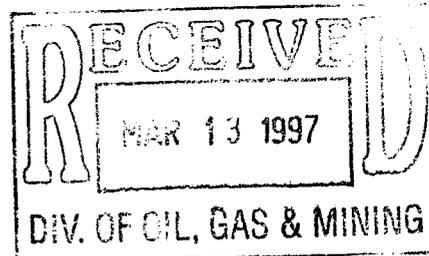




March 12, 1997



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

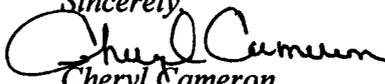
**ATTENTION: Ed Forsman
Wayne Bankert**

**RE: Tar Sands Federal #7-33
Tar Sands Federal 11-33
Tar Sands Federal 14-33**

Gentlemen,

Enclosed is the original and two copies (each,) of the Application For Permit To Drill, for the above referenced locations. Copies will also be submitted to the State of Utah.

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

Sincerely,

Cheryl Cameron
Regulatory Compliance Specialist

cc:

*Mike Hebertson
State of Utah
Division of Oil, Gas & Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801*

Enclosures

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-74870
1b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Inland Production Company		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P.O. Box 790233 Vernal, UT 84079 Phone: (801) 789-1866		8. FARM OR LEASE NAME Tar Sands Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At Surface NE/SW At proposed Prod. Zone 1989.8' FSL & 1870.8' FWL		9. WELL NO. #11-33
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 11.6 Miles southeast of Myton, Utah		10. FIELD AND POOL OR WILDCAT Monument Butte
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 738'	16. NO. OF ACRES IN LEASE 2879.94	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 33, T8S, R17E
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. 1132.8'	12. County Duchesne
19. PROPOSED DEPTH 6500'	20. ROTARY OR CABLE TOOLS Rotary	13. STATE UT
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5140.2' GR		22. APPROX. DATE WORK WILL START*

23. PROPOSED CASING AND CEMENTING PROGRAM

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

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

SURFACE PIPE - Premium Plus Cement, w/ 2% CaCl₂, 1/4# Flocele/sk
 Weight: 14.8 PPG YIELD: 1.37 Cu Ft/sk H₂O Req: 6.4 Gal/sk

LONG STRING - Lead: Hibond 65 Modified
 Weight: 11.0 PPG YIELD: 3.00 Cu Ft/sk H₂O Req: 18.08 Gal/sk
Tail: Premium Plus Thixotropic
 Weight: 14.2 PPG YIELD: 1.59 Cu Ft/sk H₂O Req: 7.88 Gal/sk

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

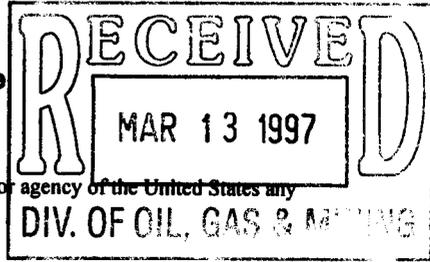
24. SIGNED Brad Mecham TITLE District Manager DATE 3/6/97

(This space for Federal or State office use)

PERMIT NO. 43-013-31861 APPROVAL DATE 3/25/97

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
 CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

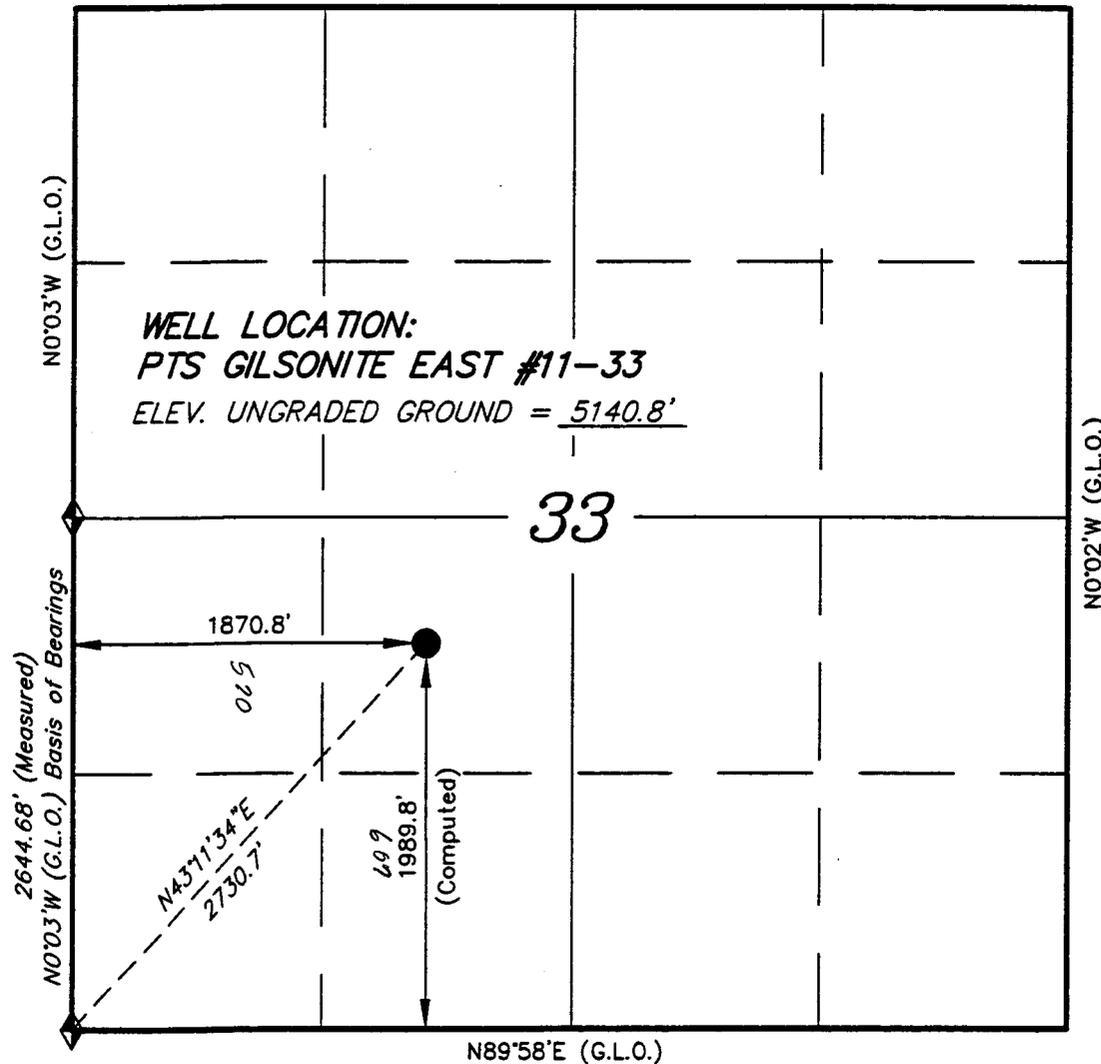


T8S, R17E, S.L.B.&M.

INLAND PRODUCTION COMPANY

N89°58'E - 79.98 (G.L.O.)

WELL LOCATION, PTS GILSONITE EAST #11-33, LOCATED AS SHOWN IN THE NE 1/4 SW 1/4 OF SECTION 33, T8S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

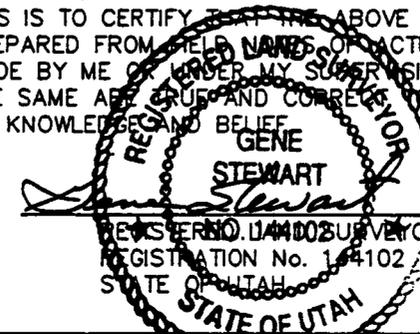


WELL LOCATION:
PTS GILSONITE EAST #11-33
 ELEV. UNGRADED GROUND = 5140.8'

33



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



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

◆ = SECTION CORNERS LOCATED

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

SCALE: 1" = 1000'	SURVEYED BY: S.S.
DATE: 12-10-96	WEATHER: COLD
NOTES:	FILE #

**INLAND PRODUCTION COMPANY
TAR SANDS FEDERAL #11-33
NE/SW SECTION 33, 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' - 3050'
Green River	3050'
Wasatch	6600'

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

Green River Formation 3050' - 6600' - Oil

4. PROPOSED CASING PROGRAM

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

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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

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

(See Exhibit F)

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

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

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

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

8. **TESTING, LOGGING AND CORING PROGRAMS:**

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

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

The anticipated maximum bottom hole pressure is 2000 psi. It is not anticipated that abnormal temperatures will be encountered; nor that any other abnormal hazards such as H₂S will be encountered in this area.

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

It is anticipated that the drilling operations will commence the second quarter of 1997, and take approximately six days to drill.

**INLAND PRODUCTION COMPANY
TAR SANDS FEDERAL #11-33
NE/SW SECTION 33, 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 #11-33 located in the NE 1/4 SW 1/4 Section 33, T8S, R17E, S.L.B. 7 M. Duchesne County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 - 1.6 miles \pm to the junction of this highway and Utah State Highway 53; proceed southeasterly along Utah State Highway 10 miles on an existing dirt road to the east, proceed easterly .8 mile 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 oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

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

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The planned access road leaves the existing location (Tar Sands Federal #12-33) in the NW1/4 SW 1/4 Section 33, T8S, R17E, S.L.B., and proceeds in a easterly direction approximately 100' \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 where 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%.

The existing two track road will be upgraded to the same conditions as the access road.

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

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

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

3. **LOCATION OF EXISTING WELLS**

There are eight (8) producing, two (2) injection, and one (1) P&A Inland Production wells, and two (2) producing, and one (1) P&A Dalon wells, within a one (1) mile radius of this well. See Exhibit "D".

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

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

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

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

Tank batteries will be built to BLM specifications.

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

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

Inland Production Company has purchased a 3" water connection with Johnson Water District to supply the Monument Butte oil field. 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 #11-33. A temporary line may be used for water transportation from our existing supply line, from Johnson Water District (See Exhibit "G,") or water for this well will be trucked from Inland Production Company's water supply line located at the Gilsonite State #7-32 (SW/NE Sec. 32, T8S, R17E), or the Monument Butte Federal #5-35 (SW/NW Sec. 35, T8S, R16E), or the Travis Federal #15-28 (SW/SE Sec. 28, T8S, R16E). See Exhibit "C".

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

See Location Layout Sheet - Exhibit "E".

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

A mineral material application is not required for this location.

7. METHODS FOR HANDLING WASTE DISPOSAL

See Location Layout Sheet - Exhibit "E".

A small reserve pit (80 X 40 X 8' deep, or less) will be constructed from native soil and clay materials. A water processing unit will be employed to continuously recycle the drilling fluid as it is used, returning the fluid component to the drilling rig's steel tanks. The reserve pit will primarily receive the processed drill cuttings (wet sand, shale & rock) removed from the wellbore. Any drilling fluids which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed by the water recycling unit and then returned to the steel rig tanks. All drilling fluids will be fresh water based containing DAP (Di-Ammonium Phosphate, commonly known as fertilizer), typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be utilized in the reserve pit.

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

A portable toilet will be provided for human waste.

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

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

8. ANCILLARY FACILITIES

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

9. WELL SITE LAYOUT

See attached Location Layout Sheet - Exhibit "E".

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

No flare pit will be used at this location.

The stockpiled topsoil (first six (6) inches) will be stored on the west between stakes 1 & 8.

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

Corner #2 shall be rounded to avoid fill from spilling into drainage. The northwest corner shall be rounded to avoid excess fill. Corner #6 shall be rounded to avoid excess cut.

Fencing Requirements

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

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

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

10. PLANS FOR RESTORATION OF SURFACE

a) *Producing Location*

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

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

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

b) *Dry Hole Abandoned Location*

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

11. SURFACE OWNERSHIP - Bureau Of Land Management

12. **OTHER ADDITIONAL INFORMATION**

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

The Archaeological Cultural Resource Survey is attached.

Inland Production Company requests that a pipeline ROW be granted to the Tar Sands Federal #11-33, from the Tar Sands Federal #12-33, for a 3" poly gas line and a 4" poly return line. Both lines will be run on surface, adjacent to road-way. A temporary line may be used for water transportation, prior to gas transportation, from our existing supply line, from Johnson Water District. See Exhibit "G."

Additional Surface Stipulations

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

Hazardous Material Declaration

Inland Production Company guarantees that during the drilling and completion of the Tar Sands Federal #11-33, we will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Inland also guarantees that during the drilling and completion of the Tar Sands Federal #11-33, we will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

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

Inland Production Company or a contractor employed by Inland Production shall contact the B.L.M. office at (801) 789-1362, 48 hours prior to construction activities.

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

13. **LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

Representative

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

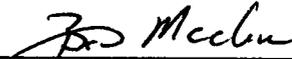
Certification

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of Tar Sands Federal #11-33 NE/SW Section 33, Township 8S, Range 17E: Lease U-74870, 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.

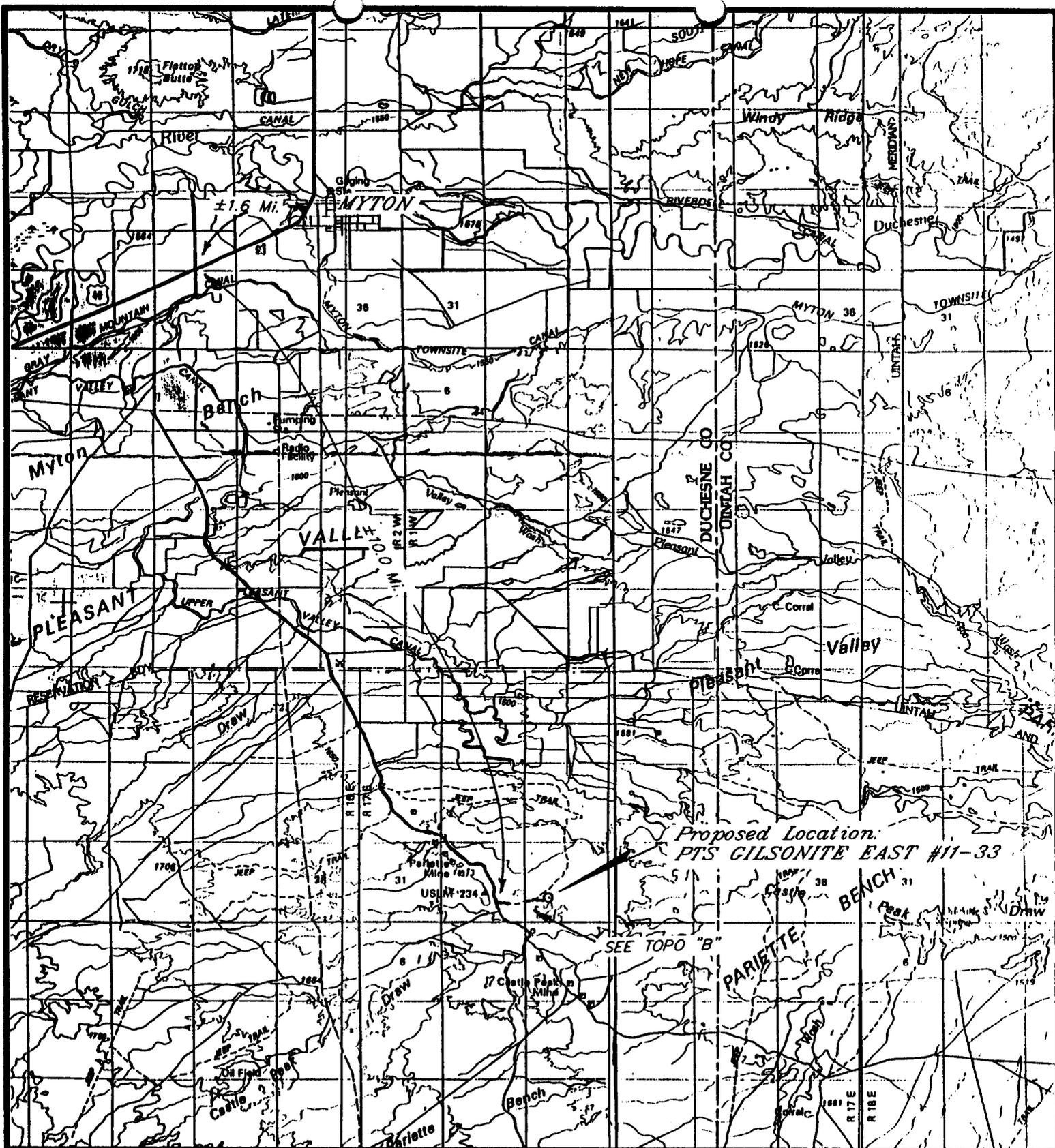
I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with 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.

3-10-97

Date



Brad Mecham
District Manager

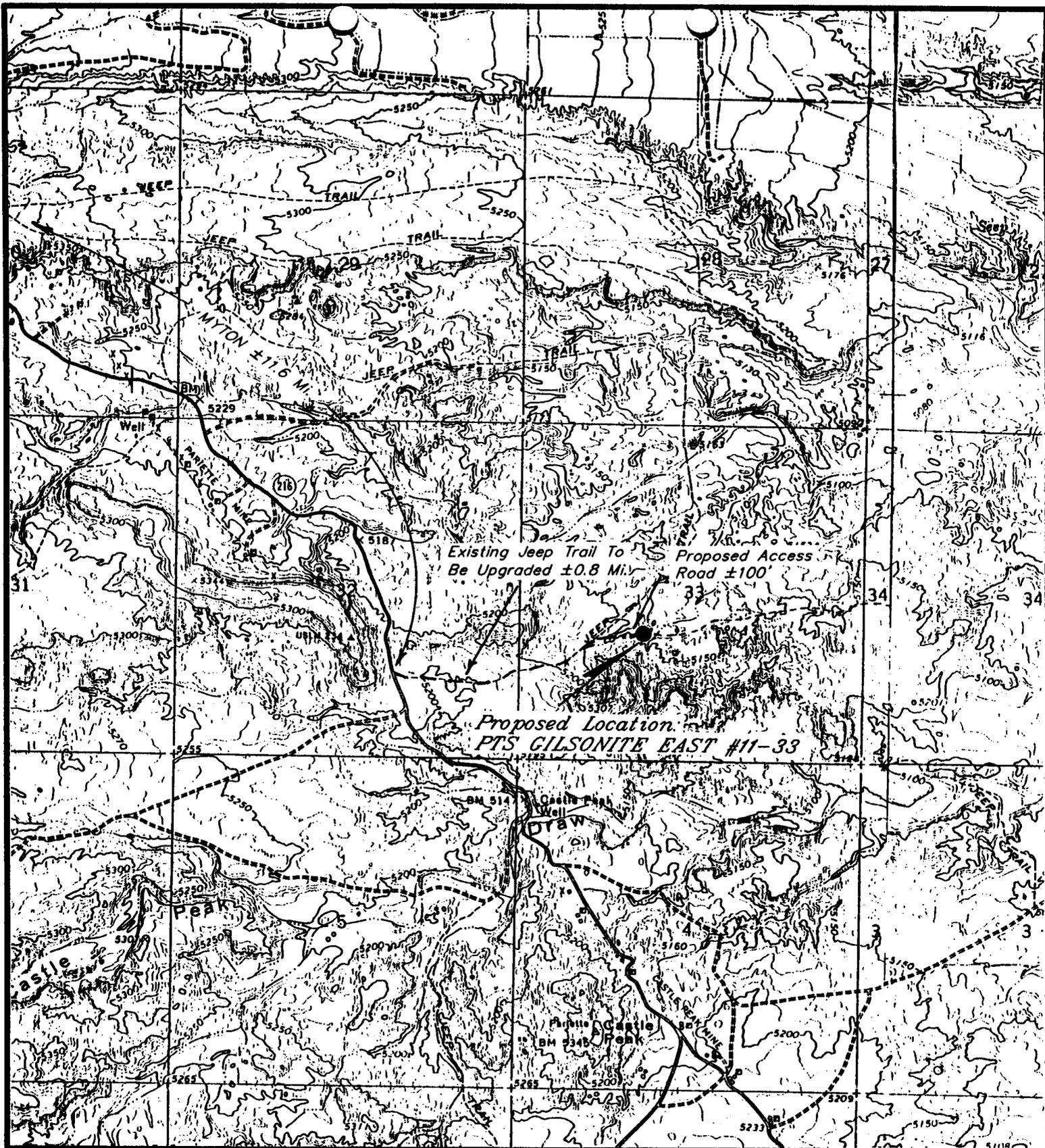


INLAND PRODUCTION COMPANY

PTS GILSONITE EAST #11-33
 SEC. 33, T8S, R17E, S.L.B.&M.
 TOPO "A"



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



INLAND PRODUCTION COMPANY

PTS GILSONITE EAST #11-33
 SEC. 33, T8S, R17E, S.L.B.&M.
 TOPO "B"

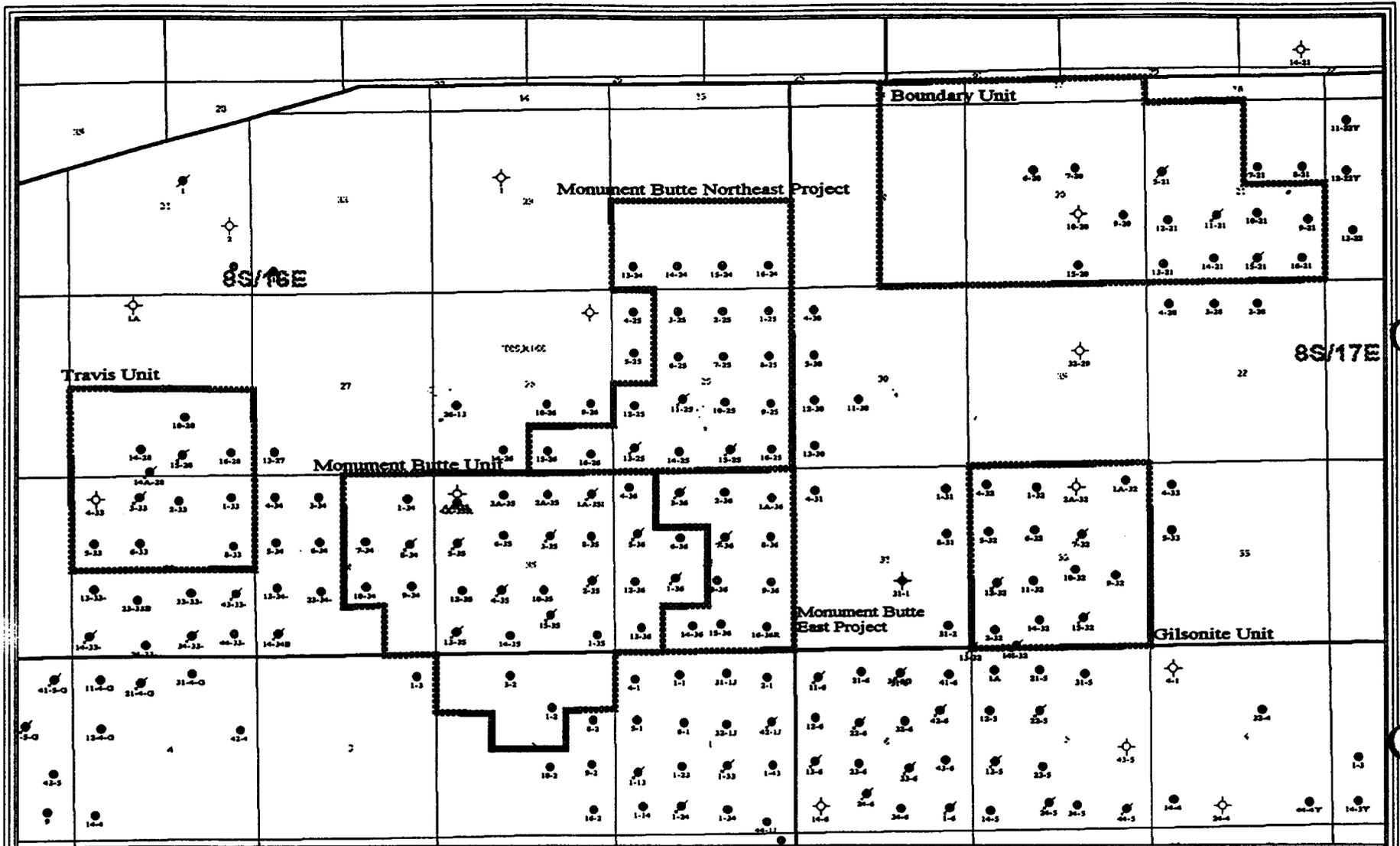


SCALE: 1" = 2000'

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

38 WEST 100 NORTH VERNAL, UTAH 84078

EXHIBIT "C"



INJECTOR STATIONS:

- Travis Federal #15-28
- Monument Butte Federal #5-35
- Gilsonite State #7-32



Inland
Engineering & Construction

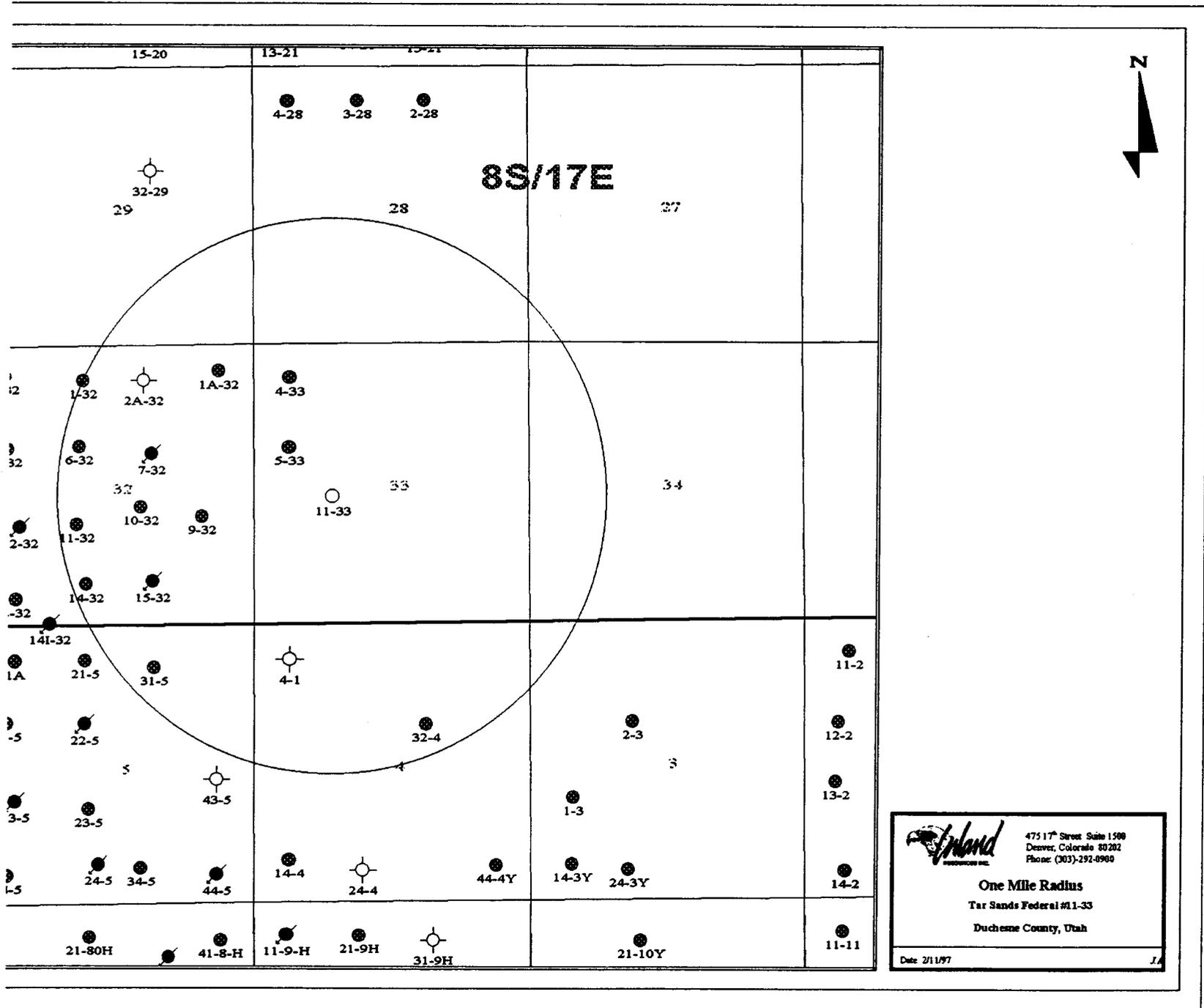
47517th Street Suite 1200
 Denver, Colorado 80232
 Phone: (303) 293-4900

Regional Area

Duchesne County, Utah

Date: 1/29/06 JA

EXHIBIT "D"



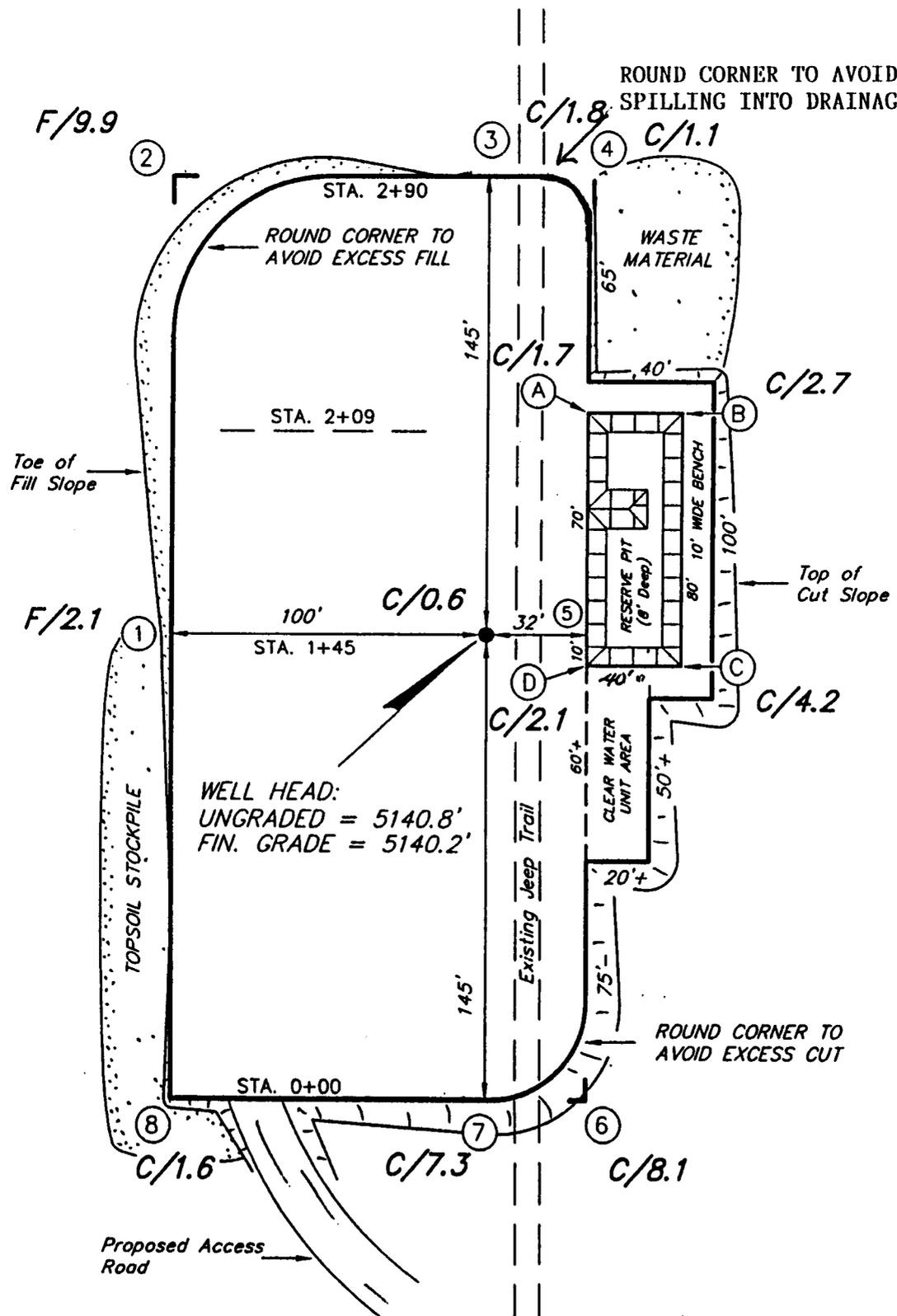
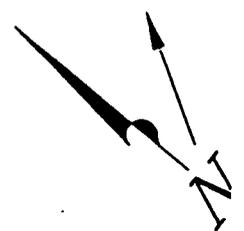
Inland
 47517th Street, Suite 1500
 Denver, Colorado 80202
 Phone: (303) 292-0900

One Mile Radius
 Tar Sands Federal #1-33
 Duchesne County, Utah

Date: 2/1/97 JA

INLAND PRODUCTION COMPANY

PTS GILSONITE EAST #11-33
SEC. 33, T8S, R17E, S.L.B.&M.



