



March 23, 2001

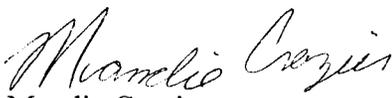
State of Utah  
Division of Oil, Gas & Mining  
Attn: Brad Gill  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Application for Permit to Drill Well No: 13A-22-8-17, 14-22-8-17,  
15-22-8-17, and 16-22-8-17.

Dear Brad:

Enclosed find APD's on the above referenced wells. If you have any questions, feel free to give either Brad or myself a call.

Sincerely,

  
Mandie Crozier  
Permit Clerk

mc  
enclosures

cc: Jon Holst  
Denver office well file  
Pleasant Valley well file

**RECEIVED**

MAR 23 2001

DIVISION OF  
OIL, GAS AND MINING

007

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 type="checkbox"/> DEEPEN <input checked="" type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. UTU-77233	
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 checked="" type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
2. NAME OF OPERATOR Inland Production Company			7. UNIT AGREEMENT NAME Canvasback Unit	
3. ADDRESS OF OPERATOR 410 - 17th Street, Suite 700, Denver, CO 80202 Phone: (303) 893-0102			8. FARM OR LEASE NAME WELL NO. Canvasback	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At Surface SE/SE 465' FEL 624' FSL At proposed Prod. Zone			9. API WELL NO. 16-22-8-17	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approximately 11.66 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 1) Approx. 465' f/lse line & 624' f/unit line		16. NO. OF ACRES IN LEASE 1202.78	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. Approx. 1642'		19. PROPOSED DEPTH 6500'	20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5159' GR			22. APPROX. DATE WORK WILL START* 3rd Quarter 2001	
23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Refer to Monument Butte Field SOP's Drilling Program/Casing Design				

Inland Production Company proposes to drill this well in accordance with the attached exhibits.

The Conditions of Approval are also attached.

RECEIVED  
MAR 26 2001

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 [Signature] TITLE Operations Manager DATE 03/22/2001

(This space for Federal or State office use)

**NOTICE OF APPROVAL** APPROVAL DATE **CONDITIONS OF APPROVAL ATTACHED**

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

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY [Signature] TITLE Assistant Field Manager Mineral Resources DATE 12/24/2002

\*See Instructions On Reverse Side

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

BLM

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Canvasback 16-22-8-17

API Number: 43-013-32241

Lease Number: U-77233

Location: SWSE Sec. 22 T.8S R. 17E

Agreement: Canvasback Unit

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

**CONDITIONS OF APPROVAL**

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.

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.

1. Other Information

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

Ed Forsman (435) 828-7874(CELL)  
Petroleum Engineer

Kirk Fleetwood (435) 828-7875 (CELL)  
Petroleum Engineer

BLM FAX Machine (435) 781-4410

SURFACE USE PROGRAM  
Conditions of Approval (COA)  
Inland Production Company - Well No. 15-22-9-17 & 16-22-9-17

Plans For Reclamation of Location:

All seeding for reclamation operations at this location shall use the following seed mixture:

shadscale	Atriplex confertifolia	3 lbs/acre
Gardners salt bush	Atriplex gardneri	3 lbs/acre
galleta grass	Hilaria jamesii	3 lbs/acre
mat salt bush	Atriplex corrugata	3 lbs/acre

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

Immediately after construction the stockpiled top soil will be seeded and the seed worked into the soil by "walking" the pile with caterpillar tracks.

001

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL  DEEPEN

1b. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

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

3. ADDRESS OF OPERATOR  
**410 - 17th Street, Suite 700, Denver, CO 80202 Phone: (303) 893-0102**

5. LEASE DESIGNATION AND SERIAL NO.  
**UTU-77233**

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

7. UNIT AGREEMENT NAME  
**Canvasback Unit**

8. FARM OR LEASE NAME WELL NO.  
**Canvasback**

9. API WELL NO.  
**16-22-8-17**

10. FIELD AND POOL OR WILDCAT  
**Monument Butte**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**SE/SE  
Sec. 22, T8S, R17E**

12. County  
**Duchesne**

13. STATE  
**UT**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At Surface **SE/SE 465' FEL 624' FSL** **4438902N 586559E**  
At proposed Prod. Zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**Approximately 11.66 miles southeast of Myton, Utah**

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also ) <b>Approx. 465' f/lse line &amp; 624' f/unit line</b>	16. NO. OF ACRES IN LEASE <b>1202.78</b>	17. NO. OF ACRES ASSIGNED TO THIS WELL <b>40</b>
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18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. <b>Approx. 1642'</b>	19. PROPOSED DEPTH <b>6500'</b>	20. ROTARY OR CABLE TOOLS <b>Rotary</b>
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21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**5159' GR**

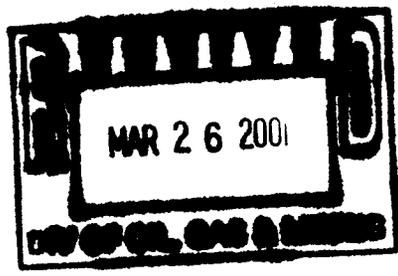
22. APPROX. DATE WORK WILL START\*  
**3rd Quarter 2001**

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
<b>Refer to Monument Butte Field SOP's Drilling Program/Casing Design</b>				

Inland Production Company proposes to drill this well in accordance with the attached exhibits.

The Conditions of Approval are also attached.



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 *Bo Mcclun* TITLE Operations Manager DATE 03/22/2001

(This space for Federal or State office use)  
PERMIT NO. 43-013-32241 APPROVAL DATE \_\_\_\_\_

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the project lease which would entitle the applicant to conduct operations thereon.

