  
Roosevelt, Utah 84066

Office (801) 722-5066  
Fax (801) 722-5727

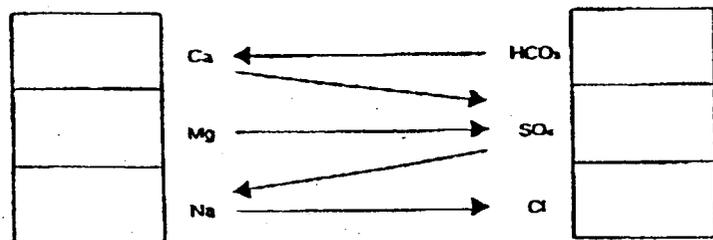
## WATER ANALYSIS REPORT

Company INLAND Address \_\_\_\_\_ Date 01-14-98  
 Source Johnson Water FRESH WATER Date Sampled \_\_\_\_\_ Analysis No. \_\_\_\_\_

	Analysis	mg/l(ppm)	*Meq/l
1. PH	<u>7.0</u>		
2. H <sub>2</sub> S (Qualitative)	<u>0.5</u>		
3. Specific Gravity	<u>1.001</u>		
4. Dissolved Solids		<u>593</u>	
5. Alkalinity (CaCO <sub>3</sub> )		CO <sub>3</sub> <u>0</u> ÷ 30 <u>0</u> CO <sub>3</sub>	
6. Bicarbonate (HCO <sub>3</sub> )		HCO <sub>3</sub> <u>300</u> ÷ 61 <u>5</u> HCO <sub>3</sub>	
7. Hydroxyl (OH)		OH <u>0</u> ÷ 17 <u>0</u> OH	
8. Chlorides (Cl)		Cl <u>35</u> ÷ 35.5 <u>1</u> Cl	
9. Sulfates (SO <sub>4</sub> )		SO <sub>4</sub> <u>110</u> ÷ 48 <u>2</u> SO <sub>4</sub>	
10. Calcium (Ca)		Ca <u>44</u> ÷ 20 <u>2</u> Ca	
11. Magnesium (Mg)		MG <u>22</u> ÷ 12.2 <u>2</u> Mg	
12. Total Hardness (CaCO <sub>3</sub> )		<u>200</u>	
13. Total Iron (Fe)		<u>2.2</u>	
14. Manganese			
15. Phosphate Residuals			

\*Mill equivalents per liter

### PROBABLE MINERAL COMPOSITION



Compound	Eq. Wt.	X	Meq/l	=	Mg/l
Ca(HCO <sub>3</sub> ) <sub>2</sub>	81.04	<u>2</u>			<u>162</u>
CaSO <sub>4</sub>	68.07				
CaCl <sub>2</sub>	55.50				
Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17	<u>2</u>			<u>146</u>
MgSO <sub>4</sub>	60.19				
MgCl <sub>2</sub>	47.62				
NaHCO <sub>3</sub>	84.00	<u>1</u>			<u>84</u>
Na <sub>2</sub> SO <sub>4</sub>	71.03	<u>2</u>			<u>142</u>
NaCl	58.46	<u>1</u>			<u>59</u>

Saturation Values	Distilled Water 20°C
CaCO <sub>3</sub>	13 Mg/l
CaSO <sub>4</sub> · 2H <sub>2</sub> O	2,090 Mg/l
MgCO <sub>3</sub>	103 Mg/l

REMARKS \_\_\_\_\_

# UNICHEM

A Division of BJ Services

Attachment F-1

P.O. Box 217  
Roosevelt, Utah 84066

Office (435) 722-5066  
Fax (435) 722-5727

## WATER ANALYSIS REPORT

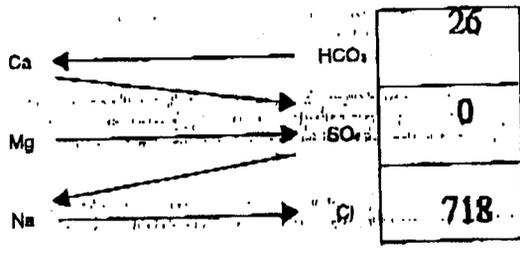
Company INLAND PRODUCTION Address \_\_\_\_\_ Date 8-17-99  
Source TSF 5-31 Date Sampled \_\_\_\_\_ Analysis No. \_\_\_\_\_

	Analysis	mg/l(ppm)	*Mg/l
1. PH	<u>9.2</u>		
2. H <sub>2</sub> S (Qualitative)	<u>10.0</u>		
3. Specific Gravity	<u>1.037</u>		
4. Dissolved Solids		<u>44,155</u>	
5. Alkalinity (CaCO <sub>3</sub> )	CO <sub>3</sub>	<u>0</u>	÷ 30 <u>0</u> CO <sub>3</sub>
6. Bicarbonate (HCO <sub>3</sub> )	HCO <sub>3</sub>	<u>1,590</u>	÷ 61 <u>26</u> HCO <sub>3</sub>
7. Hydroxyl (OH)	OH	<u>0</u>	÷ 17 <u>0</u> OH
8. Chlorides (Cl)	Cl	<u>25,500</u>	÷ 35.5 <u>718</u> Cl
9. Sulfates (SO <sub>4</sub> )	SO <sub>4</sub>	<u>0</u>	÷ 48 <u>0</u> SO <sub>4</sub>
10. Calcium (Ca)	Ca	<u>15</u>	÷ 20 <u>1</u> Ca
11. Magnesium (Mg)	Mg	<u>3</u>	÷ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO <sub>3</sub> )		<u>50</u>	
13. Total Iron (Fe)		<u>10.0</u>	
14. Manganese		<u>0</u>	
15. Phosphate Residuals			

\*Milli equivalents per liter

### PROBABLE MINERAL COMPOSITION

1
0
743



Compound	Eqvly. Wt.	X	Meq/l	Mg/l
Ca(HCO <sub>3</sub> ) <sub>2</sub>	81.04	1		81
CaSO <sub>4</sub>	68.07			
CaCl <sub>2</sub>	55.50			
Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17			
MgSO <sub>4</sub>	60.19			
MgCl <sub>2</sub>	47.62			
NaHCO <sub>3</sub>	84.00	25		2,100
Na <sub>2</sub> SO <sub>4</sub>	71.03	718		41,974
NaCl	58.46			

Saturation Values	Distilled Water 20°C
CaCO <sub>3</sub>	13 Mg/l
CaSO <sub>4</sub> · 2H <sub>2</sub> O	2,000 Mg/l
MgCO <sub>3</sub>	103 Mg/l

REMARKS \_\_\_\_\_

Received Time-Aug.18.-10:51AM

Attachment F-2

AQUAMIX SCALING PREDICTIONS

COMPANY: INLAND PRODUCTION CO  
 LOCATION:  
 SYSTEM:

8-17-99

WATER DESCRIPTION:	JOHNSON WATER	TSF 5-31
P-ALK AS PPM CaCO3	0	0
M-ALK AS PPM CaCO3	492	2608
SULFATE AS PPM SO4	110	0
CHLORIDE AS PPM Cl	35	25500
HARDNESS AS PPM CaCO3	0	0
CALCIUM AS PPM CaCO3	110	38
MAGNESIUM AS PPM CaCO3	90	12
SODIUM AS PPM Na	92	17089
BARIUM AS PPM Ba	0	0
STRONTIUM AS PPM Sr	0	0
CONDUCTIVITY	0	0
TOTAL DISSOLVED SOLIDS	593	44155
TEMP (DEG-F)	100	100
SYSTEM pH	7	9.2

WATER COMPATIBILITY CALCULATIONS

JOHNSON WATER AND TSF 5-31

CONDITIONS: pH=8.1. TEMPERATURE ESTIMATED FROM COMPONENT WATERS.

WATER ONE IS JOHNSON WATER

% #1	STIFF DAVIS CaCO3 INDEX	lbs/1000 BBL EXCESS CaCO3	mg/l BaSO4 IN EXCESS OF SATURATION	mg/l SrO4 IN EXCESS OF SATURATION	mg/l Gypsum IN EXCESS OF SATURATION
100	.91	32	0	0	0
90	.81	29	0	0	0
80	.66	25	0	0	0
70	.53	21	0	0	0
60	.46	18	0	0	0
50	.38	14	0	0	0
40	.32	11	0	0	0
30	.26	9	0	0	0
20	.18	6	0	0	0
10	.12	3	0	0	0
0	.04	1	0	0	0

Attachment "G"

**TAR SANDS #5-31-8-17**  
**Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5756	5766	5761	2353	0.841	2338
5443	5474	5459	2143	0.826	2125 ←
5075	5087	5081	3264	1.075	3249
4630	4644	4637	3553	1.199	3538
				<b>Minimum</b>	<u>2125</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.

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



DAILY COMPLETION REPORT

WELL NAME Tar Sands Fed 5-31 Report Date 7/9/97 Completion Day 3
Present Operation Perf "A" sd Rig Basin #7

WELL STATUS

Surf Csg: 8-5/8 @ 315' KB Liner @ Prod Csg 5-1/2 @ 6096 Csg PBTB 6056
Tbg: Size 2-7/8 Wt 6.5 Grd M-50 Pkr/EOT @ BP/Sand PBTB:

PERFORATION RECORD

Table with 6 columns: Zone, Perfs, SPF/#shots, Zone, Perfs, SPF/#shots. Row 1: CP, 5756-66', 4/40

CHRONOLOGICAL OPERATIONS

Date Work Performed: 7/8/97 SITP: 10 SICP 10

Bleed gas off well. IFL @ 5550', made 1 dry run, FFL @ 5550'. TOH w/tbg. NU isolation tool. RU Halliburton to frac "CP" sd w/93,500# of 20/40 sd in 508 bbls Boragel. Perfs broke dn @ 3680 psi. Treated @ ave rate of 26.5 bpm w/ave press of 2250 psi. ISIP: 2353 psi, 5 min: 2166 psi. Flowback on 12/64" ck for 3 hrs & died. Rec 125 BTF (est 25% of load). SIFN. Est 383 BWTR.

FLUID RECOVERY (BBLs)

Table with 4 columns: Starting fluid load to be recovered, Fluid lost/recovered today, Ending fluid to be recovered, IFL, Starting oil rec to date, Oil lost/recovered today, Cum oil recovered, Choke, Final Fluid Rate, Final oil cut

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
6000 gal w/6-8 PPG of 20/40 sd
3500 gal w/8-10 PPG of 20/40 sd
2154 gal w/10 PPG of 20/40 sd
Flush w/5665 gal of 10# linear gel

COSTS

Table with 2 columns: Item, Cost. Rows: Basin-rig (967), BOP (140), Tanks (90), Wtr (663), HO trk (665), Frac (20,246), Flowback-super (100), IPC-supervision (200)

Max TP 3680 Max Rate 28.5 Total fluid pmpd: 508 bbls
Avg TP 2250 Avg Rate 26.5 Total Prop pmpd: 93,500#
ISIP 2353 5 min 2166 10 min 15 min
Completion Supervisor: Gary Dietz

DAILY COST: \$23,071
TOTAL WELL COST: \$194,378



DAILY COMPLETION REPORT

WELL NAME Tar Sands Fed 5-31 Report Date 7/11/97 Completion Day 5
Present Operation Perf & frac "C" sd Rig Basin #7

WELL STATUS

Surf Csg: 8-5/8 @ 315' KB Liner @ Prod Csg 5-1/2 @ 6096 Csg PBTB 6056
Tbg: Size 2-7/8 Wt 6.5 Grd M-50 Pkr/EOT @ BP/Sand PBTB: 5598

PERFORATION RECORD

Table with 6 columns: Zone, Perfs, SPF/#shots, Zone, Perfs, SPF/#shots. Rows include CP, A, A, A with corresponding perforation data.

CHRONOLOGICAL OPERATIONS

Date Work Performed: 7/10/97 SITP: 20 SICP 20

Bleed gas off well. IFL @ 5200', made 2 runs, rec 2 BTF, FFL @ 5300'. TOH w/tbg. NU isolation tool. RU Halliburton & frac "A" sd w/80,800# of 20/40 sd in 451 bbls Boragel. Perfs broke dn @ 2648 psi. Treated @ ave rate of 24.7 bpm w/ave press of 1750 psi. ISIP: 2143 psi, 5 min: 1752 psi. Flowback on 12/64" ck for 3 hrs & died. Rec 77 BTF (est 17% of load). SIFN. Est 629 BWTR.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered 257 Starting oil rec to date 0
Fluid lost/recovered today 372 Oil lost/recovered today 0
Ending fluid to be recovered 629 Cum oil recovered 0
IFL 5200 FFL 5300 FTP Choke 12/64 Final Fluid Rate Final oil cut 0

STIMULATION DETAIL

COSTS

Base Fluid used: Boragel Job Type: Sand frac
Company: Halliburton
Procedure:
2500 gal pad
1000 gal w/1-6 PPG of 20/40 sd
7000 gal w/6-8 PPG of 20/40 sd
3074 gal w/8-10 PPG of 20/40 sd
Flush w/5374 gal of 10# linear gel

Basin-rig 852
BOP 140
Tanks 90
Wtr 659
HO trk 713
Frac 18,826
Flowback-super 100
IPC-supervision 200

Max TP 2648 Max Rate 26 Total fluid pmpd: 451 bbls
Avg TP 1750 Avg Rate 24.7 Total Prop pmpd: 80,800#
ISIP 2143 5 min 1752 10 min 15 min
Completion Supervisor: Gary Dietz

DAILY COST: \$21,580
TOTAL WELL COST: \$220,078



Attachment G-3

DAILY COMPLETION REPORT

WELL NAME Tar Sands Fed 5-31 Report Date 7/13/97 Completion Day 7
Present Operation Perf & frac "PB" sd Rig Basin #7

WELL STATUS

Surf Csg: 8-5/8 @ 315' KB Liner @ Prod Csg 5-1/2 @ 6096 Csg PBD 6056
Tbg: Size 2-7/8 Wt 6.5 Grd M-50 Pkr/EOT @ BP/Sand PBD: 5225

PERFORATION RECORD

Table with 6 columns: Zone, Perfs, SPF/#shots, Zone, Perfs, SPF/#shots. Rows include CP, A, A, A zones with various perforation intervals and shot counts.

CHRONOLOGICAL OPERATIONS

Date Work Performed: 7/12/97 SITP: 150 SICP 150

Bleed gas off well. Cont'd TIH w/SN & tbg to 5196'. IFL @ 4300', made 6 runs, rec 13 BTF, FFL @ 4900'. TOH w/tbg. NU isolation tool. RU Halliburton to frac "C" sd w/90,300# of 20/40 sd in 462 bbls Boragel. Perfs broke dn @ 2453 psi. Treated @ ave rate of 27 bpm w/ave press of 2400 psi. ISIP: 3264 psi, 5 min: 2933 psi. Flowback on 12/64" ck for 3-1/2 hrs & died. Rec 140 BTF (est 30% of load). SIFN. Est 841 BWTR.

FLUID RECOVERY (BBLs)

Table with 4 columns: Starting fluid load to be recovered, Fluid lost/recovered today, Ending fluid to be recovered, IFL, Starting oil rec to date, Oil lost/recovered today, Cum oil recovered, Choke, Final Fluid Rate, Final oil cut.

STIMULATION DETAIL

COSTS

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
2884 gal w/8-10 PPG of 20/40 sd
516 gal w/10 PPG of 20/40 sd
Flush w/5013 gal of 10# linear gel

Table with 2 columns: Cost Item, Amount. Rows include Basin-rig (1,033), BOP (140), Tanks (90), HO trk (368), Frac (19,595), Flowback-super (100), IPC-supervision (200).