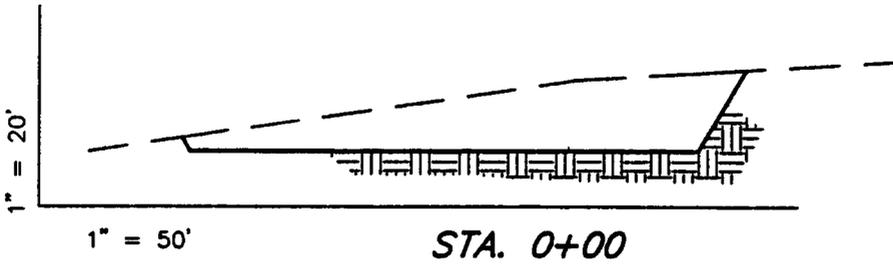
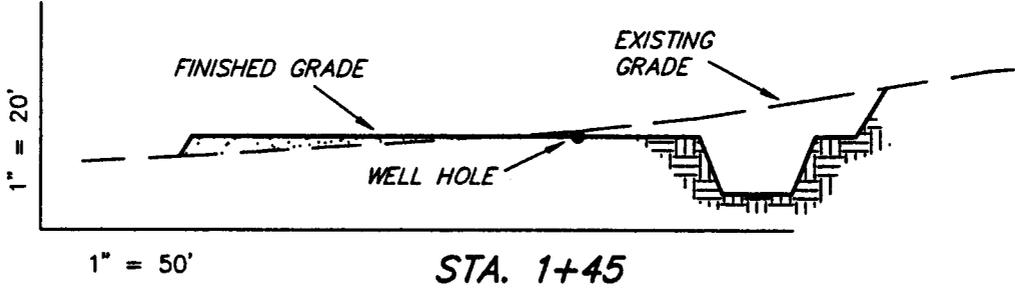
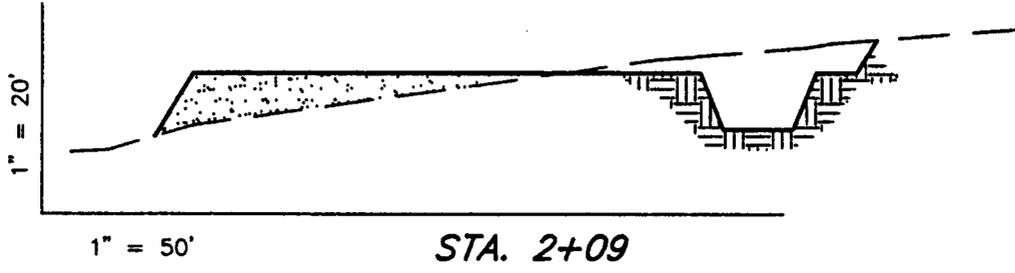
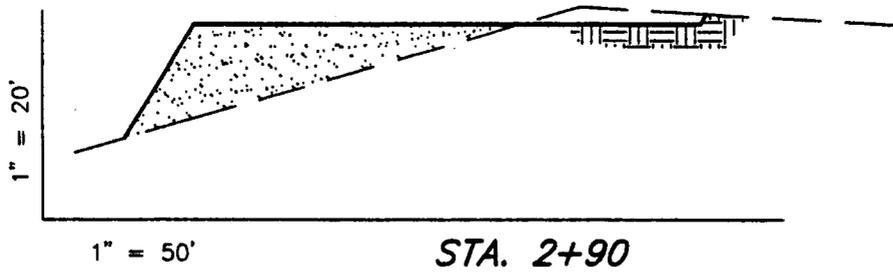
REFERENCE PC

200'	NORTHWE
250'	NORTHWE
195'	SOUTHWE
245'	SOUTHWE

APPROXIMATE

CUT	= 2,260
FILL	= 2,260
PIT	= 390
6" TOPSOIL	=

55 VALING WIND



POINTS

- ST = 5136.2'
- ST = 5140.1'
- ST = 5149.8'
- ST = 5151.0'

YARDAGES

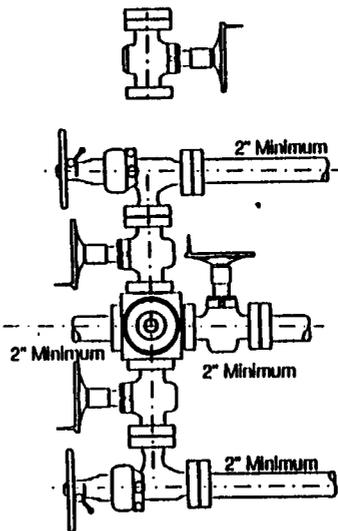
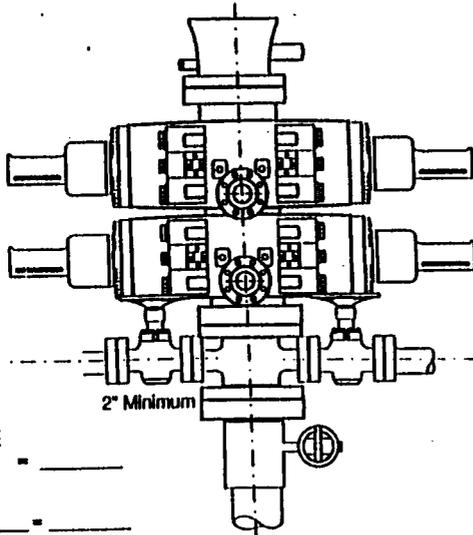
- Cu. Yds.
- Cu. Yds.
- Cu. Yds.
- 800 Cu. Yds.

SURVEYED BY: S.S.
DRAWN BY: J.R.S.
DATE: 12-10-96
SCALE: 1" = 50'
FILE:

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

2-M SYSTEM

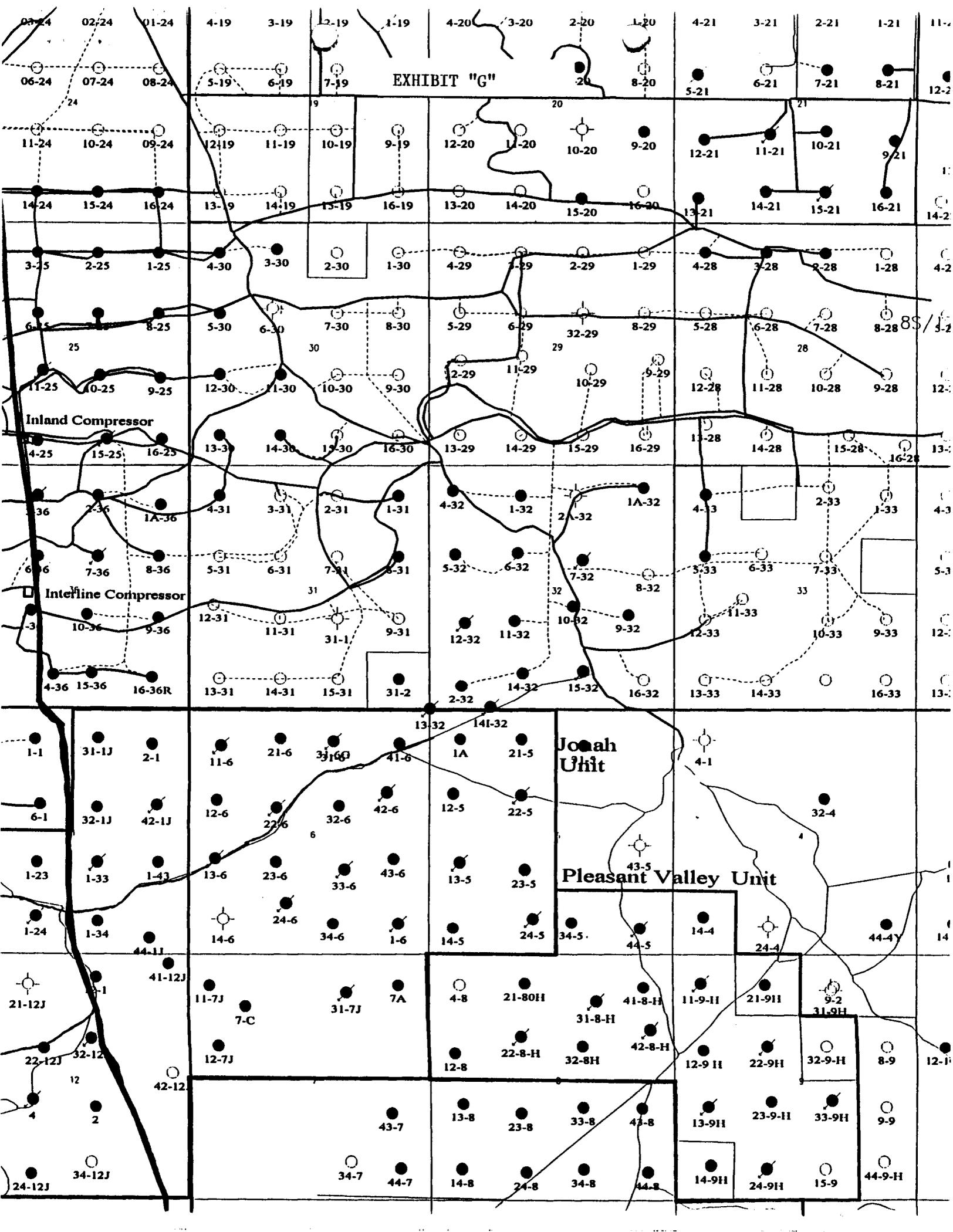
RAM TYPE B.O.P.
 Make:
 Size:
 Model:



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

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

EXHIBIT "G"

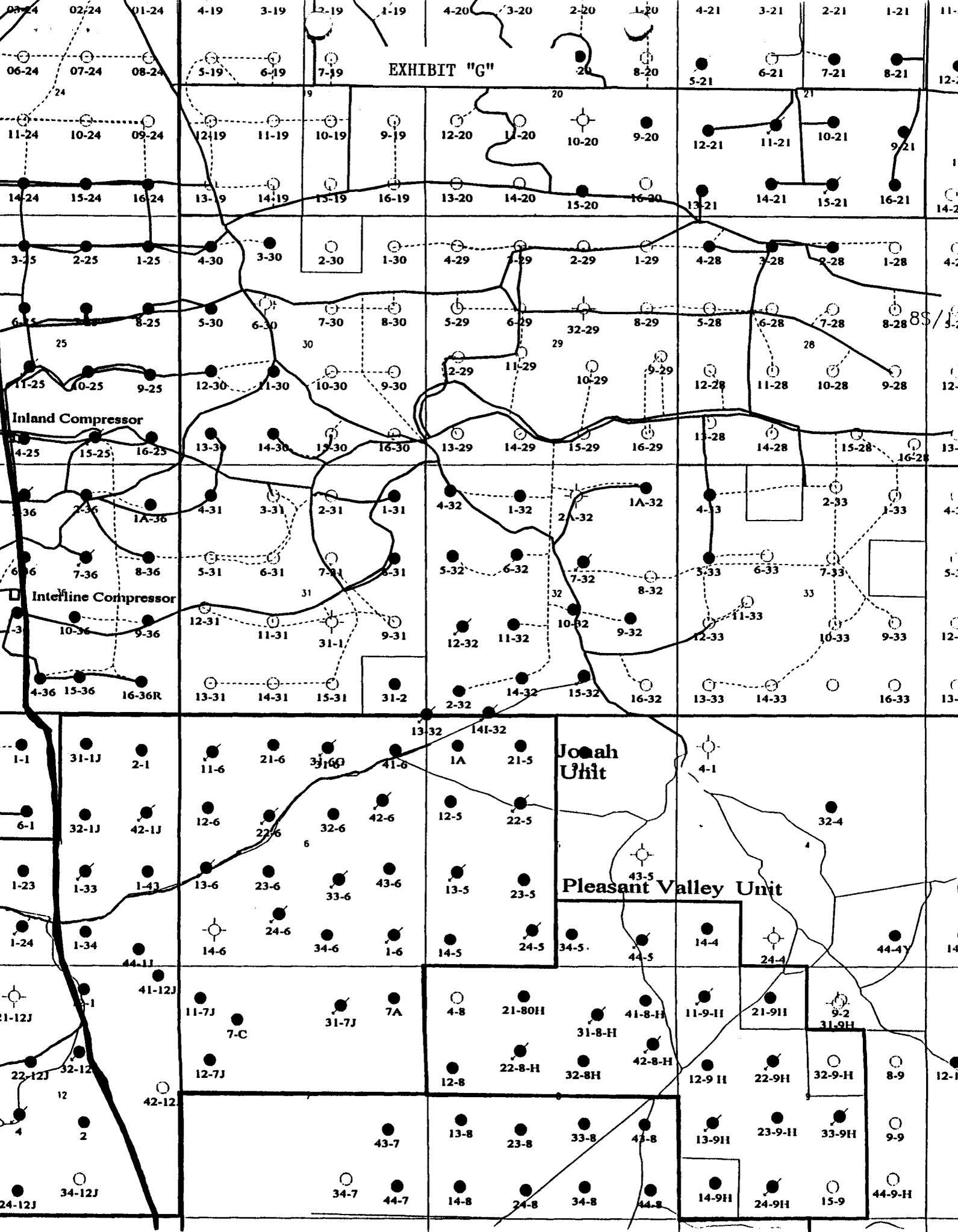


Inland Compressor

Intertine Compressor

Joiah Unit

Pleasant Valley Unit



WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/13/97

API NO. ASSIGNED: 43-013-31861

WELL NAME: TAR SANDS FEDERAL 11-33
OPERATOR: INLAND PRODUCTION COMPANY (N5160)

PROPOSED LOCATION:
NESW 33 - T08S - R17E
SURFACE: 1990-FSL-1871-FWL
BOTTOM: 1990-FSL-1871-FWL
DUCHESNE COUNTY
MONUMENT BUTTE FIELD (105)

LEASE TYPE: FED
LEASE NUMBER: U - 74870

PROPOSED PRODUCING FORMATION: GRRV

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

RECEIVED AND/OR REVIEWED:

Plat
 Bond: Federal State Fee
(Number 4488744)
 Potash (Y/N)
 Oil shale (Y/N)
 Water permit
(Number GILSONI-1 STATE 7-32)
 RDCC Review (Y/N)
(Date: _____)

LOCATION AND SITING:

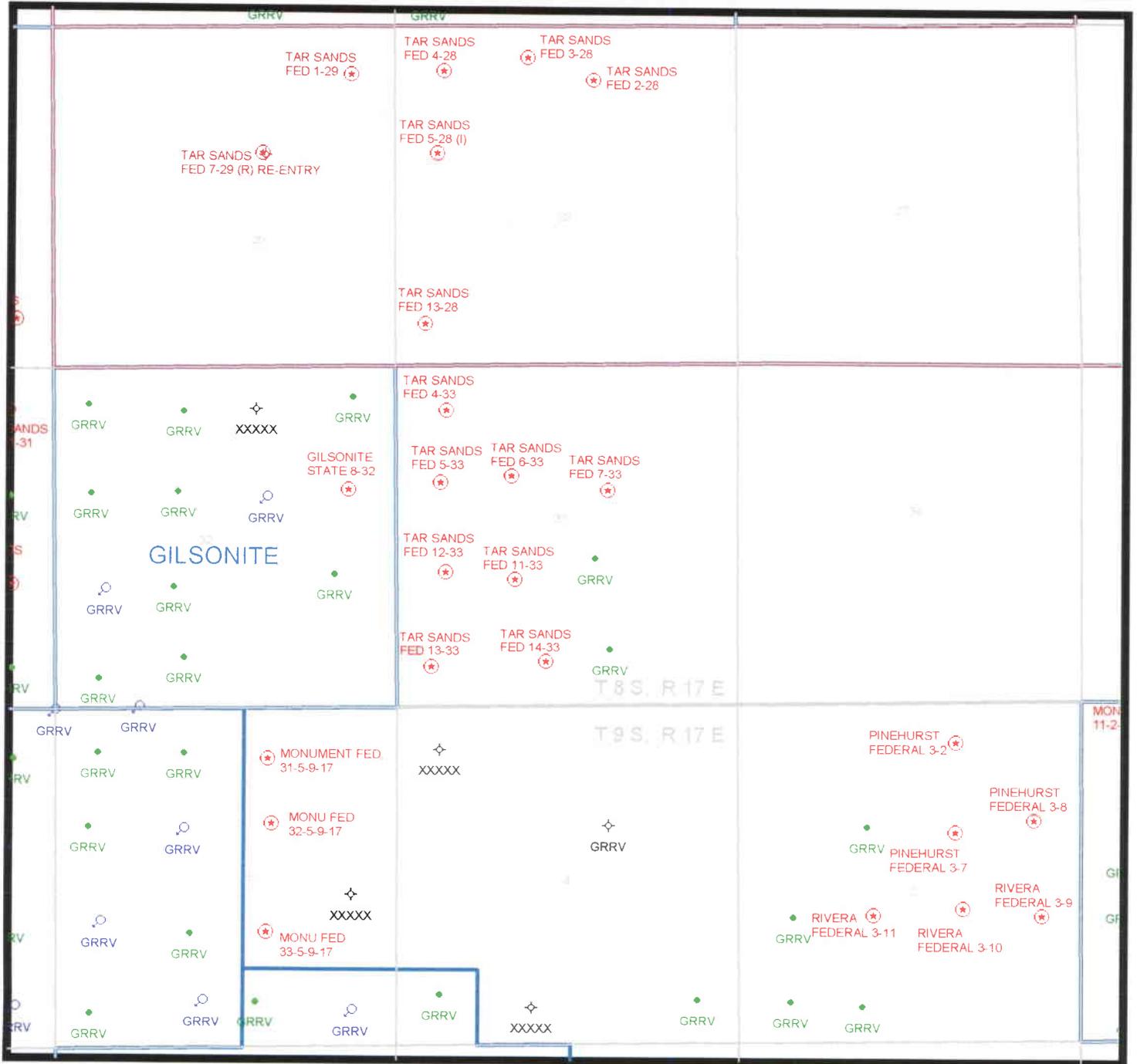
___ R649-2-3. Unit: _____
 R649-3-2. General.
___ R649-3-3. Exception.
___ Drilling Unit.
___ Board Cause no: _____
___ Date: _____

COMMENTS:

Cultural Resource Evaluation, 1/3/97.

STIPULATIONS:

OPERATOR: INLAND (N5160)
FIELD: MONUMENT BUTTE (105)
SECTION: 33, T8S, R17E
COUNTY: DUCHESNE
SPACING: UAC R649-3-2



PREPARED:
DATE: 13-MAR-97



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 25, 1997

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

Re: Tar Sands Federal 11-33 Well, 1990' FSL, 1871' FWL, NE SW,
Sec. 33, 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 43-013-31861.

Sincerely,

A handwritten signature in black ink, appearing to read "R. J. Firth".

R. J. Firth
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 11-33
API Number: 43-013-31861
Lease: U-74870
Location: NE SW Sec. 33 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.

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Tar Sands Federal 11-33

API Number: 43-013-31861

Lease Number: U - 76241

Location: NESW Sec. 33 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 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 zone, identified at 501 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

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

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

5. Coring, Logging and Testing Program

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

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

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

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

6. Notifications of Operations

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

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

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

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

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

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

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

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

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

7. Other Information

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

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

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

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

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

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

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

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

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

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

Ed Forsman (801) 789-7077
Petroleum Engineer

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

Jerry Kenczka (801) 781-1190
Petroleum Engineer

BLM FAX Machine (801) 781-4410

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

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

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spend 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.

CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL

-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.

-It is recommended that if this well becomes a producing well, that the pumping unit be equipped with a multicylinder engine or equipped with a muffler to reduce noise levels in the area.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: INLAND PRODUCTION CO

Well Name: TAR SANDS FEDERAL 11-33

Api No. 43-013-31861

Section: 33 Township: 8S Range: 17E County: DUCHESNE

Drilling Contractor _____

Rig # _____

SPUDDED:

Date 4/24/97

Time _____

How DRY HOLE

Drilling will commence _____

Reported by SUNDRY NOTICE

Telephone # _____

Date: 5/12/97 Signed: JLT

✓

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

OPERATOR ACCT. NO. N 5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QD	SC	TP	RG	COUNTY		
A	99999	12109	43-013-31861	Tar Sands Federal #11-33	NESW	33	8S	17E	Duchesne	4/24/97	4/24/97
WELL 1 COMMENTS: <i>Entity added 4-28-97. Jcc</i>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

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

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

Cheryl Cameron
 Signature Cheryl Cameron
 RCS 4/28/97
 Title _____ Date _____
 Phone No. (801) 789-1866

Facsimile Cover Sheet

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

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

Date: 4/28/97

**Pages Including this
cover page: 2**

**Comments: Entlty Action Form 6 for the Tar Sands Federal
#11-33.**

**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)
**NE/SW 1989.8' FSL & 1870.8' FWL
 Sec. 33, T8S, R17E**

5. Lease Designation and Serial No.
U-76241

6. If Indian, Allottee or Tribe Name

7. If unit or CA, Agreement Designation
Tar Sands Federal

8. Well Name and No.
#11-33

9. API Well No.
43-013-31861

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 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>Surface Hole Spud</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 w/ Leon Ross Rathole Rig to 305'. Set 291.97' of 8 5/8" 24# J-55 csg. Pump 5 bbls dye wtr & 10 bbls gel wtr. Cmt w/ 120 sx Prem + w/ 2% CaCl + 1/4#/sk flocele mixed @ 14.8 PPG W/ 1.37 ft/sk yield. Full returns w/ 6 bbls cmt to surface.

SPUD SURFACE HOLE ON 4/24/97

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

Signed *Cheryl Cameron* Title **Regulatory Compliance Specialist** Date **4/29/97**
Cheryl Cameron

(This space of Federal or State office use.)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

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

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)

NE/SW 1989.8' FSL & 1870.8' FWL Sec. 33, T8S, R17E

5. Lease Designation and Serial No.

U-76241

6. If Indian, Allottee or Tribe Name

7. If unit or CA, Agreement Designation

Tar Sands Federal

8. Well Name and No.

#11-33

9. API Well No.

43-013-31861

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

Notice of Intent Subsequent Report Final Abandonment Notice

TYPE OF ACTION

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 5/2/97 - 5/14/97:

Drilled 7 7/8" hole w/ Caza, Rig #59 from 305'-5900'. Run 5897.93' of 5 1/2" 15# J-55 csg. Pump 20 bbls dye wtr & 20 bls gel. Cmt w/ 455 sx Hibond 65 Mod w/ 65% POZ, .3% EX-1, 10% gel, 2% Microbond, 1# granulite/sk, 3# silicalite/sk, 3% salt mixed @ 11.0 PPG W/ 3.0 ft/sk yield. Followed by 310 sx Thixo, 10% CalSeal mixed @ 14.2 PPG W/ 1.59 ft/sk yield. Good returns to surf w/ dye wtr back. RDMOL.

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

Signed Cheryl Cameron Cheryl Cameron

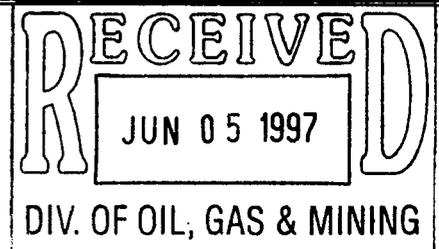
Title Regulatory Compliance Specialist Date 5/15/97

(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.

*See Instruction on Reverse Side



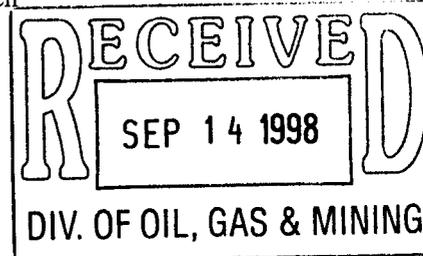
STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

1. SUNDRY NOTICES AND REPORTS ON WELLS (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.) OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> INJECTION		5. LEASE DESIGNATION AND SERIAL NO. UTU-77234 6. IF INDIAN, ALLOTTEE OR TRIBAL NAME N/A 7. UNIT AGREEMENT NAME NA 8. FARM OR LEASE NAME TAR SANDS FED 11-33 9. WELL NO. 11-33 10. FIELD AND POOL, OR WILDCAT MONUMENT BUTTE 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE/SW Section 33, T08S R17E	
2. NAME OF OPERATOR INLAND PRODUCTION COMPANY 3. ADDRESS OF OPERATOR 410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102		12. COUNTY OR PARISH DUCHESNE 13. STATE UT	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE/SW 1990 FSL 1871 FWL		14. API NUMBER 43-013-31861 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5140.2 GR 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) <u>Change in Lease Number</u> <input checked="" type="checkbox"/> (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.)*

Due to unitization, the lease number for the above referenced well has been changed from U-74870 to UTU-77234.



18. I hereby certify that the foregoing is true and correct
 SIGNED Debbie E. Knight TITLE Manager, Regulatory Compliance DATE 9/11/98

(This space for Federal or State office use)
 APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

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-77234

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA, Agreement Designation
NA

8. Well Name and No.
TAR SANDS FED 11-33

9. API Well No.
43-013-31861

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

11. County or Parish, State
DUCHESNE COUNTY, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
INLAND PRODUCTION COMPANY

3. Address and Telephone No.
410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)
1990 FSL 1871 FWL NE/SW Section 33, T08S R17E

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

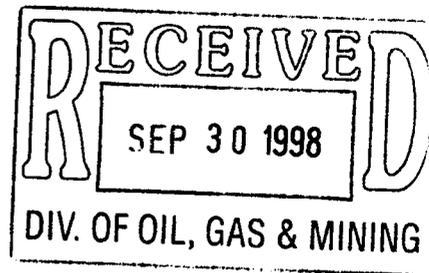
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input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

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

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

WEEKLY STATUS REPORT FOR THE PERIOD OF 9/10/98 - 9/23/98

Perf D sds @ 4892-99'.
Swab.
Place well on production @ 10:00 am, 9/18/98.



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

Signed Shannon Smith Title Engineering Secretary Date 9/28/98

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

CC: UTAH DOGM

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

5. LEASE DESIGNATION AND SERIAL NO.

UTU-77234

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WORK

OIL WELL GAS WELL DRY Other _____

1b. TYPE OF WELL

NEW WELL WORK OVER DEEPEN PLUG BACK DIFF RESVR. Other _____

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

TAR SANDS FEDERAL 11-33

2. NAME OF OPERATOR

INLAND RESOURCES INC.

9. API WELL NO.

43-013-31861

3. ADDRESS AND TELEPHONE NO.

410 17th St. Suite 700 Denver, CO 80202

10. FIELD AND POOL OR WILDCAT

MONUMENT BUTTE

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

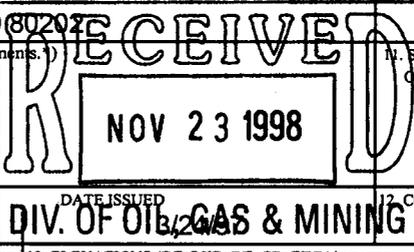
At Surface

NE/SW

At top prod. Interval reported below **1989 FSL 1870 FWL**

At total depth

14. PERMIT NO.
43-013-31861



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

Section 33, T08S R17E

12. COUNTY OR PARISH
DUCHESNE

13. STATE
UT

15. DATE SPUNDED
4/24/97

16. DATE T.D. REACHED
5/13/97

17. DATE COMPL. (Ready to prod.)
9/18/98

18. ELEVATIONS (OF RCB, RT, OR, ETC.)
5153' KB 5140' GL

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD
5900'

21. PLUG BACK T.D., MD & TVD
5849'

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 4892' - 4899'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIGL/SP/GR/CAL - CN/CD/GR 11-23-98

27. WAS WELL CORED

No

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8	24#	291'	12-1/4	120 sx Premium Plus	
5-1/2	15.5#	5890'	7-7/8	455 sx Hibond 65 Modified	
				310 sx Thixotropic	

29. LINER RECORD

30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8	EOT @ 4980'	TA @ 4854'

31. PERFORATION RECORD (Interval, size and number)

INTERVAL D 4892-99'
SIZE 4 SPF
NUMBER 28 Holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4892' - 4899'	102,800# 20/40 sd in 500 bbls Viking I-25

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)	WELL STATUS (Producing or shut-in)					
9/18/98	2-1/2" x 1-1/2" x 15' RHAC Pump	Producing					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
10 day ave	9/1/98		→	5	18	1	3.60
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 In Item #26

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

SIGNED Shaunna Smith

TITLE Engineering Secretary

DATE 11/10/98

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

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

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	TOP		TRUE VERT. DEPTH
				NAME	MEAS. DEPTH	
Garden Gulch Mkr	3825'					
Garden Gulch 2	4128'					
Point 3 Mkr	4405'					
X Mkr	4636'					
Y-Mkr	4672'					
Douglas Creek Mkr	4805'					
BiCarbonate Mkr	5050'					
B Limestone Mkr	5197'					
Castle Peak	5630'					
Basal Carbonate	NDE					
Total Depth	5900'					

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

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

OPERATOR ACCT. NO. N5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D	11679	12704	43-013-31452	Federal #44-4Y	SESE	4	9S	17E	Duchesne		3/1/2000
WELL 2 COMMENTS: Moved well to BlackJack Unit <i>000514 Entity Added.</i>											
<input checked="" type="checkbox"/>	11987	12704	43-013-31680	Monument Federal #31-5	NWNE	5	9S	17E	Duchesne		3/1/2000
WELL 2 COMMENTS: Moved well to BlackJack Unit <i>000514 Entity Added.</i>											
D	12102	12704	43-013-31107	Pleasant Valley Fed #31R-9H	NWNE	9	9S	17E	Duchesne		3/1/2000
WELL 3 COMMENTS: Moved well to BlackJack Unit <i>000514 Entity Added.</i>											
D	12109	12704	43-013-31861	Tar Sands Federal #11-33	NESW	33	8S	17E	Duchesne		3/1/2000
WELL 4 COMMENTS: Moved well to BlackJack Unit <i>000514 Entity Added.</i>											
<input checked="" type="checkbox"/>	12458	12704	43-013-31884	Tar Sands Federal #10-33	NWSE	33	8S	17E	Duchesne		3/1/2000
WELL 5 COMMENTS: Moved well to BlackJack Unit <i>000514 Entity Added.</i>											

ACTION CODES (See instructions on back of form)

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

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

RECEIVED

MAY 11 2000

DIVISION OF
 OIL, GAS AND MINING

Kelcie Jones
 Signature
 Production Clerk
 Title
 May 9, 2000
 Date



April 28, 2003

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

RE: Permit Application for Water Injection Well
Tar Sands Federal #11-33-8-17 *INDIAN COUNTRY*
Monument Butte Field, Black Jack Unit, Lease #UTU-77234
Section 33-Township 8S-Range 17E
Duchesne County, Utah

Dear Mr. Jarvis:

Inland Production Company herein requests approval to convert the Tar Sands Federal #11-33-8-17 from a producing oil well to a water injection well in the Monument Butte (Green River) Field, Black Jack Unit.