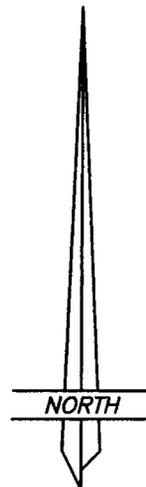
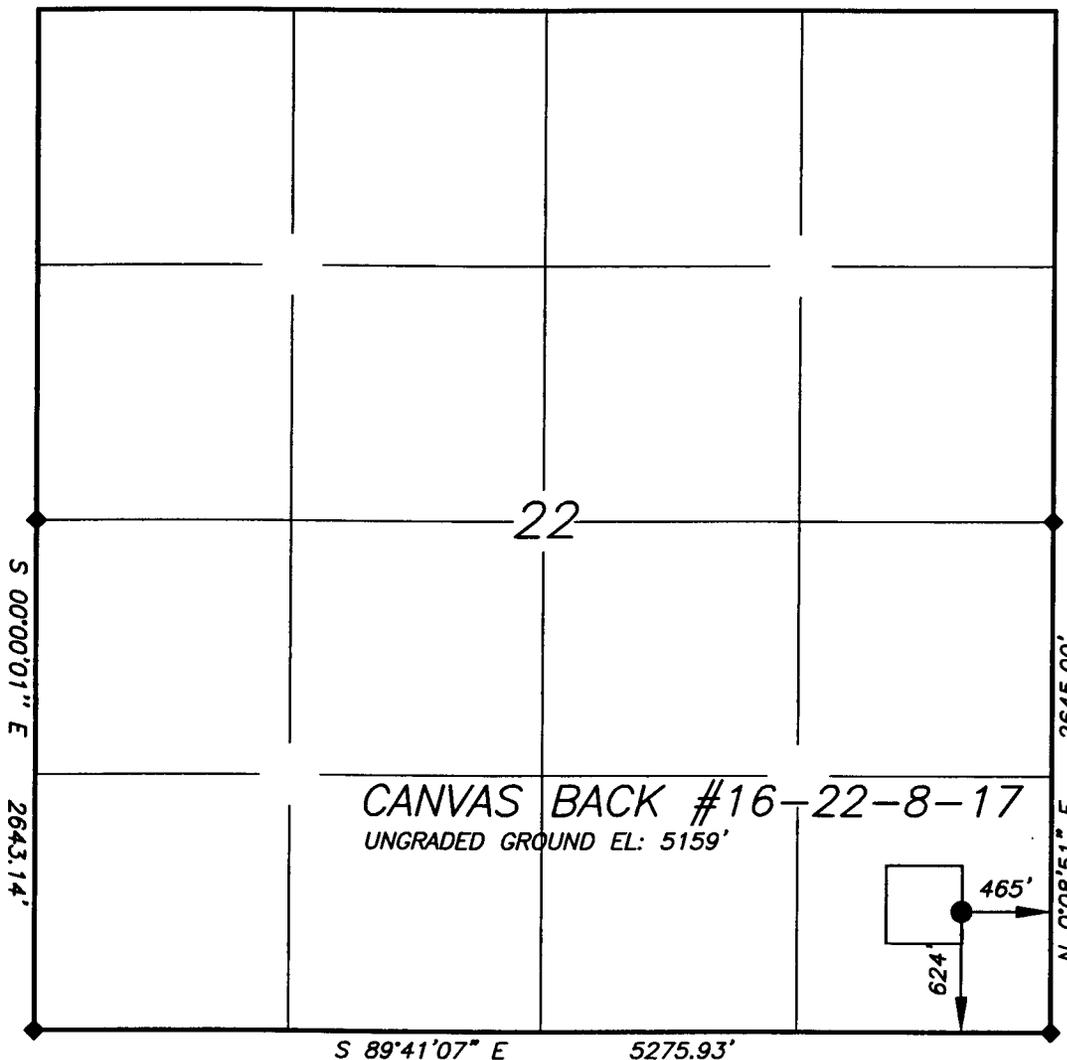
CONDITIONS OF APPROVAL, IF ANY:  
APPROVED BY *Bradley G. Hill* TITLE BRADLEY G. HILL DATE 12-16-02  
**ENVIRONMENTAL SCIENTIST III**

**Federal Approval of this  
Action is Necessary**

\*See Instructions On Reverse Side

**INLAND PRODUCTION COMPANY  
WELL LOCATION PLAT  
CANVAS BACK #16-22-8-17**

LOCATED IN THE SE1/4 OF THE SE1/4 OF SECTION 22, T8S, R17E, S.L.B.&M.



SCALE: 1" = 1000'



**LEGEND AND NOTES**

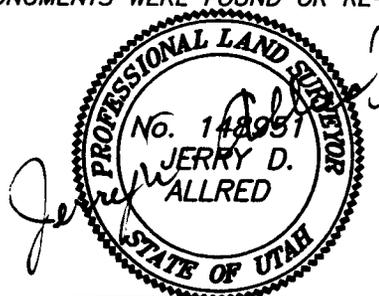
◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY.

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS, AS WAS THE U.S.G.S. MAP.

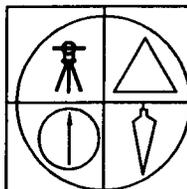
THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT. THE BEARINGS ARE BASED ON WGS84 DATUM.

**SURVEYOR'S CERTIFICATE**

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY PERFORMED BY ME, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR RE-ESTABLISHED.



JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR, CERTIFICATE NO. 148951, STATE OF UTAH



**JERRY D. ALLRED & ASSOCIATES**  
SURVEYING CONSULTANTS

121 NORTH CENTER ST.--P.O. BOX 975  
DUCHESNE, UTAH 84021  
(435) 738-5357

Memorandum of Surface Use Agreement

KNOW ALL MEN BY THESE PRESENTS:

That the Brad and JoAnn Nelson Family Trust and the Ethan Lee and Louise Nelson Family Trust, both of P.O. Box 638, Roosevelt, Utah 84052, hereinafter called "Owners," and Inland Production Company, of 410 17th Street, Suite 700, Denver, Colorado 80202, hereinafter called "Inland," have executed a Wellsite Surface and Damage Agreement and an Easement and Right-of-Way, dated December 2, 2002, hereinafter referred to as "Agreement." That Agreement grants Inland certain rights to enter upon and utilize the surface as described below. The terms of which the parties agree as follows:

Inland owns or controls rights and interests in United States Oil and Gas Leas UTU-77233, which covers the following described lands situated in Duchesne County, Utah:

Township 8 South, Range 17 East, SLM  
Section 22: SE/4 SW/4 and S/2 SE/4

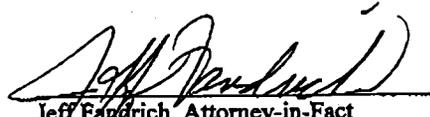
By virtue of the Agreement referenced above, Owners and Inland have reached an understanding in settlement of disputes on all claims for use of the surface and damage to crops and interruption or interference with agricultural improvements arising from Inland's drilling, completion and production activities and operations for wells, and have also agreed to the measure of settlement for continuing and additional operations by Inland in the area on surface owned or controlled by Owners.

The Agreement shall remain in effect for so long as the drilling, production and development activities continue and all payments and conditions pursuant thereto have been timely paid and honored or terminated by mutual agreement between Owners and Inland. Said Agreement contains terms and provisions other than those herein stated. Executed copies of said Agreement, which sets forth the precise terms thereof, are in the files of the Owners and Inland.

This document is filed to secure all rights, which are accorded through notice as if the Agreement itself had been recorded.

Executed this 12th day of December 2002.