Max TP 3450 Max Rate 33.4 Total fluid pmpd: 462 bbls
Avg TP 2400 Avg Rate 27 Total Prop pmpd: 90,300#
ISIP 3264 5 min 2933 10 min 15 min
Completion Supervisor: Gary Dietz

Table with 2 columns: Cost Item, Amount. Rows include DAILY COST: \$21,526, TOTAL WELL COST: \$247,214.



attachment G-4

### DAILY COMPLETION REPORT

**WELL NAME** Tar Sands Fed 5-31 **Report Date** 7/15/97 **Completion Day** 8  
**Present Operation** Pull plugs **Rig** Basin #7

#### WELL STATUS

**Surf Csg:** 8-5/8 @ 315' KB **Liner** \_\_\_\_\_ **@** \_\_\_\_\_ **Prod Csg** 5-1/2 @ 6096 **Csg PBTD** 6056  
**Tbg:** **Size** 2-7/8 **Wt** 6.5 **Grd** M-50 **Pkr/EOT @** \_\_\_\_\_ **BP/Sand PBTD:** 4717

#### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
CP	5756-66'	4/40	C	5075-81'	4/24
A	5443-50'	4/28	C	5085-87'	4/8
A	5452-54'	4/8	PB	4630-38'	4/32
A	5470-74'	4/16	PB	4640-44'	4/16

#### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 7/14/97 **SITP:** \_\_\_\_\_ **SICP** 50

Bleed est 5 BTF off well. TIH w/5-1/2" RBP & tbg. Set plug @ 4717'. Press test plug to 3000 psi. Circ hole clean. Swab FL dn to 4100'. Rec 88 BW. TOH w/tbg. RU Western Atlas & **PERF "PB" SD @ 4630-38', 4640-44' W/4 JSPF**. NU isolation tool. RU Halliburton to frac "PB" sd w/72,500# of 20/40 sd in 396 bbis Boragel. Perfs broke dn @ 2974 psi. Treated @ ave press of 2250 psi w/ave rate of 22.5 bpm. ISIP: 3553 psi, 5 min: 3429 psi. Flowback on 12/64" ck for 3 hrs & died. Rec 149 BTF (est 38% of load). SIFN. Est 995 BWTR.

#### FLUID RECOVERY (BBLs)

<b>Starting fluid load to be recovered</b> <u>841</u>	<b>Starting oil rec to date</b> <u>0</u>
<b>Fluid lost/recovered today</b> <u>154</u>	<b>Oil lost/recovered today</b> <u>0</u>
<b>Ending fluid to be recovered</b> <u>995</u>	<b>Cum oil recovered</b> <u>0</u>
<b>IFL</b> <u>sfc</u> <b>FFL</b> <u>4100</u> <b>FTP</b> _____	<b>Choke</b> <u>12/64</u> <b>Final Fluid Rate</b> _____ <b>Final oil cut</b> _____

#### STIMULATION DETAIL

**Base Fluid used:** Boragel **Job Type:** Sand frac  
**Company:** Halliburton  
**Procedure:** \_\_\_\_\_  
2500 gal pad  
1000 gal w/1-6 PPG of 20/40 sd  
6000 gal w/6-8 PPG of 20/40 sd  
2545 gal w/8-10 PPG of 20/40 sd  
Flush w/4570 gal of 10# linear gel

#### COSTS

<b>Basin-rig</b>	<u>1,547</u>
<b>BOP</b>	<u>140</u>
<b>Tanks</b>	<u>90</u>
<b>Wtr</b>	<u>500</u>
<b>HO trk</b>	<u>750</u>
<b>RBP</b>	<u>600</u>
<b>Perfs</b>	<u>1,366</u>
<b>Frac</b>	<u>18,111</u>
<b>Flowback-super</b>	<u>100</u>
<b>IPC-supervision</b>	<u>300</u>

**Max TP** 3700 **Max Rate** 24.9 **Total fluid pmpd:** 396 bbis  
**Avg TP** 2250 **Avg Rate** 22.5 **Total Prop pmpd:** 72,500#  
**ISIP** 3553 **5 min** 3429 **10 min** \_\_\_\_\_ **15 min** \_\_\_\_\_  
**Completion Supervisor:** Gary Dietz

**DAILY COST:** \$23,504  
**TOTAL WELL COST:** \$270,718

**ATTACHMENT H**

**WORK PROCEDURE FOR PLUGGING AND ABANDONMENT**

1. **Plug #1** Set 160' plug from 5656'-5816' with 29 sxs Class "G" cement.
2. **Plug #2** Set 191' plug from 5333'-5524' with 32 sxs Class "G" cement.
3. **Plug #3** Set 162' plug from 4975'-5137' with 29 sxs Class "G" cement
4. **Plug #4** set 164' plug from 4530'-4694' with 29 sxs Class "G" cement
5. **Plug #5** Set 200' plug from 2000'-2200' with 25 sxs Class "G" cement.
6. **Plug #6** Set 100' plug from 253'-353' (50' on either side of casing shoe) with 15 sxs Class "G" cement.
7. **Plug #7** Set 50' plug from surface with 10 sxs Class "G" cement.
8. **Pump 50 sxs Class "G" cement down the 8-5/8" x 5-1/2" annulus to cement to surface.**

**The approximate cost to plug and abandon this well is \$18,00**

# Attachment H-1

## Tar Sands Federal #5-31

Spud Date: 6/9/97  
 Put on Production: 7/21/97  
 GL: 5336' KB: 5348'

Initial Production: 121 BOPD,  
 128 MCFPD, 7 BWPD

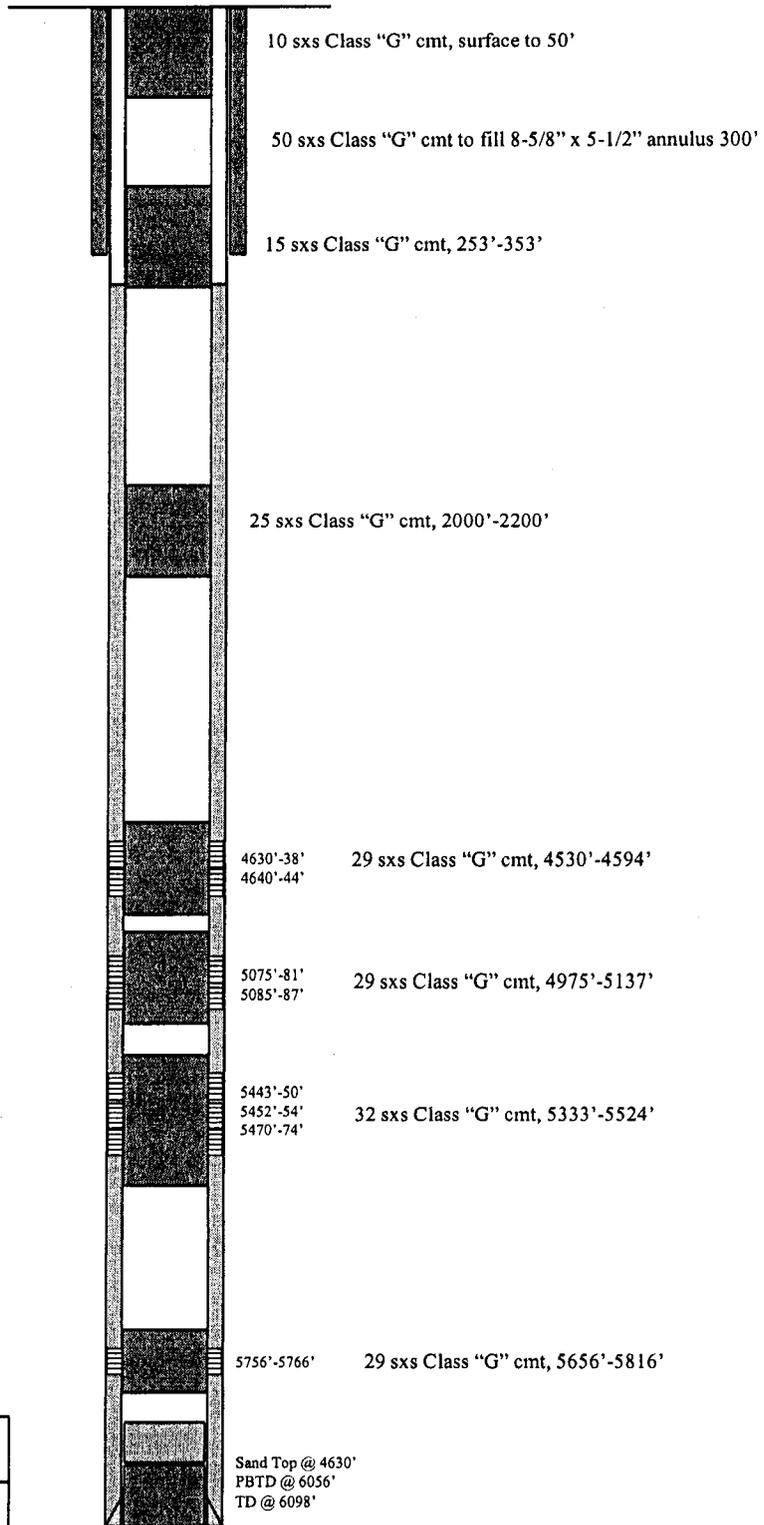
### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (304.93')  
 DEPTH LANDED: 303.04' GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 120 sxs Premium cmt, est 6 bbls to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 143 jts. (6102.52')  
 DEPTH LANDED: 6096.52' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 405 sxs Hibond mixed & 360 sxs thixotropic  
 CEMENT TOP AT: NA per CBL

Proposed P&A  
 Wellbore Diagram



**Inland Resources Inc.**

**Tar Sands Federal #5-31**

660 FWL 1980 FNL

NENE Section 31-T8S-R17E

Duchesne Co, Utah

API #43-013-31607; Lease #U-74869

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

---ooOoo---

IN THE MATTER OF THE APPLICATION OF	:	NOTICE OF AGENCY
INLAND PRODUCTION COMPANY FOR	:	ACTION
ADMINISTRATIVE APPROVAL OF 13 WELLS	:	
IN DUCHESNE COUNTY, UTAH, AS CLASS	:	CAUSE NO. UIC-244
II INJECTION WELLS. THE PROPOSED	:	
INJECTION WELLS ARE LOCATED IN:	:	
SEC 32, TWP 8 S, RNG 16 E; SECS 28, 29,	:	
31 & 33, TWP 8 S, RNG 17 E; SEC 12, TWP 9	:	
S, RNG 15 E; SEC 6 & 12, TWP 9 S, R 16 E;	:	
SEC 15, TWP 9 S, R 17 E; S.L.M.	:	

---ooOoo---

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

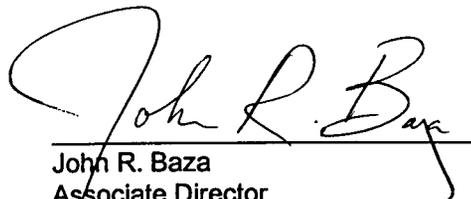
Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Inland Production Company for administrative approval of the following wells as Class II injection wells: Wells Draw Unit Wells: State 14-32-8-16, 23-32-8-16 & 32-32-8-16 wells, located in Sec 32, Twp 8 S, Rng 16 E; Ashley Unit Well: Ashley Federal 1-12-9-15 well, located in Sec 12, Twp 9 S, R 15 E; Boundary Unit Wells: Tar Sands Federal 5-29-8-17, 1-33-8-17 & Tar Sands 7-28-8-17 wells, located in Secs 28, 29 & 33, Twp 8 S, R 17 E; Jonah Unit Well: Monument Federal 42-12J-9-16 well, located in Sec 12, Twp 9 S, Rng 16 E; Lone Tree Unit Wells: South Pleasant Valley 7-15-9-17 & Pleasant Valley 21-15H-9-17 wells, located in Sec 15, Twp 9 S, Rng 17 E; Sand Wash Unit Wells: ~~Tar Sands 5-31-8-17~~ & Tar Sands Federal 13-29-8-17 wells, located in Sec 29 & 31, Twp 8 S, Rng 17 E; West Point Unit Well: Monument Federal 43-6-9-16 well, located in Sec 6, Twp 9 S, Rng 16 E, S.L.M., Duchesne County, Utah. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The Green River Formation will be selectively perforated for water injection. The maximum injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by Inland Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 8<sup>th</sup> day of September 1999.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

  
John R. Baza  
Associate Director

# LEGAL NOTICES

Your Right To Know!

## ADVERTISE MENT FOR BIDS

Separate sealed Bids for the "Construction" of **Roosevelt City 1999 Pedestrian Safety Sidewalk Improvements (UDOT # 1099)** will be received by **Roosevelt City Corporation** at the **Roosevelt City Hall, 255 South State Street** until **September 20, 1999 at 1:00 p.m. (MST)**, and then at said Office, publicly opened and read aloud.

The principal items of work are approximately as follows:

- Roadway Excavation, Installation of 430 lineal feet of 30 inch Curb & Gutter, 415 lineal feet of sidewalk (6") 110 tons of U.B.C., 180 linear feet of 6' chain link fence, and 5 disabled pedestrian ramps.

The project is to be started after March 1, 2000 and shall be completed on or before April 30, 2000.

Bidders on this work will be required to comply with the President's Executive Order No. 11246 and the Equal Employment Opportunity and Labor Standard Provisions.

The **CONTRACT DOCUMENTS**, consisting of Advertisement for Bids, Information for Bidders, **BID, BID BOND, Agreement, GENERAL CONDITIONS, SUPPLEMENTAL GENERAL CONDITIONS, Payment Bond, Performance Bond, NOTICE OF AWARD, NOTICE TO PROCEED, CHANGE ORDER, DRAWINGS, SPECIFICATIONS** and **ADDENDA**, may be examined at the following locations:

**Horrocks Engineers, One West Main, American Fork, Utah 84003**

Copies of the **CONTRACT DOCUMENTS** may be obtained at the office of **Horrocks Engineers** located at **One West Main Street, American Fork, Utah 84003** and **50 North 100 East, Roosevelt, Utah 84066**, upon payment of \$35.00 for each set, none of which will be refunded.

Bidders are required to provide a bid bond in the amount of 10% of their bid, and the successful **BIDDER** will be required to provide payment and performance bonds underwritten by the Surety Company approved by the U.S. Department of the Treasury. (Circular 370, latest edition.)

September 1, 1999  
Dennis Jenkins  
Mayor  
Published in the Uintah Basin Standard September 7 & 14, 1999.

## NOTICE TO WATER

ITTY: 49 ac-ft SOURCE: 6 in. Well 100 ft to 200 ft Deep. POD: (1) S 950 E 650 from W 1/4 Cor. Sec 30, T3S, R5W, SLB&M. (7 Miles West of Duchesne) USE: Irrigation; from April to Oct 31; total acreage 0.2500 acs; Stockwatering: 3 head of livestock; Domestic: 1 family. POU: NW 1/4 SW 1/4 Sec 30, T3S, R5W.

43-10965 (A72346). Kathy Goodin QUANTITY: 1.48 ac-ft SOURCE: 6 in. Well 40 ft Deep. POD: (1) S 930 W 2440 from E 1/4 Cor. Sec 24, TIN, R2W. (Neola) USE: Irrigation; from Apr 1 to Oct 31; total acreage 0.2500 acs; Stockwatering: 10 head of livestock; Domestic: 1 family. POU: NW 1/4 SE 1/4 Sec 24, TIN, R2W.