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

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

Sincerely,

David Gerbig
Operations Engineer

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

RECEIVED

JUN 19 2003

DIV. OF OIL, GAS & MINING

INLAND PRODUCTION COMPANY
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL
TAR SANDS FEDERAL #11-33-8-17
MONUMENT BUTTE FIELD (GREEN RIVER) FIELD
BLACK JACK UNIT
LEASE #UTU-77234
APRIL 28, 2003

RECEIVED
JUN 19 2003
DIV. OF OIL, GAS & MINING

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ATTACHMENT H-1	WELLBORE DIAGRAM OF PROPOSED PLUGGED WELL

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

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

Well Name and number: Tar Sands Federal 11-33-8-17
Field or Unit name: Monument Butte (Green River) Black Jack Unit Lease No. UTU-77234
Well Location: QQ NE/SW section 33 township 8S range 17E county Duchesne

Is this application for expansion of an existing project? Yes [X] No []
Will the proposed well be used for: Enhanced Recovery? Yes [X] No []
Disposal? Yes [] No [X]
Storage? Yes [] No [X]
Is this application for a new well to be drilled? Yes [] No [X]
If this application is for an existing well,
has a casing test been performed on the well? Yes [] No [X]
Date of test: _____
API number: 43-013-31861

Proposed injection interval: from 4128' to 5900'
Proposed maximum injection: rate 500 bpd pressure 3289 psig
Proposed injection zone contains [x] oil, [] gas, and/or [] fresh water within 1/2 mile of the well.

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

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

I certify that this report is true and complete to the best of my knowledge.
Name: David Gerbig Signature David Gerbig
Title Operations Engineer Date 6-17-03
Phone No. (303)893-0102

(State use only)
Application approved by _____ Title _____
Approval Date _____

Comments:

Tar Sands Federal #11-33-8-17

Spud Date: 5/3/97
 Put on Production: 9/18/98
 GL: 5140' KB: 5153'

Initial Production: 5 BOPD;
 18 MCFD; 1 BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (291.97')
 DEPTH LANDED: 291.90 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: 141 jts. (5897.93)
 DEPTH LANDED: 5890' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 455 sx Hybond mixed & 310 sx thixotropic
 CEMENT TOP AT: Surface

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#
 NO. OF JOINTS: 157 jts (4840.60')
 TUBING ANCHOR: 4854'
 SEATING NIPPLE: 2-7/8"
 TOTAL STRING LENGTH: 4981'
 SN LANDED AT: 4919'

Proposed Injection Wellbore Diagram



FRAC JOB

9/11/98 4892'-4899' **Frac D-2 sand as follows:**
 RU BJ Services & frac D sds w/102,800#
 20/40 sd in 500 bbls Viking I-25 fluid.
 Perfs broke dn @ 2340 psi. Treated @ ave
 press of 1890 psi w/ave rate of 26.5 BPM.
 ISIP: 3300 psi.

PERFORATION RECORD

9/11/98 4892'-4899' 4 JSPF 28 holes



Inland Resources Inc.

Tar Sands Federal #11-33-8-17

1990 FSL 1871 FWL
 NE/SW Section 33-T8S-R17E
 Duchesne Co, Utah
 API #43-013-31861; Lease #UTU-77234

WORK PROCEDURE FOR INJECTION CONVERSION

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

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

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

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

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

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

See Attachment A.

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

Approval is requested to convert the Tar Sands Federal #11-33-8-17 from a producing oil well to a water injection well in Monument Butte (Green River) Field, Sand Wash Unit.

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

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

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

17 The injection zone is in the Green River Formation. In the Tar Sands Federal #11-33-8-17 well, the proposed injection zone is from Garden Gulch to Basal Limestone (4128' - 5900'). We may add additional perms to those already existing; any additional perms will be detailed in a Sundry Notice at that time. The confining strata directly above and below the injection zones are the Garden Gulch and Castle Peak Members of the Green River Formation, with the Garden Gulch Marker top at 4128' and the Castle Peak top at 5630'.

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

The referenced log for the Tar Sands Federal #11-33-8-17 is on file with the Utah Division of Oil, Gas and Mining.

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

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

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

See Attachment B.

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

See Attachment C.

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

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

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

This proposed injection well is on a Federal lease (Lease #UTU-77234) in the Monument Butte (Green River) Field, Black Jack Unit, and this request is for administrative approval.

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

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

- 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and B.

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

All logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

- 2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24#, J-55 surface casing run to 292' GL, and 5-1/2" 15.5# J-55 casing run from surface to 5890' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

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

The primary type and source of fluid to be used for injection will be culinary water from the Johnson Water District supply line. The secondary type of fluid to be used for injection will be culinary water from the Johnson Water District commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

- 2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.

The proposed average and maximum injection pressures.

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 3289 psig.

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

The minimum fracture gradient for the Tar Sands Federal #11-33-8-17, for existing perforations (4892' - 4899') calculates at 1.11 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 3289 psig. At the time of conversion, we may add additional perforations between 4012' and 5900', and will detail the work performed in a Sundry Notice. See Attachments G and G-1.

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

In the Tar Sands Federal #11-33-8-17, the proposed injection zone (4128' - 5900') is in the Garden Gulch to Basal limestone members of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Field. Outside the Monument Butte Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

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

See Attachments E through E-10.

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

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

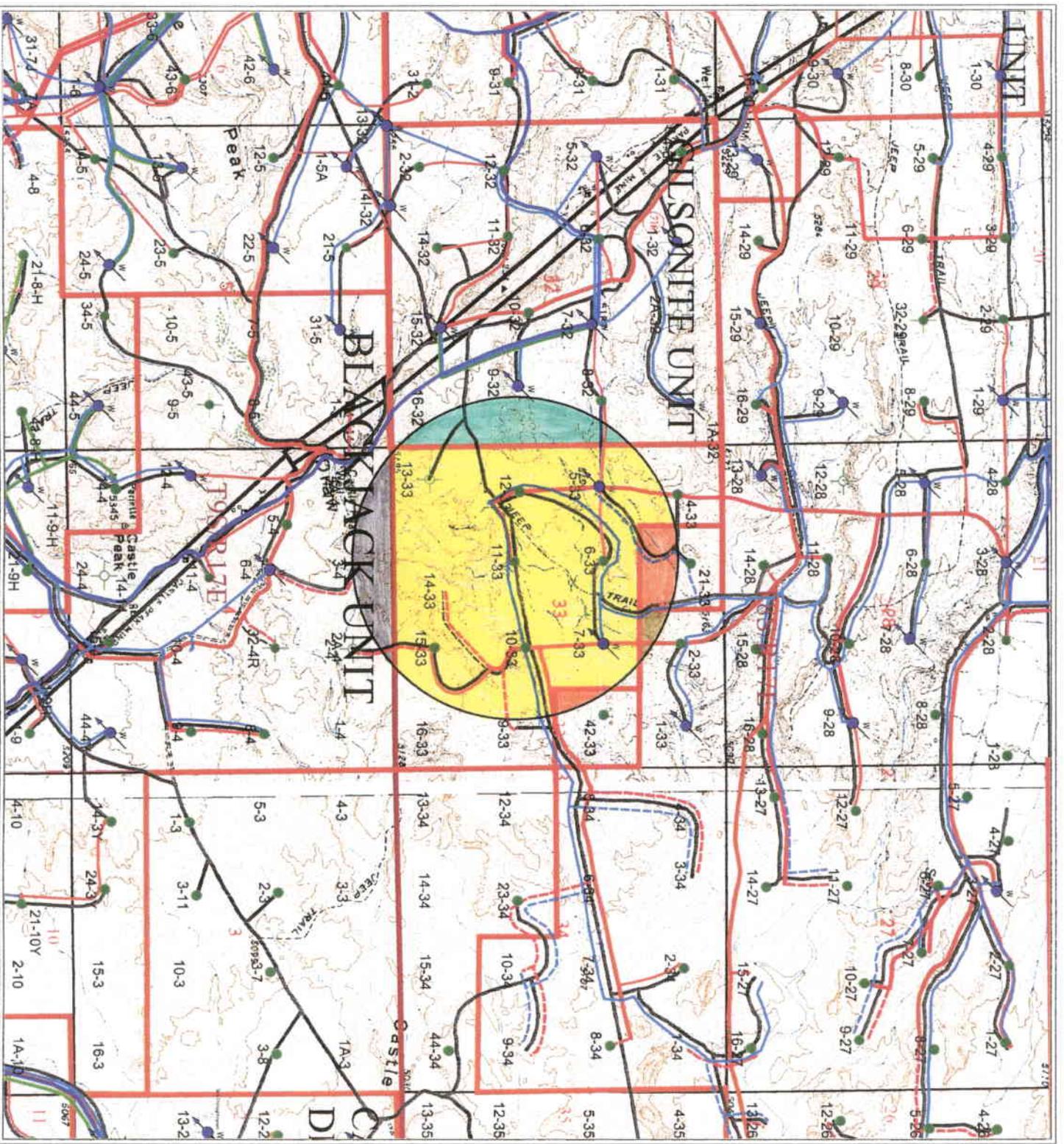
See Attachment C.

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

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

Attachment A

Well Status



● POW
● PGW
● WSW
● SI
● PA
● DRY
● LOC
● WOC
● Water Source 4"
● Water 4" High Pressure
● Water HP 2" to 3"
● Proposed High Pressure Water
● Water 3" High Pressure
● Water Reclaim
● Periphery
● Quasar
● Johnson Water
● Mining Tract
— Gathering Lines
— 2"
— 3"
— 4"
— 6"
— 8"
— 10"
— Proposed
— Paved
— Dirt
— Proposed
— Two Track
— Private
— Unit Outlines

1/2 Mile Radius Map
 UENYA BASIN, UTAH
 District of Utah's Counties, Utah
 410 W. State, Suite 700
 Denver, Colorado 80202
 Phone: (303) 955-0182

Tar Sands Federal 11-33
 Sec. 33, T8S-R17E
 April 14, 2003

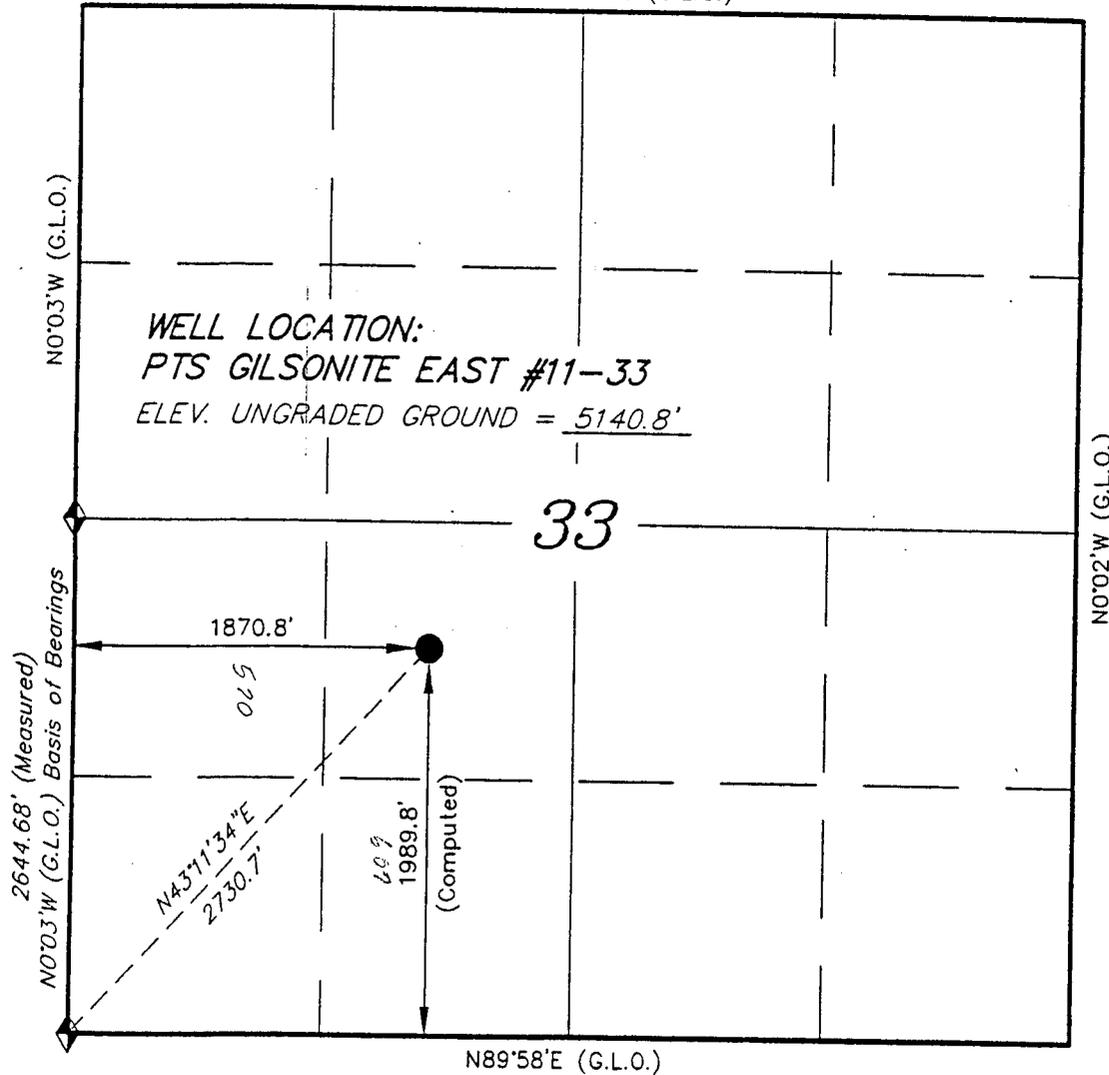
EXHIBIT B

Page 1

#	Land Description	Minerals Ownership & Expiration	Minerals Leased By	Surface Rights
1	<u>Township 8 South, Range 17 East</u> Section 33: SWNE, W2NW, SENW, S2	UTU-77234 HBP	Inland Production Company	USA
2	<u>Township 8 South, Range 17 East</u> Section 26: S2SW, SWSE Section 27: All Section 28: All Section 34: N2, N2SE	UTU-76241 HBP	Inland Production Company	USA
3	<u>Township 9 South, Range 17 East</u> Section 4: Lots 1-12, SENW, S2NE, N2SE	UTU-75038 HBP	Inland Production Company Smith Energy Partnership Fred Lieber	USA
4	<u>Township 8 South, Range 17 East</u> Section 32: All	ML-22060 HBP	Inland Production Company Key Production Company Inc. Goldrus Drilling King Oil & Gas Texas Ltd. Jasper N. Warren	State of Utah
5	<u>Township 8 South, Range 17 East</u> Section 33: NENW, SENE Section 34: SESW, SESE	UTU-76955 HBP	Wildrose Resources Corporation	USA

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

N89°58'E - 79.98 (G.L.O.)



WELL LOCATION:
PTS GILSONITE EAST #11-33
ELEV. UNGRADED GROUND = 5140.8'

33

1870.8'

5140

N43°11'34"E
2730.7'

669
1989.8'
(Computed)

N89°58'E (G.L.O.)

2644.68' (Measured)
N0°03'W (G.L.O.) Basis of Bearings

N0°02'W (G.L.O.)

◆ = SECTION CORNERS LOCATED

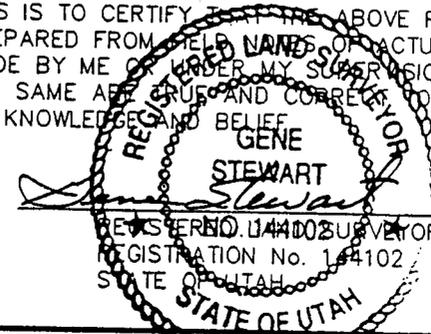
BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)

INLAND PRODUCTION COMPANY

WELL LOCATION, PTS GILSONITE EAST #11-33, LOCATED AS SHOWN IN THE NE 1/4 SW 1/4 OF SECTION 33, T8S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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



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

SCALE: 1" = 1000'	SURVEYED BY: S.S.
DATE: 12-10-96	WEATHER: COLD
NOTES:	FILE #

Attachment A-1

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well
Tar Sands Federal #11-33-8-17

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

Signed: David Gerbig
Inland Production Company
David Gerbig
Operations Engineer

Sworn to and subscribed before me this 17 day of June, 2003.

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

My Commission Expires: 8/29/03

Tar Sands Federal #11-33-8-17

Spud Date: 5/3/97
 Put on Production: 9/18/98
 GL: 5140' KB: 5153'

Initial Production: 5 BOPD;
 18 MCFD; 1 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (291.97')
 DEPTH LANDED: 291.90 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: 141 jts. (5897.93)
 DEPTH LANDED: 5890' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 455 sx Hybond mixed & 310 sx thixotropic
 CEMENT TOP AT: Surface

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#
 NO. OF JOINTS: 157 jts (4840.60')
 TUBING ANCHOR: 4854'
 SEATING NIPPLE: 2-7/8"
 TOTAL STRING LENGTH: 4981'
 SN LANDED AT: 4919'

SUCKER RODS

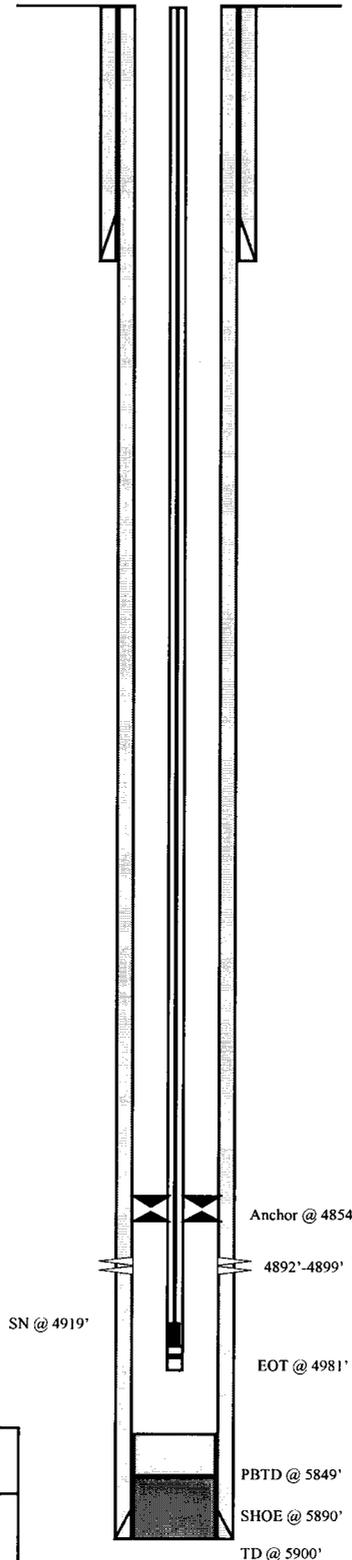
POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 4-1 1/2" weight bars; 4-3/4" scapered rods; 92-3/4" plain rods; 96-3/4" scapered rods; 1-8", 1-2" x 1/2" pony rods.
 PUMP SIZE: 2-1/2 x 1-1/2 x 15' RHAC pump
 STROKE LENGTH: 74"
 PUMP SPEED, SPM: 9 SPM
 LOGS: DIGL/SP/GR/CAL
 SDL/DSN/GR

FRAC JOB

9/11/98 4892'-4899' **Frac D-2 sand as follows:**
 RU BJ Services & frac D sds w/102,800#
 20/40 sd in 500 bbls Viking I-25 fluid.
 Perfs broke dn @ 2340 psi. Treated @ ave
 press of 1890 psi w/ave rate of 26.5 BPM.
 ISIP: 3300 psi.

PERFORATION RECORD

9/11/98 4892'-4899' 4 JSPF 28 holes



Inland Resources Inc.
Tar Sands Federal #11-33-8-17
 1990 FSL 1871 FWL
 NE/SW Section 33-T8S-R17E
 Duchesne Co, Utah
 API #43-013-31861; Lease #UTU-77234

Spud Date: 3/2/98
 Put on Production: 4/13/98
 GL: 5129' KB: 5142'

Harbourtown Federal #21-33-8-17

Initial Production: 74 BOPD,
 40 MCFPD, 0 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (289')
 DEPTH LANDED: 299' KB
 HOLE SIZE: 12 1/4"
 CEMENT DATA: 200 sxs cmt. Cement to surface.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 138 jts.
 DEPTH LANDED: 5909' KB
 HOLE SIZE: 7 7/8"
 CEMENT DATA: 130 sxs Hi-fill + 380 sxs 50-50 POZ.
 CEMENT TOP AT: 1350' per CBL

TUBING

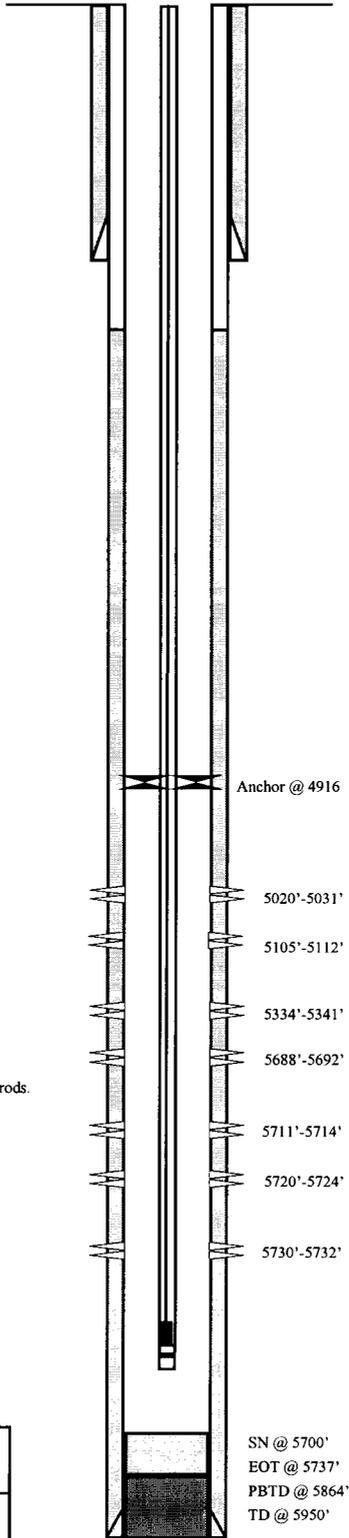
SIZE/GRADE/WT.: 2-7/8"
 NO. OF JOINTS: 156 jts.
 TUBING ANCHOR: 4916' KB
 NO. OF JOINTS: 25 jts.
 SEATING NIPPLE: 5700' KB
 NO. OF JOINTS: 1 jt. Perf sub (6')
 NO. OF JOINTS: 1 jt.
 TOTAL STRING LENGTH: 5737' KB

SUCKER RODS

POLISHED ROD: 1 1/2" x 22'
 SUCKER RODS: 150 -3/4" rods, 76 -7/8" rods, 1-4', 1-6' x 7/8" pony rods.
 PUMP SIZE: 2 1/2" x 1 1/2" x 16'
 STROKE LENGTH:
 PUMP SPEED, SPM:
 LOGS: DIGL/SP/GR/CAL, SDL/DSN/GR, CBL

FRAC JOB

3/18/98	5688'-5732'	Frac zone as follows: 70,500# 20/40 sand in 426 bbls DeltaGel frac fluid. Treated @ avg press of 1400 psi w/avg rate of 25 BPM. ISIP 1508 psi. Calc flush: 5688 gal. Actual flush: 5856 gal.
3/20/98	5334'-5341'	Frac zone as follows: 40,700# 20/40 sand in 305 bbls DeltaGel frac fluid. Treated @ avg press of 1800 psi w/avg rate of 20 BPM. ISIP 2107 psi. Calc flush: 5334 gal. Actual flush: 5416 gal.
3/24/98	5020'-5112'	Frac zone as follows: 100,000# 20/40 sand in 532 bbls DeltaGel frac fluid. Treated @ avg press of 1900 psi w/avg rate of 26 BPM. ISIP 2639 psi. Calc flush: 5020 gal. Actual flush: 4978 gal.



PERFORATION RECORD

Date	Interval	Number of Holes
3/17/98	5688'-5692'	4 JSPF 16 holes
3/17/98	5711'-5714'	4 JSPF 12 holes
3/17/98	5720'-5724'	4 JSPF 16 holes
3/17/98	5730'-5732'	4 JSPF 08 holes
3/20/98	5334'-5341'	4 JSPF 28 holes
3/22/98	5105'-5112'	2 JSPF 14 holes
3/22/98	5020'-5031'	2 JSPF 22 holes



Inland Resources Inc.
Harbourtown Federal #21-33-8-17
 513 FNL & 1938 FWL
 NENW Section 33-T8S-R17E
 Duchesne Co, Utah
 API #43-013-31914

Spud Date: 8/12/96
 Put on Production: 9/9/96
 GL: 5142' KB: 5155'

Tar Sands Federal #4-33-8-17

Initial Production: 73 BOPD,
 97 MCFPD, 3 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (287.03')
 DEPTH LANDED: 285.93' GL
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 120 sxs Premium cmt, est 8 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 141 jts. (6068.26')
 DEPTH LANDED: 6055' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 350 sk Hybond mixed & 335 sxs thixotropic
 CEMENT TOP AT: Surface per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#
 NO. OF JOINTS: 183 jts (5719.07')
 TUBING ANCHOR: 5732.07' KB
 NO. OF JOINTS: 2 jts (62.63')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 5797.50' KB
 NO. OF JOINTS: 1 jt (31.50')
 TOTAL STRING LENGTH: EOT @ 5830.55' KB
 Bottom 8 jts new M-50 tbg. Wear area: 5300'-5500'

SUCKER RODS

POLISHED ROD: 2-1/2" x 22' SM
 SUCKER RODS: 7-1" scraper rods, 5-3/4" scraper rods, 116-3/4" plain rods, 103-3/4" scraper rods, 1-8" x 3/4" pony rod.
 PUMP SIZE: 2-1/2" x 1-1/2" x 16 RHAC pump
 STROKE LENGTH: 76"
 PUMP SPEED, SPM: 4 SPM
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

FRAC JOB

8/28/96 5749'-5759' **Frac CP-1 sand as follows:**
 100,800# of 20/40 sand in 513 bbls of Boragel. Breakdown @ 2810 psi. Treated @ avg rate of 20 bpm w/avg press of 1450 psi. ISIP-1923 psi, 5-min 1736 psi. Flowback on 12/64" ck for 3 hrs and died.

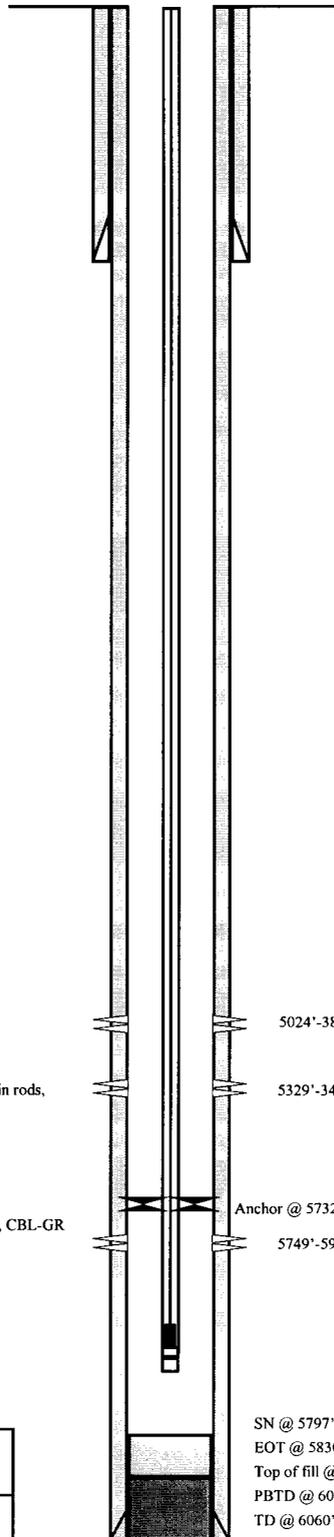
8/30/96 5329'-5334' **Frac A-2 sands as follows:**
 100,500# of 20/40 sand in 512 bbls of Boragel. Breakdown @ 2804 psi. Treated @ avg rate of 21 bpm w/avg press of 2300 psi. ISIP-2958 psi, 5-min 2914 psi. Flowback on 12/64" ck for 2-1/2 hrs and died.

9/4/96 5024'-5038' **Frac C sand as follows:**
 102,700# of 20/40 sand in 514 bbls of Boragel. Breakdown @ 1580 psi. Treated @ avg rate of 20.3 bpm w/avg press of 2400 psi. ISIP-3944 psi, 5-min 3544 psi. Flowback on 12/64" ck for 1-1/2 hrs and died.

4/29/02 Tubing leak. Update rod and tubing details.

PERFORATION RECORD

8/27/96	5749'-5759'	4 JSPF	40 holes
8/29/96	5329'-5334'	4 JSPF	20 holes
8/31/96	5024'-5038'	4 JSPF	52 holes





Inland Resources Inc.

Tar Sands Federal #4-33-8-17

720 FNL & 805 FWL

NWNW Section 33-T8S-R17E

Duchesne Co, Utah

API #43-013-31664; Lease #U-74870

Tar Sands Federal #7-33

Spud Date: 4/28/97
 Put on Production: 11/22/97
 GL: 5113' KB: 5126' (13'KB)

Initial Production: 101 BOPD;
 90 MCFD; 0 BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (290.48")
 DEPTH LANDED: 288.56' GL
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 120 sxs Premium cmt, est 8 bbls to surf.