INLAND PRODUCTION COMPANY

  
Jeff Fandrich, Attorney-in-Fact

CORPORATE ACKNOWLEDGEMENT

STATE OF COLORADO )  
 )ss.  
CITY AND COUNTY OF DENVER )

On this 12th Day of December 2002, before me, the undersigned Notary Public in and for the County and State aforesaid, personally appeared Jeff Fandrich, to me known to be the identical person who signed the name and maker thereof to the within and foregoing instrument as its Attorney-in-Fact and acknowledged to me that he executed the same a his free and voluntary act and deed, and as the free and voluntary act and deed of said corporation, for the uses and purposes therein set forth.

Given under my hand and seal the day and year last above written.

My Commission Expires: 8/29/05

  
Notary Public

**INLAND PRODUCTION COMPANY  
CANVASBACK #16-22-8-17  
SE/SE SECTION 22, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

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

Uinta	0' – 1640'
Green River	1640'
Wasatch	6500'

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

Green River Formation 1640' – 6500' - Oil

**4. PROPOSED CASING PROGRAM**

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Monument Butte Field SOP. See Exhibit "F".

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Monument Butte Field SOP.

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

Please refer to the Monument Butte Field SOP.

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

Please refer to the Monument Butte Field SOP.

**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.

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

Please refer to the Monument Butte Field SOP.

**INLAND PRODUCTION COMPANY  
CANVASBACK #16-22-8-17  
SE/SE SECTION 22, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Inland Production Company well location site Canvasback # 16-22-8-17 located in the SE1/4 SE 1/4 Section 22, T8S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southerly along Hwy 53 – 6.8 miles to the junction of an existing paved road to the east. Proceed easterly along this road 2.5 miles to the junction of an existing paved road to the east. Proceed south easterly along this road 0.8 miles to the beginning of the proposed access road of the Canvasback 15-22-8-17.

**2. PLANNED ACCESS ROAD**

Please refer to the Monument Butte Field Standard Operating Procedure (SOP). See Topographic Map "B" for the location of the proposed access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "D".

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

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

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

Please refer to the Monument Butte Field SOP. See Exhibit "C".

**6. SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

**7. METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

**8. ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s), and Surface material stockpile(s).

10. **PLANS FOR RESTORATION OF SURFACE**

Landowner has requested that the well pad be left as is with no rehabilitation after plugging the well.

11. **SURFACE OWNERSHIP** – Brad Nelson.

12. **OTHER ADDITIONAL INFORMATION**

The Paleontological Resource Survey and Archaeological Survey have been waived by the landowner. Refer to Exhibit "G".

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

Representative

Name: Brad Mecham  
Address: Route #3 Box 3630  
Myton, Utah 84052  
Telephone: (435) 646-3721

Certification

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of well #16-22-8-17 SE/SE Section 22, Township 8S, Range 17E: Lease UTU-77233 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.

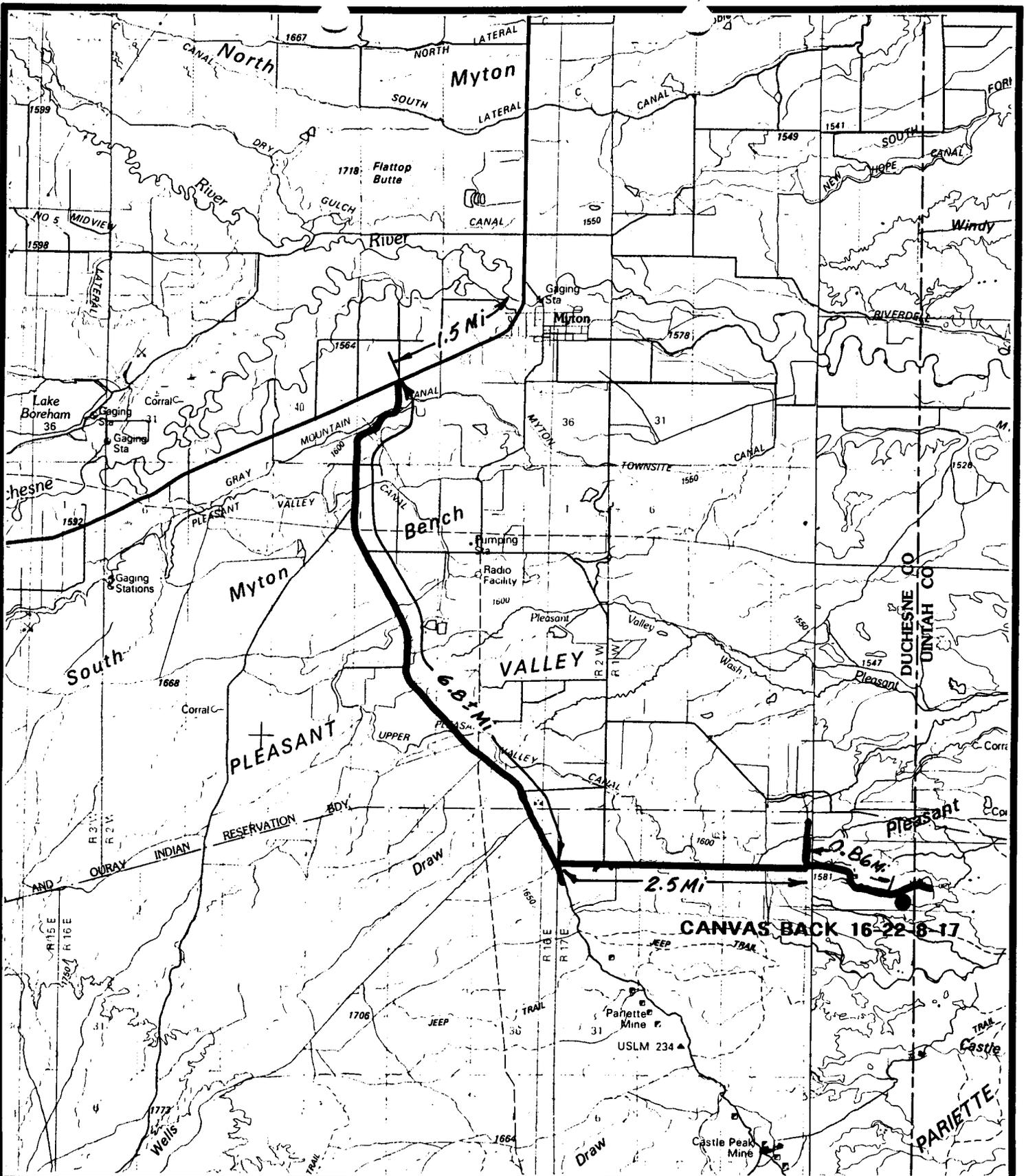
I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