90-1085 (A72342). Glen D. & June A. Borst QUANTITY: 0.25 ac-ft SOURCE: (2) Unnamed Springs. POD: (1) S 65 W 2630 (2) S 240 W 2610 from E 1/4 Cor. Sec 8, T11S, R11E, SLB&M. (27 miles North of Rice) USE: Domestic; 1 family. POU: NW 1/4 SE 1/4 Sec 8, T11S, R11E, SLB&M.

Robert L. Morgan, P.E. STATE ENGINEER  
Published in the Uintah Basin Standard September 7 & 14, 1999

## NOTICE TO WATER USERS

The State Engineer received the following Application(s) to Appropriate or Change Water in Duchesne County (Locations in USB&M)

Persons objecting to an application must file a **CLEARLY READABLE PROTEST** stating **FILING NUMBER, REASONS FOR OBJECTION, PROTESTANTS' NAME AND RETURN ADDRESS**, and any request for a hearing. Protest must be filed with the State Engineer, Box 146300, Salt Lake City, UT 84114-6300 (801) 538-7240 on or before **OCTOBER 14, 1999**. Informal proceedings per Rule R655-8-2 of the Division of Water Rights.

(LEGEND) Point(s) of Diversion; POD: Place of Use; POU: Nature of Use; (USE)

**APPLICATION(S) TO APPROPRIATE WATER**  
43-10942 (A72231). Dan and Linda L. Scartzina QUANTITY: 0.4 ac-ft SOURCE: 6 in. Well 50 ft To 200 ft Deep. POD: (1) N 45 E 3597 from SW Cor. Sec 14, T4S, R8W, SLB&M. (7 mi SE of Fruitland) USE: Irrigation; from Apr 1 to Oct 31; total acreage 0.1000 acs. POU: SW 1/4 SE 1/4 Sec 13, T4S,

Starvation Reservoir. POD: (1) S 2754 E 457 from NW Cor. Sec 27, T3S, R5W, USE: Same as Heretofore. POU: SW 1/4 NE 1/4 SE 1/4 NW 1/4 Sec 4, T4S, R3W. Robert L. Morgan, P.E. STATE ENGINEER  
Published in the Uintah Basin Standard September 14 & 21, 1999

## PUBLIC NOTICE

NOTICE is hereby given that the time and place for **SATELLITE REGISTRATION** for Duchesne City Municipal Election Of the names of qualified electors in Duchesne City, Utah, prior to the Primary Election to be held on Tuesday, October 5, 1999 will be between the hours of 8:00 a.m. and 8:00 p.m. on the following days: **Friday, September 24, 1999, and Monday, September 27, 1999** at the following location: **Duchesne County Administration Building in the office of the County Clerk, 734 North Center Street in Duchesne.**

ATTEST: Diane Freston, Duchesne County Clerk  
Published in the Uintah Basin Standard September 14 & 21, 1999.

## NOTICE OF AGENCY ACTION CAUSE NO. UIC-244

IN THE MATTER OF THE APPLICATION OF INLAND PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF 13 WELLS IN DUCHESNE COUNTY, UTAH, AS CLASS-II INJECTION WELLS. THE PROPOSED INJECTION WELLS ARE LOCATED IN: SEC 32, TWP 8 S, RNG 16 E, SECS 28, 29, 31 & 33; TWP 8 S, RNG 17 E, SEC 12; TWP 9 S, RNG 15 E, SEC 6 & 12; TWP 9 S, RNG 6 E, SEC 5; TWP 9 S, RNG 5 E, SEC 5. 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 following wells as Class II injection wells: Wells Draw Unit Wells: State 14-32-8-16, 23-32-8-16 & 37-32-8-16 wells, located in Sec 32, Twp 8 S, Rng 16 E, Ashley Unit Well: Ashley Federal 1-12-0-16 well, located in

**DIVISION OF OIL GAS & MINING**  
John R. Bazz  
Associate Director  
Published in the Uintah Basin Standard September 14, 1999

## NOTICE OF REGULAR MEETING OF THE BOARD OF COUNTY COMMISSIONERS OF DUCHESNE COUNTY

PUBLIC NOTICE is hereby given that the Board of Duchesne County Commissioners will meet in regular public session on **Monday, in the Commission Board Room** of the Duchesne County Administration Building in Duchesne, Utah commencing at 1:00 p.m. on **September 13, 1999.**

The agenda for the meeting is as follows:

- 1:00 p.m. Prayer/Pledge of Allegiance/Reading of the Minutes
- Road Items - Supervisor Nielsen
- Discussion of Proposed Purchase of Road Department Lay Down Machine
- Auditor's Office Vouchers Department
- Head Time Sheets
- Action Items
- Soil Conservation District Budget - Lamar Wilson
- Property Taxes - Mike Baker
- Resolution 99-14 A Resolution Approving Participation in the Indigent Capital Defense Trust Fund and Committing to Fulfill the Assessment Requirements as Set Forth in Section 77-32-601 Through 77-32-603, Utah Code, as Enacted by the Legislature in Senate Bill 103 in the 1998 General Session.
- Change of Agent of Record - For the Following Insurance Programs: Dental Medical, Life, Disability
- Plat Amendments
- American Cellular Inc. Mountain High Estates Phase 14 Plat Amendment
- American Cellular Inc. Tabby Heights Phase 1 Plat Amendment
- American Cellular Inc. Tabby Heights Phase 2 Section 27 Plat Amendment
- American Cellular Inc. Tabby Heights Phase 3 Section 27 Plat Amendment
- American Cellular Inc. Tabby Heights Phase 4 Section 27 Plat Amendment
- American Cellular Inc. Tabby Heights Phase 5 Section 27 Plat Amendment
- American Cellular Inc. Tabby Heights Phase 6 Section 27 Plat Amendment
- American Cellular Inc. Tabby Heights Phase 7 Section 27 Plat Amendment
- American Cellular Inc. Tabby Heights Phase 8 Section 27 Plat Amendment
- American Cellular Inc. Tabby Heights Phase 9 Section 27 Plat Amendment
- American Cellular Inc. Tabby Heights Phase 10 Section 27 Plat Amendment
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- American Cellular Inc. Tabby Heights Phase 12 Section 27 Plat Amendment
- American Cellular Inc. Tabby Heights Phase 13 Section 27 Plat Amendment
- American Cellular Inc. Tabby Heights Phase 14 Section 27 Plat Amendment
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- American Cellular Inc. Tabby Heights Phase 96 Section 27 Plat Amendment
- American Cellular Inc. Tabby Heights Phase 97 Section 27 Plat Amendment
- American Cellular Inc. Tabby Heights Phase 98 Section 27 Plat Amendment
- American Cellular Inc. Tabby Heights Phase 99 Section 27 Plat Amendment
- American Cellular Inc. Tabby Heights Phase 100 Section 27 Plat Amendment

Setting Date of Public Hearing for An Ordinance Amending Chapter 17.60.00 Manufactured Home and Travel Trailer Prohibited Exceptions. Adoption of Resolution 99-15 A Resolution Declaring that it is in the Best Interests of the County

and the Residents Concerned that the Duchesne County Water Improvement District be Enlarged and Extended by the Annexation of a Tract of Land Adjacent Thereof and Providing that Notice of Intent be Published in the Time and Place of Hearing for all Persons to be Heard Relative to Said Annexation.

Diane Freston, Duchesne County Clerk/Auditor, certify that on September 10, 1999 pursuant to U.C.A. § 2-2-6, this notice posted at least 24 hours prior to meeting time. Notice also given to the Radio Station, KNEU, and the Uintah Basin Standard.

Diane Freston, Duchesne County Clerk/Auditor

**IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT, PERSONS NEEDING AUXILIARY COMMUNICATIVE AIDS AND SERVICES FOR THIS MEETING SHOULD CALL THE DUCHESNE COUNTY CLERK'S OFFICE THREE DAYS NOTICE IS REQUIRED. Toll Free 738-4100, 722-4997, 722-4680.**

Published in the Uintah Basin Standard September 14, 1999.

## NOTICE OF DECISION

On September 8, 1999, Roosevelt-Duchesne District Ranger, Joseph R. Bistrski, made the decision to construct a big game cattle enclosure within an aspen stand on Anthro Mountain within section 5 of T7SR5W. The enclosure will have two parts, one that excludes livestock but allows access by big game animals and one that excludes all ungulates. A decision was also made not to conduct a prescribed burn in this same area. The purpose and need for the enclosure is to monitor aspen regeneration in the understory of a mature aspen stand. Our goal is to learn more about the factors influencing regrowth and perpetuation of aspen stands on Anthro Mountain.

An environmental analysis and public review of this project were completed and no extraordinary circumstances or substantial environmental effects were identified. Therefore, this project has been categorically excluded from documentation in an environmental assessment document or environmental impact statement. The associated Decision Memo is available at the Duchesne County Office Building, 215 S. 4th Street, Suite 200, American Fork, Utah 84003. For more information, contact the District Ranger at (801) 538-1266.

The District Ranger's decision is subject to appeal. Publication in the Basin Standard is required for the decision to be final.

MONDAY, SEPTEMBER 13, 1999  
UNTIL 5:00 P.M.  
WEDNESDAY, SEPTEMBER 15, 1999  
TRUSTEES  
MINISTRAL  
675 East  
500  
84102  
(801) 538-1266  
Reference  
1266  
The Trust  
ministration  
right of selection  
on this  
Published  
Basin Standard  
14-20-99

available at the Duchesne County Office Building, 215 S. 4th Street, Suite 200, American Fork, Utah 84003. For more information, contact the District Ranger at (801) 538-1266.

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**RICH J. RANCH OLDFOR VOOR**  
12th Annual



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

Michael O. Leavitt  
Governor

Kathleen Clarke  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

November 10, 1999

Inland Production Company  
410 Seventeenth Street, Suite 700  
Denver, Colorado 80202

Re: Sand Wash Unit Well: Tar Sands Fed. 5-31, Section 31, Township 8 South, Range  
17 East, Duchesne County, Utah

Gentlemen:

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

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Inland Production Company.
3. A casing\tubing pressure test shall be conducted prior to commencing injection.

If you have any questions regarding this approval or the necessary requirements, please contact Brad Hill or Gil Hunt at this office.

Sincerely,

John R. Baza  
Associate Director, Oil and Gas

lwp

cc: Dan Jackson, Environmental Protection Agency  
Jim Cooper, School and Institutional Trust Lands Administration  
Bureau of Land Management, Vernal  
Inland Production Company, Myton

DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT  
STATEMENT OF BASIS**

**Applicant:** Inland Production Company

**Well:** Tar Sands Fed. 5-31

**Location:** 31/8S/17E

**API:** 43-013-31607

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

**Well Integrity:** The proposed well has surface casing set at 303 feet and is cemented to surface. A 5 ½ inch production casing is set at 6096 feet and has a cement bond better than an 80% bond over most of the cemented interval up to 2575 feet. A 2 7/8 inch tubing with a packer will be set at 4543 feet. A mechanical integrity test will be run on the well prior to injection. There are 8 producing or injection wells in the area of review. All of the wells have adequate casing and cement. No corrective action will be required.

**Ground Water Protection:** According to Technical Publication No. 92 the base of moderately saline water is at a depth of approximately 300 feet. Injection will be limited to the interval between 4630 feet and 5766 feet in the Green River Formation. Information submitted by Inland indicates that the fracture gradient for the 5-31 well is .826 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 2125 psig. The requested maximum pressure is 2125 psig. The anticipated average injection pressure is 1500 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

**Oil/Gas& Other Mineral Resources Protection:** The Board of Oil, Gas & Mining approved the Sand Wash Unit on November 4, 1997. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with BLM

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

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

Reviewer(s): Brad Hill

Date: 11/9/99

**INJECTION WELL - PRESSURE TEST**

Well Name: TSF# 5-31-8-17 API Number: 43-013-31607  
 Qtr/Qtr: SW/NW Section: 31 Township: 8S Range: 17E  
 Company Name: Intano Production Company  
 Lease: State Ut Fee \_\_\_\_\_ Federal  Indian \_\_\_\_\_  
 Inspector: R. H. [Signature] Date: 07/05/04

Initial Conditions

Tubing - Rate \_\_\_\_\_ Pressure: 400 psi  
 Casing/Tubing Annulus - Pressure: 1180 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	<u>1180</u>	<u>400</u>
5	<u>1180</u>	<u>400</u>
10	<u>1180</u>	<u>400</u>
15	<u>1180</u>	<u>400</u>
20	<u>1180</u>	<u>400</u>
25	<u>1180</u>	<u>400</u>
30	<u>1180</u>	<u>400</u>

Results  Pass/Fail

Conditions After Test:

Tubing Pressure 400 psi  
 Casing/Tubing Annulus Pressure: 1080 psi

COMMENTS: Tested for Conversion (Static) Tested @ 12:15 Pm  
& recorded on Chart

Ron [Signature]  
 Operator Representative

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

<b>1. SUNDRY NOTICES AND REPORTS ON WELLS</b>  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NO. <b>UTU-74869</b>
OIL <input type="checkbox"/> GAS <input type="checkbox"/> WELL <input type="checkbox"/> WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <b>Injection Well</b>		6. IF INDIAN, ALLOTTEE OR TRIBAL NAME  <b>N/A</b>
2. NAME OF OPERATOR <b>INLAND PRODUCTION COMPANY</b>		7. UNIT AGREEMENT NAME <b>SAND WASH</b>
3. ADDRESS OF OPERATOR <b>Rt. 3 Box 3630, Myton Utah 84052 435-646-3721</b>		8. FARM OR LEASE NAME <b>TAR SANDS FEDERAL 5-31-8-17</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>SW/NW Section 31, T08S R17E 1980 FNL 660 FWL</b>		9. WELL NO. <b>TAR SANDS FEDERAL 5-31-8-17</b>
14 API NUMBER <b>43-013-31607</b>		10. FIELD AND POOL, OR WILDCAT <b>MONUMENT BUTTE</b>
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5335 GR</b>		11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA <b>SW/NW Section 31, T08S R17E</b>
12. COUNTY OR PARISH <b>DUCHESNE</b>		13. STATE <b>UT</b>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:  TEST WATER SHUT-OFF <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/> SHOOT OR ACIDIZE <input type="checkbox"/> ABANDON* <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> (OTHER) <input type="checkbox"/>	SUBSEQUENT REPORT OF:  WATER SHUT-OFF <input type="checkbox"/> REPAIRING WELL <input type="checkbox"/> FRACTURE TREATMENT <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> SHOOTING OR ACIDIZING <input type="checkbox"/> ABANDONMENT* <input type="checkbox"/> (OTHER) <input checked="" type="checkbox"/> <b>Recompletion</b>
--	---

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

17 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.)\*

The subject injection well was recompleted in the Green River formation. Two new Green River intervals were perforated, the CP 6001' - 6006' w/ 4 jspf and the CP 6022' - 6025' w/ 4 jspf for a total of 32 shots. On 7/05/01 Mr. Dan Jackson was contacted and gave verbal permission to conduct a MIT on the casing. Mr. Dennis Ingram was also contacted of the intent. On 7/05/01 the casing was pressured to 1180 psi w/ no pressure loss charted in the 1/2 hour test. Mr. Dennis Ingram was there to witness the test. The well is shut in and waiting on approval to inject.