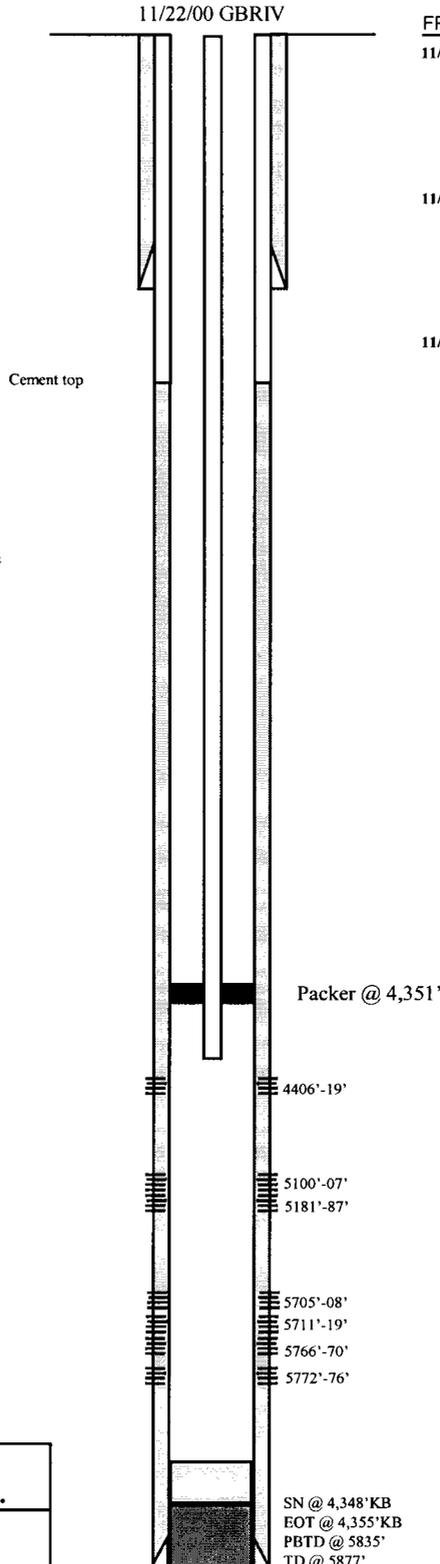
PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 137 jts. (5878')
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 295 sxs Hibond mixed & 255 sxs thixotropic
 CEMENT TOP AT:
 SET AT: 5877'

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5# @ 4,345'
 NO. OF JOINTS: 139 jts
 PACKER: 4,351'
 SEATING NIPPLE: 2-7/8"
 TOTAL STRING LENGTH: EOT @ 4,355'
 SN LANDED AT: 4,348'

Injection Wellbore Diagram



FRAC JOB

11/14/97 5705'-5776' **Frac CP sand as follows:**
 95,300# 20/40 sand in 513 bbls of Delta frac. Breakdown @ 2516 psi, treated @ avg rate 28.1 bpm w/avg press of 1550 psi. ISIP-1791 psi, 5-min 1665 psi. Start flowback on 12/64" ck for 3-1/2 hrs and died.

11/17/97 5100'-5187' **Frac B sand as follows:**
 115,300# of 20/40 sand in 555 bbls of Delta frac. Breakdown @ 2340 psi. Treated @ avg rate 26 bpm w/avg press of 1730 psi. ISIP-2156 psi, 5-min 2027 psi. Start flowback on 12/64" ck for 4 hrs & died.

11/19/97 4406'-4419' **Frac GB sand as follows:**
 88,300# of 20/40 sand in 457 bbls of Delta frac. Breakdown @ 3024 psi. Treated @ avg rate 24.1 bpm w/avg press of 1800 psi. ISIP-2205 psi, 5-min 2137 psi. Start flowback on 12/64" ck for 3 hrs & died.



Inland Resources Inc.

Tar Sands Federal #7-33

1943 FNL 2009 FEL

SWNE Section 33-T8S-R17E

Duchesne Co, Utah

API #43-013-31860; Lease #U-77234

Tar Sands Federal #6-33-8-17

Spud Date: 4/25/97
 Put on Production: 6/10/97
 GL: 5149' KB:5162'

Initial Production: 135 BO,
 197 MCFPD, 13 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts.(286.27')
 DEPTH LANDED: 285.37' 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: 140 jts. (5926.66')
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 385 sxs Hibond mixed & 315 sxs thixotropic
 CEMENT TOP AT: 664 per CBL
 LANDED: 5902'KB

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#
 NO. OF JOINTS: 181 jts (5613.67)
 TUBING ANCHOR: 5616.47'
 NO. OF JOINTS: 2 jts (5677.09')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 5678.19' KB
 NO. OF JOINTS: 1 jts (5709.14')
 TOTAL STRING LENGTH: EOT @ 5709.59'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 6- 1 1/2" weight rods, 4 - 1" scraped rods, 26-3/4" scraped rods, 91-3/4" plain rods, 99-3/4" scraped rods, 4' x 3/4" pony rods.
 PUMP SIZE: 2-1/2" x 1-1/2" x 12' x 16' RHAC Axel
 STROKE LENGTH: 64"
 PUMP SPEED, SPM: 4 SPM
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

FRAC JOB

5/28/97 5651'-5793' **Frac D-1 sand as follows:**
 131,800# 20/40 sand in 624 bbls of Boragel. Breakdown @ 3409 psi, treated @ avg rate 32.5 bpm w/avg press of 1700 psi. ISIP 1860 psi, 5-min 1675 psi. Start flowback on 12/64" ck after 5 min. Flowed for 4 hrs and died.

5/28/97 5347'-5355' **Frac A sand as follows:**
 88,300# of 20/40 sand in 415 bbls of Boragel. Breakdown @ 2313 psi. Treated @ avg rate 27 bpm w/avg press of 2500 psi. ISIP-3735 psi. 5-min 3249 psi. Flowback after 5 min on 12/64" ck. Flowed for 3 hrs & died.

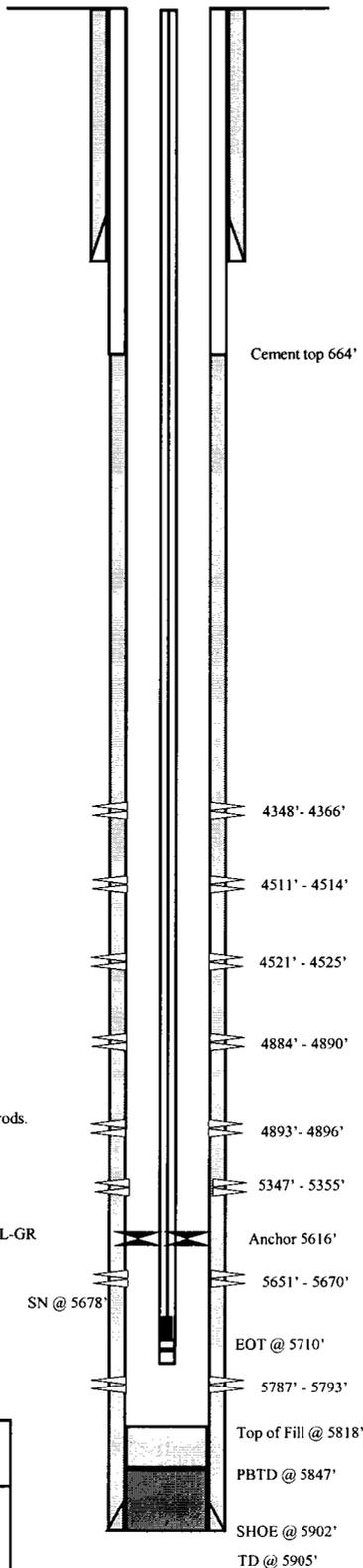
5/30/97 4884'-4896' **Frac D sand as follows:**
 115,500# of 20/40 sand in 525 bbls of Boragel. Breakdown @ 3269 psi. Treated @ avg rate 25.2 bpm w/avg press of 2100 psi. ISIP-2755 psi. 5-min 2682 psi. Flowback after 5 min on 12/64" ck. Flowed for 3 - 1/2 hrs & died.

6/2/97 4348'-4525' **Frac GB/PB sand as follows:**
 165,800# of 20/40 sand in 666 bbls of Boragel. Breakdown @ 2630 psi. Treated @ avg rate 35.3 bpm w/avg press of 2275 psi. ISIP-2847 psi. 5-min 2763 psi. Flowback after 5 min on 12/64" ck. Flowed for 7 hrs & died.

11/19/01 Tubing leak. Update rod and tubing details.
 1/9/03 Tubing leak. Update rod and tubing details.

PERFORATION RECORD

Date	Interval	Type	Holes
5/27/97	5651' - 5670'	2 JSFP	38 holes
5/27/97	5787' - 5793'	4 JSFP	24 holes
5/29/97	5347' - 5355'	4 JSFP	32 holes
5/31/97	4884' - 4890'	4 JSFP	24 holes
5/31/97	4893' - 4896'	4 JSFP	12 holes
6/03/97	4511' - 4514'	4 JSFP	12 holes
6/03/97	4521' - 4525'	4 JSFP	16 holes
6/03/97	4348' - 4366'	2 JSFP	36 holes





Inland Resources Inc.

Tar Sands Federal #6-33-8-17

2146 FNL & 1818 FWL
 SENW Section 33-T8S-R17E
 Duchesne Co, Utah
 API #43-013-31814; Lease #U-74870

Tar Sands Federal #5-33-8-17

Spud Date: 8/6/96
 Put on Production: 9/20/96
 GL: 5131' KB: 5144'

Initial Production: 163 BOPD,
 109 MCFPD, 3 BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (289.32')
 DEPTH LANDED: 288.22' GL
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 120 sxs Premium cmt, est 3 bbls to surf.

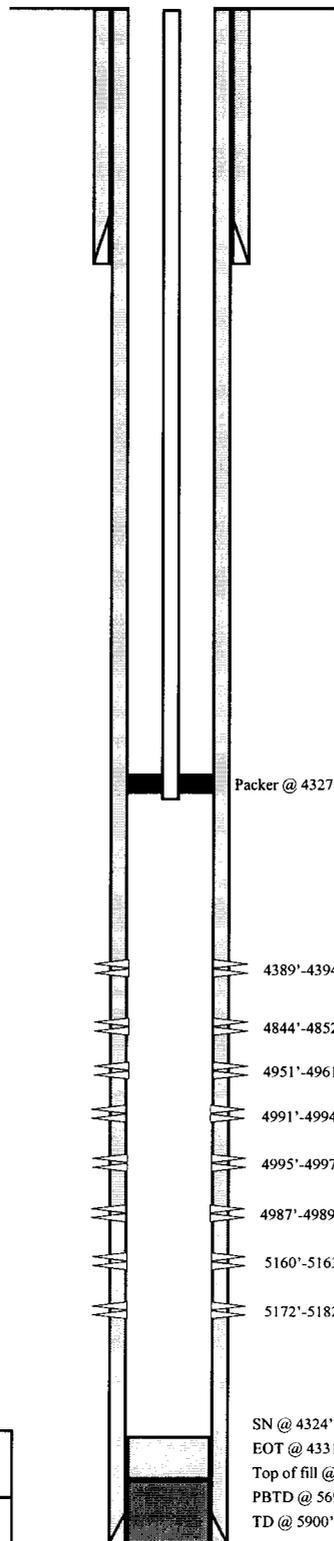
PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 139 jts (5905.74')
 DEPTH LANDED: 5901.75' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 390 sk Hyfill mixed & 340 sxs thixotropic
 CEMENT TOP AT: Surface per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#
 NO. OF JOINTS: 139 jts (4310.42')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 4324.52' KB
 PACKER: 4327.52' KB
 TOTAL STRING LENGTH: EOT @ 4331.72' KB

Injector Wellbore
 Diagram



FRAC JOB

9/12/96 5160'-5182' **Frac B-2 sand as follows:**
 37,500# of 20/40 sand in 204 bbls of Boragel. Breakdown @ 3500 psi. Treated @ avg rate of 20.2 bpm w/avg press of 2600 psi. ISIP-3866 psi, 5-min 3647 Flowback on 12/64" ck for 3 hrs and died.

9/13/96 4951'-4997' **Frac C and D-3 sands as follows:**
 61,300# of 20/40 sand in 378 bbls of Boragel. Breakdown @ 2660 psi. Treated @ avg rate of 18.4 bpm w/avg press of 2200 psi. ISIP-2633 psi, 5-min 1908 psi. Flowback on 12/64" ck for 1-1/2 hrs and died.

9/16/96 4844'-4852' **Frac D-1 sand as follows:**
 49,000# of 20/40 sand in 305 bbls of Boragel. Breakdown @ 1141 psi. Treated @ avg rate of 17.5 bpm w/avg press of 1200 psi. Job screened out w/8.5 PPG slurry @ perms, est 49,000# sand in formation and 1400# left in csg. ISIP-4019 psi, 5-min 3493 psi. Well bleed to 0# in 15 min.

5/02/02 4389'-4394' Break down GB6 w/ 330 gal of 15% HCl and 160 bbl water.

PERFORATION RECORD

Date	Interval	Tool	Holes
9/10/96	5160'-5163'	4 JSPF	12 holes
9/10/96	5172'-5182'	4 JSPF	40 holes
9/13/96	4987'-4989'	4 JSPF	8 holes
9/13/96	4991'-4994'	4 JSPF	12 holes
9/13/96	4995'-4997'	4 JSPF	8 holes
9/13/96	4951'-4961'	4 JSPF	40 holes
9/16/96	4844'-4852'	4 JSPF	32 holes
5/02/02	4389'-4394'	4 JSPF	20 holes



Inland Resources Inc.

Tar Sands Federal #5-33-8-17

738 FWL & 1835 FNL

SWNW Section 33-T8S-R17E

Duchesne Co, Utah

API #43-013-31665; Lease #UTU-77234

Tar Sands Federal #10-33-8-17

Spud Date: 8/15/98
 Put on Production: 9/15/98
 GL: 5145' KB: 5155'

Initial Production: 32 BOPD;
 23 MCFD; 2 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (294')
 DEPTH LANDED: 304' GL
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 155 sxs Premium cmt, est 10 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 139 jts. (5938')
 SET AT: 5947'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 250 sxs modified mixed & 300 sxs class G
 CEMENT TOP AT: ? Per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 & J-55 / 6.5#
 NO. OF JOINTS: 163 jts M-50 (5046.58')
 TUBING ANCHOR: 5056.58'
 NO. OF JOINTS: 4 jts M-50 (122.47')
 SEATING NIPPLE: 2-7/8"
 SN LANDED AT: 5181.70'
 NO. OF JOINTS: 2 jts J-55 (62.29')
 TOTAL STRING LENGTH: 5245.62'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 4-1 1/2" weight bars; 4-3/4" scraped rods; 102-3/4" plain rods; 97-3/4" scraped rods, 1-2", 1-6" x 3/4" pony rods
 PUMP SIZE: 2 1/2" x 1 1/2" x 12' x 15.5' RHAC
 STROKE LENGTH: 64"
 PUMP SPEED, SPM: 6 SPM
 LOGS: DIGL/SP/GR/CAL
 SDL/DSN/GR

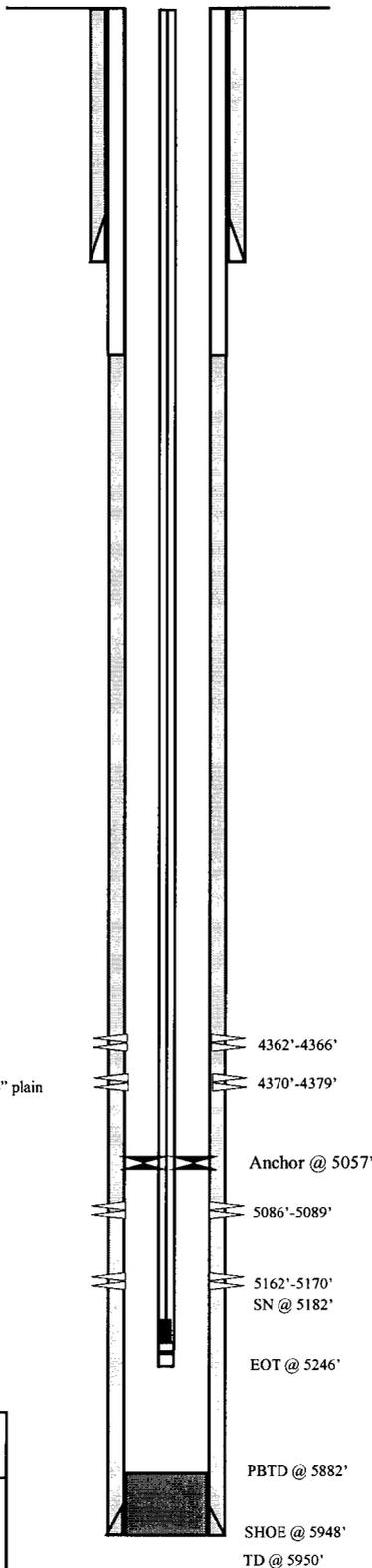
FRAC JOB

9/9/98 5086'-5170' **Frac B-0.5 & B-2 sands as follows:**
 RU BJ Services & frac B sds w/131,200#
 20/40 sd in 618 bbls Viking I-25 fluid.
 Perfs broke dn @ 2270 psi. Treated @ ave
 press of 2295 psi w/ave rate of 30.3 BPM.
 ISIP: 3270 psi, 5 min: 3130 psi

Flowback on 12/64 choke for 5 hrs & died.

9/11/98 4362'-4379' **Frac GB-6 sand as follows:**
 RU BJ Services & frac GB sds w/110,400#
 20/40 sd in 485 bbls Viking I-25 fluid.
 Perfs broke dn @ 3670 psi. Treated @ ave
 press of 2010 psi w/ave rate of 26.8 BPM
 before screening out w/9.9# sd on perfs.
 ISIP: 3700 psi, 5 min: 1880 psi.
 Flowback on 12/64 choke for 5-1/2 hrs &
 died.

11/12/01 Pump change. Update rod and tubing details
 3/10/03 Stuck pump. Update rod details.



PERFORATION RECORD

Date	Depth Range	ISIP	Holes
9/9/98	5086' - 5089'	4 JSPF	12 holes
9/9/98	5162' - 5170'	4 JSPF	32 holes
9/10/98	4362' - 4366'	4 JSPF	16 holes
9/10/98	4370' - 4379'	4 JSPF	36 holes



Inland Resources Inc.

Tar Sands Federal #10-33-8-17

2130 FSL & 1964 FEL
 NWSE Section 33-T8S-R17E
 Duchesne Co, Utah
 API #43-013-31884; Lease #U-76241

Spud Date: 4/28/97
 Put on Production: 5/31/97
 GL: 5161' KB: 5174'

Tar Sands Federal #12-33-8-17

Initial Production: 113 BOPD,
 128 MCFPD, 5 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts.(288.38')
 DEPTH LANDED: 301' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 120 sxs Premium W/ additives

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 139 jts. (5865.63')
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 355 sxs Hibond mixed & 290 sxs Thixotropic
 CEMENT TOP AT: 1109 per CBL
 DEPTH LANDED: 5848' KB

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#
 NO. OF JOINTS: 169 jts (5213.14')
 TUBING ANCHOR: 5226.14'
 NO. OF JOINTS: 3 jts (93.30')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 5322.24'
 NO. OF JOINTS: 3 jts (92.42')
 TOTAL STRING LENGTH: EOT @ 5416.21'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 5 - 1 1/2" weighted bars, 3 - 1" scraped rods, 102 - 3/4" plain rods, 100 - 3/4" scraped rods, 1 - 8', 1 - 6', 1 - 2' x 3/4" pony rods
 PUMP SIZE: 2-1/2" x 1-1/2" x 12' x 13' x 16' RHAC
 STROKE LENGTH: 52"
 PUMP SPEED, SPM: 6 SPM
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced
 Neutron, CBL-GR

FRAC JOB

5/21/97 5254'-5323' **Frac D-1 sand as follows:**
 115,800# 20/40 sand in 536 bbls of Boragel.
 Treated @ avg rate 26.3 bpm w/avg press of 2100 psi. ISIP-2793 psi.

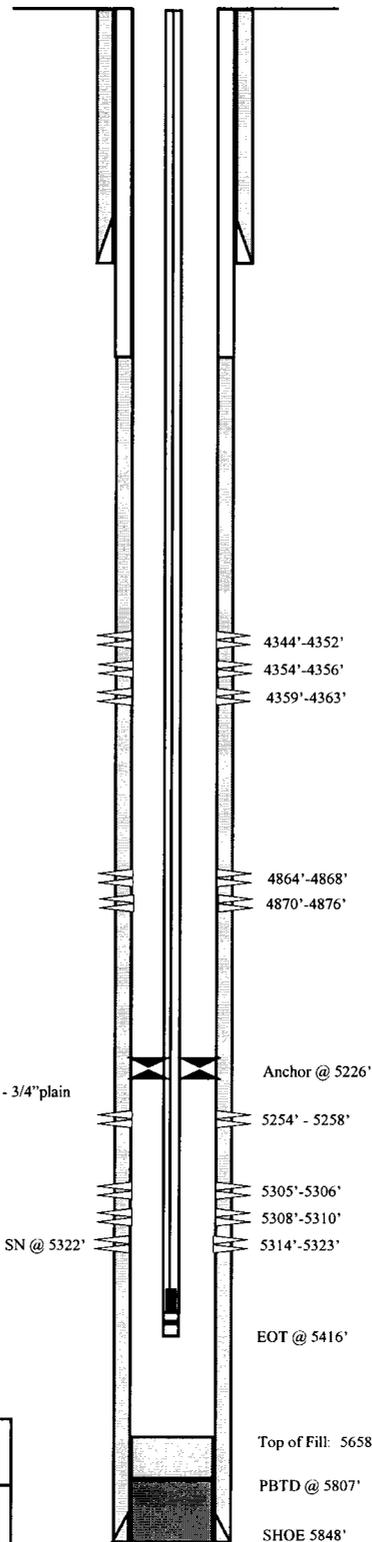
5/23/97 4864'-4876' **Frac LoLDC/CP sand as follows:**
 103,600# of 20/40 sand in 519 bbls of Boragel. Treated @ avg rate 24.5 bpm w/avg press of 2200 psi. ISIP-2534 psi.

5/27/97 4344'-4363' **Frac LoLDC/CP sand as follows:**
 106,800# of 20/40 sd in 460 bbls Boragel. Treated @ ave rate of 22 bpm w/ave press of 2100 psi. ISIP: 2805 psi.

5/27/97 4344'-4363' **Frac LoLDC/CP sand as follows:**
 106,800# of 20/40 sd in 460 bbls Boragel. Perfs broke @ 2227 psi.

01/09/03 **Pump change.** Update tubing and rod detail.

3/11/03 **Stuck pump.** Update rod detail.



PERFORATION RECORD

5/21/97	5254' - 5258'	4 JSPF	16 holes
5/21/97	5305' - 5306'	4 JSPF	4 holes
5/21/97	5308 - 5310'	4 JSPF	8 holes
5/21/97	5314' - 5323'	4 JSPF	36 holes
5/22/97	4864' - 4868'	4 JSPF	16 holes
5/22/97	4870' - 4876'	4 JSPF	24 holes
5/24/97	4344' - 4352'	4 JSPF	32 holes
5/24/97	4354' - 4356'	4 JSPF	8 holes
5/24/97	4359' - 4363'	4 JSPF	16 holes



Inland Resources Inc.

Tar Sands Federal #12-33-8-17

2069' FSL & 738' FWL
 NWSW Section 33-T8S-R17E
 Duchesne Co, Utah
 API #43-013-31757; Lease #U-74870

Tar Sands Federal #15-33-8-17

Spud Date: 10/17/98
 Put on Production: 11/11/98
 GL: 5151' KB: 5161'

Initial Production: --BOPD; --
 MCFD; -- BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (314')
 DEPTH LANDED: 324' 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: 138 jts. (5900')
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 240 sxs modified mixed & 300 sxs class G
 CEMENT TOP AT: ?
 SET AT: 5898'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 159 jts (4973.12')
 TUBING ANCHOR: 4983.12'
 NO. OF JOINTS: 2 jts
 SEATING NIPPLE: 2-7/8"
 SN LANDED AT: 5047.75'
 NO. OF JOINTS: 2 jts
 TOTAL STRING LENGTH: EOT @ 5111.71'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 4-1 1/2" weight bars; 4-3/4" scapered rods; 89-3/4" plain rods;
 104-3/4" scapered rods, 4' x 3/4" pony rod.
 PUMP SIZE: 2-1/2" x 1-1/2" x 12' x 13' x 16' RHAC Pump
 STROKE LENGTH: 74"
 PUMP SPEED, SPM: 7 SPM
 LOGS: DIGL/SP/GR/CAL
 SDL/DSN/GR

FRAC JOB

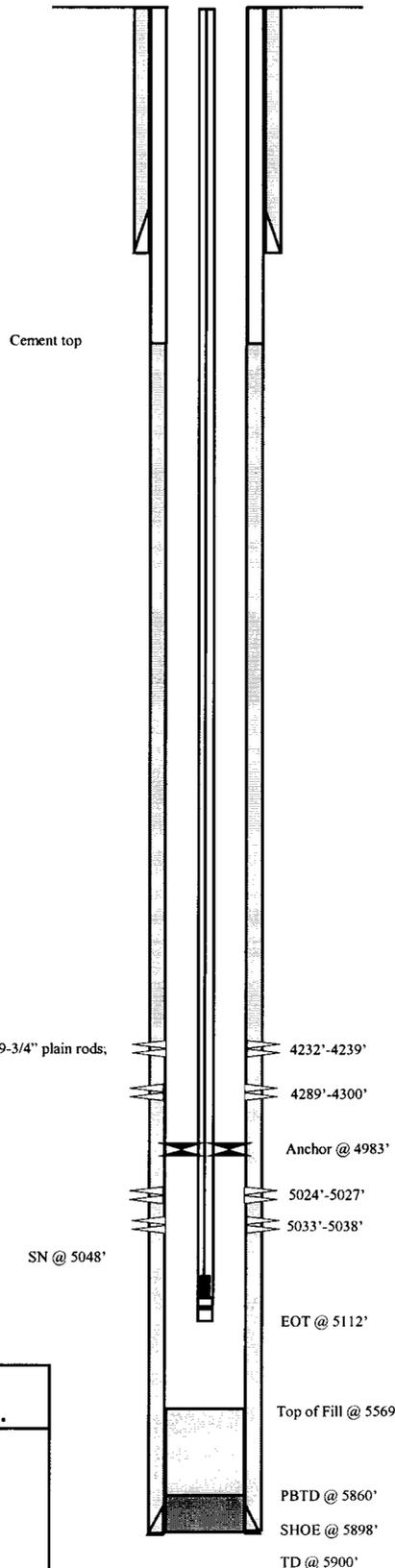
10/31/98 5024'-5038' **Frac B-0.5 sand as follows:**
 RU BJ Services & frac A sds w/107,500#
 20/40 sd in 523 bbls Viking I-25 fluid.
 Perfs broke dn @ 3998 psi. Treated @ ave
 press of 1795 psi w/ave rate of 27.1 BPM.
 ISIP: 2600 psi, 5 min: 2250 psi.

 Flowback on 12/64 choke for 3 hrs & died.

 11/3/98 4232'-4300' **Frac GB-2 & GB-4 sands as follows:**
 RU BJ Services & frac GB sds w/123,900#
 20/40 sd in 561 bbls Viking I-25 fluid.
 Perfs broke dn @ 2560 psi. Treated @ ave
 press of 2080 psi w/ave rate of 30.7 BPM.
 ISIP: 2500 psi, 5 min: 2223 psi.
 Flowback on 12/64 choke for 3-1/2 hrs &
 died.

 12/10/02 Stuck pump. Updated rod and tubing

 details.



PERFORATION RECORD

10/30/98	5024'- 5027'	4 JSPF	12 holes
10/30/98	5033'- 5038'	4 JSPF	20 holes
11/2/98	4232'- 4239'	4 JSPF	39 holes
11/2/98	4289'- 4300'	4 JSPF	44 holes



Inland Resources Inc.

Tar Sands Federal #15-33-8-17

1979 FEL & 660 FSL
 SWSE Section 33-T8S-R17E
 Duchesne Co, Utah
 API #43-013-31890; Lease #U-76241

Gilsonite State #9-32-8-17

Spud Date: 11/30/82
 Put on Production: 1/05/83
 Put on Injection: 9/19/97
 GL: 5185' KB: 5195'

Initial Production: 51.6 BOPD,
 31.5 MCFD, 8.4 BWPD

Injection well
 Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (284')
 DEPTH LANDED: 281'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 210 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 138 jts.
 DEPTH LANDED: 5606'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 300 sxs RFC.
 CEMENT TOP AT: 3250' per CBL

TUBING

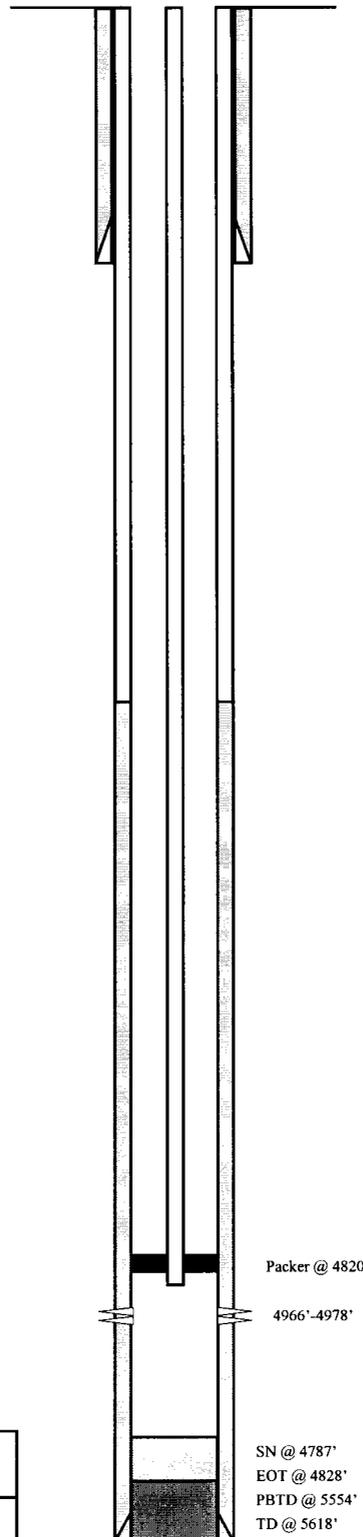
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 147 jts (6082.43')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 4787' KB
 PACKER AT: 4820' KB
 TOTAL STRING LENGTH: EOT @ 4820'

FRAC JOB

12/19/82	4966'-4978'	Frac C-sd sand as follows: 64,000# 20/40 sand in 564 bbls 3% KCl fluid. Treated @ avg press of 2500 psi w/avg rate of 30 BPM. ISIP 3530 psi. Screened out w/ 17 bbl in line.
9/23/96	4966'-4978'	Frac C-sd sand as follows: 28,400# 20/40 sand in 336 bbls Boragel fluid. Treated @ avg press of 3000 psi w/avg rate of 18.2 BPM. ISIP 3182 psi. Calc flush: 4955 gal. Actual flush: 4325 gal.
7/11/02		Perform 5 year MIT.