3/22/01

Date



Brad Mecham  
Operations Manager



**TOPOGRAPHIC MAP "A"**

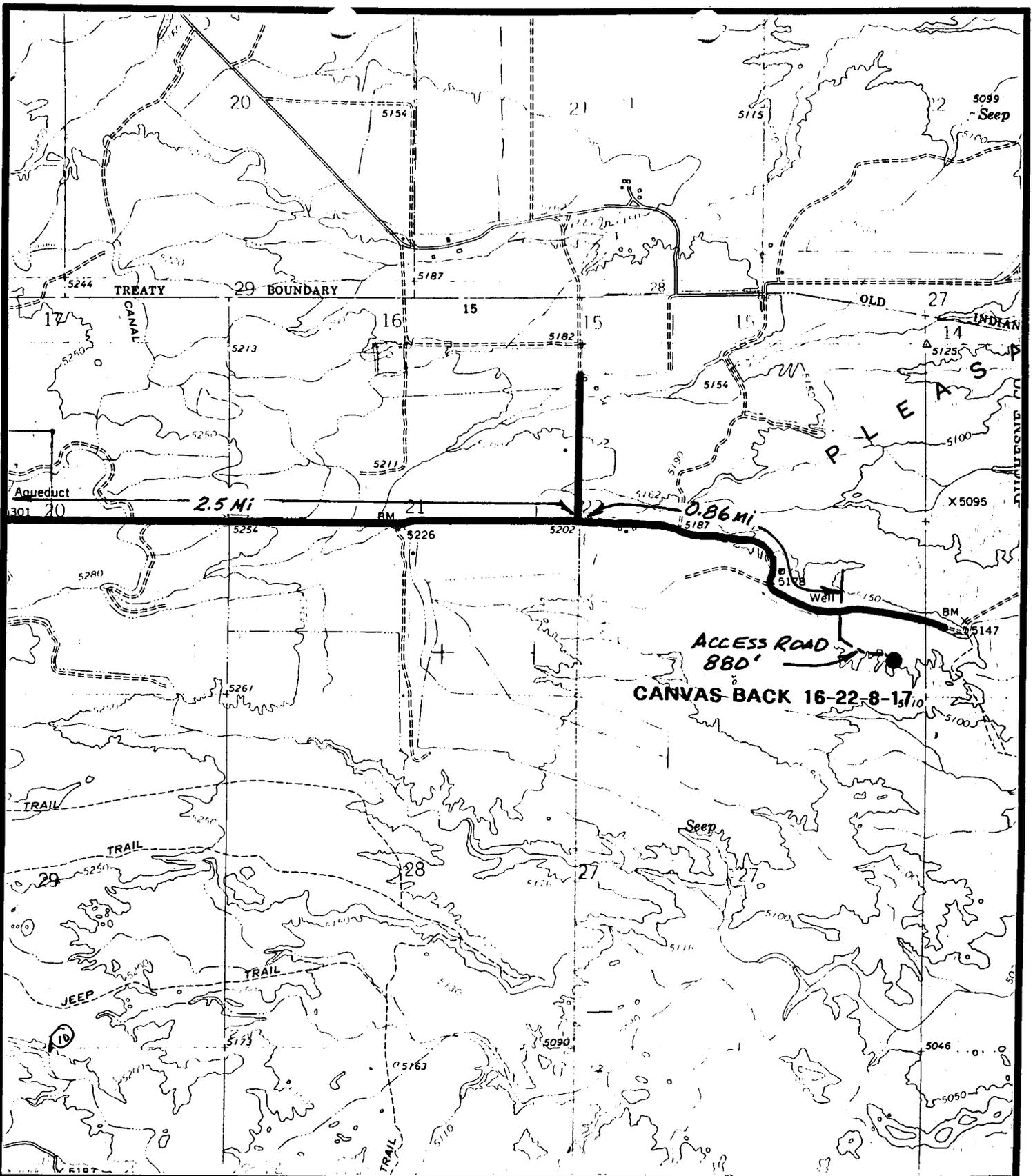
JERRY D. ALLRED AND ASSOCIATES  
 121 NORTH CENTER STREET  
 P.O. BOX 975  
 DUCHESNE, UTAH 84021  
 (435) 738-5352



**INLAND PRODUCTION CO.**  
 LOCATION X-SECTION PLAT  
 CANVAS BACK #16-22-8-17  
 SECTION 22, T8S, R17E, S.L.B.&M.

12 MAR 2001

84-121-082



**TOPOGRAPHIC MAP "B"**

JERRY D. ALLRED AND ASSOCIATES  
 121 NORTH CENTER STREET  
 P.O. BOX 975  
 DUCHESNE, UTAH 84021  
 (435) 738-5352



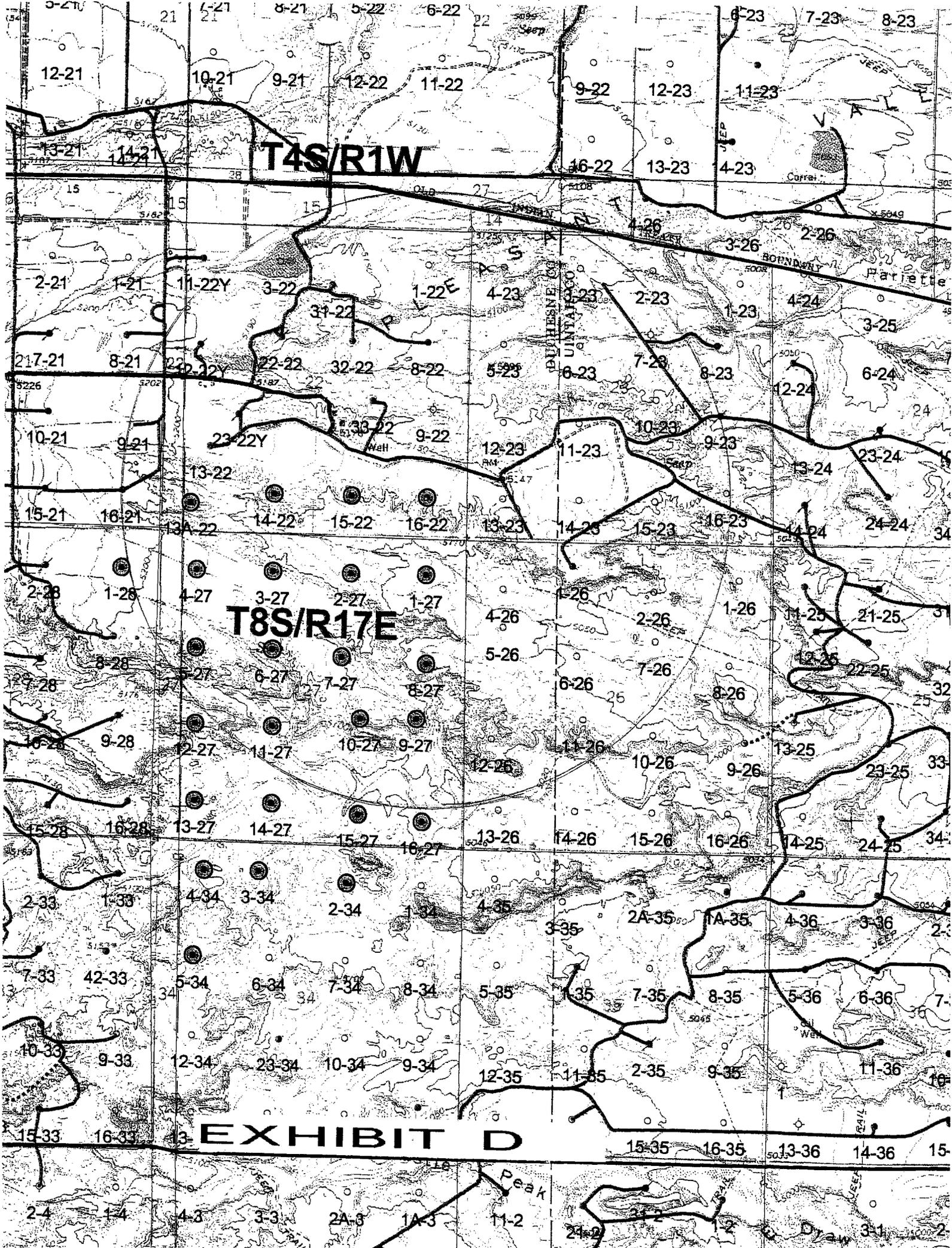
SCALE: 1" = 2000'