18 I hereby certify that the foregoing is true and correct

SIGNED Krishna Russell TITLE Production Clerk DATE 7/6/01  
 Krishna Russell

cc: BLM  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE Approved by the Utah Division of Oil, Gas and Mining DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

Date: 07-30-01  
 By: [Signature]

\* See Instr. On Reverse Side

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: None Date: 7/5/01  
 Test conducted by: Rex Shack  
 Others present: Mr. Dennis Ingram Jimbo Lopez

Well Name: <u>Tar Sands Federal 5-31-8-17</u>	Type: <u>ER</u> SWD	Status: <u>AC</u> TA UC
Field: <u>Sandwash</u> # <u>UT2847-04515</u>		
Location: <u>NE/NE</u> Sec: <u>31</u> T <u>8</u> N <u>(S)</u> R <u>17</u> <u>(E)</u> W County: <u>Duchesne</u> State: <u>UT</u>		
Operator: <u>Inland Production</u>		
Last MIT: <u>1</u> / <u>1</u>	Maximum Allowable Pressure:	PSIG

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

Pre-test casing/tubing annulus pressure: 0/0 psig

MIT DATA TABLE		Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>				
Initial Pressure		400 psig	psig	psig
End of test pressure		400 psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>				
12:15	0 minutes	1180 psig	psig	psig
	5 minutes	1180 psig	psig	psig
	10 minutes	1180 psig	psig	psig
	15 minutes	1180 psig	psig	psig
	20 minutes	1180 psig	psig	psig
	25 minutes	1180 psig	psig	psig
12:45	30 minutes	1180 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? \_\_\_\_\_

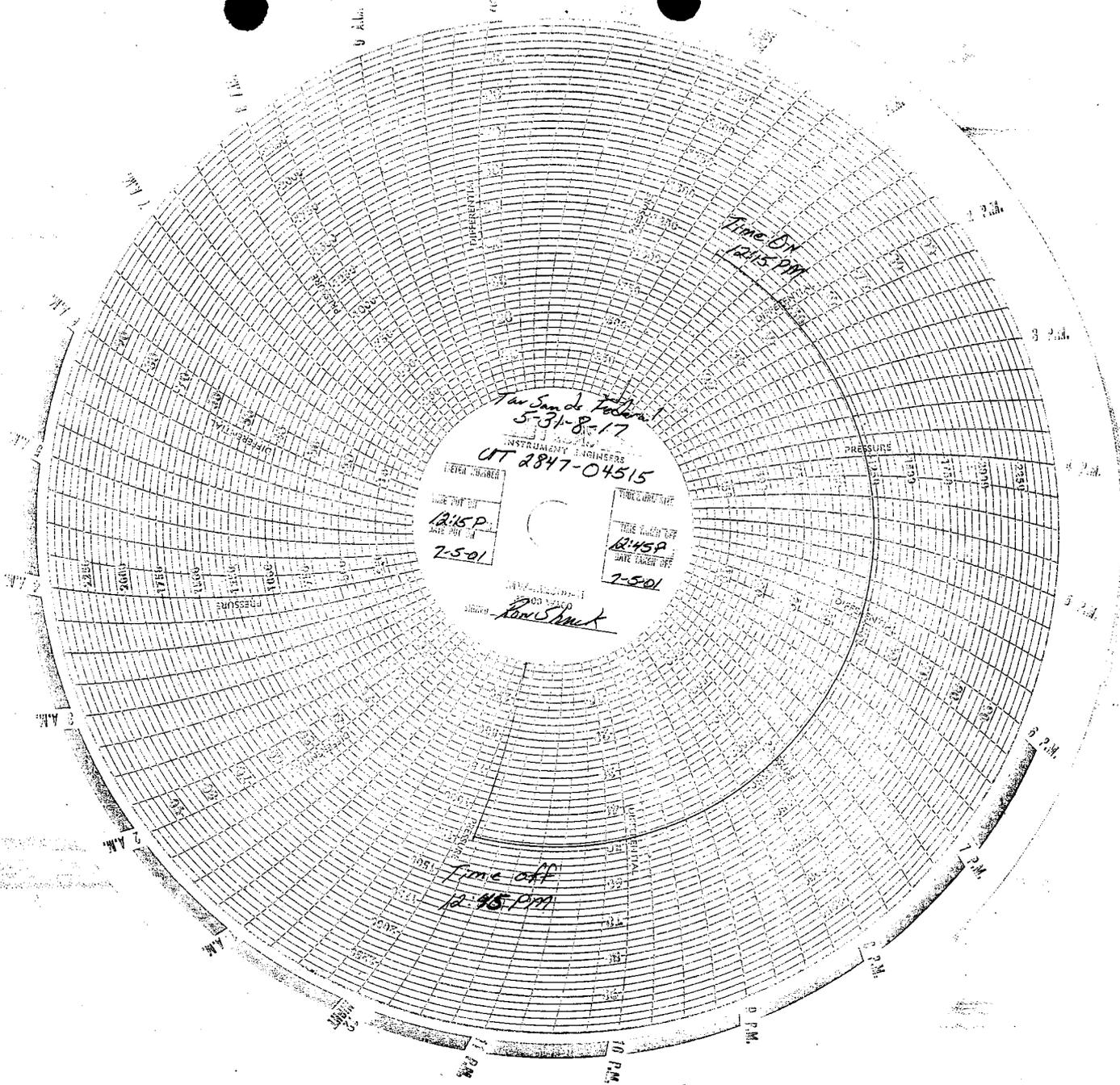
# Mechanical Integrity Test

Additional comments for mechanical integrity test \_\_\_\_\_

Inland Production converted this well from a Production Well to Injection well. This test on the casing was conducted to start Injection. The well is shut-in waiting on approval to initially start Injection. There was some perforations added to well.

OFFICE USE ONLY - COMPLIANCE FOLLOWUP		Staff _____	Date _____
Do you agree that the well passed/failed the test?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Transfer of ownership?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	OLD _____ NEW _____
Change in operating status (computer update)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Possible violation identified?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
If YES - Followup initiated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

Data Entry       Compliance Staff       2nd Data Entry       Hard Copy Filing



TAN SAN DE TROBARI  
5-31-8-17  
INSTRUMENTAL ENGINEERS  
UT 2847-04515

TYPE OF WORK	DATE WHEN OFF
EVEN WORK	12:15 P
ODD WORK	12:45 P
	7-501

ROD MARK  
RAN SIMUK

Time On  
12:15 PM

Time off  
12:45 PM

12:00 P.M.  
1:00 P.M.  
2:00 P.M.  
3:00 P.M.  
4:00 P.M.  
5:00 P.M.  
6:00 P.M.  
7:00 P.M.  
8:00 P.M.  
9:00 P.M.  
10:00 P.M.  
11:00 P.M.

2000  
1750  
1500  
1250  
1000  
750  
500  
250  
0

TEMPERATURE  
PRESSURE  
DEPTH  
WIND  
SEA  
CURRENT  
SWELL  
WAVE  
HULL  
LOGS



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

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

B

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-244

**Operator:** Inland Production Company  
**Well:** Tar Sands Federal 5-31-8-17  
**Location:** Section 31, Township 8 South, Range 17 East, Duchesne County  
**API No.:** 43-013-31607  
**Well Type:** Enhanced Recovery (waterflood)

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on November 10, 1999.
2. Maximum Allowable Injection Pressure: 2125 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (4630 feet - 5766 feet)

Approved by:

  
John R. Baza  
Associate Director

7/31/2001  
Date

cc: Dan Jackson Environmental Protection Agency  
Bureau of Land Management, Vernal  
Inland Production Company, Myton  
SITLA, Salt Lake City

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial No.

**UTU-74869**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA. Agreement Designation

**SAND WASH**

8. Well Name and No.

**TAR SANDS FEDERAL 5-31-8-17**

9. API Well No.

**43-013-31607**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UT**

**SUBMIT IN TRIPLICATE**

1. Type of Well

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

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

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

**1980 FNL 660 FWL SW/NW 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 <b>Report of first injection</b>

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

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

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

The above referenced well was put on injection at 2:00 p.m. on 8/6/01.

**RECEIVED**

AUG 13 2001

DIVISION OF  
OIL, GAS AND MINING

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

Signed

*Mandie Crozes*

Title

Permit Clerk

Date

8/7/01

CC: UTAH DOGM

(This space for Federal or State office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

STATE OF UTAH

DIVISION OF OIL, GAS, AND MINING

<p><b>1. SUNDRY NOTICES AND REPORTS ON WELLS</b></p> <p>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use "APPLICATION FOR PERMIT TO DRILL OR DEEPEN" form for such proposals.</p> <p>OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <b>Injection Well</b></p>	<p>5. LEASE DESIGNATION AND SERIAL NO. <b>UTU-74869</b></p> <p>6. IF INDIAN, ALLOTTEE OR TRIBAL NAME <b>N/A</b></p> <p>7. UNIT AGREEMENT NAME <b>SAND WASH</b></p> <p>8. WELL NAME and NUMBER <b>TAR SANDS FED 5-31-8-17</b></p> <p>9. API NUMBER <b>43-013-31607</b></p> <p>10. FIELD AND POOL OR WILDCAT <b>MONUMENT BUTTE</b></p> <p>COUNT <b>DUCHESNE</b> STATE <b>UTAH</b></p>
<p>2. NAME OF OPERATOR <b>INLAND PRODUCTION COMPANY</b></p>	
<p>3. ADDRESS AND TELEPHONE NUMBER <b>Rt. 3 Box 3630, Myton Utah 84052 435-646-3721</b></p>	
<p>4. LOCATION OF WELL</p> <p>Footages <b>1980 FNL 660 FWL</b></p> <p>QQ. SEC. T. R. M. <b>SW/NW Section 31, T08S R17</b></p>	

<p><b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA</b></p>																											
<p><b>NOTICE OF INTENT:</b> (Submit in Duplicate)</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> ABANDON</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> REPAIR CASING</td> <td><input type="checkbox"/> PULL OR ALTER CASING</td> </tr> <tr> <td><input type="checkbox"/> CHANGE OF PLANS</td> <td><input type="checkbox"/> RECOMPLETE</td> </tr> <tr> <td><input type="checkbox"/> CONVERT TO INJECTION</td> <td><input type="checkbox"/> REPERFORATE</td> </tr> <tr> <td><input type="checkbox"/> FRACTURE TREAT OR ACIDIZE</td> <td><input type="checkbox"/> VENT OR FLARE</td> </tr> <tr> <td><input type="checkbox"/> MULTIPLE COMPLETION</td> <td><input type="checkbox"/> WATER SHUT OFF</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> OTHER _____</td> </tr> </table>	<input type="checkbox"/> ABANDON	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> REPAIR CASING	<input type="checkbox"/> PULL OR ALTER CASING	<input type="checkbox"/> CHANGE OF PLANS	<input type="checkbox"/> RECOMPLETE	<input type="checkbox"/> CONVERT TO INJECTION	<input type="checkbox"/> REPERFORATE	<input type="checkbox"/> FRACTURE TREAT OR ACIDIZE	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> MULTIPLE COMPLETION	<input type="checkbox"/> WATER SHUT OFF	<input type="checkbox"/> OTHER _____		<p><b>SUBSEQUENT REPORT OF:</b> (Submit Original Form Only)</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> ABANDON*</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> REPAIR CASING</td> <td><input type="checkbox"/> PULL OR ALTER CASING</td> </tr> <tr> <td><input type="checkbox"/> CHANGE OF PLANS</td> <td><input type="checkbox"/> RECOMPLETE</td> </tr> <tr> <td><input type="checkbox"/> CONVERT TO INJECTION</td> <td><input type="checkbox"/> REPERFORATE</td> </tr> <tr> <td><input type="checkbox"/> FRACTURE TREAT OR ACIDIZE</td> <td><input type="checkbox"/> VENT OR FLARE</td> </tr> <tr> <td colspan="2"><input checked="" type="checkbox"/> OTHER <b>Step Rate Test</b></td> </tr> </table> <p>DATE WORK COMPLETED _____</p> <p>Report results of Multiple Completion and Re Completions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.</p> <p>*Must be accompanied by a cement verification report.</p>	<input type="checkbox"/> ABANDON*	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> REPAIR CASING	<input type="checkbox"/> PULL OR ALTER CASING	<input type="checkbox"/> CHANGE OF PLANS	<input type="checkbox"/> RECOMPLETE	<input type="checkbox"/> CONVERT TO INJECTION	<input type="checkbox"/> REPERFORATE	<input type="checkbox"/> FRACTURE TREAT OR ACIDIZE	<input type="checkbox"/> VENT OR FLARE	<input checked="" type="checkbox"/> OTHER <b>Step Rate Test</b>	
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<input type="checkbox"/> FRACTURE TREAT OR ACIDIZE	<input type="checkbox"/> VENT OR FLARE																										
<input checked="" type="checkbox"/> OTHER <b>Step Rate Test</b>																											

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

A step rate test was conducted on the subject well on 1/8/02. Results from the test indicate that the fracture gradient is .640 psi/ft. Therefore, Inland is requesting that the MAIP be changed to 950 psi.

13. NAME & SIGNATURE: *Michael Guinn* TITLE District Engineer DAT 1/18/02

Michael Guinn

(This space for State use only)

4/04

**COPY SENT TO OPERATOR**  
Date: 01-29-02  
Initials: CHD

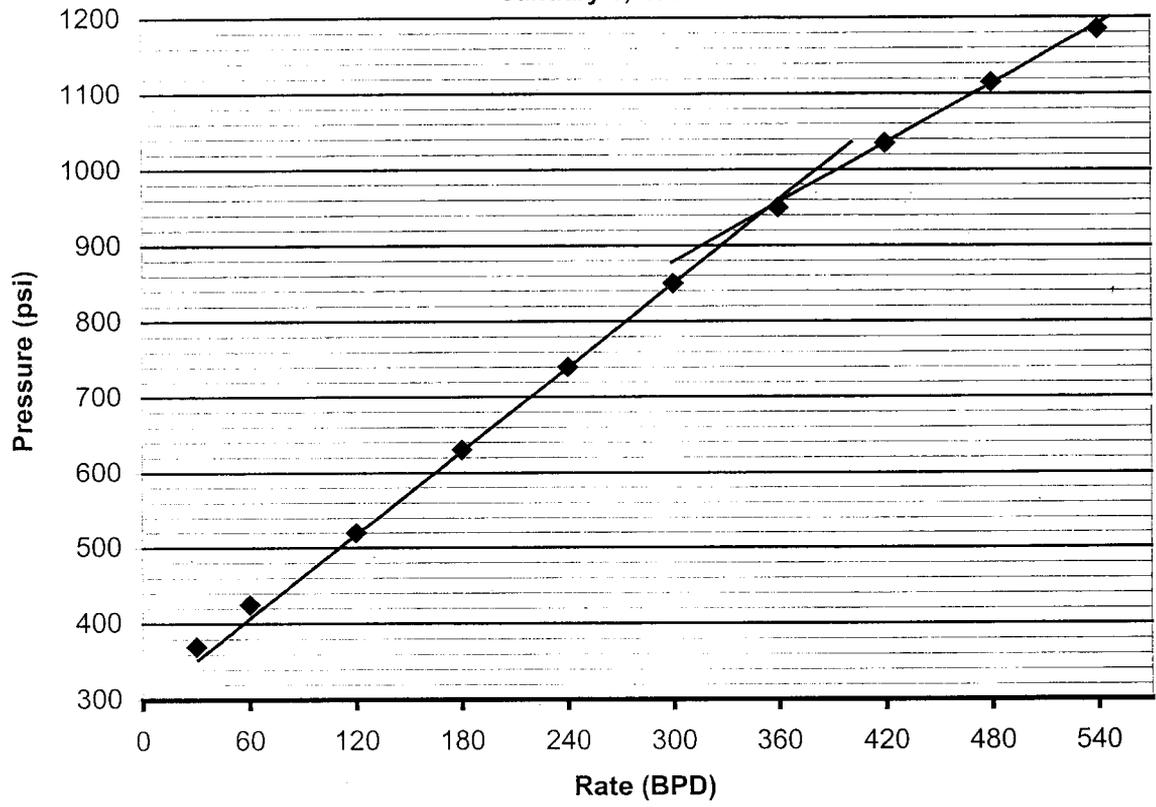
See Instructions on Reverse

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

Date: 01-28-02  
By: *[Signature]*

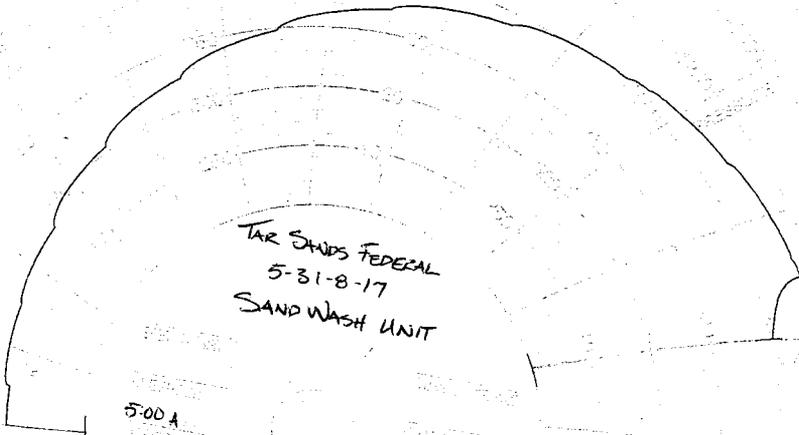
DIVISION OF  
 OIL, GAS AND MINING

Tar Sands Federal 5-31-8-  
 Sand Wash Unit  
 Step Rate Test  
 January 8, 2002



Start Pressure: 325 psi  
 Instantaneous Shut In Pressure (ISIP): 1175 psi  
 Top Perforation: 4630 feet  
 Fracture pressure (P<sub>fp</sub>): 950 psi  
 FG: 0.640 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	30	370
2	60	425
3	120	520
4	180	630
5	240	740
6	300	850
7	360	950
8	420	1035
9	480	1115
10	540	1185