PERFORATION RECORD

12/19/82 4966'-4978' 1 JSPF 13 holes



	Inland Resources Inc.
	Gilsonite State #9-32-8-17
	2070' FSL & 994' FEL
	NESE Section 32-T8S-R17E
	Duchesne Co, Utah
API #43-013-30713; Lease #ML-22060	

Gilsonite State #8-32-8-17

Spud Date: 3/22/97
 Put on Production: 4/26/97
 GL: 5149' KB: 5162'

Initial Production: 116 BOPD,
 85 MCFPD, 12 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (295.44')
 DEPTH LANDED: 293.35' GL
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 120 sxs Premium Plus w/additives.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 139 jts. (5859.16')
 DEPTH LANDED: 5900.56'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 440 sxs Class V w/additives. 2- 360 sxs Thixotropic
 CEMENT TOP AT: 181' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#
 NO. OF JOINTS: 168 jts. (5223.73')
 TUBING ANCHOR: 5226.53'
 NO. OF JOINTS: 2 jts. (62.48') (5289.01')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 5290.11'
 NO. OF JOINTS: 2 jts. (61.32') (5351.43')
 TOTAL STRING LENGTH: EOT @ 5351.88'

SUCKER RODS

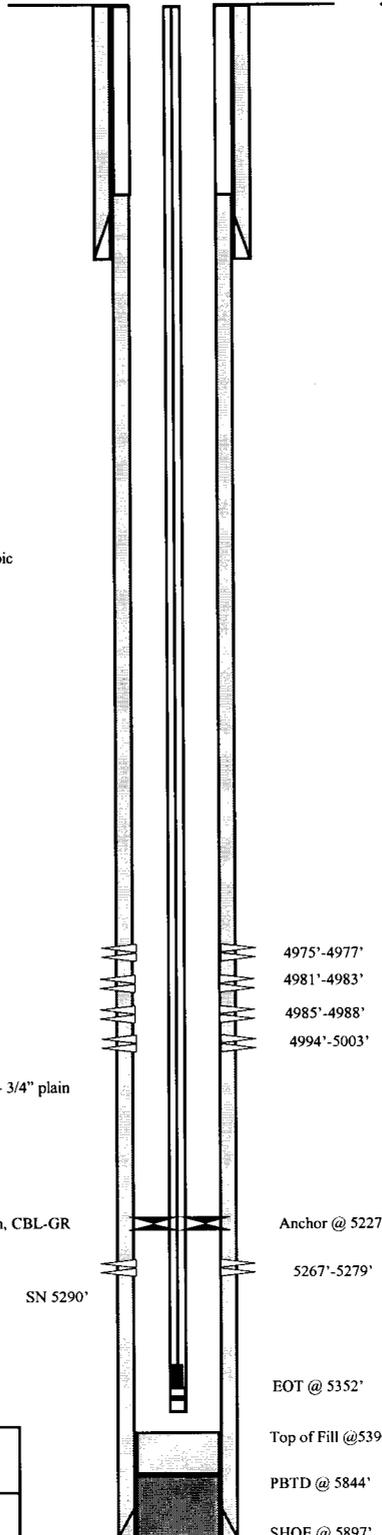
POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 6- 1 1/2" weighted bars, 8- 3/4" scraped rods, 97- 3/4" plain rods, 100- 3/4" scraped rods, 2'- 3/4" pony rods.
 PUMP SIZE: 2-1/2" x 1-1/2" x 12"x16" RHAC pump
 STROKE LENGTH: 74"
 PUMP SPEED, SPM: 5 SPM
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

FRAC JOB

4/21/97 5267'-5279' **Frac A-1 sand as follows:**
 86,700# of 20/40 sand in 488 bbls of Boragel. Perfs broke @ 2423 psi. Treated @ avg rate of 28 bpm w/avg press of 2700 psi. ISIP 3883 psi, 5-min 3678 psi. Flowback on 12/64" ck for 1-1/2 hours and died. Flush: 5155 gals.

4/22/97 4975'-5003' **Frac C sand as follows:**
 102,000# of 20/40 sand in 557 bbls of Boragel. Perfs broke @ 2350 psi. Treated @ avg rate of 29.5 bpm w/avg press of 2000psi. ISIP-3171 psi, 5-min 2960 psi. Flowback on 12/64" ck for 2-1/2 hours and died. Flush: 4894 gals.

01/07/03 **Tubing Leak:** Update tubing and rod detail.



PERFORATION RECORD

4/21/97	5267'-5279'	4 JSPF	48 holes
4/22/97	4975'-4977'	4 JSPF	8 holes
4/22/97	4981'-4983'	4 JSPF	8 holes
4/22/97	4985'-4988'	4 JSPF	12 holes
4/22/97	4994'-5003'	4 JSPF	36 holes



Inland Resources Inc.

Gilsonite State #8-32

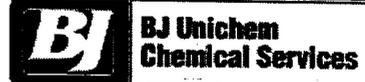
736' FEL 1925' FNL

SENE Section 32-T8S-R17E

Duchesne Co, Utah

API #43-013-31498; Lease #ML-22061

Analytical Laboratory Report for:
Inland Production



UNICHEM Representative: Rick Crosby

Production Water Analysis

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

Lab Test No: 2002403193 Sample Date: 10/14/2002
 Specific Gravity: 1.002
 TDS: 554
 pH: 7.50

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

Analytical Laboratory Report for:
Inland Production



**BJ Unichem
 Chemical Services**

UNICHEM Representative: Rick Crosby.

Production Water Analysis

Listed below please find water analysis report from: Tar Sands, 12-33-8-17

Lab Test No:	2003400851	Sample Date:	04/14/2003
Specific Gravity:	1.013		
TDS:	18815		
pH:	8.70		

Cations:	mg/L	as:
Calcium	80.00	(Ca ⁺⁺)
Magnesium	0.00	(Mg ⁺⁺)
Sodium	7015	(Na ⁺)
Iron	12.00	(Fe ⁺⁺)
Manganese	0.10	(Mn ⁺⁺)
Anions:	mg/L	as:
Bicarbonate	1708	(HCO ₃ ⁻)
Sulfate	100	(SO ₄ ⁼)
Chloride	9900	(Cl ⁻)
Gases:		
Carbon Dioxide		(CO ₂)
Hydrogen Sulfide	13	(H ₂ S)

DownHole SAT(tm)
MIXED WATER DEPOSITION POTENTIAL INDICATORS

1) TS 12-33-8-17

2) Johnson Water

Report Date: 04-15-2003

SATURATION LEVEL

Calcite (CaCO3)	56.43
Aragonite (CaCO3)	47.20
Anhydrite (CaSO4)	0.00628
Gypsum (CaSO4*2H2O)	0.00609
Barite (BaSO4)	0.00
Hydroxyapatite	0.00
Iron hydroxide (Fe(OH)3)	0.00552
Siderite (FeCO3)	11723
Iron sulfide (FeS)	2608

MOMENTARY EXCESS (Lbs/1000 Barrels)

Calcite (CaCO3)	36.14
Aragonite (CaCO3)	35.75
Witherite (BaCO3)	-1.26
Strontianite (SrCO3)	-0.283
Anhydrite (CaSO4)	-536.82
Gypsum (CaSO4*2H2O)	-614.08
Barite (BaSO4)	-0.384
Hydroxyapatite	-310.84
Iron hydroxide (Fe(OH)3)	< 0.001
Siderite (FeCO3)	2.96
Iron sulfide (FeS)	2.25

SIMPLE INDICES

Langelier	2.15
Stiff Davis Index	2.20

BOUND IONS

	TOTAL	FREE
Calcium	72.09	44.26
Barium	0.00	0.00
Carbonate	374.57	87.31
Phosphate	0.00	0.00
Sulfate	95.00	82.61

OPERATING CONDITIONS

Temperature (°F)	120.00
Time (mins)	3.00

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

Attachment "G"

**Tar Sands Federal 11-33-8-17
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom			Minimum	
4892	4899	4896	3300	1.11	<u>3289</u> ←
					<u>3289</u>

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

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

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



Attachment G-1

DAILY COMPLETION REPORT

WELL NAME Tar Sands Federal 11-33 **Report Date** 9/12/98 **Completion Day** 2
Present Operation Circ hole clean. Trip & land prod. Tbg. Swab. **Rig** Flint #4354

WELL STATUS

Surf Csg: 8-5/8 @ 303' **Liner** _____ @ _____ **Prod Csg** 5-1/2 @ 5890 **Csg PBDT** 5849
Tbg: **Size** 2-7/8 **Wt** 6.5# **Grd** M-50 **Pkr/EOT @** _____ **BP/Sand PBDT:** _____

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
D	4892-99'	4/28			

CHRONOLOGICAL OPERATIONS

Date Work Performed: 9/11/98 **SITP:** _____ **SICP:** 0
 RU Schlumberger & perf D sds @ 4892-99' w/4 jspf. TIH w/tbg to 5180'. IFL @ 4400'. Made 3 swab runs, rec 12 BTF. FFL @ 4900'. TOH w/tbg. NU isolation tool. RU BJ Services & frac D sds w/102,800# 20/40 sd in 500 bbls Viking I-25 fluid. Perfs broke dn @ 2340 psi. Treated @ ave press of 1890 psi w/ave rate of 26.5 BPM. ISIP: 3300 psi, 5 min: 2920 psi. Flowback on 12/64 choke for 3-1/2 hrs & died. Rec 100 BTF (est 20% of load). SIFN w/est 400 BWTR.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered	<u>500</u>	Starting oil rec to date	<u>0</u>
Fluid lost/recovered today	<u>100</u>	Oil lost/recovered today	<u>0</u>
Ending fluid to be recovered	<u>400</u>	Cum oil recovered	<u>0</u>
IFL <u>4400</u> FFL <u>4900</u> FTP _____		Choke <u>12/64</u> Final Fluid Rate _____	Final oil cut _____

STIMULATION DETAIL

COSTS

Base Fluid used: Viking I-25 **Job Type:** Sand Frac
Company: BJ Services
Procedure: _____
2500 gal of pad
1000 gal w/1-6 ppg of 20/40 sd
8000 gal w/6-8 ppg of 20/40 sd
4712 gal w/8-10 ppg of 20/40 sd
Flush w/4788 gal of 10# linear gel

Flint rig	<u>1,152</u>
BOP	<u>60</u>
Tanks	<u>30</u>
Wtr	<u>650</u>
Perfs	<u>282</u>
Frac	<u>20,246</u>
Flowback - super	<u>140</u>
IPC Supervision	<u>200</u>

Max TP 3700 **Max Rate** 26.8 **Total fluid pmpd:** 500 bbls
Avg TP 1890 **Avg Rate** 26.5 **Total Prop pmpd:** 102,800#
ISIP 3300 **5 min** 2920 **10 min** _____ **15 min** _____
Completion Supervisor: Gary Dietz

DAILY COST: \$23,306
TOTAL WELL COST: \$214,706

ATTACHMENT H

WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4795'.
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class G cement.
3. Plug #2 Set 200' plug from 2000'-2200' with 25 sx Class "G" cement.
4. Plug #3 Pump 39 sx Class G cement down 5-1/2" to 342'.

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

Tar Sands Federal #11-33-8-17

Spud Date: 5/3/97
 Put on Production: 9/18/98
 GL: 5140' KB: 5153'

Initial Production: 5 BOPD;
 18 MCFD; 1 BWPD

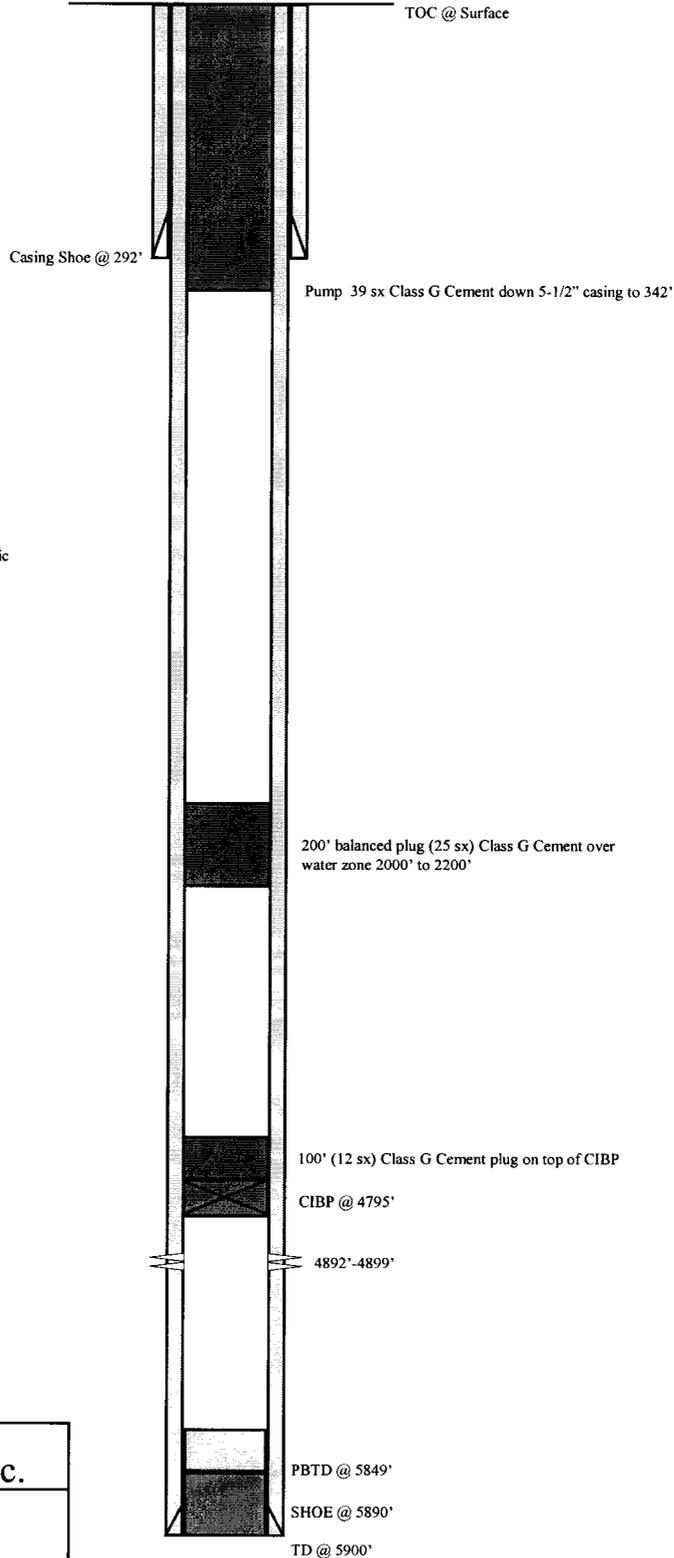
Proposed P & A
 Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (291.97')
 DEPTH LANDED: 291.90 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: 141 jts. (5897.93)
 DEPTH LANDED: 5890' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 455 sx Hybond mixed & 310 sx thixotropic
 CEMENT TOP AT: Surface



Inland Resources Inc.
 Tar Sands Federal #11-33-8-17
 1990 FSL 1871 FWL
 NE/SW Section 33-T8S-R17E
 Duchesne Co, Utah
 API #43-013-31861; Lease #UTU-77234

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas well Other

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

410 17th Street, Suite 700, Denver, Colorado 80202 (303) 893-0102

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

NE/SW 1990' FSL, 1871' FWL Sec. 33, T8S, R17E

5. Lease Designation and Serial No.

UTU-77234

6. If Indian, Allottee or Tribe Name

NA

7. If unit or CA, Agreement Designation

Black Jack

8. Well Name and No.

Tar Sands Fed.11-33-8-17

9. API Well No.

43-013-31861

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne County, Utah

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

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent

Abandonment

Change of Plans

Subsequent Report

Recompletion

New Construction

Final Abandonment Notice

Plugging Back

Non-Routine Fracturing

Casing repair

Water Shut-off

Altering Casing

Conversion to Injection

Other _____

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 directly drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

Please see attached injection application.

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

Signed David Gerbig
David Gerbig

Title Operations Engineer

Date 6-17-83

(This space of Federal or State office use.)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

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

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas well Other

2. Name of Operator
INLAND PRODUCTION COMPANY

3. Address and Telephone No.
410 17th Street, Suite 700, Denver, Colorado 80202 (303) 893-0102

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE/SW 1990' FSL, 1871' FWL Sec. 33, T8S, R17E

5. Lease Designation and Serial No.
UTU-77234

6. If Indian, Allottee or Tribe Name
NA

7. If unit or CA, Agreement Designation
Black Jack

8. Well Name and No.
Tar Sands Fed.11-33-8-17

9. API Well No.
43-013-31861

10. Field and Pool, or Exploratory Area
Monument Butte

11. County or Parish, State
Duchesne County, Utah

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

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

(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)

Please see attached injection application.

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

Signed *David Gerbig* Title **Operations Engineer** Date **6-17-03**
David Gerbig

(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 ENVIRONMENTAL PROTECTION AGENCY

REGION 8

999 18th STREET - SUITE 300

DENVER, CO 80202-2466

<http://www.epa.gov/region08>

APR - 8 2004

Ref: 8P-W-GW.

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

David Gerbig
Inland Production Company
410 17th Street, Suite 700
Denver, CO 80202

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

RECEIVED
APR 12 2004
DIV. OF OIL, GAS & MINING

Re: Underground Injection Control Program
Permit for the Tar Sands Federal 11-33-8-17 Well
Duchesne County, UT
EPA Permit No. UT20959-06231

Dear Mr. Gerbig:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed Tar Sands Federal 11-33-8-17, in Duchesne County, Utah. A Statement of Basis, which discusses development of the conditions and requirements of the Permit, also is included.

The Public Comment period ended March 11, 2004. There were no comments on the Draft Permit received during the Public Notice period, and therefore the Final Permit becomes effective on the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect on the date that this Permit becomes effective.

Please note that under the terms of the Final Permit, you are authorized only to construct the proposed injection well, and must fulfill the "Prior to Commencing Injection" requirements of the Permit, Part II Section C Subpart 1 and obtain written Authorization to Inject prior to commencing injection. It is your responsibility to be familiar with and to comply with all provisions of the Final Permit.

The Permit and the authorization to inject are issued for the operating life of the well unless terminated (Part III, Section B). The EPA will review this Permit at least every five (5) years to determine whether action under 40 CFR § 144.36(a) is warranted.

Mr. Michael Guinn
Vice President - Operations
Inland Production Company
Route 3 - Box 3630
Myton, UT 84052

Mr. Gil Hunt
Technical Services Manager
State of Utah - Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple - Suite 1220
Salt Lake City, UT 84111-0581

Mr. Jerry Kenczka
Petroleum Engineer
Bureau of Land Management
170 South 500 East
Vernal, UT 84078

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

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU77234

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
BLACKJACK UNIT

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

8. WELL NAME and NUMBER:
TAR SANDS FED 11-33

2. NAME OF OPERATOR:
Newfield Production Company

9. API NUMBER:
4301331861

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: 1990 FSL 1871 FWL

COUNTY: Duchesne

QTR/QTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NE/SW, 33, T8S, R17E

STATE: Utah

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

TYPE OF ACTION

TYPE OF SUBMISSION

TYPE OF ACTION

NOTICE OF INTENT
(Submit in Duplicate)

Approximate date work will

SUBSEQUENT REPORT
(Submit Original Form Only)

Date of Work Completion:

11/29/2004

ACIDIZE

ALTER CASING

CASING REPAIR

CHANGE TO PREVIOUS PLANS

CHANGE TUBING

CHANGE WELL NAME

CHANGE WELL STATUS

COMMINGLE PRODUCING FORMATIONS

CONVERT WELL TYPE

DEEPEN

FRACTURE TREAT

NEW CONSTRUCTION

OPERATOR CHANGE

PLUG AND ABANDON

PLUG BACK

PRODUCTION (START/STOP)

RECLAMATION OF WELL SITE

RECOMPLETE - DIFFERENT FORMATION

REPERFORATE CURRENT FORMATION

SIDETRACK TO REPAIR WELL

TEMPORARITLY ABANDON

TUBING REPAIR

VENT OR FLAIR

WATER DISPOSAL

WATER SHUT-OFF

OTHER: - Step Rate Test

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

A step rate test was conducted on the subject well on November 29, 2004. Results from the test indicate that the fracture gradient is .788 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1630 psi.

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

RECEIVED

DEC 23 2004

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Mike Guinn

TITLE Engineer

SIGNATURE 

DATE December 20, 2004



**UNDERGROUND INJECTION CONTROL PROGRAM
PERMIT**

PREPARED: March 2004

Permit No. UT20959-06231

Class II Enhanced Oil Recovery Injection Well

**Tar Sands Federal 11-33-8-17
Duchesne County, UT**

Issued To

Inland Production Company

1401 Seventeenth Street

Suite 1000

Denver, CO 80202

Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

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

Inland Production Company
1401 Seventeenth Street
Suite 1000
Denver, CO 80202

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

Tar Sands Federal 11-33-8-17
1990' FSL @ 1871' FWL, NESW S33, T8S, R17E
Duchesne County, UT

Permit requirements herein are based on regulations found in 40 CFR Parts 124, 144, 146, and 147 which are in effect on the Effective Date of this Permit.

This Permit is based on representations made by the applicant and on other information contained in the Administrative Record. Misrepresentation of information or failure to fully disclose all relevant information may be cause for termination, revocation and reissuance, or modification of this Permit and/or formal enforcement action. This Permit will be reviewed periodically to determine whether action under 40 CFR 144.36(a) is required.

This Permit is issued for the life of the well unless modified, revoked and reissued, or terminated under 40 CFR 144.39 or 144.40. This Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for this program is delegated to an Indian Tribe or a State. Upon the effective date of delegation, all reports, notifications, questions and other compliance actions shall be directed to the Indian tribe or State Program Director or designee.

Issue Date: APR - 8 2004

Effective Date APR - 8 2004

Stephen S. Tuber

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

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

PART II. SPECIFIC PERMIT CONDITIONS

Section A. WELL CONSTRUCTION REQUIREMENTS

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

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

1. Casing and Cement.

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

2. Injection Tubing and Packer.

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

3. Sampling and Monitoring Devices.

The Permittee shall install and maintain in good operating condition:

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

4. Well Logging and Testing

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

5. Postponement of Construction or Conversion

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

6. Workovers and Alterations

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

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

Section B. MECHANICAL INTEGRITY

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

An injection well has mechanical integrity if:

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

1. Demonstration of Mechanical Integrity (MI).

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

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

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

2. Mechanical Integrity Test Methods and Criteria

EPA-approved methods shall be used to demonstrate mechanical integrity. A current copy of Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are provided at issuance of this Permit.

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

3. Notification Prior to Testing.

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

4. Loss of Mechanical Integrity.

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

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

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

Section C. WELL OPERATION

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

Injection is approved under the following conditions:

1. Requirements Prior to Commencing Injection.

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

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

2. Injection Interval.

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

3. Injection Pressure Limitation

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

4. Injection Volume Limitation.

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

5. Injection Fluid Limitation.

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

6. Tubing-Casing Annulus (TCA)

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

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

Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Monitoring Parameters, Frequency, Records and Reports.

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

Monitoring records must include:

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

2. Monitoring Methods.

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

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

3. Records Retention.

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

4. Annual Reports.

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

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

Section E. PLUGGING AND ABANDONMENT

1. Notification of Well Abandonment, Conversion or Closure.

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

2. Well Plugging Requirements

Prior to abandonment, the injection well shall be plugged with cement in a manner which prevents the movement of fluids into or between underground sources of drinking water. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director. The well shall be plugged in accordance with the approved plugging and abandonment plan and with 40 CFR 146.10.

3. Approved Plugging and Abandonment Plan.

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

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

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

5. Plugging and Abandonment Report.

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

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

6. Inactive Wells.

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

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

- (c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

PART III. CONDITIONS APPLICABLE TO ALL PERMITS

Section A. EFFECT OF PERMIT

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

Section B. CHANGES TO PERMIT CONDITIONS

1. Modification, Reissuance, or Termination.

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

2. Conversions.

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

3. Transfer of Permit.

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

4. Permittee Change of Address.

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

5. Construction Changes, Workovers, Logging and Testing Data

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

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

Section C. SEVERABILITY

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

Section D. CONFIDENTIALITY

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

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

Section E. GENERAL PERMIT REQUIREMENTS

1. Duty to Comply.

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

2. Duty to Reapply.

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

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

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

4. Duty to Mitigate.

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

5. Proper Operation and Maintenance.

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

6. Permit Actions.

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

7. Property Rights.

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

8. Duty to Provide Information.

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

9. Inspection and Entry.

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

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

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

10. Signatory Requirements.

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

11. Reporting Requirements.

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

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

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

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

Section F. FINANCIAL RESPONSIBILITY

1. Method of Providing Financial Responsibility.

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

2. Insolvency.

In the event of:

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

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

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

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

APPENDIX A

WELL CONSTRUCTION REQUIREMENTS

FORMATION DATA:

- * Base of Underground Sources of Drinking Water (USDW): Uinta Formation - Surface to 140 feet.
- * Confining Zone: Overlying Garden Gulch Member of Green River Formation - 3801 feet to 3826 feet.
- * Permitted Injection Zone: Garden Gulch-Douglas Creek-Basal Carbonate Members of the Green River Formation...3826 feet to the top of the Wasatch Formation estimated to be 6165 feet.
- * Well Total Depth: 5900 feet in the Douglas Creek Member.

WELL CONSTRUCTION:

- * 8-5/8 inch surface casing set at 291.90 feet (GL) with 120 sacks of Premium cement.
- * 5-1/2 inch longstring set at 5890 feet (KB) with 455 sacks of HiBond mixed with 310 sacks of Thixotropic. Operator identifies cement to the surface. EPA analysis of the CBL identifies the top of the 80% bond index cement bond at 3840 feet to 3872 feet. Confining zone is 3801 feet to 3826 feet.
- * 2-7/8 inch tubing to be set with a packer, with the packer no higher than 100 feet above the top perforation.

WELLHEAD EQUIPMENT:

- * Sampling tap located to enable the sampling of fluid in the injection tubing.
- * Sampling tap located to enable the sampling of fluid in the tubing/casing annulus.
- * Pressure gauge isolated by 1/2 inch FIP shut-off valve or quick disconnect, and located to enable reading the pressure on the injection tubing.
- * Pressure gauge isolated by 1/2 inch FIP shut-off valve or quick disconnect, and located to enable reading the pressure in the tubing/casing annulus.
- * Pressure-actuated shut-off device located on the injection line, and set to prevent injection operations from exceeding the maximum allowable surface injection pressure.
- * Non-resettable cumulative volume recorder located on the injection line.

Tar Sands Federal #11-33-8-17

Spud Date: 5/3/97
 Put on Production: 9/18/98
 GI: 5140' KB: 5153'

Initial Production: 5 BOPD;
 18 MCFD, 1 BWPD

Proposed Injection Wellbore Diagram

SURFACE CASING
 CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jcs (291.87') *Base 11500's < 140'*
 DEPTH LANDED: 291.90 GL
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 120 sac Premium one, cut 6 bbls to surf

FRAC JOB
 9/11/98 4892'-4899'
 Frac D-2 sand as follows:
 RU BJ Services @ frac D rate w/102,800#
 2040 gal @ 900 lbs @ 1/2" spacing 1-23 fluid
 Perfor broke @ 2340 psi; Triased @ ave
 press of 1850 psi w/ave rate of 26.5 BPM
 ISIP: 3300 psi

PRODUCTION CASING
 CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 141 jcs (5897.93)
 DEPTH LANDED: 5890' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 455 sac Hywood mixed @ 310 sac thixotropic
 CEMENT TOP AT: Surface

TUBING
 SIZE/GRADE/WT: 2-7/8" / M-50 / 6.5#
 NO. OF JOINTS: 157 jcs (4640.60')
 TUBING ANCHOR: 445#
 SEATING NUTS: 2-7/8"
 TOTAL STRING LENGTH: 4091'
 SN LANDED AT: 4919'



*-3801'-3826' Confining Zone
 -3826' Garden Gulch Mem.
 -3840'-3872' Top 80% cement head*

*4804' Douglas Creek Mem.
 Perfor @ 4897'*

PERFORATION RECORD
 9/11/98 4892'-4899' 4 ISPP 24 holes

PSD @ 5840'
 SHOR @ 5890'
 TD @ 5902'
*-Est. 6000' base Carbonate
 -Est. 6165' Westrich Form*



Inland Resources Inc.
 Tar Sands Federal #11-33-8-17
 1990 PSL 1871 FWL
 NE/SW Section 33-T8S-R17E
 Duchesne Co, Utah
 API #43-013-31861; Lease #UTD-77234

MC #1105

UT20959_CONSTR_102803.tif

APPENDIX B

LOGGING AND TESTING REQUIREMENTS

Logs.

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

NO LOGGING REQUIREMENTS

Tests.

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

WELL NAME: Tar Sands Federal 11-33-8-17	
TYPE OF TEST	DATE DUE
Part II (External) MIT	Required within the 180-day Limited Authorization To Inject Period
Part I (Internal) MIT	Prior to Authorization to Inject
Pore Pressure	Prior to Authorization to Inject

APPENDIX C

OPERATING REQUIREMENTS

MAXIMUM ALLOWABLE INJECTION PRESSURE:

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

WELL NAME	MAXIMUM ALLOWED INJECTION PRESSURE (psi)
	ZONE 1 (Upper)
Tar Sands Federal 11-33-8-17	1,510

INJECTION INTERVAL(S):

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

WELL NAME: Tar Sands Federal 11-33-8-17	APPROVED INJECTION INTERVAL (KB, ft)		FRACTURE GRADIENT (psi/ft)
	TOP	BOTTOM	
FORMATION NAME			
Green River Formation - Garden Gulch Member to Estimated top of Wasatch Formation at 6165 feet	3,826.00	6,165.00	0.744

ANNULUS PRESSURE:

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

MAXIMUM INJECTION VOLUME:

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

APPENDIX D

MONITORING AND REPORTING PARAMETERS

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

OBSERVE MONTHLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS	
OBSERVE AND RECORD	Injection pressure (psig)
	Annulus pressure(s) (psig)
	Injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbls)

ANNUALLY	
ANALYZE	Injected fluid total dissolved solids (mg/l)
	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH

ANNUALLY	
REPORT	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and averaged annulus pressure(s) (psig)
	Each month's averaged injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

Records of all monitoring activities must be retained and made available for inspection at the following location:

APPENDIX E

PLUGGING AND ABANDONMENT REQUIREMENTS

PLUG NO. 1: Set cast iron bridge plug (CIBP) at 4795 feet. Set a 100-foot Class "G" cement plug on top of CIBP.

PLUG NO. 2: Set a 200-foot Class "G" cement plug inside of the 5-1/2 casing from 2000 feet to 2200 feet.

PLUG NO. 3: Set a Class "G" cement plug inside of the 5-1/2 inch casing from the surface to a depth of 342 feet.

PLUG NO. 4: Set a Class "G" cement plug from the surface to depth of 342 feet in the annulus between the 5-1/2 inch casing and the 8-5/8 inch casing.

The permittee will place 9.2 ppg plugging gel or bentonite mud between all cement plugs.