**INLAND PRODUCTION CO.**  
 LOCATION X-SECTION PLAT  
 CANVAS BACK #16-22-8-17  
 SECTION 22, T8S, R17E, S.L.B.&M.

12 MAR 2001

84-121-082





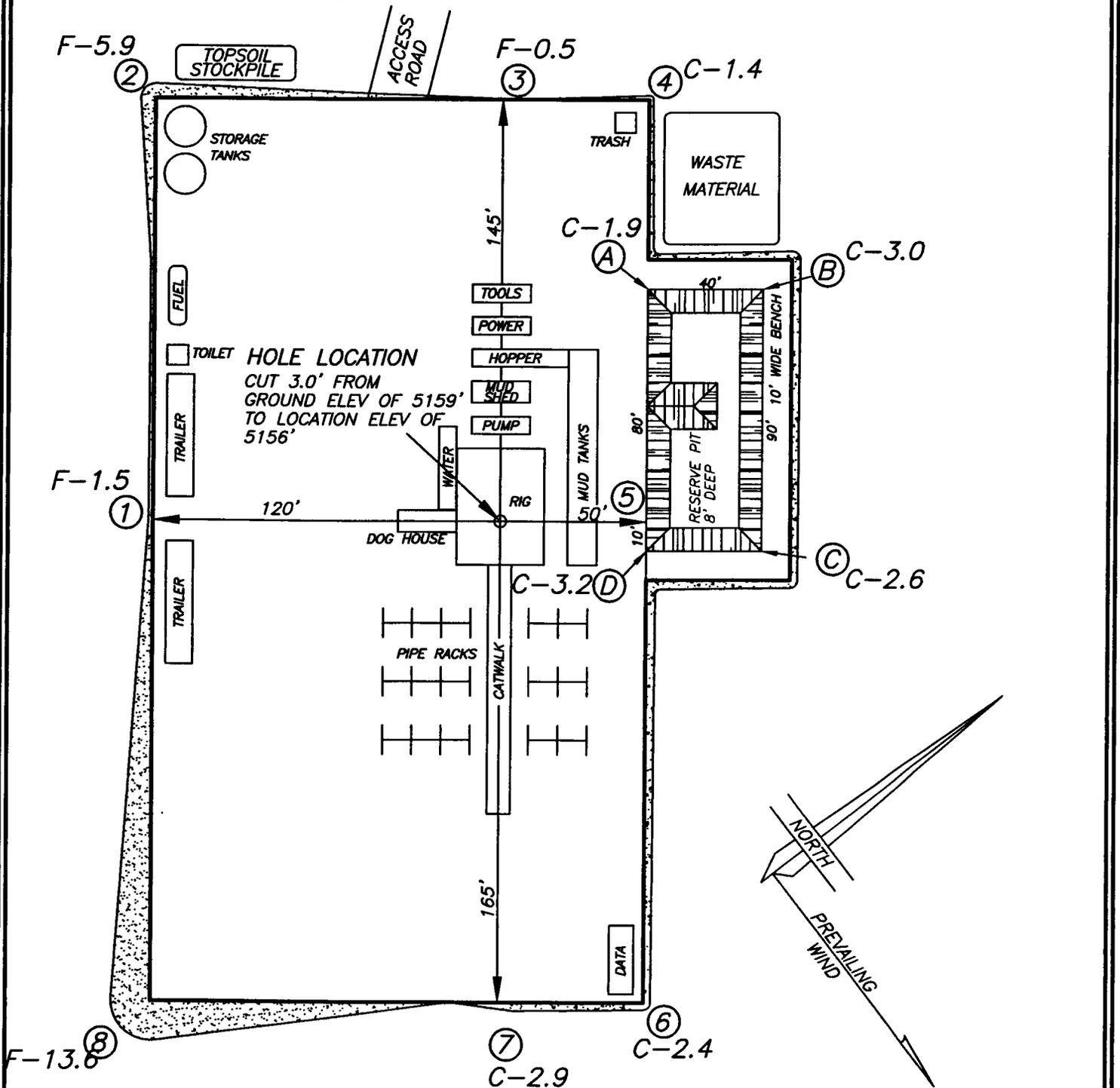
T4S/R1W

T8S/R17E

EXHIBIT D

**INLAND PRODUCTION COMPANY**  
**WELL LOCATION PLAT**  
**CANVAS BACK #16-22-8-17**

LOCATED IN THE SE1/4 OF THE SE1/4 OF SECTION 22, T8S, R17E, S.L.B.&M.



**EXHIBIT E**

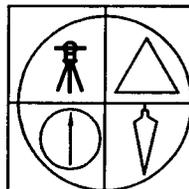
**REFERENCE POINTS**

- 145' ON 1 CENTERLINE = 5150.4'
- 170' ON 3 CENTERLINE = 5155.1'
- 115' ON 5 CENTERLINE = 5157.9'
- 190' ON 7 CENTERLINE = 5157.0'



12 MAR 2001

84-121-082



**JERRY D. ALLRED & ASSOCIATES**  
 SURVEYING CONSULTANTS

121 NORTH CENTER ST.--P.O. BOX 975  
 DUCHESNE, UTAH 84021  
 (435) 738-5357

INLAND PRODUCTION CO.  
 LOCATION X-SECTION PLAT  
 CANVAS BACK #16-22-8-17  
 SECTION 22, T8S, R17E, S.L.B.&M.