TAR SANDS FEDERAL  
5-31-8-17  
SAND WASH UNIT

500A  
1/8 02

400P  
1/8 02

Bed



# United States Department of the Interior



## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, UT 84145-0155

<http://www.blm.gov>

IN REPLY REFER TO:

3106

(UT-924)

September 16, 2004

### Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

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

Michael Coulthard  
Acting Chief, Branch of  
Fluid Minerals

### Enclosure

1. State of Texas Certificate of Registration

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



## Office of the Secretary of State

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

Newfield Production Company  
Filing Number: 41530400

Articles of Amendment

September 02, 2004

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



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

Secretary of State

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

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

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

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

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

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

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

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

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

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

INLAND RESOURCES INC.

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

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		

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number See Attached List		API Number
Location of Well		Field or Unit Name See Attached List
Footage :	County :	Lease Designation and Number
QQ, Section, Township, Range:	State : UTAH	

EFFECTIVE DATE OF TRANSFER: 9/1/2004

CURRENT OPERATOR

Company: <u>Inland Production Company</u>	Name: <u>Brian Harris</u>
Address: <u>1401 17th Street Suite 1000</u>	Signature: <u><i>Brian Harris</i></u>
city <u>Denver</u> state <u>Co</u> zip <u>80202</u>	Title: <u>Engineering Tech.</u>
Phone: <u>(303) 893-0102</u>	Date: <u>9/15/2004</u>
Comments:	

NEW OPERATOR

Company: <u>Newfield Production Company</u>	Name: <u>Brian Harris</u>
Address: <u>1401 17th Street Suite 1000</u>	Signature: <u><i>Brian Harris</i></u>
city <u>Denver</u> state <u>Co</u> zip <u>80202</u>	Title: <u>Engineering Tech.</u>
Phone: _____	Date: <u>9/15/2004</u>
Comments:	

(This space for State use only)

Transfer approved by: *A. Hunt* Approval Date: 9-20-04  
 Title: Perk. Services Manager

Comments: Note: Indian Country wells will require EPA approval.

RECEIVED  
SEP 20 2004  
DIV. OF OIL, GAS & MINING

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Operator Name Change**

**Merger**

The operator of the well(s) listed below has changed, effective:

**9/1/2004**

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

**CA No.**

**Unit:**

**SAND WASH (GREEN RIVER)**

**WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
BOUNDARY FED 13-19-8-17	19	080S	170E	4301331625	12308	Federal	WI	A
TAR SANDS FED 12-30	30	080S	170E	4301331543	12308	Federal	OW	P
TAR SANDS FED 5-30	30	080S	170E	4301331620	12308	Federal	WI	A
TAR SANDS FED 4-30	30	080S	170E	4301331621	12308	Federal	OW	P
TAR SANDS FED 13-30	30	080S	170E	4301331637	12308	Federal	WI	A
TAR SANDS FED 16-30	30	080S	170E	4301331708	12308	Federal	OW	P
TAR SANDS FED 14-30	30	080S	170E	4301331711	12308	Federal	OW	P
TAR SANDS 6-30-8-17	30	080S	170E	4301331712	12308	Federal	OW	P
TAR SANDS FED 11-30	30	080S	170E	4301331732	12308	Federal	WI	A
TAR SANDS FED 3-30	30	080S	170E	4301331755	12308	Federal	WI	A
HARBOUR TOWN FED 31-30	30	080S	170E	4301331758	12308	Federal	OW	P
TAR SANDS FED 7-30	30	080S	170E	4301331807	12308	Federal	WI	A
TAR SANDS FED 10-30	30	080S	170E	4301331808	12308	Federal	OW	P
GOVERNMENT 31-2	31	080S	170E	4301320082	12308	Federal	OW	P
TAR SANDS FED 4-31	31	080S	170E	4301331606	12308	Federal	OW	P
TAR SANDS FED 5-31	31	080S	170E	4301331607	12308	Federal	WI	A
TAR SANDS FED 8-31	31	080S	170E	4301331615	12308	Federal	OW	P
TAR SANDS FED 9-31	31	080S	170E	4301331616	12308	Federal	OW	P
TAR SANDS FED 1-31	31	080S	170E	4301331654	12308	Federal	WI	A
TAR SANDS FED 7-31	31	080S	170E	4301331684	12308	Federal	WI	A
TAR SANDS FED 6-31	31	080S	170E	4301331686	12308	Federal	OW	P
TAR SANDS FED 3-31	31	080S	170E	4301331733	12308	Federal	WI	A

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

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

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

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

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

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

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

**DATA ENTRY:**

- 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

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU74869

**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, to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
SAND WASH UNIT

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER Injection well

8. WELL NAME and NUMBER:  
TAR SANDS FED 5-31

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301331607

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: 1980 FNL 0660 FWL

COUNTY: Duchesne

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SW/NW, 31, T8S, R17E

STATE: Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION		
	SubDate	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will _____  <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: 05/29/2006	<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 type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Step Rate Test
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

A step rate test was conducted on the subject well on May 15, 2006. Results from the test indicate that the fracture gradient is .685 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1155 psi.

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

NAME (PLEASE PRINT) Cheyenne Batemen

TITLE Well Analyst Foreman

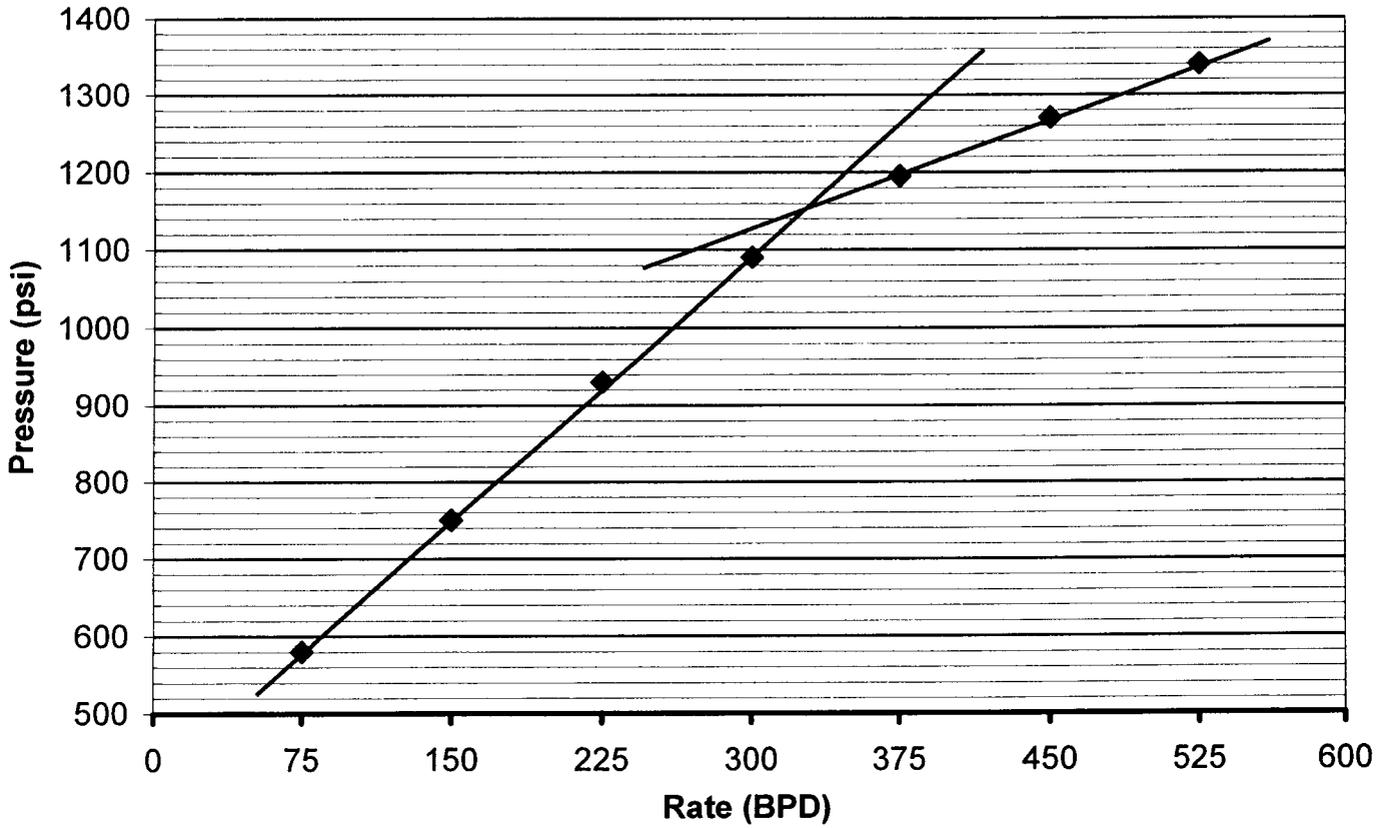
SIGNATURE *Cheyenne Batemen*

DATE 05/29/2006

(This space for State use only)

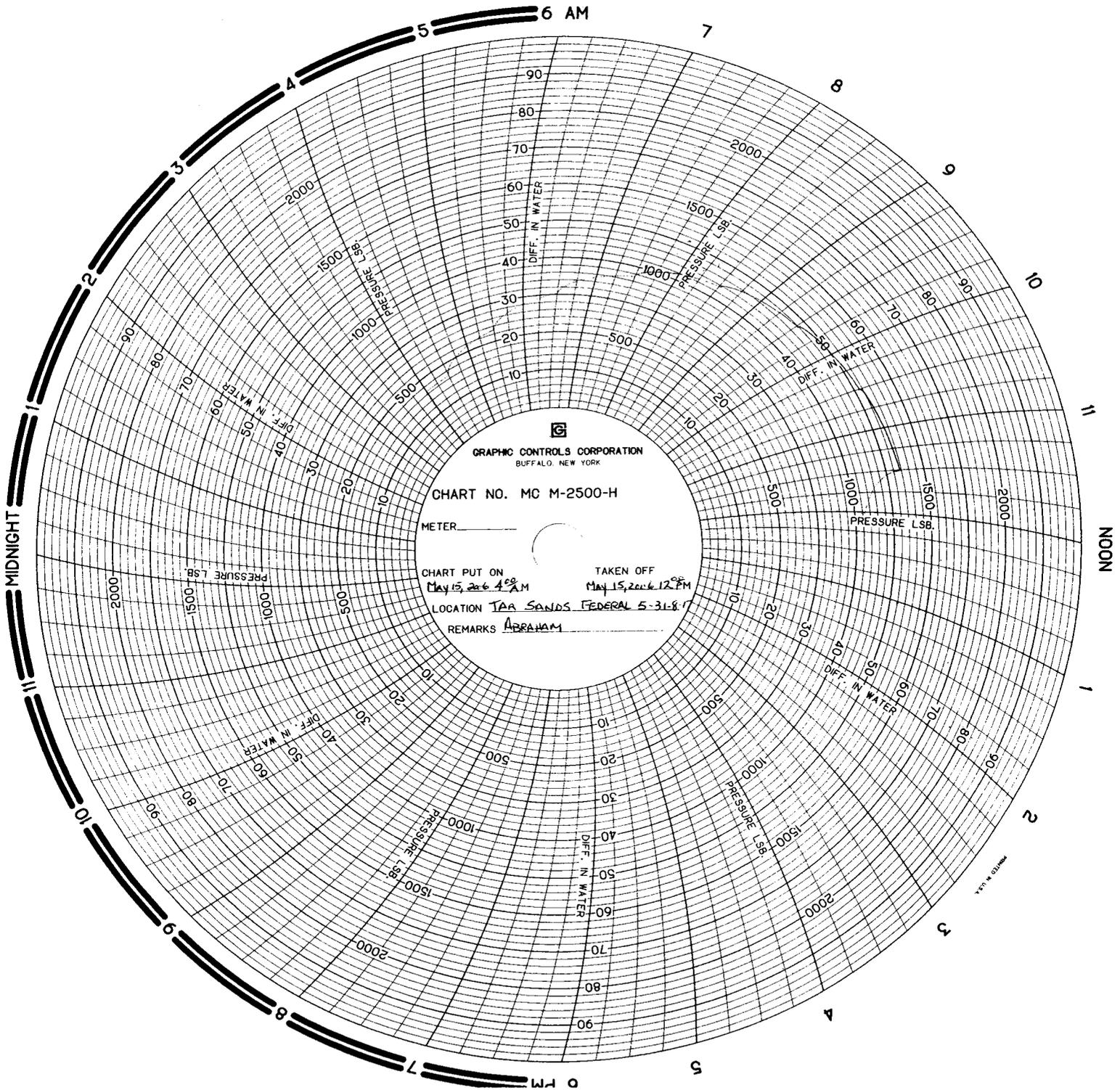
RECEIVED  
JUN 01 2006  
DIV. OF OIL, GAS & MINING

**Tar Sands Federal 5-31-8-17  
Sandwash Unit  
Step Rate Test  
May 15, 2006**



**Start Pressure:** 420 psi  
**Instantaneous Shut In Pressure (ISIP):** 1320 psi  
**Top Perforation:** 4630 feet  
**Fracture pressure (Pfp):** 1155 psi  
**FG:** 0.685 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	75	580
2	150	750
3	225	930
4	300	1090
5	375	1195
6	450	1270
7	525	1340