Tar Sands Federal #11-33-8-17

Spud Date: 5/3/97
 Put on Production: 9/18/98
 GL: 5140' KB: 5153'

Initial Production: 5 BOPD;
 18 MCFD; 1 BWPD

Proposed P & A
 Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 Jts. (291.97')
 DEPTH LANDED: 291.90 GL
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 120 cu ft Portland cement, set 6 1/2 ft to surf.

TOC @ Surface

C140' Base USDA's

Casing Shoe @ 292'

-292'

Pump 39 cu Class G Cement down 5-1/2" casing to 342'

*Set Cement Plug Surf to 342 in annulus
 PRODUCTION CASING between 5-7/8" & 8-5/8" Cas*

PRODUCTION CASING
 CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 13.5#
 LENGTH: 141 Jts. (2897.33)
 DEPTH LANDED: 5890' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 455 cu ft Hybrid cement & 310 cu ft isotropic
 CEMENT TOP AT: Surface

200' balanced plug (25 cu) Class G Cement over
 water zone 2000' to 2200'

*-380' - 382' Confining Zone
 -382' Garden Gash Mem
 -3840' - 3872' 80% Cement Bond*

100' (12 cu) Class G Cement plug on top of CBF

CBF @ 4795'

*4804' - Troughs Creek Mem
 4892' - 4897'*

PTD @ 5140'

ESOR @ 5150'

TD @ 5900'

*- Est 6045' Base of Carbonate Mem.
 - Est 6665' Wasatch Fm*

MC 4/1/03

Inland Resources Inc.
 Tar Sands Federal #11-33-8-17
 1990 PSL 1871 FWL
 N&SW Section 33-T&S-R17E
 Duchesne Co, Utah
 API #43-013-31861; Lease #UTU-77234

APPENDIX F

CORRECTIVE ACTION REQUIREMENTS

No corrective action required for either the Tar Sands Federal No. 11-33-8-17, or the three (3) producing Green River oil wells in the one-quarter (1/4) mile area-of-review.

STATEMENT OF BASIS

INLAND PRODUCTION COMPANY

TAR SANDS FEDERAL 11-33-8-17

DUCHESNE COUNTY, UT

EPA PERMIT NO. UT20959-06231

CONTACT: Emmett Schmitz
U. S. Environmental Protection Agency
Ground Water Program, 8P-W-GW
999 18th Street, Suite 300
Denver, Colorado 80202-2466
Telephone: 1-800-227-8917 ext. 6174

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

UIC Permits specify the conditions and requirements for construction, operation, monitoring and reporting, and plugging of injection wells to prevent the movement of fluids into underground sources of drinking water (USDWs). Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the conversion and operation of a "new" injection well or wells governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

PART I. General Information and Description of Facility

Inland Production Company
1401 Seventeenth Street
Suite 1000
Denver, CO 80202

on

September 24, 2003

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

Tar Sands Federal 11-33-8-17
1990' FSL @ 1871' FWL, NESW S33, T8S, R17E
Duchesne County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The Permit application, including the required information and data necessary to issue a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed by EPA and determined to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

TABLE 1.1		
WELL STATUS / DATE OF OPERATION		
CONVERSION WELLS		
Well Name	Well Status	Date of Operation
Tar Sands Federal 11-33-8-17	Conversion	N/A

Hydrogeologic Setting

Geologic Setting (TABLE 2.1)

**TABLE 2.1
GEOLOGIC SETTING
Tar Sands Federal 11-33-8-17**

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Green River: Garden Gulch Member to top of Wasatch Formation Est. 6165 ft	3,826.00	6,165.00	18,815.00	Sand-Shale-Carbonate

Proposed Injection Zone(s) (TABLE 2.2)

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by the confining zone which is free of known open faults or fractures within the Area of Review.

**TABLE 2.2
INJECTION ZONES
Tar Sands Federal 11-33-8-17**

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River Formation - Garden Gulch Member to Estimated top of Wasatch Formation at 6165 feet	3,826.00	6,165.00	18,815.00	0.744		N/A

* C - Currently Exempted
E - Previously Exempted
P - Proposed Exemption
N/A - Not Applicable

Confining Zone(s) (TABLE 2.3)

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

Underground Sources of Drinking Water (USDWs) (TABLE 2.4)

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

PART III. Well Construction (40 CFR 146.22)

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

Casing and Cementing (TABLE 3.1)

The construction plan for this well proposed for conversion to an injection well was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction and conversion details for this well are shown in TABLE 3.1.

Tubing and Packer

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

Tubing-Casing Annulus (TCA)

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

Monitoring Devices

The permittee will be required to install and maintain wellhead equipment allowing for monitoring pressures and providing access for sampling the injected fluid. This equipment includes: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) pressure gauges attached to the injection tubing and the TCA to monitor the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

Area Of Review

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less than one quarter (1/4) mile or a calculated zone of endangering influence. For Area Permits, a fixed width of not less than one quarter (1/4) mile for the circumscribing area may be used.

Corrective Action Plan

For wells in the AOR which are improperly sealed, completed, or abandoned, the applicant shall

develop a Corrective Action Plan (CAP) consisting of the steps or modifications that are necessary to prevent movement of fluid into USDWs.

The CAP will be incorporated into the Permit as APPENDIX F and become binding on the permittee.

TABLE 4.1 lists the wells in the AOR, and shows the well type, operating status, depth, top of casing cement and whether a CAP is required for this well.

PART V. Well Operation Requirements (40 CFR 146.23)

TABLE 5.1			
INJECTION ZONE PRESSURES			
Tar Sands Federal 11-33-8-17			
Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)
Green River Formation - Garden Gulch Member to Estimated top of Wasatch Formation at 6165 feet	4,892.00	0.744	1,510

Approved Injection Fluid

The approved injection fluid will be limited to a produced water mixture which meets requirements pursuant to 40 CFR § 144.6(b). The well also may be used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are not approved.

Injection Pressure Limitation

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit,

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

- FP = formation fracture pressure (measured at surface)
- fg = fracture gradient (from submitted data or tests)
- sg = specific gravity (of injected fluid)
- d = depth to top of injection zone (or top perforation)

Injection Volume Limitation

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs into an aquifer that has been exempted from protection as a USDW.

Mechanical Integrity (40 CFR 146.8)

An injection well has mechanical integrity if:

1. there is no significant leak in the casing, tubing, or packern (Part I); and
2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore (Part II).

The Permit prohibits injection into a well which lacks mechanical integrity.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A demonstration of mechanical integrity includes both internal (Part I) and external (Part II). The methods and frequency for demonstrating Part I and Part II mechanical integrity are dependant upon well-specific conditions as explained below:

PART VI. Monitoring, Recordkeeping and Reporting Requirements

Injection Well Monitoring Program

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, injection flow rate and cumulative fluid volume, and the maximum and average value for each must be determined for each month. This information is required to be reported annually as part of the Annual Report to the Director.

PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)

Plugging and Abandonment Plan

Prior to abandonment, this well must be plugged with cement in a manner which will not allow the movement of fluids either into or between USDWs. The plugging and abandonment plan is described in Appendix E of the Permit.

PART VIII. Financial Responsibility (40 CFR 144.52)

Demonstration of Financial Responsibility

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and

abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

Trust Fund, received September 30, 2002

Evidence of continuing financial responsibility is required to be submitted to the Director annually.

United States Environmental Protection Agency
Washington, DC 20460



Application To Transfer Permit

Name and Address of Existing Permittee	Name and Address of Surface Owner
--	-----------------------------------

<p>Locate Well and Outline Unit on Section Plat- 640 Acres.</p>	State	County	Permit Number
	Surface Location Description ___ 1/4 of ___ 1/4 of ___ 1/4 of ___ 1/4 of Section ___ Township ___ Range ___		
	Locate well in two directions from nearest lines of quarter section and drilling unit		
	Surface Location ___ ft. from (N/S) ___ Line of quarter section and ___ ft. from (E/W) ___ Line of quarter section.		
Well Activity		Well Status	Type of Permit
<input type="checkbox"/> Class I <input type="checkbox"/> Class II ___ Brine Disposal ___ Enhanced Recovery ___ Hydrocarbon Storage <input type="checkbox"/> Class III <input type="checkbox"/> Other		<input type="checkbox"/> Operating <input type="checkbox"/> Modification/Conversion <input type="checkbox"/> Proposed	<input type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells ___
Lease Number		Well Number	

Name(s) and Address(es) of New Owners(s)	Name and Address of New Operator
--	----------------------------------

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of a surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the Director.

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)	Signature	Date Signed
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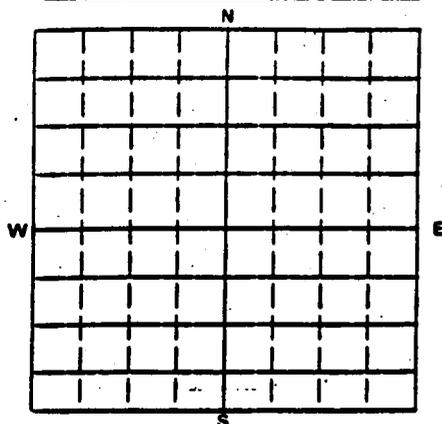
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CONTRACTOR

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT - 640 ACRES



STATE

COUNTY

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

1/4 of 1/4 of 1/4 of 1/4 of Section Township Range

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ____ ft. from (N/S) ____ Line of quarter section
and ____ ft. from (E/W) ____ Line of quarter section

WELL ACTIVITY

- Brine Disposal
- Enhanced Recovery
- Hydrocarbon Storage

Lease Name

Total Depth Before Rework

Total Depth After Rework

Date Rework Commenced

Date Rework Completed

TYPE OF PERMIT

- Individual
- Area
- Number of Wells ____

Well Number

WELL CASING RECORD - BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

WELL CASING RECORD - AFTER REWORK (Indicate Additions and Changes Only)

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL
USE ADDITIONAL SHEETS IF NECESSARY

WIRE LINE LOGS. LIST EACH TYPE

Log Types

Logged Intervals

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED



PLUGGING RECORD

NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CEMENTING COMPANY

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT - 640 ACRES

STATE _____ COUNTY _____

PERMIT NUMBER _____

SURFACE LOCATION DESCRIPTION

1/4 OF _____ 1/4 OF _____ 1/4 SECTION _____ TOWNSHIP _____ RANGE _____

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section
and _____ ft. from (E/W) _____ Line of quarter section

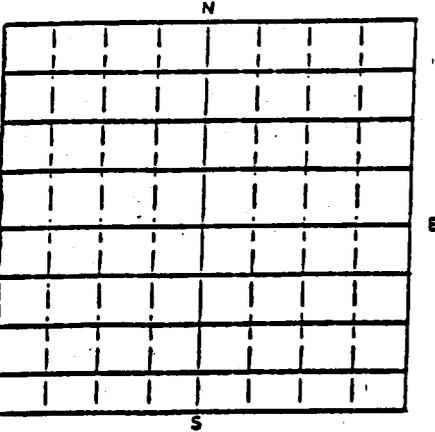
TYPE OF AUTHORIZATION

- Individual Permit
- Area Permit
- Rule

Number of Wells _____

Describe in detail the manner in which the fluid was placed and the method used in introducing it into the hole

Lease Name _____



CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB./FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE

- WELL ACTIVITY METHOD OF EMPLACEMENT OF CEMENT PLUGS
- CLASS I
 - CLASS II
 - Brine Disposal
 - Enhance Recovery
 - Hydrocarbon Storage
 - CLASS III
- The Balance Method
 - The Dump Sailer Method
 - The Two-Plug Method
 - Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)							
Depth to Bottom of Tubing or Drill Pipe (ft.)							
Sacks of Cement To Be Used (each plug)							
Slurry Volume To Be Pumped (cu. ft.)							
Calculated Top of Plug (ft.)							
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement or Other Material (Class III)							

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

From	To	From	To

Signature of Cementer or Authorized Representative

Signature of EPA Representative

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (REF. 40 CFR 122.22)

NAME AND OFFICIAL TITLE (Please type or print)	SIGNATURE	DATE SIGNED



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

APR 19 1994

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 34
Cement bond logging techniques and interpretation

FROM: Tom Pike, Chief *[Signature]*
UIC, Direct Implementation Section

TO: All Section Staff
Montana Operations Office

These procedures are to be followed when running and interpreting cement bond logs for injection and production (area of review) wells.

PART I - PREPARE THE WELL

Allow cement to cure for a sufficient time to develop full compressive strength. A safe bet is to let the cement cure for 72 hours. If you run the bond log before the cement achieves its maximum compressive strength, the log may show poor bonding. Check cement handbooks for curing times.

Circulate the hole with a fluid (either water or mud) of uniform consistency. Travel times are influenced by the type of fluid in the hole. If the fluid changes between two points, the travel times may "drift," causing difficulty in interpretation and quality control.

Be prepared to run the cement bond log under pressure to reduce the effects of micro-annulus. Micro-annulus may be caused by several reasons, but the existence of a micro-annulus does not necessarily destroy the cement's ability to form a hydraulic seal. If the log shows poor bonding, rerun the log with the slightly more pressure on the casing as was present when the cement cured. This will cause the casing to expand against the cement and close the micro-annulus.

PART II - PARAMETERS TO LOG

Amplitude (mV) - This curve shows how much acoustic signal reaches a receiver and is an important indicator of cement bond. Record the amplitude on the 3 foot spaced receiver.

Travel time (μ s) - This curve shows the amount of time it takes an acoustic signal to travel between the source and a receiver. For free pipe of a given size and weight, the travel time between points is very predictable, although variable among different company's tools. Service companies should be able to provide accurate estimates of travel times for free pipe of a given size and weight. Travel time is required as a quality control measurement. Record the travel time on the 3 foot spaced receiver.

Variable density (VDL) - Pipe signals, formation signals, and fluid signals are usually easy to recognize on the VDL. If these signals can be identified, a practical determination for the presence or absence of cement can be made. VDL is logged on the 5 foot spaced receiver.

Casing collar locator (CCL) - Used to correlate the bond log with cased hole logs and to match casing collars with the collars that show up on the VDL portion of the display.

Gamma ray - Used to correlate the bond log with other logs.

PART III - LOGGING TECHNIQUE

Calibrate the tool in free pipe at the shop, prior to, and following the log run. Include calibration data with log.

Run receivers spaced 3 feet and 5 feet from transmitter.

Run at least 3 bow-type or rigid aluminum centralizers in vertical holes, 6 centralizers in directional holes. A CCL is not an adequate centralizer.

Complete log header with casing/cement data, tool/panel data, gate settings and tool sketch showing centralizers.

Set the amplitude gate so that skipping does not occur at amplitudes greater than 5 mV.

Record amplitude with fixed gate and note position on log.

Record amplified amplitude on a 5X scale for low amplitudes.

Record amplitude and travel time on the 3 foot receiver.

Record travel time on a 100 μ s scale (150 - 250, 200 - 300).

Logging speed should be approximately 30 ft/min.

Log repeat sections.

PART IV - QUALITY CONTROL

Compare the tool calibration data to see if the tool "drifts" during logging. Differences in the calibration data may require you to re-log the well to obtain reliable data.

Compare repeat sections to see if logging results are repeatable.

Check the logged free pipe travel times with the service company charts for the specific tool and casing size used. Since the travel times depend on such factors as casing weight, type of fluid in the hole, etc., these charts should be used only as guidelines. When you are confident of the

free-pipe travel times as seen on the log, use them. When interpreting the log, a decrease in travel time (faster times) with simultaneous reduction of amplitude may show a de-centered tool. A 4 to 5 micro-second (μs) decrease in travel time corresponds to about a 35% loss of amplitude. A decrease in travel time more than 4 to 5 μs is unacceptable.

PART V - LOG INTERPRETATION

Do not rely on the service company charts for amplitudes corresponding to a good bond. These amplitudes depend on many factors: type of cement used, fluid in the hole, etc.

To estimate bond index, choose intervals on the log that correspond to 0% bond and 100% bond. Read the amplitude corresponding to 100% bond from the best-bonded interval on the log (NOTE: the accuracy of this amplitude reading is very critical to the bond index calculations). Next, find the amplitude corresponding to 0% bond. Some bond logs may not include a section with free pipe. In this instance, choose the appropriate free-pipe travel time from the service company charts for your specific tool, or from the generalized chart (TABLE 2) at the end of this guidance. To calculate a bond index of 80%, use the following equation:

$$A_{80} = 10^{[(0.2) \log(A_0) + (0.8) \log(A_{100})]}$$

where:

A_{80} = Amplitude at 80% bond (mV)
 A_0 = Amplitude at 0% bond (mV)
 A_{100} = Amplitude at 100% bond (mV)

EXAMPLE

As an example, consider a bond log showing the following conditions:

- Free pipe (0% bond) amplitude at 81 mV.
- 100 % bond amplitude at 1 mV.

Substituting the above values into the equation results in:

$$A_{80} = 10^{[(0.2) \log(81) + (0.8) \log(1)]}$$

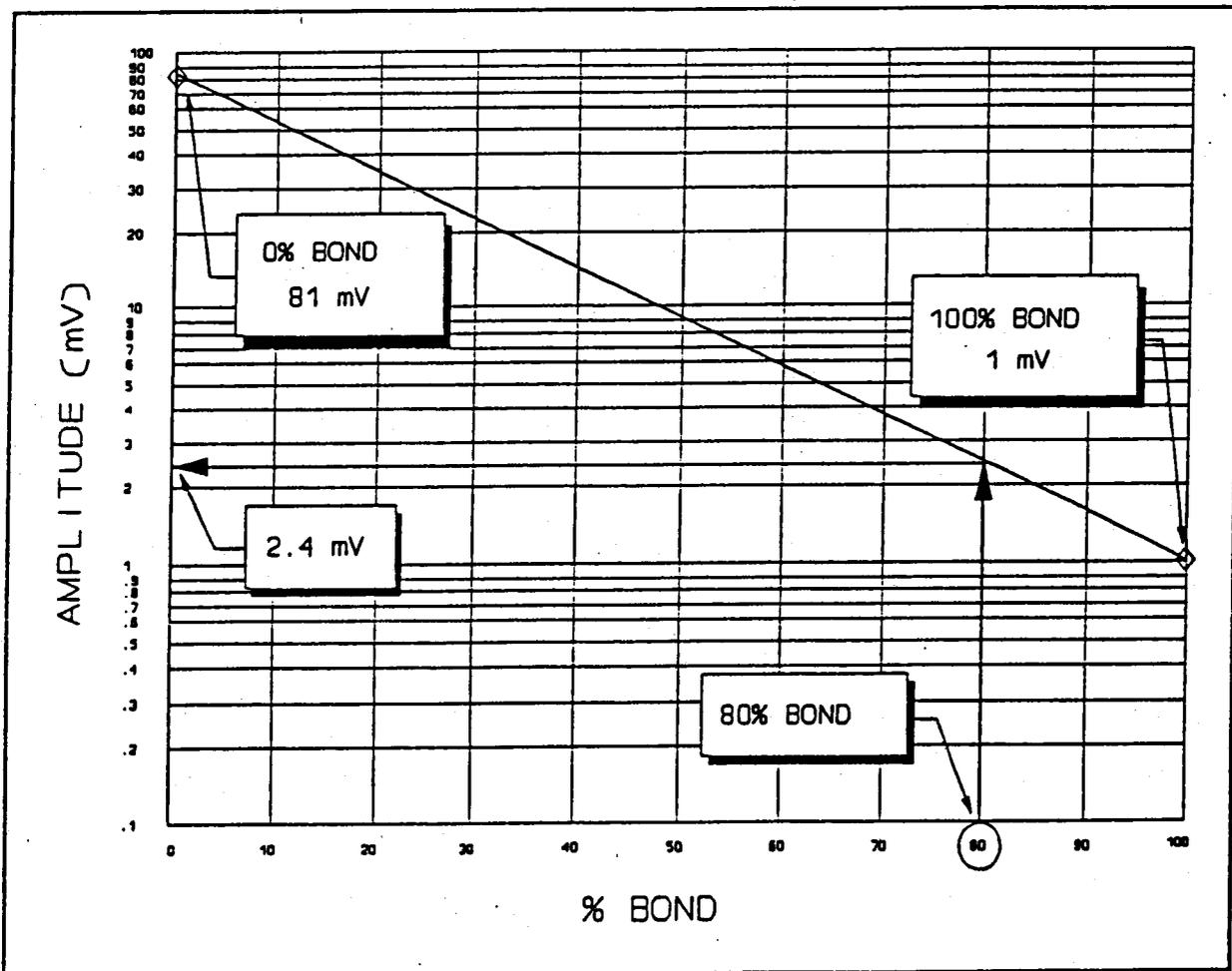
$$A_{80} = 2.41 mV$$

Another way to calculate the amplitude at 80% bond is by plotting these same log readings on a semi-log chart.

Plot the values for 0% Bond and 100% Bond vs. their respective Amplitudes on a semi-log chart - amplitudes on the log scale (y-axis), and bond indices on the linear scale (x-axis). Then, connect the points with a straight line.

To estimate the amplitude corresponding to an 80% Bond Index, enter the graph on the x-axis at 80% bond. Draw a straight line upward until you reach the diagonal line connecting the 0% and 100% points. Continue by drawing a horizontal line to the y-axis. This point on the y-axis is the amplitude corresponding to an 80% Bond Index.

Using the values from the example above, your chart will look like that shown below:



In this example, 80% bond shows an amplitude of 2.4 mV.

A convenient way to evaluate the log is to draw a line on the bond log's amplified amplitude (5X) track corresponding to the calculated 80% bond amplitude. Whenever the logged amplified amplitude (5X) curve drops below (to the left of) the drawn line, this indicates a bond of 80% or more.

PART IV - CONCLUSIONS - REMINDERS

Different pipe weights and cement types will affect the log readings, so be mindful of these factors in wells with varying pipe weights and staged cement or squeeze jobs.

Collars generally do not show up on the VDL track in well-bonded sections of casing.

Longer (slower) travel time due to cycle skipping or cycle stretch usually suggests good bonding.

Shorter (faster) travel times indicate a de-centered tool or a fast formation and will provide erroneous amplitude readings that make evaluation impossible through that section of the log. Fast formations do not assure that the cement contacts the formation all around the borehole.

Although the bond index is important, you should not base your assessment of the cement quality on that one factor alone. You should use the VDL to support any indication of bonding. Also, you must know how each portion of the CBL (VDL, travel time, amplitude, etc.) influences another.

Most 3'-5' CBL's cannot identify a 1/2" channel in cement. Therefore, you also need to consider the thickness of a cemented section needed to provide zone isolation. For adequate isolation in injection wells, the log should indicate a continuous 80% or greater bond through the following intervals as seen in TABLE 1, below:

TABLE 1 - INTERVALS FOR ADEQUATE BOND

PIPE DIAMETER (in)	CONTINUOUS INTERVAL WITH BOND \geq 80% (ft)
4-1/2	15
5	15
5-1/2	18
7	33
7-5/8	36
9-5/8	45
10-3/4	54

Adequately bonded cement by itself will not prevent fluid movement. If the bond log shows adequate bond through an interval where the geology allows fluid to move (permeable and/or fractured zones), fluids may move around perfectly bonded cement by travelling through the formation. Always cross-check your bond log with open hole logs to see that you have adequate bonding through the proper interval(s).

TABLE 2 - TRAVEL TIMES AND AMPLITUDES FOR FREE PIPE
(3 FT RECEIVER)

CASING SIZE (in)	CASING WEIGHT (lb/ft)	TRAVEL TIME (μ s)		AMPLITUDE (mV)
		1-11/16" TOOL	3-5/8" TOOL	
4-1/2	9.5	252	233	81
	11.6	250	232	81
	13.5	249	230	81
5	15.0	257	238	76
	18.0	255	236	76
	20.3	253	235	76
5-1/2	15.5	266	248	72
	17.0	265	247	72
	20.0	264	245	72
	23.0	262	243	72
7	23.0	291	271	62
	26.0	289	270	62
	29.0	288	268	62
	32.0	286	267	62
	35.0	284	265	62
	38.0	283	264	62
7-5/8	26.4	301	281	59
	29.7	299	280	59
	33.7	297	278	59
	39.0	295	276	59
9-5/8	40.0	333	313	51
	43.5	332	311	51
	47.0	330	310	51
	53.5	328	309	51
10-3/4	40.5	354	333	48
	45.5	352	332	48
	51.0	350	330	48
	55.5	349	328	48

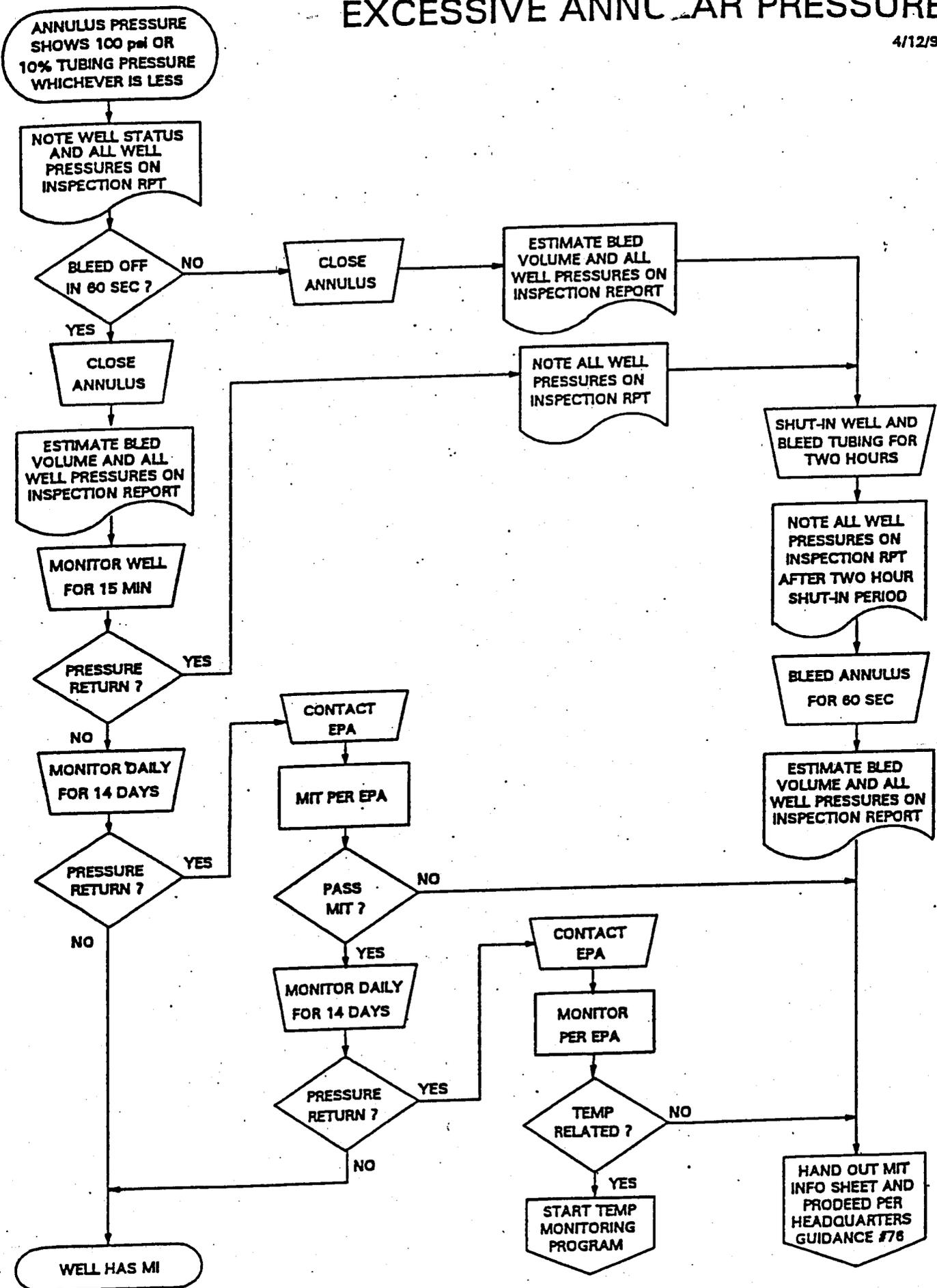


OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES

- 1) IMMEDIATELY - Cease injection and shut-in the well as rapidly as feasible. In no case shall the well remain in operation beyond 48 hours unless Tom Pike, Chief, Underground Injection Control Implementation (UIC-I) Section [(303) 293-1544] allows for temporary operation of the well.
- 2) WITHIN 24 HOURS - Verbally notify the UIC-I Section Chief of MIT failure even in cases where the failure is detected during a test which was witnessed by a UIC inspector.
- 3) WITHIN 5 DAYS - Submit a written follow-up report documenting test results, remediation taken or a proposed remediation plan and any limits established by the Director on appropriate volume or time for continued injection operation.

EXCESSIVE ANNULAR PRESSURE

4/12/94



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 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: ____/____/____
 Test conducted by: _____
 Others present: _____

Well Name: _____	Type: ER SWD	Status: AC TA UC
Field: _____		
Location: _____	Sec: ____ T ____ N/S R ____ E/W	County: _____ State: ____
Operator: _____		
Last MIT: ____/____/____	Maximum Allowable Pressure: _____	PSIG

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

Pre-test casing/tubing annulus pressure: _____ psig

MITDATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	psig	psig	psig
End of test pressure	psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	psig	psig	psig
5 minutes	psig	psig	psig
10 minutes	psig	psig	psig
15 minutes	psig	psig	psig
20 minutes	psig	psig	psig
25 minutes	psig	psig	psig
30 minutes	psig	psig	psig
minutes	psig	psig	psig
minutes	psig	psig	psig
RESULT	<input 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 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 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: ____/____/____

Test conducted by: _____

Others present: _____

Well Name: _____	Type: ER SWD	Status: AC TA UC
Field: _____		
Location: _____	Sec: ____ T ____ N/S R ____ E/W	County: _____ State: ____
Operator: _____		
Last MIT: ____/____/____	Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test? Yes No

Initial test for permit? Yes No

Test after well rework? Yes No

Well injecting during test? Yes No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: _____ psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	psig	psig	psig
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CASING / TUBING ANNULUS PRESSURE			
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5 minutes	psig	psig	psig
10 minutes	psig	psig	psig
15 minutes	psig	psig	psig
20 minutes	psig	psig	psig
25 minutes	psig	psig	psig
30 minutes	psig	psig	psig
minutes	psig	psig	psig
minutes	psig	psig	psig
RESULT	<input 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

chart documenting the actual annulus test pressures must be attached to the submittal. The tubing pressure at the beginning and end of each test must be recorded. The volume of the annulus fluid bled back at the surface after the test should be measured and recorded on the form. This can be done by bleeding the annulus pressure off and discharging the associated fluid into a five gallon container. The volume information can be used to verify the approximate location of the packer.

Procedures for Pressure Test

1. Scheduling the test should be done at least two (2) weeks in advance.
2. Information on the well completion (location of the packer, location of perforations, previous cement work on the casing, size of casing and tubing, etc.) and the results of the previous MIT test should be reviewed by the field inspector in advance of the test. Regional UIC Guidance #35 should also be reviewed. Information relating to the previous MIT and any well workovers should be reviewed and taken into the field for verification purposes.
3. All Class I wells and Class II SWD wells should be shut-in prior to the test. A 12 to 24-hour shut-in is preferable to assure that the temperature of the fluid in the wellbore is stable.
4. Class II enhanced recovery wells may be operating during the test, but it is recommended that the well be shut-in if possible.
5. The operator should fill the casing/tubing annulus with inhibited fluid at least 24 hours in advance, if possible. Filling the annulus should be undertaken through one valve with the second valve open to allow air to escape. After the operator has filled the annulus, a check should be made to assure that the annulus will remain full. If the annulus can not maintain a full column of fluid, the operator should notify the Director and begin a rework. The operator should measure and report the volume of fluid added to the annulus. If not already the case, the casing/tubing valves should be closed, at least, 24 hours prior to the pressure test.