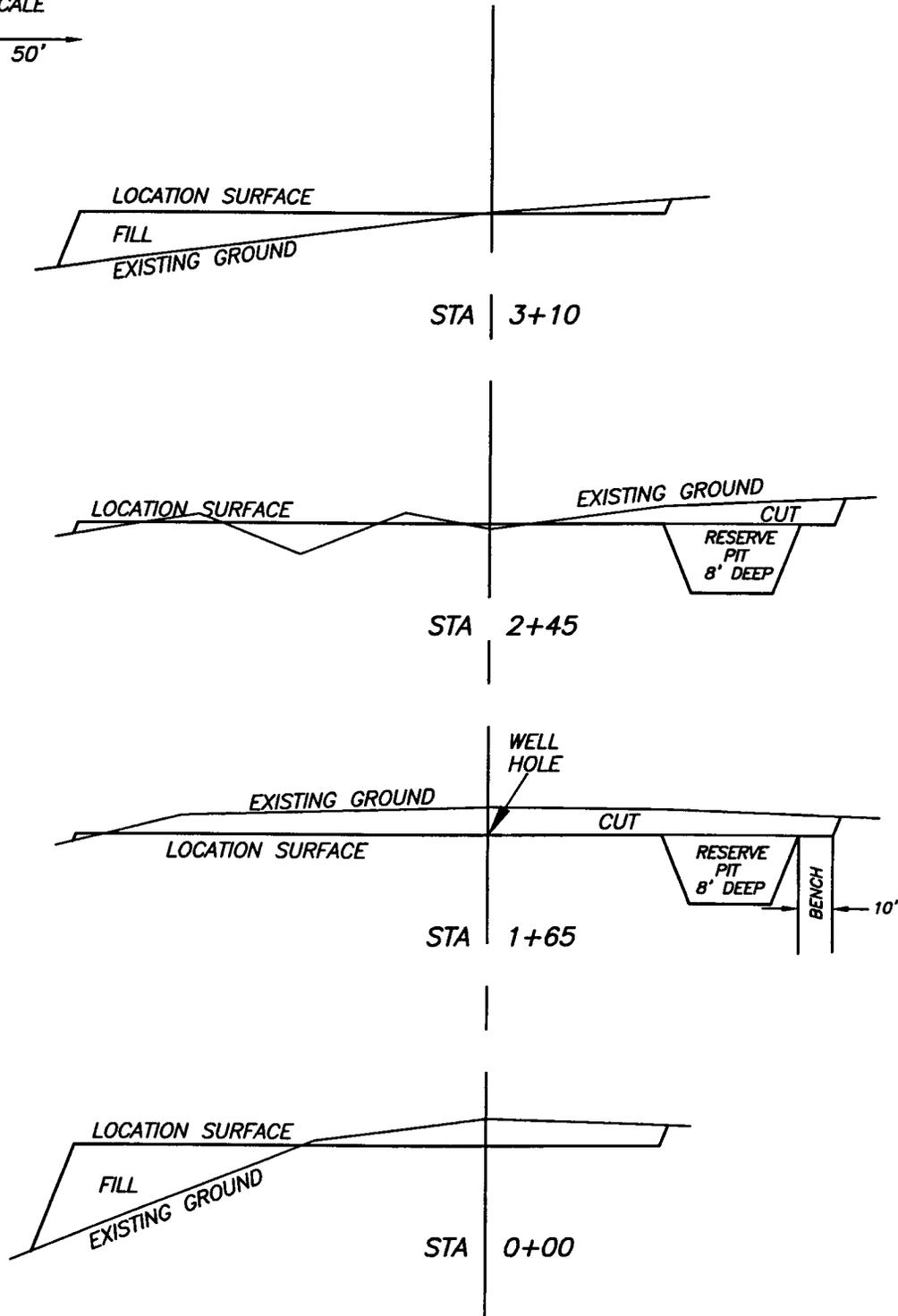
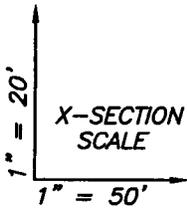


EXHIBIT E-1

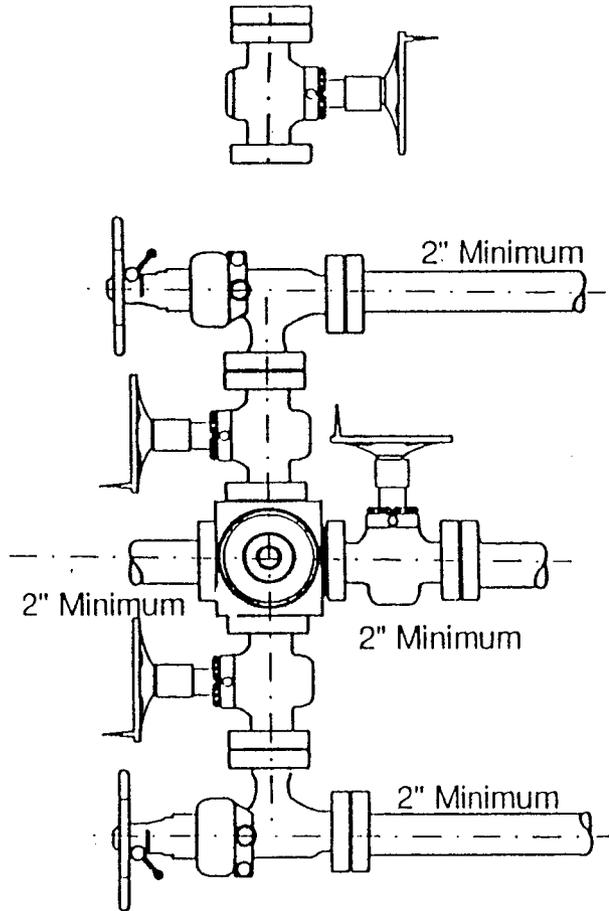
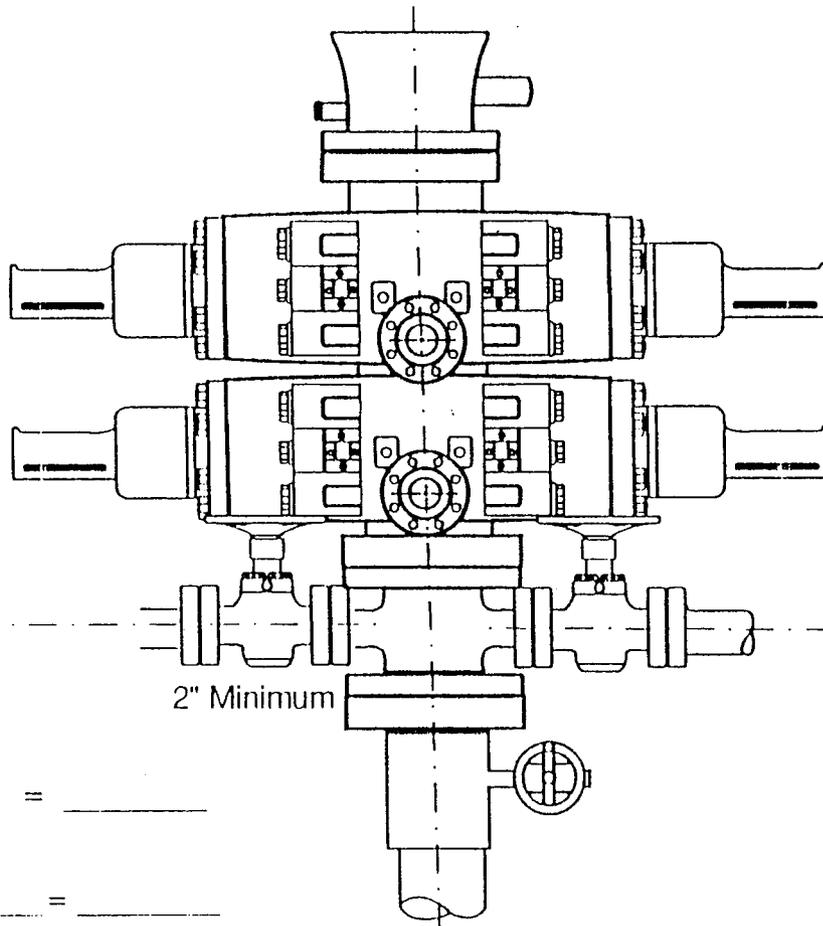
APPROXIMATE QUANTITIES