GRAPHIC CONTROLS CORPORATION  
BUFFALO, NEW YORK

CHART NO. MC M-2500-H

METER \_\_\_\_\_

CHART PUT ON  
May 15, 2006 4:00 AM

TAKEN OFF  
May 15, 2006 12:00 PM

LOCATION TIA SANDS FEDERAL 5-31-8-17

REMARKS ABRAHAM

1371-M-02000

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU74869

**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, to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
SAND WASH UNIT

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER Injection well

8. WELL NAME and NUMBER:  
TAR SANDS FED 5-31

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301331607

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: 1980 FNL 0660 FWL

COUNTY: Duchesne

OTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SW/NW, 31, T8S, R17E

STATE: Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION		
	SubDate	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____  <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  06/27/2006	<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 type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - 5 Year MIT
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

On 6/20/06 Nahtan Wiser with the EPA was contacted concerning the 5-year MIT on the above listed well. Permission was given at that time to perform the test on 6/27/06. On 6/27/06 the csg was pressured up to 1240 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 95 psig during the test. There was not an EPA representative available to witness the test. EPA# UT 20847-04515 API# 43-013-31607

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

NAME (PLEASE PRINT) Callie Duncan

TITLE Production Clerk

SIGNATURE

*Callie Duncan*

DATE 06/28/2006

(This space for State use only)

**RECEIVED**

**JUN 29 2006**

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: 6/27/06  
 Test conducted by: Chris Wilkerson  
 Others present: \_\_\_\_\_

Well Name: <u>TAR SANDS FEDERAL 5-31-8-17</u>	Type: <u>ER SWD</u>	Status: <u>AC TA UC</u>
Field: <u>SAND WASH UNIT</u>		
Location: <u>SW/4W</u> Sec: <u>31</u> T <u>8</u> N <u>(S)</u> R <u>17</u> <u>(E)</u> W	County: <u>Duchesne</u>	State: <u>UT</u>
Operator: <u>Newfield Exploration</u>		
Last MIT: <u>/ /</u>	Maximum Allowable Pressure: <u>950</u>	<u>PSIG</u>

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

Pre-test casing/tubing annulus pressure: 0 psig

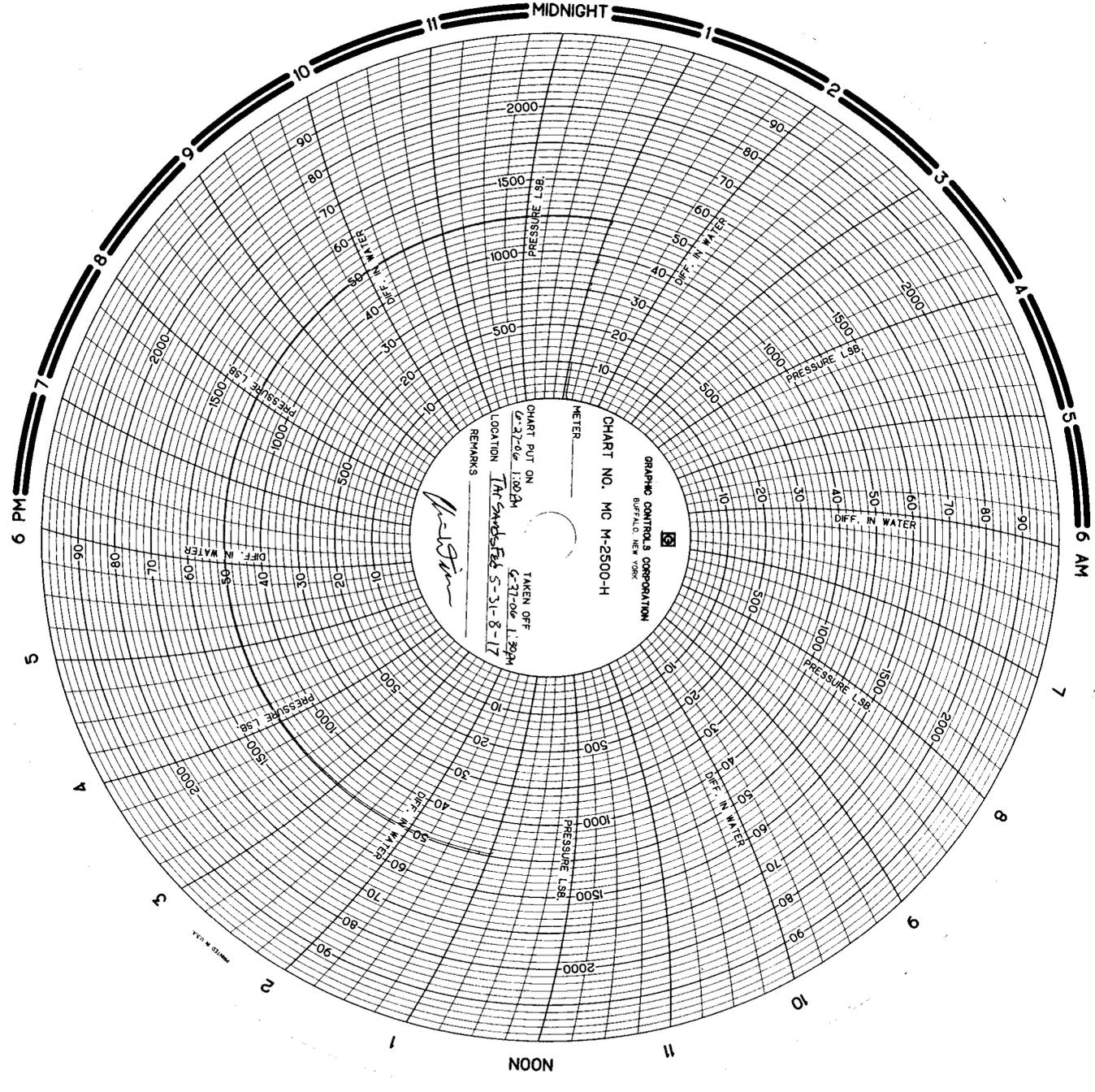
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>95</u> psig	psig	psig
End of test pressure	<u>95</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1240</u> psig	psig	psig
5 minutes	<u>1240</u> psig	psig	psig
10 minutes	<u>1240</u> psig	psig	psig
15 minutes	<u>1240</u> psig	psig	psig
20 minutes	<u>1240</u> psig	psig	psig
25 minutes	<u>1240</u> psig	psig	psig
30 minutes	<u>1240</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: \_\_\_\_\_



GRAPHIC CONTROL & CORPORATION  
BUFFALO, N. Y.

CHART NO. MC M-2500-H

METER \_\_\_\_\_

CHART PUT ON \_\_\_\_\_

TAKEN OFF \_\_\_\_\_

LOCATION 7th St. & Erie St.

REMARKS 5-31-8-17

*W. J. Stone*

**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:  
GMBU

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:  
TAR SANDS FED 5-31

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301331607

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

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

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 1980 FNL 660 FWL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWNW, 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"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  10/22/2010	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Step Rate Test
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

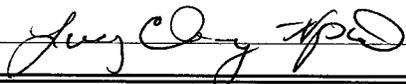
A step rate test was conducted on the subject well on October 22,2010. Results from the test indicate that the fracture gradient is 0.791 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed from 1155 psi to 1550 psi.

EPA: UT20847-04515 API: 43-013-31607

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

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE 

DATE 10/27/2010

(This space for State use only)

**RECEIVED  
NOV 01 2010  
DIV. OF OIL, GAS & MINING**

## Step Rate Test (SRT) Analysis

Date: 10/25/2010

Operator: Newfield Production Company

Well: Tar Sands Federal 5-31-8-17

Permit #: UT20847-04515

**Enter the following data :**

	Specific Gravity (sg) of injectate =	<u>1.015</u>	g/cc	
	Depth to top perforation (D) =	<u>4416</u>	feet	4416
Top of permitted injection zone depth (blank=use top perforation to calculate fg) =			feet	
Estimated Formation Parting Pressure (P <sub>fp</sub> ) from SRT chart =		<u>1560</u>	psi	
Instantaneous Shut In Pressure (ISIP) from SRT =		<u>1550</u>	psi	1560
Bottom Hole Parting Pressure (P <sub>bhp</sub> ) from downhole pressure recorder =			psi	no downhole

### Part One - Calculation of Fracture Gradient (fg)

**Calculated Fracture Gradient = 0.791 psi/ft.**

where: fg = P<sub>bhp</sub> / D (Note: this formula uses the downhole recorded bottom hole parting pressure if available) = 1550

D = depth used = 4416

P<sub>bhp</sub> used = 3491

**Calculated Bottom Hole Parting Pressure (P<sub>bhp</sub>) = 3491 psi**

3490.810

to calculate Bottom Hole Parting Pressure (P<sub>bhp</sub>) = Formation Fracture Pressure (ISIP or P<sub>fp</sub>) + (0.433 \* SG \* D)

(Uses lesser of ISIP or P<sub>fp</sub>) Value used = 1550

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

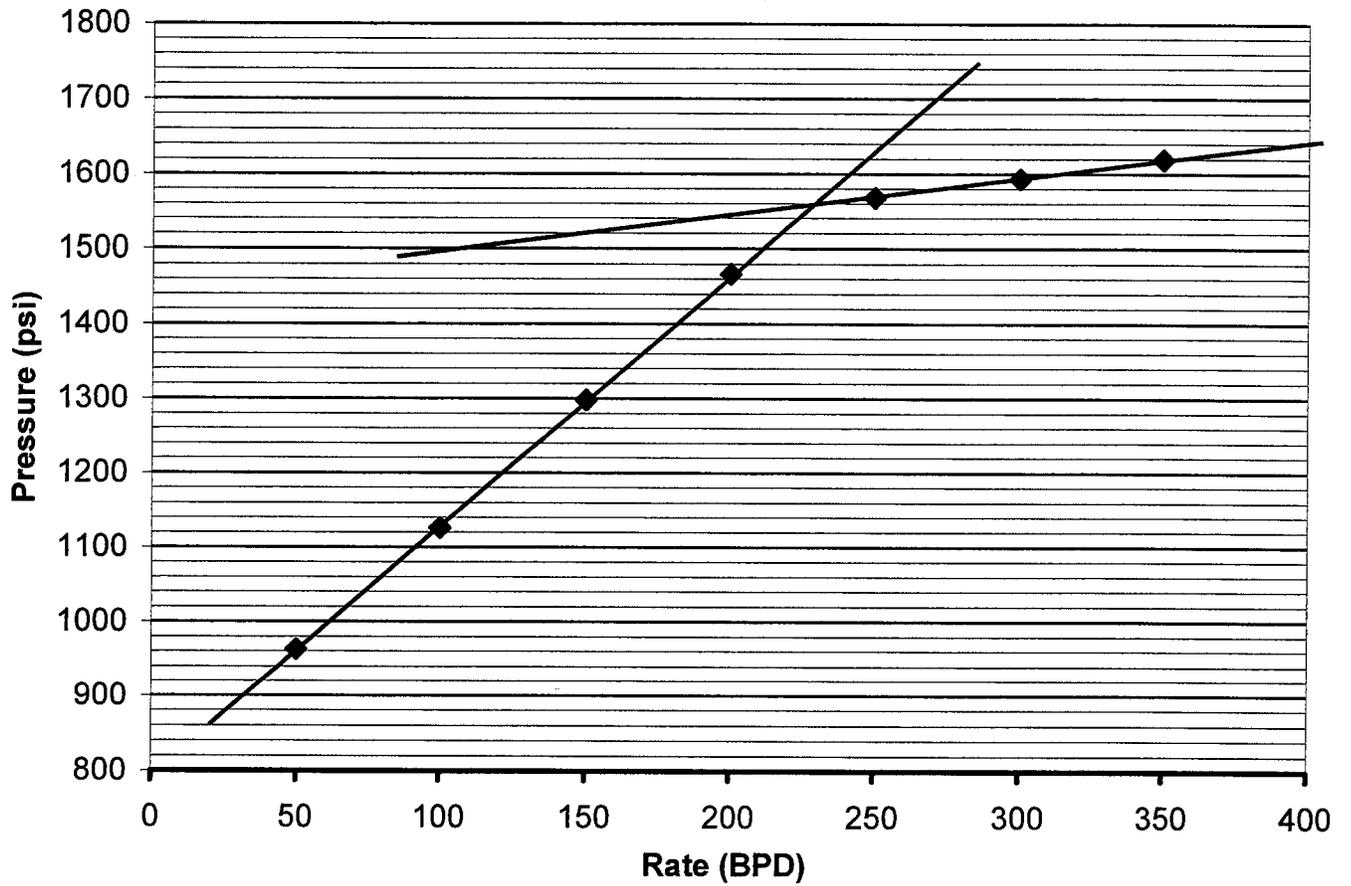
**Maximum Allowable Injection Pressure (MAIP) = 1550 psig**

D = depth used = 4416

MAIP = [(0.433 \* SG) \* D = 1552.246

(rounded down to nearest 5 psig)

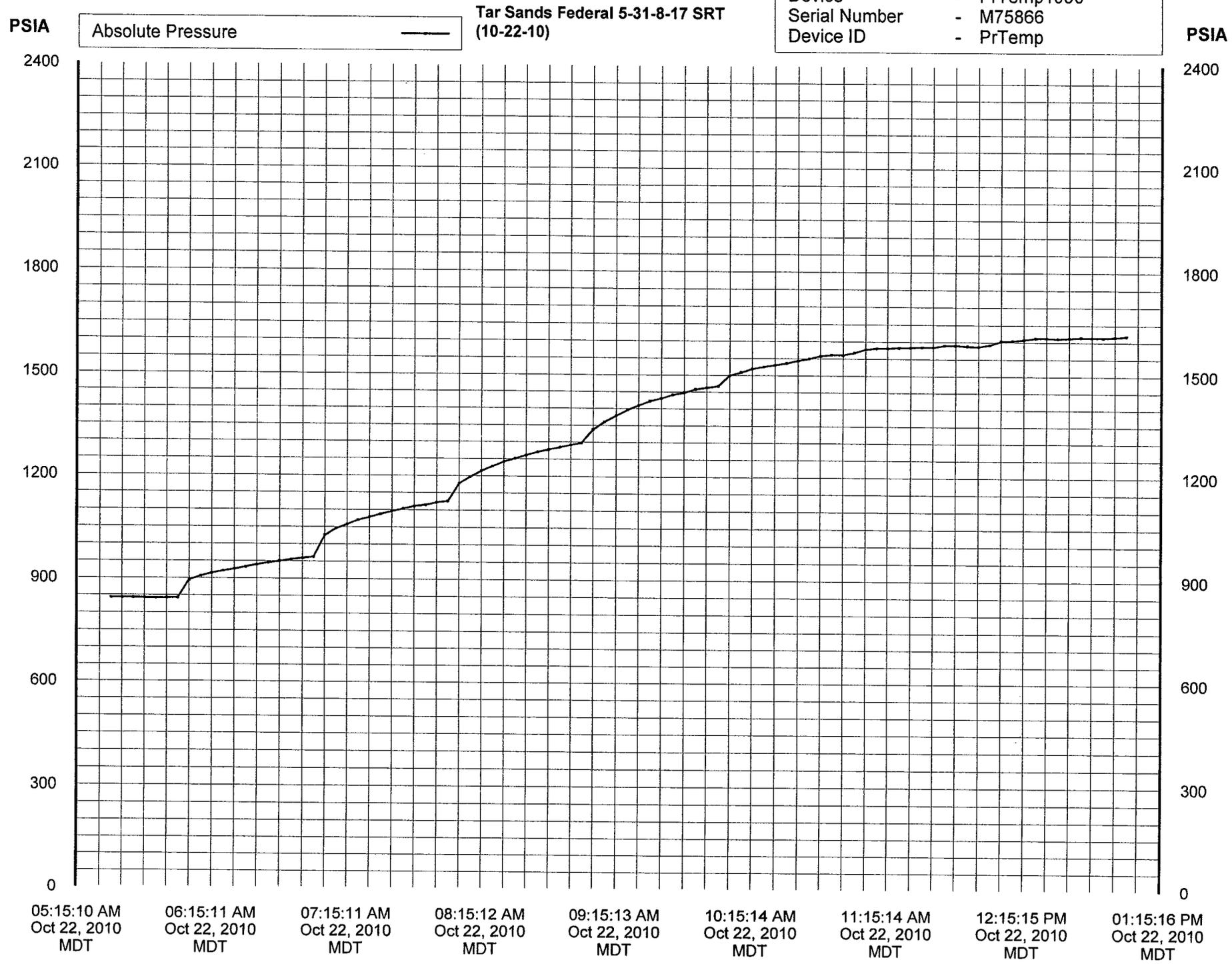
**Tar Sands Federal 5-31-8-17  
Greater Monument Butte Unit  
Step Rate Test  
October 22, 2010**