Following steps are at the well:

6. Read tubing pressure and record on the form. If the



well is shut-in, the reported information on the actual maximum operating pressure should be used to determine test pressures.

7. Read pressure on the casing/tubing annulus and record value on the form. If there is pressure on the annulus, it should be bled off prior to the test. If the pressure will not bleed-off, the guidance on well failures (Region VIII UIC Section Guidance #35) should be followed.
8. Ask the operator for the date of the last workover and the volume of fluid added to the annulus prior to this test and record information on the form.
9. Hook-up well to pressure source and apply pressure until test value is reached.
10. Immediately disconnect pressure source and start test time (If there has been a significant drop in pressure during the process of disconnection, the test may have to be restarted). The pressure gages used to monitor injection tubing pressure and annulus pressure should have a pressure range which will allow the test pressure to be near the mid-range of the gage. Additionally, the gage must be of sufficient accuracy and scale to allow an accurate reading of a 10 percent change to be read. For instance, a test pressure of 600 psi should be monitored with a 0 to 1000 psi gage. The scale should be incremented in 20 psi increments.
11. Record tubing and annulus pressure values every five (5) minutes.
12. At the end of the test, record the final tubing pressure.
13. If the test fails, check the valves, bull plugs and casing head close up for possible leaks. The well should be retested.
14. If the second test indicates a well failure, the Region should be informed of the failure within 24 hours by the operator, and the well should be shut-in within 48 hours per Headquarters guidance #76. A follow-up letter should be prepared by the operator which outlines the cause of the MIT failure and proposes a potential course of action. This report should be submitted to EPA within five days.



15. Bleed off well into a bucket, if possible, to obtain a volume estimate. This should be compared to the calculated value obtained using the casing/tubing annulus volume and fluid compressibility values.
16. Return to office and prepare follow-up.

Alternative Test Option

While it is expected that the test procedure outlined above will be applicable to most wells, the potential does exist that unique circumstances may exist for a given well that precludes or makes unsafe the application of this test procedure. In the event that these exceptional or extraordinary conditions are encountered, the operator has the option to propose an alternative test or monitoring procedures. The request must be submitted by the operator in writing and must be approved in writing by the UIC-Implementation Section Chief or equivalent level of management.

Attachment



would be applied if the tubing or packer fails; 3) to make the Region's test procedure consistent with the procedures utilized by other Region VIII Primacy programs; and 4) to provide a procedure which can be easily administered and is applicable to all class I and II wells. Although there are several methods allowed for determining mechanical integrity, the principal method involves running a pressure test of the tubing/casing annulus. Region VIII's procedure for running a pressure test is intended to aid UIC field inspectors who witness pressure tests for the purpose of demonstrating that a well has Part I of Mechanical Integrity. The guidance is also intended as a means of informing operators of the procedures required for conducting the test in the absence of an EPA inspector.

Pressure Test Description

Test Frequency

The mechanical integrity of an injection well must be maintained at all times. Mechanical integrity pressure tests are required at least every five (5) years. If for any reason the tubing/packer is pulled, however, the injection well is required to pass another mechanical integrity test prior to recommencing injection regardless of when the last test was conducted. The Regional UIC program must be notified of the workover and the proposed date of the pressure test. The well's test cycle would then start from the date of the new test if the well passes the test and documentation is adequate. Tests may be required on a more frequent basis depending on the nature of the injectate and the construction of the well (see Section guidance on MITs for wells with cemented tubing and regulations for Class I wells).

Region VIII's criteria for well testing frequency is as follows:

1. Class I hazardous waste injection wells; initially [40 CFR 146.68(d)(1)] and annually thereafter;
2. Class I non-hazardous waste injection wells; initially and every two (2) years thereafter, except for old permits (such as the disposal wells at carbon dioxide extraction plants which require a test at least every five years);
3. Class II wells with tubing, casing and packer; initially and at least every five (5) years thereafter;
4. Class II wells with tubing cemented in the hole; initially and every one (1) or two (2) years thereafter



depending on well specific conditions (See Region VIII UIC Section Guidance #36);

5. Class II wells which have been temporarily abandoned (TAd) must be pressure tested after being shut-in for two years; and
6. Class III uranium extraction wells; initially.

Test Pressure

To assure that the test pressure will detect significant leaks and that the casing is subjected to pressure similar to that which would be applied if the tubing or packer fails, the tubing/casing annulus should be tested at a pressure equal to the maximum allowed injection pressure or 1000 psig whichever is less. The annular test pressure must, however, have a difference of at least 200 psig either greater or less than the injection tubing pressure. Wells which inject at pressures of less than 300 psig must test at a minimum pressure of 300 psig, and the pressure difference between the annulus and the injection tubing must be at least 200 psi.

Test Criteria

1. The duration of the pressure test is 30 minutes.
2. Both the annulus and tubing pressures should be monitored and recorded every five (5) minutes.
3. If there is a pressure change of 10 percent or more from the initial test pressure during the 30 minute duration, the well has failed to demonstrate mechanical integrity and should be shut-in until it is repaired or plugged.
4. A pressure change of 10 percent or more is considered significant. If there is no significant pressure change in 30 minutes from the time that the pressure source is disconnected from the annulus, the test may be completed as passed.

Recordkeeping and Reporting

The test results must be recorded on the attached form. The annulus pressure should be recorded at five (5) minute intervals. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on the attached form or an equivalent form and a pressure recording





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 39
Pressure testing injection wells for Part I (internal)
Mechanical Integrity

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

Introduction

The Underground Injection Control (UIC) regulations require that an injection well have mechanical integrity at all times (40 CFR 144.28 (f)(2) and 40 CFR 144.51 (q)(1)). A well has mechanical integrity (40 CFR 146.8) if:

- (1) There is no significant leak in the tubing, casing or packer; and
- (2) There is no significant fluid movement into an underground source of drinking water (USDW) through vertical channels adjacent to the injection wellbore.

Definition: Mechanical Integrity Pressure Test for Part I. A pressure test used to determine the integrity of all the downhole components of an injection well, usually tubing, casing and packer. It is also used to test tubing cemented in the hole by using a tubing plug or retrievable packer. Pressure tests must be run at least once every five years. If for any reason the tubing/packer is pulled, the injection well is required to pass another mechanical integrity test of the tubing casing and packer prior to recommencing injection regardless of when the last test was conducted. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on either the attached form or an equivalent form containing the necessary information. A pressure recording chart documenting the actual annulus test pressures must be attached to the form.

This guidance addresses making a determination of Part I of Mechanical Integrity (no leaks in the tubing, casing or packer). The Region's policy is: 1) to determine if there are significant leaks in the tubing, casing or packer; 2) to assure that the casing can withstand pressure similar to that which



SUBJECT: GROUND WATER SECTION GUIDANCE NO. 35
Procedures to follow when excessive annular pressure is
observed on a well.

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

The following procedure is intended as an aid to UIC field inspectors when they encounter excessive annular pressure on a well. Excessive annular pressure is defined as 100 psi or 10% of the tubing pressure, whichever is less.

Usually, annular pressure is a direct indication of a loss of mechanical integrity. In some instances, recurring annular pressure may be caused by fluctuations in the temperature of the injected fluid. These temperature fluctuations may cause the annular pressure to increase when a hot fluid is being injected and decrease as the temperature of the injected fluid cools. The presence of temperature-induced pressure on the annulus does not indicate a malfunction in the casing/tubing/packer system and is not considered a loss of mechanical integrity. Wells exhibiting recurring temperature-induced annular pressure may be allowed to continue injecting if a temperature monitoring program is approved and followed.

This guidance was written to help determine the cause of annular pressure. When the procedures in this guidance are followed, any major mechanical integrity problems (a breach in the casing/tubing/packer system) will become apparent quickly. A quick determination will allow the operator to begin follow-up procedures immediately to prevent contamination to USDWs.

Use Section Guidance No. 35 to determine if the well has experienced a loss of mechanical integrity. If you find that there is a loss of mechanical integrity, use *Headquarters Guidance No. 76. - Follow-up to loss of Mechanical Integrity for Class II Wells* to bring the well back into compliance. The use of Section Guidance No. 35 is not to be confused with, nor does it supersede any provision of Headquarters Guidance No. 76. Instead, the two guidance documents are meant to work together to identify and to remedy any potential mechanical integrity failure.

A flowchart for Section Guidance No. 35 is included for quick reference in the field.

PROCEDURES TO FOLLOW WHEN EXCESSIVE ANNULAR PRESSURE IS OBSERVED

During field inspections, the following procedures should be followed when excessive annular pressure is observed. Excessive annular pressure is defined as 100 psi or 10% of the tubing pressure, whichever is less.

NOTE CONDITIONS AT THE WELL

Note tubing and annular pressure readings, and the operating status of the well (injecting, shut-in, etc.) on the UIC inspection form.

SEE IF ANNULUS PRESSURE WILL BLEED-OFF

Attempt to bleed the pressure from the annulus by having the operator open the annulus (for a maximum of sixty seconds).

It is the operator's responsibility to collect and dispose of any fluids bled from the annulus.

DID THE ANNULAR PRESSURE BLEED TO 0 PSI WITHIN SIXTY SECONDS?

YES

NO

Have the operator close the annulus.

Have the operator close the annulus.

On your inspection form note the volume of fluid (or gas) bled from the annulus during the sixty seconds, and the tubing and annulus pressures.

On your inspection form note the volume of fluid (or gas) bled from the annulus during the sixty seconds, and the tubing and annulus pressures.

Have the operator shut the well in for 2 hours, and if possible, bleed pressure from the injection tubing. Record the tubing and annulus pressure after two hours.

Bleed off the annulus for 60 seconds. Record the tubing and annulus pressures after bleed-off, and estimate the volume bled off.

INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES.

END PROCEDURE.

SEE IF PRESSURE RETURNS WITHIN 15 MINUTES

Continue to monitor the well for annulus pressure return for at least 15 minutes after the annulus valve is closed.

DOES PRESSURE
RETURN TO THE
ANNULUS AFTER 15
MINUTES?

YES

NO

On your inspection form, note the annulus and tubing pressures recorded after 15 minutes.

Have the operator shut the well in for 2 hours, and if possible, bleed pressure from the injection tubing. Record the tubing and annulus pressure after two hours.

Bleed off the annulus for 60 seconds. Record the tubing and annulus pressures after bleed-off, and estimate the volume bled off.

INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES.

END PROCEDURE.

Require the operator to monitor and report to EPA with the annulus and tubing pressures for at least 14 days to see if pressure returns to the annulus.

Instruct the operator to contact EPA as soon as any pressure returns to the annulus.

DOES PRESSURE
RETURN TO THE
ANNULUS WITHIN
14 DAYS?

YES

NO

EPA Technical Expert will design a proper Mechanical Integrity test.

Compliance officer will require the operator to conduct the test within 14 days.

The well is considered to have mechanical integrity.

END PROCEDURE.

DOES THE WELL
PASS THE MIT?

YES

NO

Require the operator to monitor and report to EPA with the annulus and tubing pressures for at least 14 days to see if pressure returns to the annulus.

Instruct the operator to contact EPA as soon as any pressure returns to the annulus.

INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES.

END PROCEDURE.

DOES PRESSURE
RETURN TO THE
ANNULUS WITHIN
14 DAYS?

YES

NO

EPA Technical Expert will design a proper Monitoring Program to determine the cause of recurrent annular pressure.

The well is considered to have mechanical integrity.

END PROCEDURE.

Compliance officer will require the operator to begin the Monitoring program within 14 days.

Conduct unannounced inspections at the well during the Monitoring Program.

IS THE ANNULUS
PRESSURE CAUSED
BY TEMPERATURE?

YES

NO

EPA Technical Expert will design a proper Temperature Monitoring Program that allows injection to continue while tracking relationship between temperature and recurrent annulus pressure.

INFORM THE OPERATOR THAT THE WELL HAS AN APPARENT MECHANICAL INTEGRITY FAILURE and provide the operator with the guidance that discusses OPERATOR RESPONSIBILITIES FOLLOWING MECHANICAL INTEGRITY FAILURES.

Compliance officer will require the operator to cease injection immediately if the operator fails to follow the Temperature Monitoring Program.

END PROCEDURE.

Compliance officer will require the operator to cease injection immediately if recurrent annular pressures cannot be explained by the results of the Temperature Monitoring Program.

Compliance officer will require annual Mechanical Integrity Tests using the standard pressure method.

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 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: ____/____/____

Test conducted by: _____

Others present: _____

Well Name: _____	Type: ER SWD	Status: AC TA UC
Field: _____		
Location: _____	Sec: _____	T _____ N/S R _____ E/W County: _____ State: _____
Operator: _____		
Last MIT: ____/____/____	Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test? Yes No

Initial test for permit? Yes No

Test after well rework? Yes No

Well injecting during test? Yes No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: _____ psig

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 300
DENVER, COLORADO 80202-2466

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

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

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

A demonstration of MI is a two part process:

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

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

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

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

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



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

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

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

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

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



14-DAY PRESSURE MONITORING

Please use this form to report data for a 14-day period after pressure is bled from the tubing-casing annulus. Please telephone EPA in Denver as soon as possible when/if pressure returns to the annulus. This data will be used to determine the cause(s) of recurrent annular pressure.

NOTE: DO NOT BLEED PRESSURE FROM ANNULUS DURING THE 14-DAY MONITORING PERIOD.

	DATE	TIME	ANNULUS PRESSURE (psi)	TUBING PRESSURE (psi)	WELL INJECTING (YES/NO)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					

WELL NAME: _____

ATOR: _____

SIGNATURE: _____

DATE: _____

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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU77234
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: BLACKJACK UNIT
8. WELL NAME and NUMBER: TAR SANDS FED 11-33
9. API NUMBER: 4301331861
10. FIELD AND POOL, OR WILDCAT: Monument Butte

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	
2. NAME OF OPERATOR: Inland 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: 1990 FSL 1871 FWL	COUNTY: Duchesne
QTR./QTR. SECTION, TOWNSHIP, RANGE, MERIDIAN: NE/SW, 33, T8S, R17E	STATE: Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will <hr/> <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: <u>07/02/2004</u>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER

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

Two new perforations were added in the Green River Formation. The PB11 sds 4617'-4624' w/4 JSPF and the CP3 sds w/4 JSPF for the total of 56 shots. The well was also converted from a producing to an injection well on 6/23/04. The rods and tubing anchor were removed and a packer was inserted in bottom hole assembly 4527'. On 6/28/04 Mr. Dan Jackson w/EPA was notified of the intent to conduct a MIT on the casing. On 6/30/04 the casing was pressured to 1315 psi w/ no pressure loss charted in the 1/2 hour test. No governmental agencies were able to witness the test.

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

NAME (PLEASE SIGN) <u>Krishna Russell</u>	TITLE <u>Production Clerk</u>
SIGNATURE <u>Krishna Russell</u>	DATE <u>July 02, 2004</u>

(This space for State use only)

RECEIVED
JUL 06 2004
 DIV. OF OIL, GAS & MINING

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: _____ Date: 6/30/04
 Test conducted by: FRET LORE
 Others present: _____

Well Name: <u>22 SANDS SEP 11-33-817</u>	Type: ER SWD	Status: AC TA UC
Field: <u>BLACK JACK UNIT</u>		
Location: <u>NE1SW</u>	Sec: <u>33 T 8 N/S R 17 E/W</u>	County: <u>PROBESSE</u> State: <u>UT</u>
Operator: <u>SWAP</u>		
Last MIT: <u>- / N* / -</u>	Maximum Allowable Pressure: _____	PSIG

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

Pre-test casing/tubing annulus pressure: 0 psig

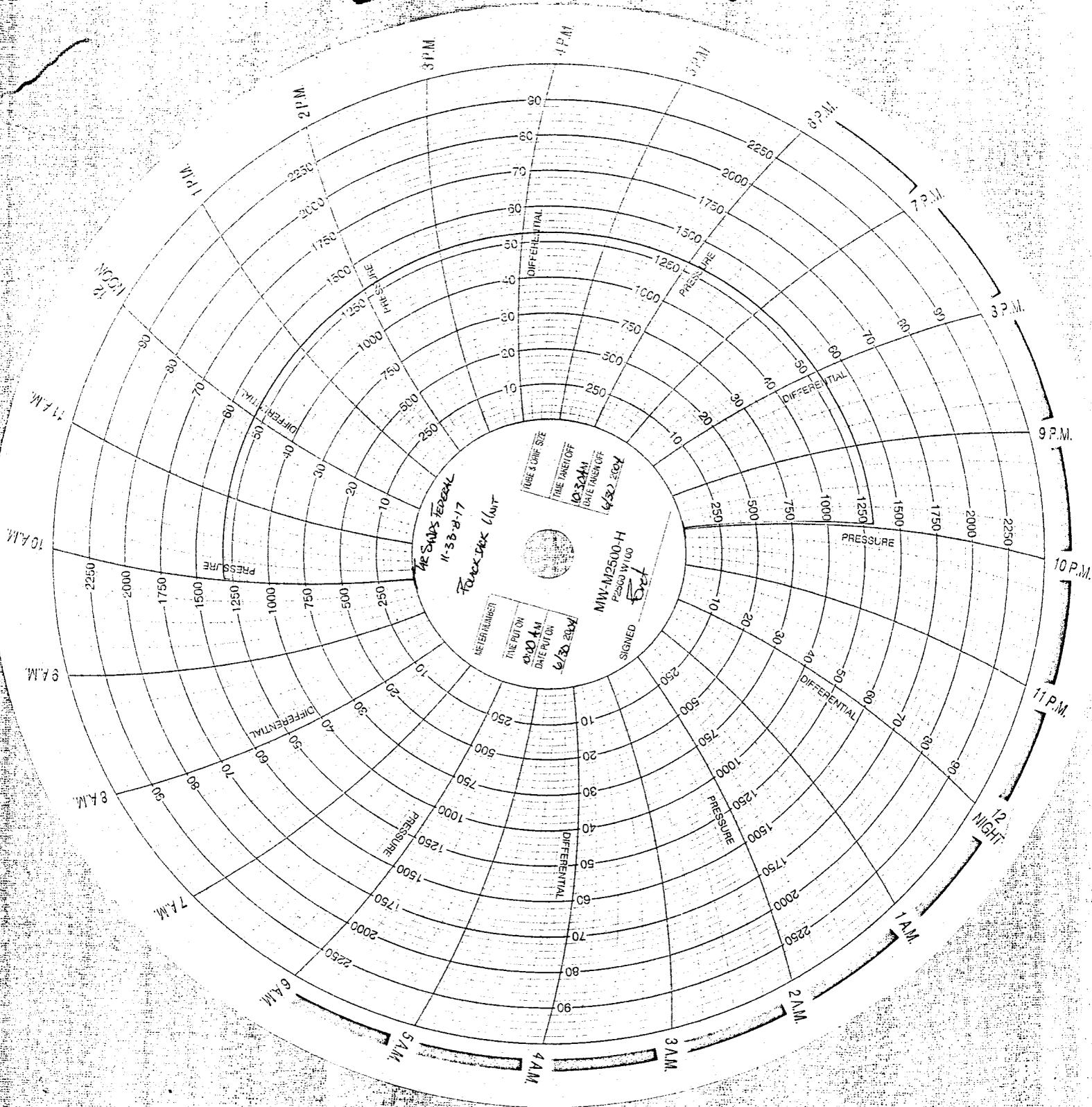
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	<u>60</u> psig	psig	psig
End of test pressure	<u>60</u> psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	<u>1315</u> psig	psig	psig
5 minutes	<u>1315</u> psig	psig	psig
10 minutes	<u>1315</u> psig	psig	psig
15 minutes	<u>1315</u> psig	psig	psig
20 minutes	<u>1315</u> psig	psig	psig
25 minutes	<u>1320</u> psig	psig	psig
30 minutes	<u>1320</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

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

MECHANICAL INTEGRITY PRESSURE TEST

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

Signature of Witness: _____



11:45 AM

12:00 AM

12:15 AM

12:30 AM

12:45 AM

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1:15 AM

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
<http://www.epa.gov/region08>

Ref: 8P-W-GW

JUL 22 2004

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

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

RECEIVED
JUL 26 2004
DIV. OF OIL, GAS & MINING

RE: **180-Day Limited Authorization to Inject
Tar Sands Federal No. 11-33-8-17
NE SW Sec. 33-T8S-R17E
EPA Well Permit No. UT20959-06231
Duchesne County, Utah**

Dear Mr. Gerbig:

The Inland Production Company (Inland) submission of **Prior to Commencing Injection** documents, on July 2, 2004, did contain all information required to fulfill the Environmental Protection Agency's (EPA) **Prior to Commencing Injection** requirements, as cited in the **Tar Sands Federal No. 11-33-8-17 Permit, UT20959-06231: Part II, Section C. 1**. The submitted data included an EPA Well Rework Form (Form No. 7520-12), a Part I (Internal) Mechanical Integrity Test, and the injection zone pore pressure. All data was reviewed and approved by the EPA on July 15, 2004.

The EPA is hereby authorizing injection into the Tar Sands Federal No. 11-33-8-17 for a limited period of up to one hundred and eighty (180) calendar days herein referred to as the "Limited Authorized Period". **The "180-Day Limited Authorization Period" will commence upon the first date of enhanced recovery injection.** The permittee is responsible for notifying Mr. Dan Jackson, of my office, by letter, within five (5) working days of the date that enhanced recovery injection began. The maximum surface injection pressure (MSIP) shall not exceed 1510 psig.

Because the cement bond log submitted for this well did not show an adequate interval of 80% or greater bond index cement through the confining zone overlying the Garden Gulch Member, **the operator is required to demonstrate Part II (External) Mechanical Integrity (Part II MI) within the 180-day "Limited Authorized Period"**. Approved tests for demonstrating Part II (External) MI include a Temperature Survey, a Noise Log or Oxygen Activation Log, and Region 8 may also accept results of a Radioactive Tracer Survey under certain circumstances. The "Limited Authorized Period" allows injection for the purpose of



stabilizing the injection formation pressure prior to demonstrating Part II (External) MI, which is necessary because the proposed injection zone is under-pressured due to previous oil production from the zone, and the tests rely on stable formation pressure. Results of tests shall be submitted to, and written approval with authority to re-commence injection received from, EPA prior to resuming injection following the "Limited Authorized Period". Copies of current Region 8 Guidelines for conducting Part II (External) Mechanical Integrity Tests will be submitted upon request.

Should the operator apply for an increase to the MSIP at any future date, a demonstration of Part II (External) MI must be conducted in addition to the Step-Rate Test. The operator must receive prior authorization from the Director in order to inject at pressures greater than the permitted MSIP during the test(s).

If you have any questions in regard to the above action, please contact Dan Jackson at 1.800.227.8917 (Ext. 6155). Results from the Part II (External) MI test, should be mailed directly to the **ATTENTION: DAN JACKSON**, at the letterhead address citing **MAIL CODE: 8P-W-GW** very prominently.

Sincerely,



Sandra A. Stavnes
Director
Ground Water Program

cc: Mr. Mike Guinn
Vice President - Operations
Inland Production Company

Maxine Natchees
Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe

Elaine Willie
Environmental Director
Ute Indian Tribe

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

Mr. Gil Hunt
Technical Services Manager
State of Utah - Natural Resources
Division of Oil, Gas, and Mining

Mr. Jerry Kenczka
Petroleum Engineer
Bureau of Land Management
Vernal District

Mr. Nathan Wiser, 8ENF-UFO

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

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

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other Injection well

2. Name of Operator
 Inland Production Company

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

3b. Phone No. (include are code)
 435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 1990 FSL 1871 FWL
 NE/SW Section 33 T8S R17E

5. Lease Serial No.
 UTU77234

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.
 BLACKJACK UNIT

8. Well Name and No.
 TAR SANDS FED 11-33

9. API Well No.
 4301331861

10. Field and Pool, or Exploratory Area
 Monument Butte

11. County or Parish, State
 Duchesne, UT

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

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

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

The above referenced well was put on injection at 9:30 a.m. on 7/29/04.

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

**RECEIVED
JUL 30 2004
DIV. OF OIL, GAS & MINING**

I hereby certify that the foregoing is true and correct	Title
Name (Printed/ Typed) Mandie Crozier	Regulatory Specialist
Signature <i>Mandie Crozier</i>	Date 7/29/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

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

(Instructions on reverse)

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

5. LEASE DESIGNATION AND SERIAL NUMBER:
 UTU77234

SUNDRY NOTICES AND REPORTS ON WELLS

not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or 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:
 BLACKJACK UNIT

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

8. WELL NAME and NUMBER:
 TAR SANDS FED 11-33

2. NAME OF OPERATOR:
 Inland Production Company

9. API NUMBER:
 4301331861

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: 1990 FSL 1871 FWL

COUNTY: Duchesne

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NE/SW, 33, T8S, R17E

STATE: Utah

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

TYPE OF ACTION

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 08/13/2004	<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 checked="" 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 type="checkbox"/> OTHER: -
<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.

The subject well developed a leak in the tubing. On 8/6/04 a rig was moved on and repaired the leak. On 8/12/04 Mr. Dan Jackson w/EPA was notified of the intent to conduct a MIT on the casing. On 8/13/04 the casing was pressured to 1210 psi w/no pressure loss charted in the 1/2 hour test. No governmental agencies were able to witness the test.

NAME (PLEASE) Krishna Russell

TITLE Production Clerk

SIGNATURE

Krishna Russell

DATE August 13, 2004

(This space for State use only)

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AUG 16 2004
 DIV. OF OIL, GAS & MINING



United States Department of the Interior



BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, UT 84145-0155

<http://www.blm.gov>

IN REPLY REFER TO:

3106

(UT-924)

September 16, 2004

Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

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

Michael Coulthard
Acting Chief, Branch of
Fluid Minerals

Enclosure

1. State of Texas Certificate of Registration

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

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



Office of the Secretary of State

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

Newfield Production Company
Filing Number: 41530400

Articles of Amendment

September 02, 2004

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



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

Secretary of State

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

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

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

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

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

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

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

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

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

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

INLAND RESOURCES INC.

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

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>
<u>city Denver state Co zip 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>
<u>city Denver state Co zip 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*
Title: *Field Services Manager*

Approval Date: 9-20-04

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

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

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

5. LEASE DESIGNATION AND SERIAL NUMBER
UTU77234

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
BLACKJACK UNIT

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

8. WELL NAME and NUMBER:
TAR SANDS FED 11-33

2. NAME OF OPERATOR:
Newfield Production Company

9. API NUMBER:
4301331861

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: 1990 FSL 1871 FWL

COUNTY: Duchesne

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NE/SW, 33, T8S, R17E

STATE: Utah

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

TYPE OF ACTION

TYPE OF SUBMISSION

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: 11/29/2004	<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 November 29, 2004. Results from the test indicate that the fracture gradient is .788 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1630 psi.