CUT: 3300 CU. YDS. (LOCATION)  
 CUT: 700 CU. YDS. (PIT)  
 FILL: 2300 CU. YDS.

JERRY D. ALLRED AND ASSOCIATES  
 121 NORTH CENTER STREET  
 P.O. BOX 975  
 DUCHESNE, UTAH 84021  
 (435) 738-5352

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

# 2-M SYSTEM



VOLUME 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

*Canvasback 16-22-8-17  
SE/SE Sec. 22, T8S, R17E  
Lease #UTU-77233*

**ARCHAEOLOGICAL REPORT WAIVER**

**For the above referenced location; Brad Nelson, the Private Surface Owner.  
(Having a Surface Owner Agreement with Inland Production Company)  
Brad Nelson, representing this entity does agree to waive the request from  
the Bureau of Land Management for an Archaeological/Cultural Survey.  
This waiver hereby releases Inland Production Company from this request.**

*Brad Nelson* 3-22-01  
Brad Nelson      Date  
Private Surface Owner

*Brad Mechem* 3-7-01  
Brad Mechem      Date  
Inland Production Company

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

005

APD RECEIVED: 03/26/2001

API NO. ASSIGNED: 43-013-32241

WELL NAME: CANVASBACK 16-22-8-17
OPERATOR: INLAND PRODUCTION ( N5160 )
CONTACT: BRAD MECHAM

PHONE NUMBER: 303-893-0102

PROPOSED LOCATION:

SESE 22 080S 170E
SURFACE: 0624 FSL 0465 FEL
BOTTOM: 0624 FSL 0465 FEL
DUCHESNE
MONUMENT BUTTE ( 105 )

Table with 3 columns: Tech Review, Initials, Date. Rows include Engineering, Geology, Surface.

LEASE TYPE: 1-Federal
LEASE NUMBER: UTU-77233
SURFACE OWNER: 4-Fee

PROPOSED FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

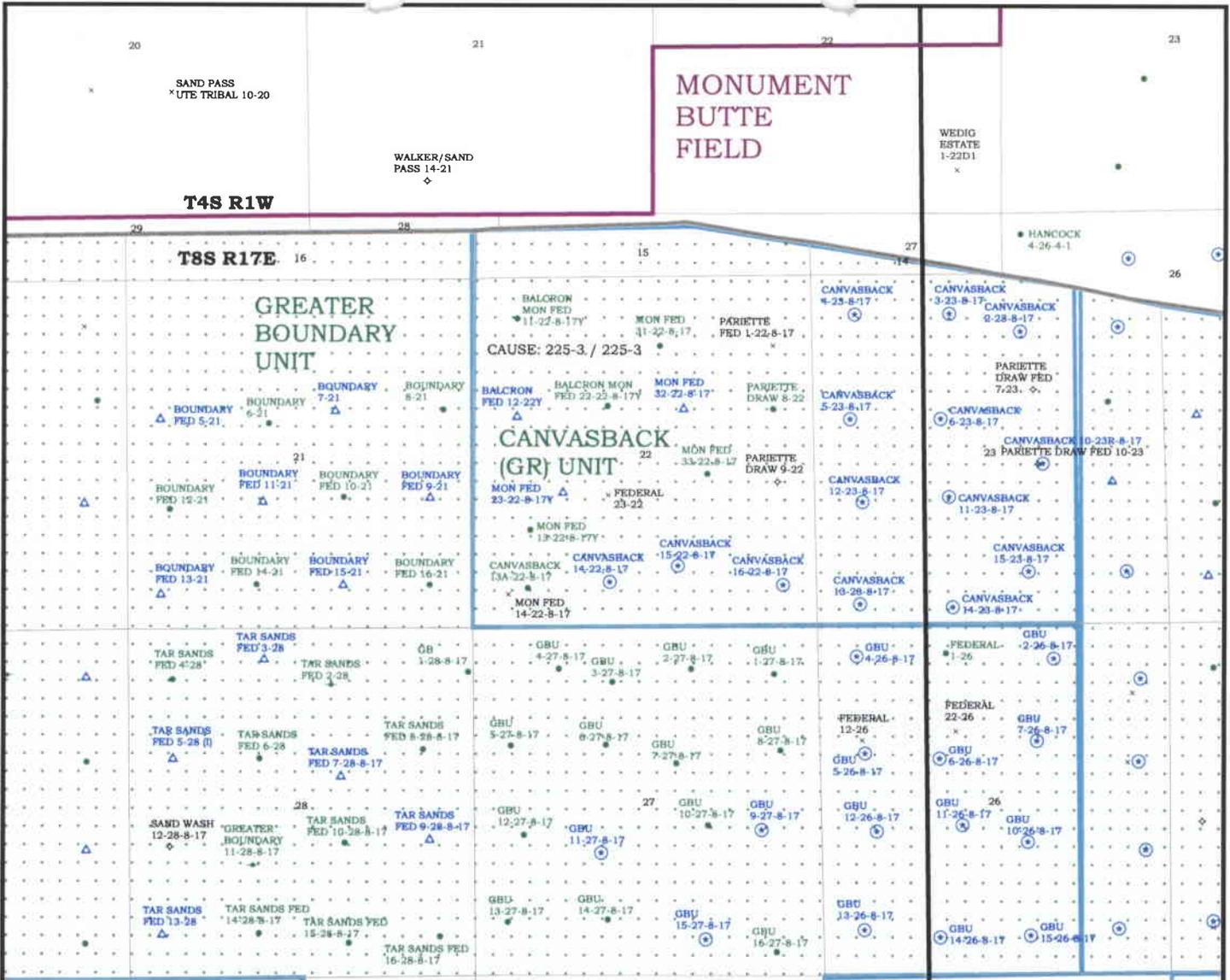
- Plat
Bond: Fed[X] Ind[] Sta[] Fee[] (No. 4488944 )
Potash (Y/N)
Oil Shale (Y/N) \*190-5 (B) or 190-3
Water Permit (No. MUNICIPAL )
RDCC Review (Y/N) (Date: )
Fee Surf Agreement (Y/N)