**Start Pressure:** 842 psi  
**Instantaneous Shut In Pressure (ISIP):** 1550 psi  
**Top Perforation:** 4416 feet  
**Fracture pressure (Pfp):** 1560 psi  
**FG:** 0.793 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	50	963
2	100	1126
3	150	1298
4	200	1467
5	250	1568
6	300	1593
7	350	1619

Device - PrTemp1000  
Serial Number - M75866  
Device ID - PrTemp

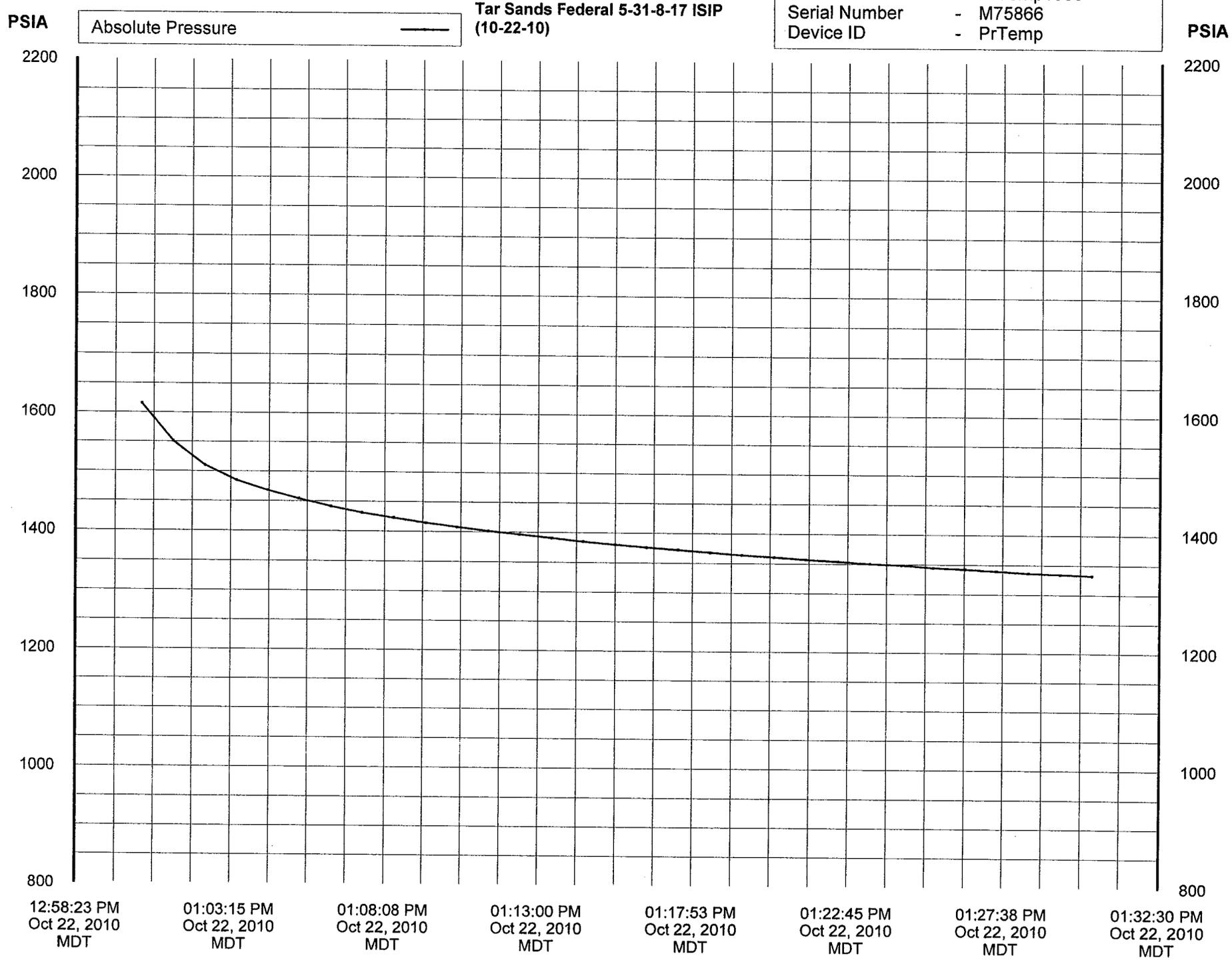


Report Name: PrTemp1000 Data Table  
 Report Date: Oct 25, 2010 01:04:00 PM MDT  
 File Name: C:\Program Files\PTC\Instruments 2.00\Tar Sands Federal 5-31-8-17 SRT (10-22-10).csv  
 Title: Tar Sands Federal 5-31-8-17 SRT (10-22-10)  
 Device: PrTemp1000 - Temperature and Pressure Recorder  
 Hardware Revision: REV2C (64K)  
 Serial Number: M75866  
 Device ID: PrTemp  
 Data Start Date: Oct 22, 2010 05:30:13 AM MDT  
 Data End Date: Oct 22, 2010 01:00:13 PM MDT  
 Reading Rate: 2 Seconds  
 Readings: 1 to 91 of 91  
 Last Calibration Date: May 22, 2009  
 Next Calibration Date: May 22, 2010

<u>Reading</u>	<u>Date and Time (MDT)</u>	<u>Absolute Pressure</u>	<u>Annotation</u>
1	Oct 22, 2010 05:30:13 AM	842.800	PSIA
2	Oct 22, 2010 05:35:12 AM	842.400	PSIA
3	Oct 22, 2010 05:40:13 AM	842.400	PSIA
4	Oct 22, 2010 05:45:12 AM	842.200	PSIA
5	Oct 22, 2010 05:50:13 AM	841.600	PSIA
6	Oct 22, 2010 05:55:13 AM	842.200	PSIA
7	Oct 22, 2010 06:00:12 AM	842.400	PSIA
8	Oct 22, 2010 06:05:12 AM	894.000	PSIA
9	Oct 22, 2010 06:10:19 AM	905.800	PSIA
10	Oct 22, 2010 06:15:13 AM	914.400	PSIA
11	Oct 22, 2010 06:20:12 AM	921.200	PSIA
12	Oct 22, 2010 06:25:13 AM	926.800	PSIA
13	Oct 22, 2010 06:30:12 AM	932.600	PSIA
14	Oct 22, 2010 06:35:13 AM	939.200	PSIA
15	Oct 22, 2010 06:40:13 AM	944.800	PSIA
16	Oct 22, 2010 06:45:13 AM	950.200	PSIA
17	Oct 22, 2010 06:50:12 AM	954.600	PSIA
18	Oct 22, 2010 06:55:13 AM	958.800	PSIA
19	Oct 22, 2010 07:00:13 AM	962.800	PSIA
20	Oct 22, 2010 07:05:11 AM	1025.400	PSIA
21	Oct 22, 2010 07:10:13 AM	1045.000	PSIA
22	Oct 22, 2010 07:15:12 AM	1057.000	PSIA
23	Oct 22, 2010 07:20:12 AM	1070.000	PSIA
24	Oct 22, 2010 07:25:13 AM	1078.800	PSIA
25	Oct 22, 2010 07:30:13 AM	1087.800	PSIA
26	Oct 22, 2010 07:35:12 AM	1095.800	PSIA
27	Oct 22, 2010 07:40:13 AM	1103.400	PSIA
28	Oct 22, 2010 07:45:13 AM	1110.600	PSIA
29	Oct 22, 2010 07:50:14 AM	1114.400	PSIA
30	Oct 22, 2010 07:55:13 AM	1121.800	PSIA
31	Oct 22, 2010 08:00:12 AM	1126.000	PSIA
32	Oct 22, 2010 08:05:13 AM	1177.200	PSIA
33	Oct 22, 2010 08:10:13 AM	1196.600	PSIA
34	Oct 22, 2010 08:15:13 AM	1214.400	PSIA
35	Oct 22, 2010 08:20:13 AM	1228.200	PSIA
36	Oct 22, 2010 08:25:14 AM	1241.600	PSIA
37	Oct 22, 2010 08:30:13 AM	1251.400	PSIA
38	Oct 22, 2010 08:35:12 AM	1260.800	PSIA
39	Oct 22, 2010 08:40:13 AM	1270.800	PSIA
40	Oct 22, 2010 08:45:12 AM	1277.600	PSIA
41	Oct 22, 2010 08:50:13 AM	1284.400	PSIA
42	Oct 22, 2010 08:55:12 AM	1291.600	PSIA
43	Oct 22, 2010 09:00:13 AM	1297.600	PSIA
44	Oct 22, 2010 09:05:13 AM	1337.400	PSIA
45	Oct 22, 2010 09:10:13 AM	1360.000	PSIA
46	Oct 22, 2010 09:15:13 AM	1378.600	PSIA
47	Oct 22, 2010 09:20:12 AM	1395.600	PSIA
48	Oct 22, 2010 09:25:13 AM	1409.600	PSIA
49	Oct 22, 2010 09:30:12 AM	1422.200	PSIA
50	Oct 22, 2010 09:35:13 AM	1430.400	PSIA
51	Oct 22, 2010 09:40:13 AM	1441.000	PSIA
52	Oct 22, 2010 09:45:13 AM	1448.000	PSIA
53	Oct 22, 2010 09:50:13 AM	1457.600	PSIA
54	Oct 22, 2010 09:55:12 AM	1462.600	PSIA
55	Oct 22, 2010 10:00:13 AM	1467.200	PSIA
56	Oct 22, 2010 10:05:12 AM	1499.000	PSIA
57	Oct 22, 2010 10:10:13 AM	1508.600	PSIA
58	Oct 22, 2010 10:15:12 AM	1519.000	PSIA
59	Oct 22, 2010 10:20:18 AM	1525.600	PSIA

60	Oct 22, 2010 10:25:13 AM	1530.400	PSIA
61	Oct 22, 2010 10:30:12 AM	1536.000	PSIA
62	Oct 22, 2010 10:35:13 AM	1543.200	PSIA
63	Oct 22, 2010 10:40:13 AM	1549.600	PSIA
64	Oct 22, 2010 10:45:13 AM	1557.800	PSIA
65	Oct 22, 2010 10:50:12 AM	1561.000	PSIA
66	Oct 22, 2010 10:55:14 AM	1560.800	PSIA
67	Oct 22, 2010 11:00:12 AM	1568.000	PSIA
68	Oct 22, 2010 11:05:13 AM	1578.000	PSIA
69	Oct 22, 2010 11:10:13 AM	1581.200	PSIA
70	Oct 22, 2010 11:15:13 AM	1581.200	PSIA
71	Oct 22, 2010 11:20:13 AM	1583.000	PSIA
72	Oct 22, 2010 11:25:13 AM	1583.600	PSIA
73	Oct 22, 2010 11:30:13 AM	1584.800	PSIA
74	Oct 22, 2010 11:35:13 AM	1585.000	PSIA
75	Oct 22, 2010 11:40:13 AM	1590.600	PSIA
76	Oct 22, 2010 11:45:12 AM	1590.800	PSIA
77	Oct 22, 2010 11:50:13 AM	1588.800	PSIA
78	Oct 22, 2010 11:55:13 AM	1587.400	PSIA
79	Oct 22, 2010 12:00:13 PM	1592.800	PSIA
80	Oct 22, 2010 12:05:13 PM	1603.400	PSIA
81	Oct 22, 2010 12:10:13 PM	1604.800	PSIA
82	Oct 22, 2010 12:15:13 PM	1608.000	PSIA
83	Oct 22, 2010 12:20:12 PM	1612.800	PSIA
84	Oct 22, 2010 12:25:14 PM	1613.200	PSIA
85	Oct 22, 2010 12:30:12 PM	1611.600	PSIA
86	Oct 22, 2010 12:35:16 PM	1613.200	PSIA
87	Oct 22, 2010 12:40:13 PM	1615.200	PSIA
88	Oct 22, 2010 12:45:13 PM	1614.400	PSIA
89	Oct 22, 2010 12:50:13 PM	1614.000	PSIA
90	Oct 22, 2010 12:55:13 PM	1616.400	PSIA
91	Oct 22, 2010 01:00:13 PM	1618.800	PSIA

Device - PrTemp1000  
Serial Number - M75866  
Device ID - PrTemp



Report Name: PrTemp1000 Data Table  
 Report Date: Oct 25, 2010 01:03:52 PM MDT  
 File Name: C:\Program Files\PTC® Instruments 2.00\Tar Sands Federal 5-31-8-17 ISIP (10-22-10).csv  
 Title: Tar Sands Federal 5-31-8-17 ISIP (10-22-10)  
 Device: PrTemp1000 - Temperature and Pressure Recorder  
 Hardware Revision: REV2C (64K)  
 Serial Number: M75866  
 Device ID: PrTemp  
 Data Start Date: Oct 22, 2010 01:00:26 PM MDT  
 Data End Date: Oct 22, 2010 01:30:26 PM MDT  
 Reading Rate: 2 Seconds  
 Readings: 1 to 31 of 31  
 Last Calibration Date: May 22, 2009  
 Next Calibration Date: May 22, 2010

<u>Reading</u>	<u>Date and Time (MDT)</u>	<u>Absolute Pressure</u>	<u>Annotation</u>
1	Oct 22, 2010 01:00:26 PM	1615.000	PSIA
2	Oct 22, 2010 01:01:26 PM	1550.400	PSIA
3	Oct 22, 2010 01:02:26 PM	1509.800	PSIA
4	Oct 22, 2010 01:03:26 PM	1485.000	PSIA
5	Oct 22, 2010 01:04:26 PM	1467.800	PSIA
6	Oct 22, 2010 01:05:25 PM	1453.800	PSIA
7	Oct 22, 2010 01:06:26 PM	1441.200	PSIA
8	Oct 22, 2010 01:07:26 PM	1430.800	PSIA
9	Oct 22, 2010 01:08:25 PM	1422.400	PSIA
10	Oct 22, 2010 01:09:26 PM	1414.400	PSIA
11	Oct 22, 2010 01:10:26 PM	1407.600	PSIA
12	Oct 22, 2010 01:11:26 PM	1401.200	PSIA
13	Oct 22, 2010 01:12:26 PM	1395.800	PSIA
14	Oct 22, 2010 01:13:26 PM	1390.400	PSIA
15	Oct 22, 2010 01:14:26 PM	1385.000	PSIA
16	Oct 22, 2010 01:15:26 PM	1380.200	PSIA
17	Oct 22, 2010 01:16:26 PM	1375.800	PSIA
18	Oct 22, 2010 01:17:26 PM	1372.200	PSIA
19	Oct 22, 2010 01:18:26 PM	1368.000	PSIA
20	Oct 22, 2010 01:19:26 PM	1363.800	PSIA
21	Oct 22, 2010 01:20:26 PM	1360.600	PSIA
22	Oct 22, 2010 01:21:26 PM	1357.000	PSIA
23	Oct 22, 2010 01:22:26 PM	1354.200	PSIA
24	Oct 22, 2010 01:23:26 PM	1350.600	PSIA
25	Oct 22, 2010 01:24:26 PM	1348.400	PSIA
26	Oct 22, 2010 01:25:26 PM	1344.400	PSIA
27	Oct 22, 2010 01:26:26 PM	1342.400	PSIA
28	Oct 22, 2010 01:27:26 PM	1339.600	PSIA
29	Oct 22, 2010 01:28:26 PM	1336.400	PSIA
30	Oct 22, 2010 01:29:26 PM	1334.400	PSIA
31	Oct 22, 2010 01:30:26 PM	1332.200	PSIA