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

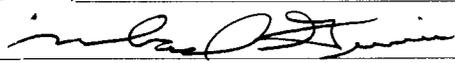
RECEIVED

DEC 23 2004

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Mike Guinn

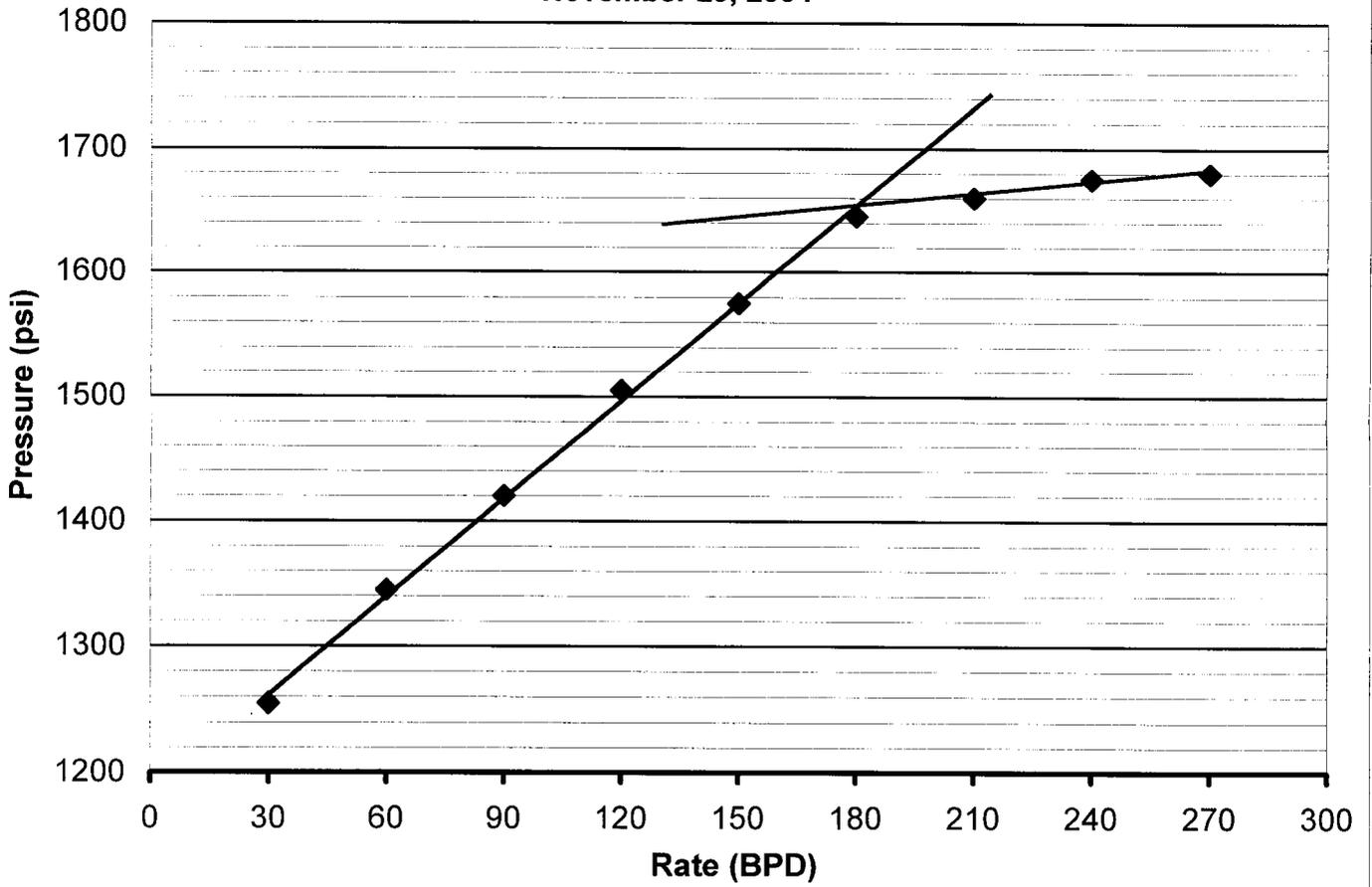
TITLE Engineer

SIGNATURE 

DATE December 20, 2004

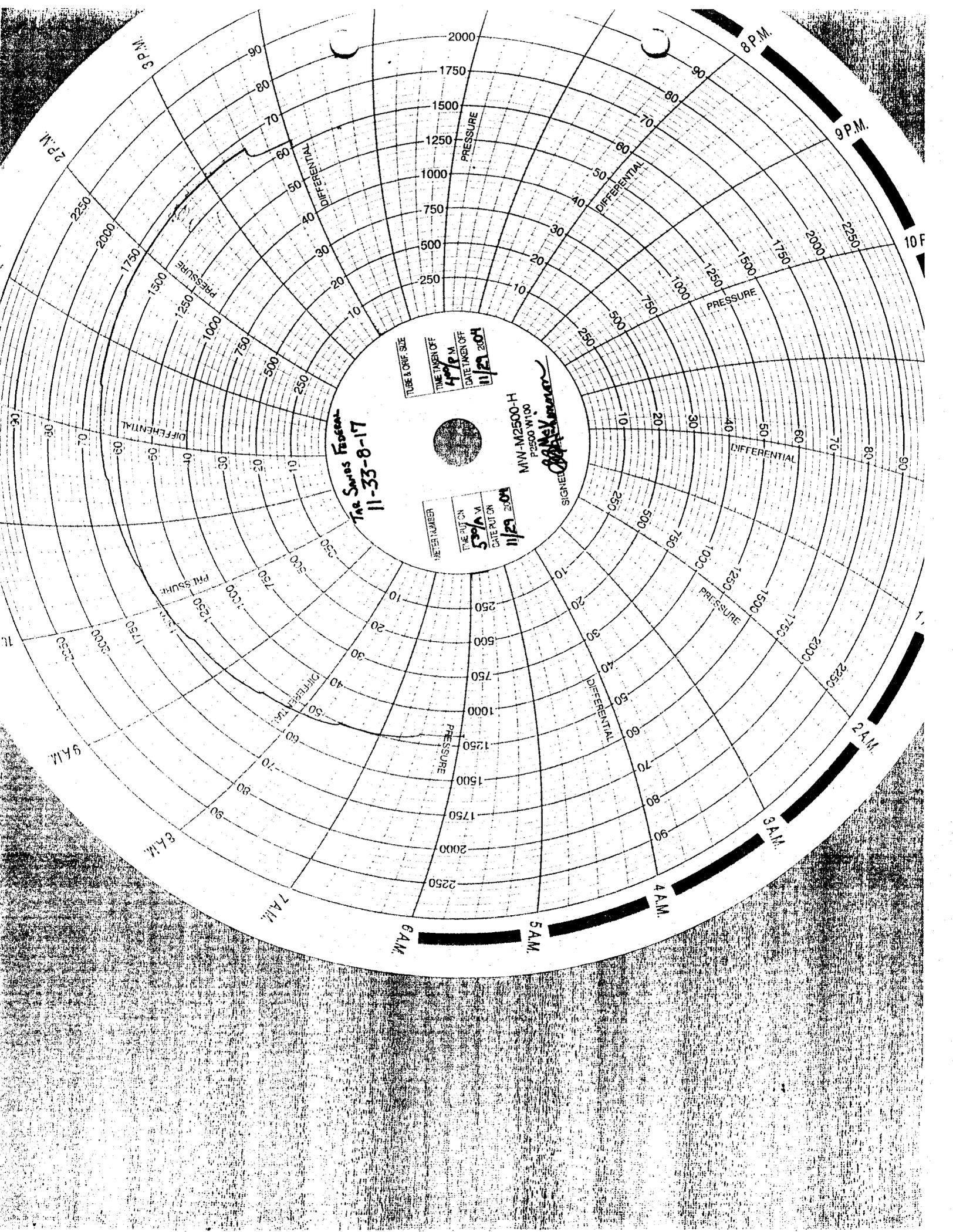
(This space for State use only)

**Tar Sands Federal 11-33-8-17
Black Jack Unit
Step Rate Test
November 29, 2004**



Start Pressure: 1180 psi
Instantaneous Shut In Pressure (ISIP): 1630 psi
Top Perforation: 4617 feet
Fracture pressure (Pfp): 1655 psi
FG: 0.794 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	30	1255
2	60	1345
3	90	1420
4	120	1505
5	150	1575
6	180	1645
7	210	1660
8	240	1675
9	270	1680



The Sures Fisons
11-33-8-17

TUBE & ORIF. SIZE
THE TANKER OFF
4:45 P.M.
DATE TAKEN OFF
11/29 2004

METER NUMBER
THE TANKER ON
5:45 P.M.
DATE PUT ON
11/29 2004

MW-M2500-H
P2500 W100
SIGNED
[Signature]

OPERATOR CHANGE WORKSHEET

ROUTING	
1. GLH	
2. CDW	
3. FILE	

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

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

CA No. Unit: BLACKJACK (GR)

WELL(S)								
NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
TAR SANDS FED 4-33	33	080S	170E	4301331664	12704	Federal	OW	P
TAR SANDS FED 5-33	33	080S	170E	4301331665	12704	Federal	WI	A
TAR SANDS FED 12-33	33	080S	170E	4301331757	12704	Federal	OW	P
TAR SANDS FED 6-33	33	080S	170E	4301331814	12704	Federal	OW	P
TAR SANDS FED 7-33	33	080S	170E	4301331860	12704	Federal	WI	A
TAR SANDS FED 11-33	33	080S	170E	4301331861	12704	Federal	WI	A
TAR SANDS FED 10-33	33	080S	170E	4301331884	12704	Federal	OW	P
TAR SANDS FED 15-33	33	080S	170E	4301331890	12704	Federal	OW	P
FEDERAL 24-3Y	03	090S	170E	4301331397	12704	Federal	WI	A
MON FED 14-3-9-17Y	03	090S	170E	4301331535	12704	Federal	OW	P
PAIUTE FED 32-4R-9-17	04	090S	170E	4301330674	12704	Federal	NA	DRL
FEDERAL 44-4Y	04	090S	170E	4301331452	12704	Federal	WI	A
ALLEN FED 43-5R-9-17	05	090S	170E	4301330720	12704	Federal	NA	DRL
MON FED 31-5-9-17	05	090S	170E	4301331680	12704	Federal	WI	A
FEDERAL 31R-9H	09	090S	170E	4301331107	12704	Federal	WI	A
CASTLE DRAW 10-10-9-17	10	090S	170E	4301330684	12704	Federal	OW	P
CASTLE DRAW 14-10	10	090S	170E	4301330994	12704	Federal	OW	P
FEDERAL 22-10Y	10	090S	170E	4301331395	12704	Federal	WI	A
BALCRON MON FED 12-10-9-17Y	10	090S	170E	4301331536	12704	Federal	OW	P
BALCRON MON FED 21-10-9-17Y	10	090S	170E	4301331537	12704	Federal	OW	P

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

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

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

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

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

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

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

DATA ENTRY:

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

FEDERAL WELL(S) BOND VERIFICATION:

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

INDIAN WELL(S) BOND VERIFICATION:

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

FEE & STATE WELL(S) BOND VERIFICATION:

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

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS:

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

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

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

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

3b. Phone (include are code)
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1990 FSL 1871 FWL
NESW Section 33 T8S R17E

5. Lease Serial No.

USA UTU-77234

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
BLACKJACK UNIT

8. Well Name and No.
TAR SANDS FED 11-33

9. API Well No.
4301331861

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

11. County or Parish, State
DUCHESNE, UT

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

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

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

A step rate test was conducted on the subject well on September 28, 2007. Results from the test indicate that the fracture gradient is .830 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1800 psi.

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

I hereby certify that the foregoing is true and correct (Printed/ Typed) Chevenne Bateman	Title Well Analyst Foreman
Signature 	Date 10/17/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

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

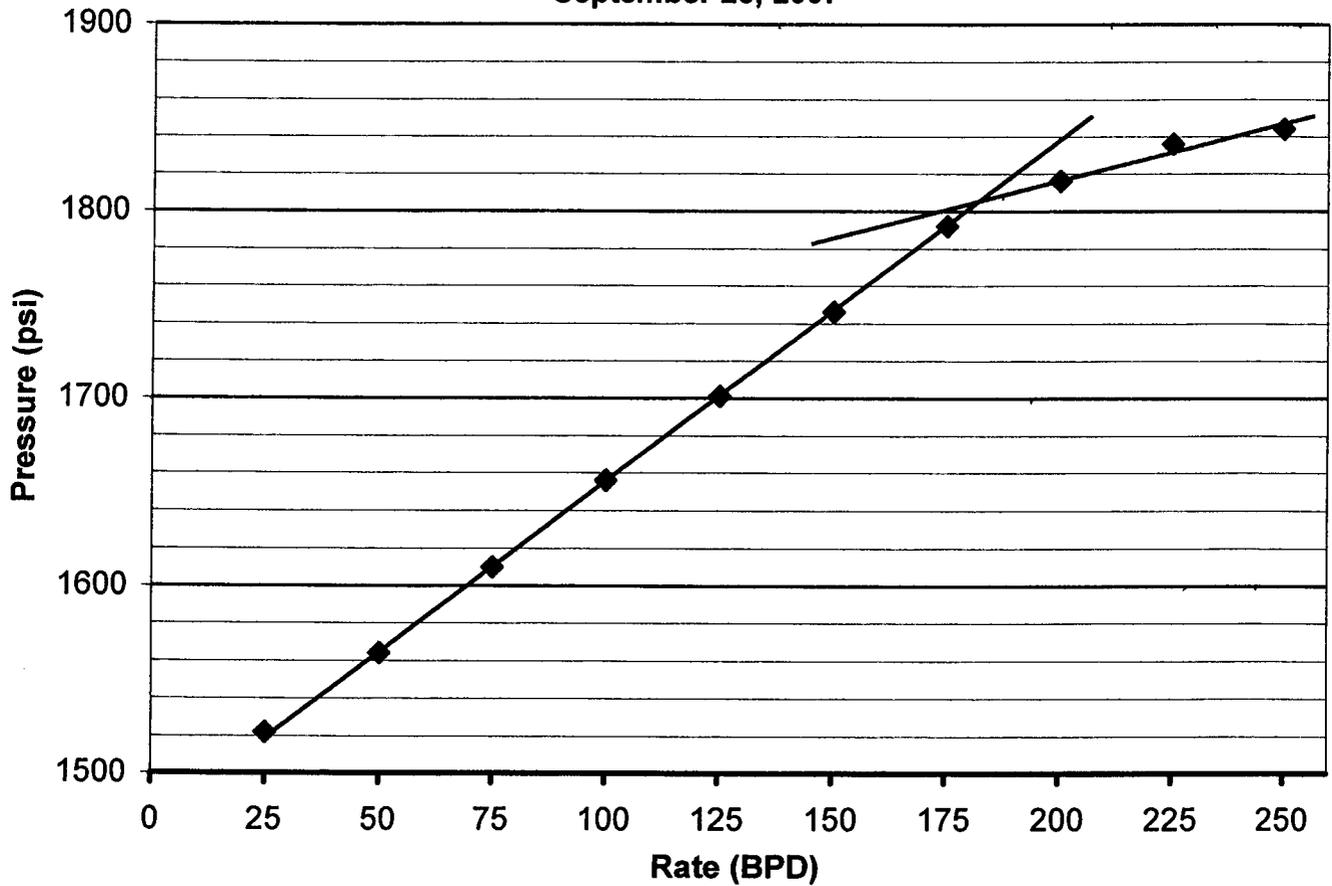
(Instructions on reverse)

RECEIVED

OCT 19 2007

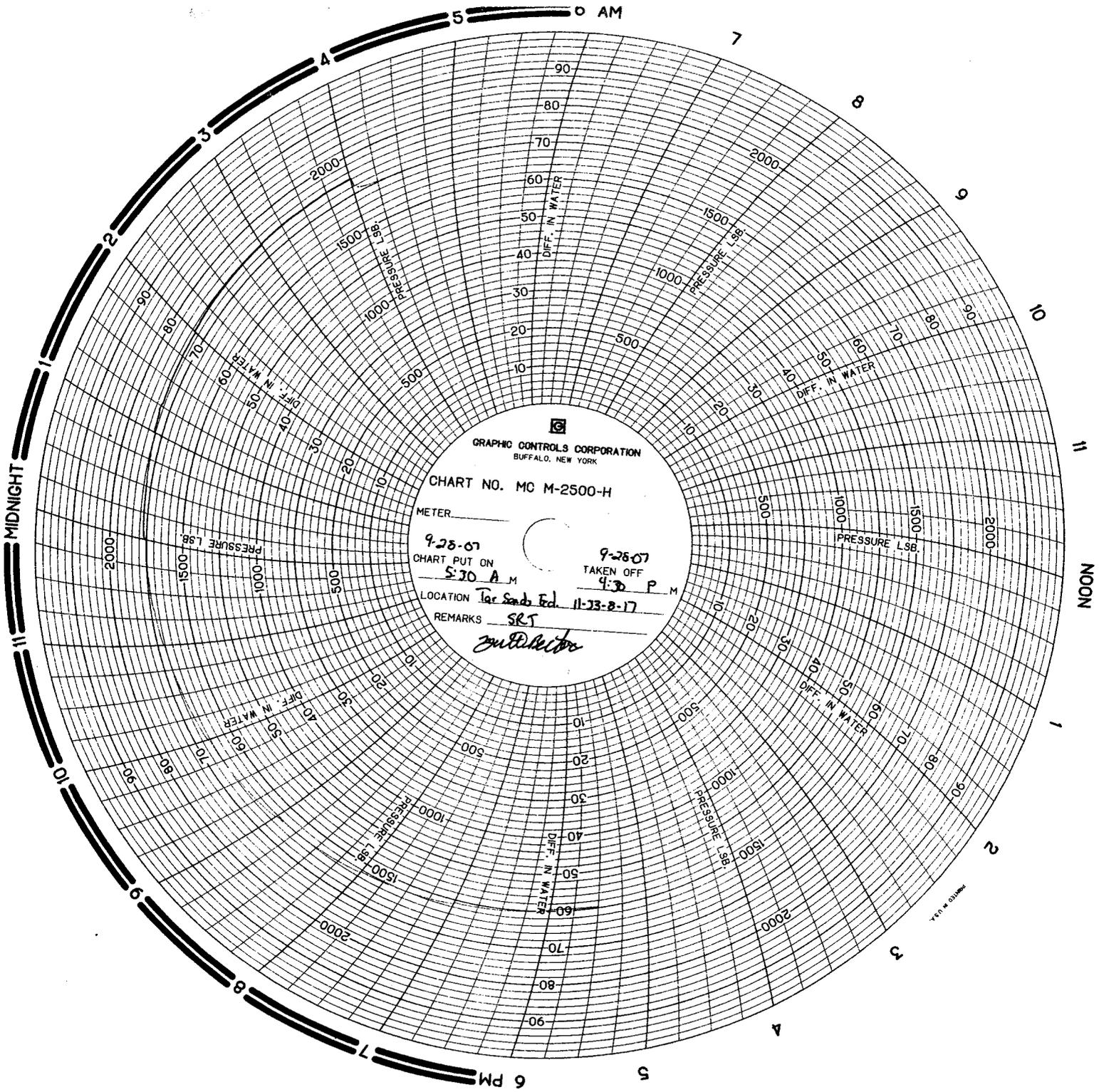
DIV. OF OIL, GAS & MINING

**Tar Sands Federal 11-33-8-17
Black Jack Unit
Step Rate Test
September 28, 2007**



Start Pressure: 1489 psi
Instantaneous Shut In Pressure (ISIP): 1800 psi
Top Perforation: 4617 feet
Fracture pressure (Pfp): 1805 psi
FG: 0.830 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	25	1522
2	50	1564
3	75	1610
4	100	1656
5	125	1701
6	150	1746
7	175	1792
8	200	1816
9	225	1836
10	250	1844



GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK

CHART NO. MC M-2500-H

METER _____

9-28-07
CHART PUT ON
5:30 A M

9-28-07
TAKEN OFF
9:30 P M

LOCATION Ice Sands Ed. 11-23-2-17

REMARKS SRT

z. P. Director

7514-01-01-0000

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

5. LEASE DESIGNATION AND SERIAL NUMBER:
USA UTU-77234

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:
BLACKJACK UNIT

1. TYPE OF WELL: OIL WELL GAS WELL OTHER

8. WELL NAME and NUMBER:
TAR SANDS FED 11-33

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
4301331861

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: 1990 FSL 1871 FWL

COUNTY: DUCHESNE

OTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW, 33, T8S, R17E

STATE: UT

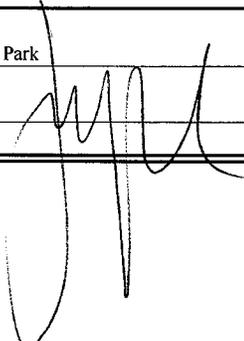
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 07/08/2009	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY 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: - 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 07/01/09 Nathan 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 07/01/09. On 07/06/09 the casing was pressured up to 1040 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tubing pressure was 1405 psig during the test. There was not an EPA representative available to witness the test. EPA# UT 20959-06231 API# 43-013-31861

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

NAME (PLEASE PRINT) Jentri Park TITLE Production Tech
SIGNATURE  DATE 07/08/2009

(This space for State use only)

RECEIVED
JUL 13 2009
DIV. OF OIL, GAS & MINING

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: _____ Date: 7/6/09
 Test conducted by: Troy J. Raza
 Others present: _____

Well Name: <u>Tarsands Fed. 11-33-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>MONUMENT Butte</u>		
Location: <u>NE/SW</u> Sec: <u>33</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</u>		
Last MIT: <u>/ /</u>	Maximum Allowable Pressure: <u>1800#</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: 2 bpd

Pre-test casing/tubing annulus pressure: 2 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	<u>1405</u> psig	psig	psig
End of test pressure	<u>1405</u> psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	<u>1040</u> psig	psig	psig
5 minutes	<u>1040</u> psig	psig	psig
10 minutes	<u>1040</u> psig	psig	psig
15 minutes	<u>1040</u> psig	psig	psig
20 minutes	<u>1040</u> psig	psig	psig
25 minutes	<u>1040</u> psig	psig	psig
30 minutes	<u>1040</u> psig	psig	psig
_____ minutes	<u>—</u> psig	psig	psig
_____ minutes	<u>—</u> psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

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

MECHANICAL INTEGRITY PRESSURE TEST

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

Signature of Witness: _____

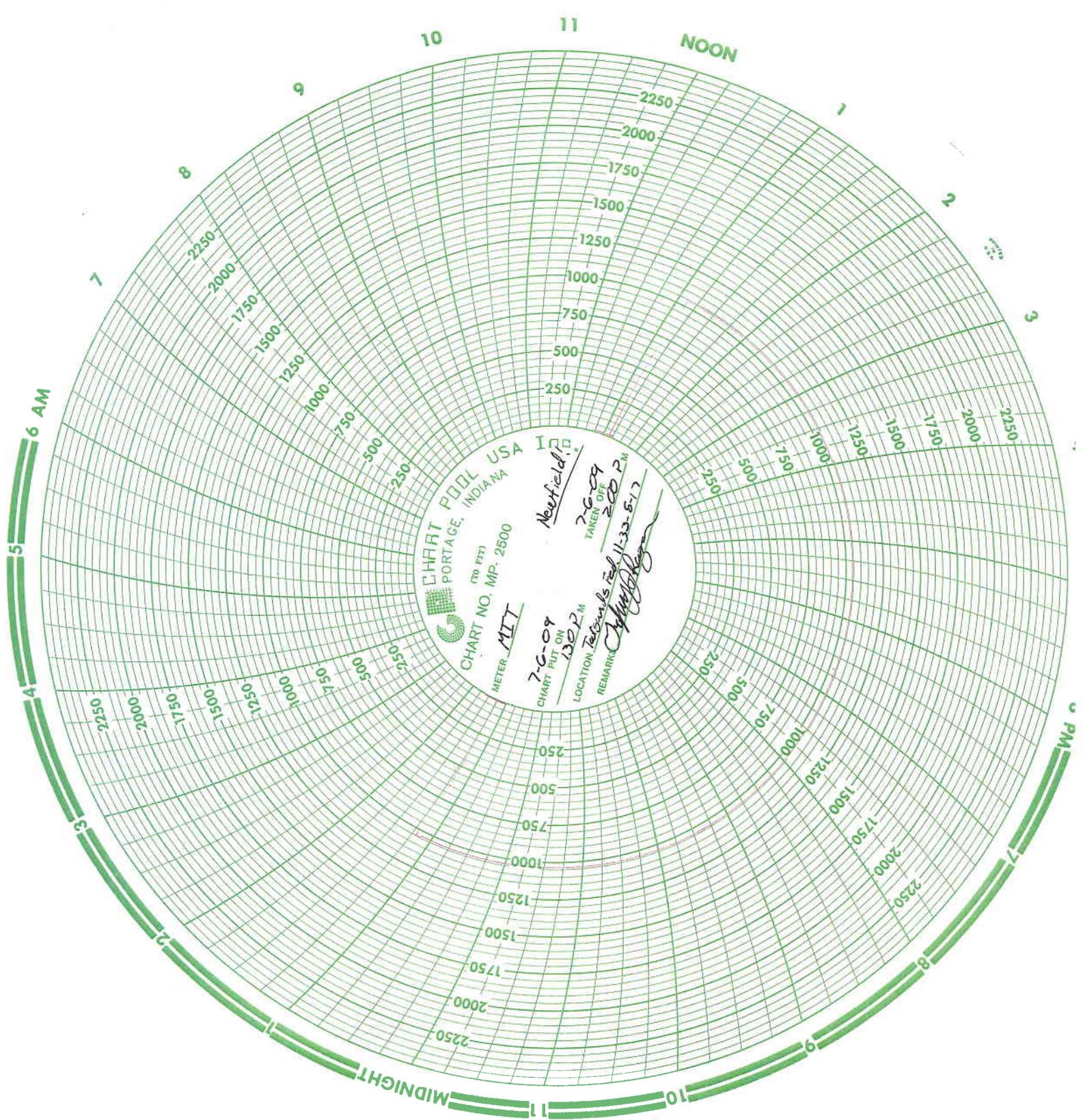


CHART POOL USA Inc.
PORTAGE, INDIANA
(70 FT)
CHART NO. MP. 2500
METER MIT
CHART PUT ON 7-6-09
1002
LOCATION Tarabanks Rd
REMARKS 11-32-017
Neefield
7-6-09
TAKEN OFF 200 P
Chapman

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-77234	
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 (GRRV)	
1. TYPE OF WELL Water Injection Well		8. WELL NAME and NUMBER: TAR SANDS FED 11-33	
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		9. API NUMBER: 43013318610000	
3. ADDRESS OF OPERATOR: Rt 3 Box 3630, Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1990 FSL 1871 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 33 Township: 08.0S Range: 17.0E Meridian: S		COUNTY: DUCHESNE	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/6/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text" value="5 YR MIT"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
5 YR MIT performed on the above listed well. On 06/06/2014 the casing was pressured up to 1802 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 1541 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-06231		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 17, 2014	
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician	
SIGNATURE N/A	DATE 6/9/2014		

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: _____ Date: 6/6/2014
 Test conducted by: Kane Stevenson
 Others present: _____

Well Name: <u>Toy Sands Fed 11-33-8-17</u>	Type: <u>ER SWD</u>	Status: <u>AC TA UC</u>
Field: <u>Management Route</u>		
Location: <u>11</u> Sec: <u>33</u> T: <u>8</u> N/S: <u>R 17</u> E/W	County: <u>Duchesne</u> State: <u>UT</u>	
Operator: <u>Newfield Exploration</u>		
Last MIT: <u>1</u> / <u>1</u>	Maximum Allowable Pressure: <u>1595</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: Csg-0 Tub-1541 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	1541 psig	psig	psig
End of test pressure	psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	1801 psig	psig	psig
5 minutes	1801 psig	psig	psig
10 minutes	1802 psig	psig	psig
15 minutes	1802 psig	psig	psig
20 minutes	1801 psig	psig	psig
25 minutes	1802 psig	psig	psig
30 minutes	1802 psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

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

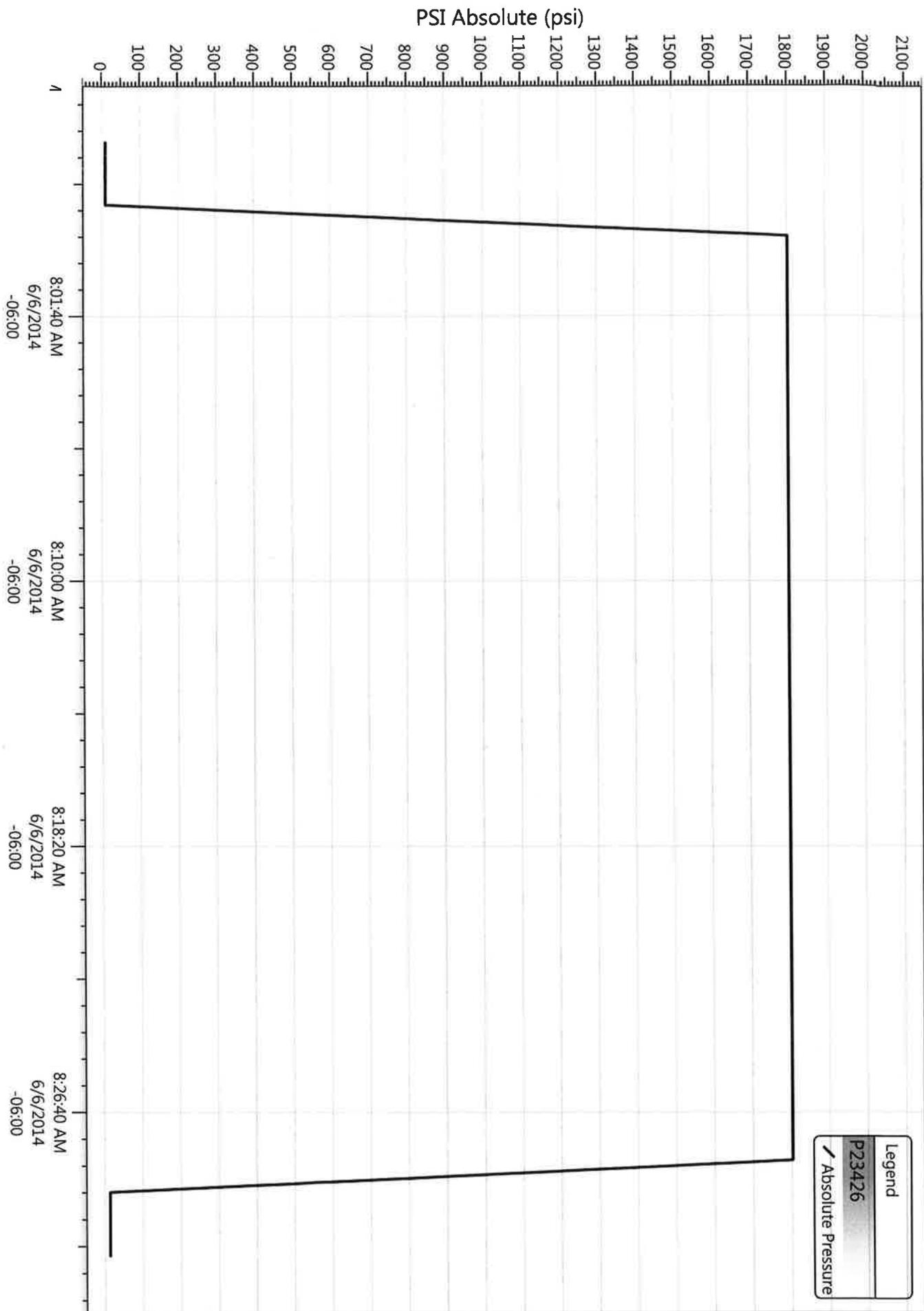
MECHANICAL INTEGRITY PRESSURE TEST

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

Signature of Witness: _____

Tar Sands Fed 11-33-8-17 (5 Year MIT) 6/6/2014

6/6/2014 7:55:32 AM



Tar Sands Federal #11-33-8-17

Spud Date: 5/3/97
 Put on Production: 9/18/98
 GL: 5140' KB: 5153'

Initial Production: 5 BOPD;
 18 MCFD; 1 BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (291.97')
 DEPTH LANDED: 291.90 GL
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 120 sxs Premium cmt, est 6 bbls to surf.

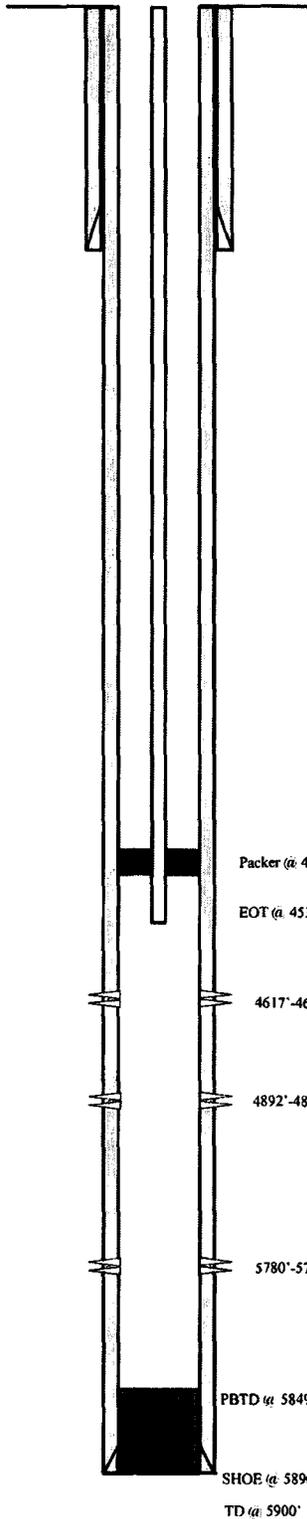
PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 141 jts. (5897.93')
 DEPTH LANDED: 5890' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 455 sx Hybond mixed & 310 sx thixotropic
 CEMENT TOP AT: Surface

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#
 NO. OF JOINTS: 146 jts (4513.86')
 PACKER: 4526.86'
 EOT @ 4529.96'

Injection Wellbore
Diagram



FRAC JOB

9/11/98	4892'-4899'	Frac D-2 sand as follows: RU BI Services & frac D sds w/102,800# 20-40 sd in 500 bbls Viking 1-25 fluid. Perfs broke dn @ 2340 psi. Treated @ ave press of 1890 psi w/ave rate of 26.5 BPM. ISIP: 3300 psi.
6/23/04		Injection Conversion
9/9/04		Tubing Leak.
07/06/09		5 Year MIT completed

PERFORATION RECORD

9/11/98	4892'-4899'	4 JSPF	28 holes
6/18/04	5780'-5788'	4 JSPF	28 holes
6/18/04	4617'-4624'	4 JSPF	28 holes

NEWFIELD

Tar Sands Federal #11-33-8-17
 1990 FSL 1871 FWL
 NE/SW Section 33-T8S-R17E
 Duchesne Co, Utah
 API #43-013-31861; Lease #UTU-77234