# Tar Sands Federal 5-31-8-17 Rate Sheet (10-22-10)

<i>Step # 1</i>	Time:	6:05	6:10	6:15	6:20	6:25	6:30
	Rate:	50.5	50.5	50.5	50.5	50.5	50.4
	Time:	6:35	6:40	6:45	6:50	6:55	7:00
	Rate:	50.4	50.3	50.3	50.3	50.2	50.2
<i>Step # 2</i>	Time:	7:05	7:10	7:15	7:20	7:25	7:30
	Rate:	100.5	100.4	100.4	100.4	100.3	100.3
	Time:	7:35	7:40	7:45	7:50	7:55	8:00
	Rate:	100.3	100.3	100.3	100.2	100.2	100.2
<i>Step # 3</i>	Time:	8:05	8:10	8:15	8:20	8:25	8:30
	Rate:	150.4	150.4	150.3	150.3	150.3	150.3
	Time:	8:35	8:40	8:45	8:50	8:55	9:00
	Rate:	150.3	150.3	150.2	150.2	150.2	150.1
<i>Step # 4</i>	Time:	9:05	9:10	9:15	9:20	9:25	9:30
	Rate:	200.6	200.6	200.6	200.6	200.4	200.4
	Time:	9:35	9:40	9:45	9:50	9:55	10:00
	Rate:	200.4	200.4	200.4	200.3	200.2	200.2
<i>Step # 5</i>	Time:	10:05	10:10	10:15	10:20	10:25	10:30
	Rate:	250.5	250.5	250.4	250.4	250.4	250.3
	Time:	10:35	10:40	10:45	10:50	10:55	11:00
	Rate:	250.3	250.3	250.2	250.2	250.2	250.1
<i>Step # 6</i>	Time:	11:05	11:10	11:15	11:20	11:25	11:30
	Rate:	300.4	300.4	300.3	300.3	300.3	300.3
	Time:	11:35	11:40	11:45	11:50	11:55	12:00
	Rate:	300.2	300.2	300.2	300.1	300.1	300.1
<i>Step # 7</i>	Time:	12:05	12:10	12:15	12:20	12:25	12:30
	Rate:	350.3	350.3	350.3	350.3	350.2	350.2
	Time:	12:35	12:40	12:45	12:50	12:55	1:00
	Rate:	350.2	350.1	350.1	350.1	350.1	350
	Time:						
	Rate:						
	Time:						
	Rate:						

**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:  
GMBU

8. WELL NAME and NUMBER:  
TAR SANDS FED 5-31

9. API NUMBER:  
4301331607

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

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: 1980 FNL 660 FWL COUNTY: DUCHESNE  
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWNW, 31, T8S, R17E STATE: UT

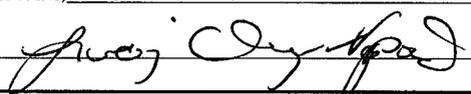
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 06/04/2011	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Five Year MIT
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
On 05/23/2011 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above listed well. On 06/04/2011 the casing was pressured up to 1100 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 1467 psig during the test. There was not an EPA representative available to witness the test.  
EPA# UT20847-04515 API# 43-013-31607

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

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Water Services Technician

SIGNATURE  DATE 06/09/2011

(This space for State use only)

**RECEIVED**  
**JUN 20 2011**  
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: 6/4/11  
 Test conducted by: Rowdy Cloward  
 Others present: \_\_\_\_\_

Well Name: <u>Tar Sands Federal 5-31-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>Tar Sands Fed. 5</u> Sec: <u>31</u> T <u>8</u> N <u>18</u> R <u>17</u> E/W	County: <u>Duchesne</u>	State: <u>UT</u>
Operator: <u>Rowdy Cloward</u>		
Last MIT: <u>1</u> / <u>1</u>	Maximum Allowable Pressure: <u>1550</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: 6 bpd

Pre-test casing/tubing annulus pressure: 1467 psig

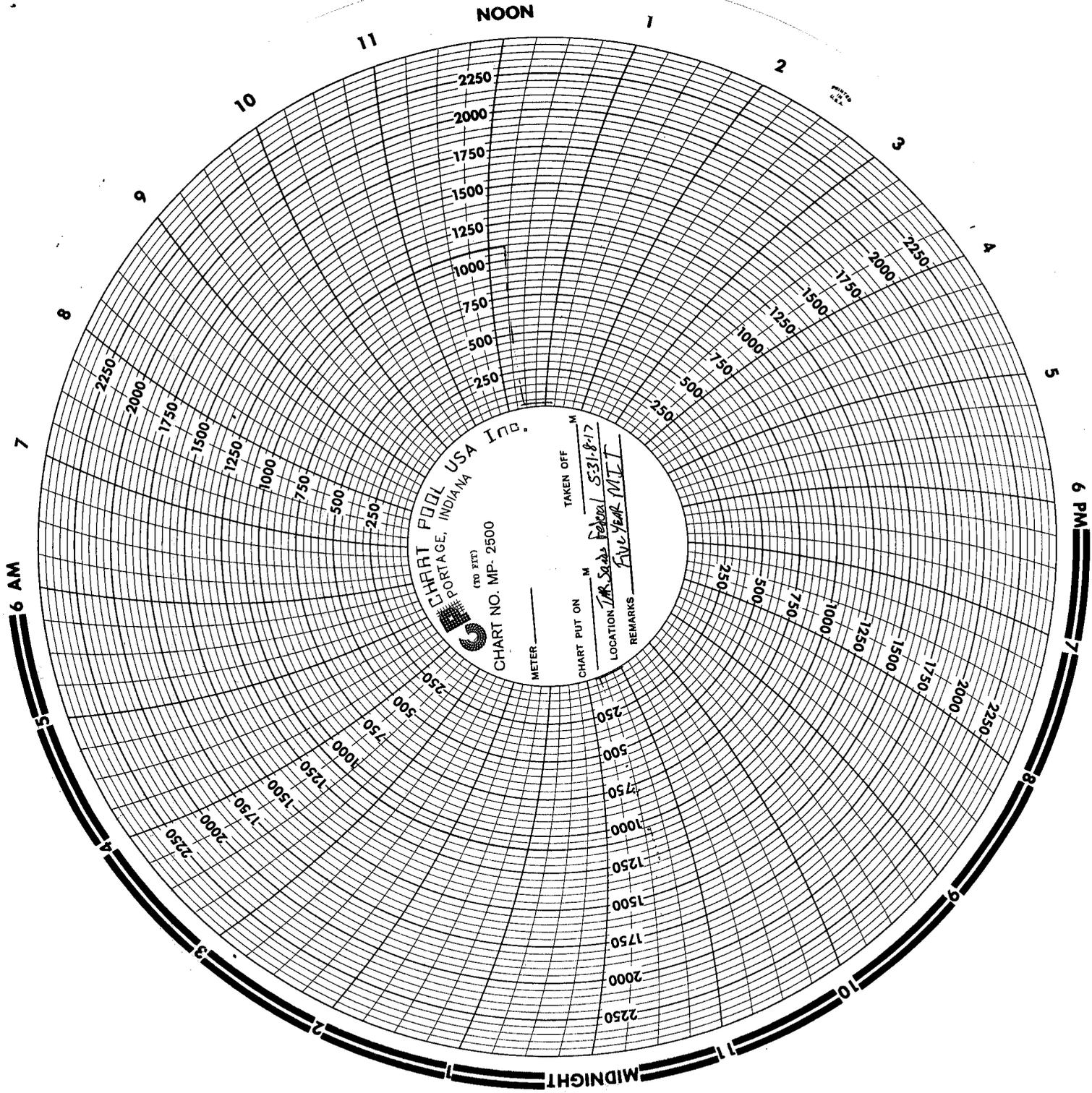
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>1467</u> psig	psig	psig
End of test pressure	<u>1467</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1100</u> psig	psig	psig
5 minutes	<u>1100</u> psig	psig	psig
10 minutes	<u>1100</u> psig	psig	psig
15 minutes	<u>1100</u> psig	psig	psig
20 minutes	<u>1100</u> psig	psig	psig
25 minutes	<u>1100</u> psig	psig	psig
30 minutes	<u>1100</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.:

Rowdy Cloward



**CHART POOL USA Inc.**  
PORTAGE, INDIANA  
(700 FIT)  
CHART NO. MP-2500

METER \_\_\_\_\_

CHART PUT ON \_\_\_\_\_ M

TAKEN OFF \_\_\_\_\_ M

LOCATION TR. 2433 Federal S318-17

REMARKS FIVE YEAR M.I.T.

Spud Date: 6/17/97  
 Put on Production: 7/21/97  
 GL: 5336' KB: 5348'

# Tar Sands Federal 5-31-8-17

Initial Production: 121 BOPD.  
 128 MCFPD, 7 BWPD

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (304.93')  
 DEPTH LANDED: 303.04' GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 120 sxs Premium cmt, est 6 bbls to surf.

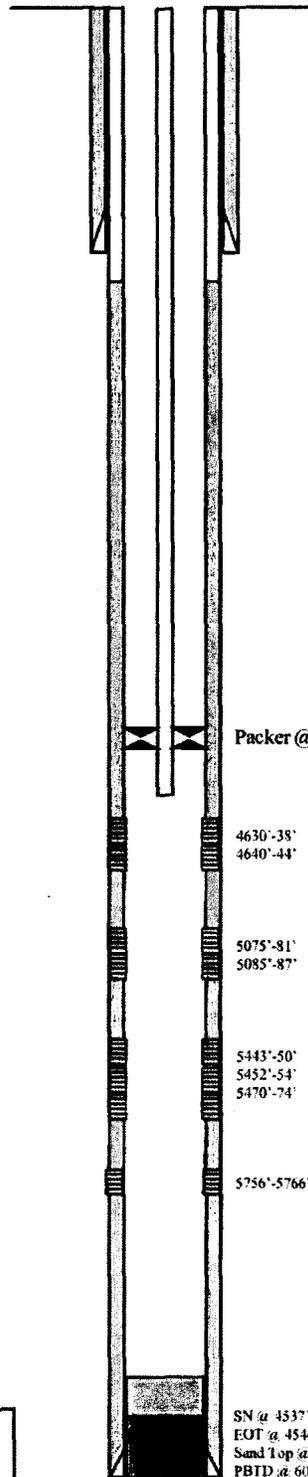
### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 143 jts. (6102.52')  
 DEPTH LANDED: 6096.52' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 405 sxs Hibond mixed & 360 sxs thixotropic  
 CEMENT TOP AT: NA per CBL

### TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
 NO. OF JOINTS: 146 jts (4525')  
 SN LANDED AT: 4537'  
 PACKER: 4539'  
 TOTAL STRING LENGTH: EOT @ 4546'

Injection Wellbore  
 Diagram



### FRAC JOB

7/8/97 5756'-5766' **Frac CP sand as follows:**  
 93,500# of 20/40 sand in 508 bbls of Boragel. Breakdown @ 3680psi  
 Treated @ avg rate of 26.5 bpm w/avg press of 2250 psi. ISIP-2353 psi, 5-min 2166 psi. Flowback on 12/64" ck for 3 hours and died.

7/10/97 5443'-5474' **Frac A sand as follows:**  
 80,800# of 20/40 sand in 451 bbls of Boragel. Breakdown @ 2648psi  
 Treated @ avg rate of 24.7 bpm w/avg press of 1750 psi. ISIP-2143 psi, 5-min 1752 psi. Flowback on 12/64" ck for 3 hours and died.

7/12/97 5075'-5087' **Frac C sand as follows:**  
 90,300# of 20/40 sand in 462 bbls of Boragel. Breakdown @ 2453psi  
 Treated @ avg rate of 27 bpm w/avg press of 2400 psi. ISIP-3264 psi, 5-min 2933 psi. Flowback on 12/64" ck for 3 1/2 hours and died.

7/15/97 4630'-4644' **Frac PB sand as follows:**  
 72,500# of 20/40 sand in 396 bbls of Boragel. Breakdown @ 2974psi.  
 Treated @ avg rate of 22.5 bpm w/avg press of 2250 psi. ISIP-3553 psi, 5-min 3429 psi. Flowback on 12/64" ck for 3 hours and died.

7/2/01 6001'-6025' **Break CP sand as follows:**  
 Broke zones with 2500 psi.

7/5/01 Contacted Mr. Jackson w/ EPA and Mr. Ingram w/ DOGM to conduct MIT on well. Waiting on approval to inject.

6/28/06 5 Year MIT completed and submitted.

### PERFORATION RECORD

Date	Interval	ISPF	Holes
7/8/97	5756'-5766'	4 JSPF	40 holes
7/10/97	5470'-5474'	4 JSPF	16 holes
7/10/97	5452'-5454'	4 JSPF	8 holes
7/10/97	5443'-5450'	4 JSPF	28 holes
7/12/97	5085'-5087'	4 JSPF	8 holes
7/12/97	5075'-5081'	4 JSPF	24 holes
7/15/97	4640'-4644'	4 JSPF	16 holes
7/15/97	4630'-4638'	4 JSPF	32 holes
7/2/01	6001'-6006'	4 JSPF	20 holes
7/2/01	6022'-6025'	4 JSPF	12 holes

**NEWFIELD**

Tar Sands Federal 5-31-8-17  
 660 FWL & 1980 FNL  
 NENE Section 31-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-31607; Lease #U-74869



## 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: 5 / 4 / 16  
 Test conducted by: PETE MONTAGUE  
 Others present: \_\_\_\_\_

Well Name: <u>TAR SANDS FEDERAL 5-31-847</u>	Type: ER SWD	Status: AC TA UC
Field: <u>GREATER MONUMENT BUTTE</u>		
Location: <u>5</u> Sec: <u>31</u> T <u>8</u> N <u>(S)</u> R <u>17(E)</u> W	County: <u>DUCHESSNE</u>	State: <u>WY</u>
Operator: <u>NEWFIELD</u>		
Last MIT: <u>1</u> / <u>1</u>	Maximum Allowable Pressure: <u>1428</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: 0 / 1034 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>1275</u> psig	psig	psig
End of test pressure	<u>1270</u> psig	psig	psig
<b>CASING/TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1034</u> psig	psig	psig
5 minutes	<u>1033</u> psig	psig	psig
10 minutes	<u>1033</u> psig	psig	psig
15 minutes	<u>1033</u> psig	psig	psig
20 minutes	<u>1033</u> psig	psig	psig
25 minutes	<u>1033</u> psig	psig	psig
30 minutes	<u>1034</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 5-31-8-17, 5-YR MIT, (5-4-16).

5/4/2016 11:06:24 AM