LOCATION AND SITING:

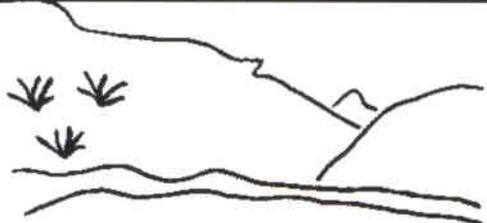
- R649-2-3. Unit CANVASBACK (GR)
R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
R649-3-3. Exception
Drilling Unit
Board Cause No: 225-3 x Unit & Enh. Rec.
Eff Date: 9-23-98
Siting: Statewide Rules Suspended
R649-3-11. Directional Drill

COMMENTS: Need Prosite. (4-4-01)
Mon. Butte Field Sol, separate file.

STIPULATIONS: 1. federal approval
2. Statement of Basis



OPERATOR: INLAND PROD CO. (N5160)  
 SEC. 22 T8S, R17E,  
 FIELD: MONUMENT BUTTE (105)  
 COUNTY: DUCHEсне  
 CAUSE: 225-3 / 9-23-98



Utah Oil Gas and Mining

WELLS

- ✗ GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- ⊙ NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- ✗ TEMP. ABANDONED
- TEST WELL
- ▲ WATER INJECTION
- WATER SUPPLY
- ♁ WATER DISPOSAL

UNIT STATUS

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

FIELD STATUS

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED
- COUNTY BOUNDARY
- SECTION LINES
- TOWNSHIP LINES



PREPARED BY: DIANA MASON  
 DATE: 13-DECEMBER-2002

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

**Operator Name:** Inland Production Company  
**Name & Number:** Canvasback #16-22-8-17  
**API Number:** 43-013-32241  
**Location:** 1/4,1/4 SE/SE Sec. 22 T. 08S R. 17E

**Geology/Ground Water:**

Inland has proposed setting 300' of surface casing at this location. The depth to the base of the moderately saline ground water is estimated to be at around 200'. A search of Division of Water Rights records indicates that 1 water well is located within a 10,000 foot radius of the center of Section 22 . This well is approximately 9,000' from the center of section 22 and produces from a depth of 100-500'. The proposed surface casing should extend below the base of the moderately saline water at this location. The surface formation at the proposed location is the Uinta Formation. The Uinta Formation is made up of interbedded sandstones and shales. The Sandstones are of a discontinuous nature and probably don't represent a significant aquifer. The existing casing should adequately protect any useable ground water.

**Reviewer:** Brad Hill  
**Date:** 04/16/2001

**Surface:**

An onsite investigation of the surface area was done on 04/04/01 with Brad Mecham to address and observe any issues regarding any particular needs this well site and access road might have. Mr. Brad Nelson (the landowner of record) was invited by DOGM staff to attend the onsite meeting but declined. The access road proposed by Inland runs adjacent to and immediately south of an irrigated alfalfa field. Berm along irrigated alfalfa field shows water leaves field to south down three drainage systems. The access road crosses these systems and therefore will need culverts installed to maintain access road into well site. No other issued were discovered or addressed.

**Reviewer:** Dennis L. Ingram  
**Date:** 04/10/01

**Conditions of Approval/Application for Permit to Drill:**

1. Operator shall properly install and maintain a 12 mil synthetic liner in the reserve pit to prevent seepage of drilling fluids into ground water.

**ON-SITE PREDRILL EVALUATION**

**Division of Oil, Gas and Mining**

OPERATOR: Inland Production Company  
WELL NAME & NUMBER: Canvas Back #16-22-8-17  
API NUMBER: 43-013-32241  
LEASE: FEE FIELD/UNIT: MONUMENT BUTTE/CANVAS BACK  
LOCATION: 1/4, 1/4 SE/SE Sec: 22 TWP: 08S RNG: 17E 465' FEL 624' FSL  
GPS COORD (UTM): 12 586535E; 4439122N  
SURFACE OWNER: Brad Nelson

PARTICIPANTS

Brad Mecham (Inland Production Company); Dennis L. Ingram (DOGM)

REGIONAL/LOCAL SETTING & TOPOGRAPHY

Proposed immediately south of irrigated alfalfa field on southern edge of tabletop landscape, overlooking the head (or beginnings) of Big Wash Drainage system in Pleasant Valley approximately 10.3 miles south of Myton, Utah

SURFACE USE PLAN

CURRENT SURFACE USE: Undeveloped rangeland used for wildlife and grazing

PROPOSED SURFACE DISTURBANCE: Approximately 880' of new road from west plus location measuring 210'x 170' plus reserve pit.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: See attached map from GIS database

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: All production facilities shall remain on location; gas residue and sales line of flex pipe on surface along right-of-way.

SOURCE OF CONSTRUCTION MATERIAL: Native cut and fill or borrowed

ANCILLARY FACILITIES: None requested

WASTE MANAGEMENT PLAN:

Submitted to DOGM with Application to Drill

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: None

FLORA/FAUNA: Shadscale, native grass, salt grass, rabbit brush, sage brush, tamarisk, prickly-pear cactus; mule deer, elk, mountain lion, coyote, raccoon, fox, small birds, birds of prey and other small animals typical of the region.

SOIL TYPE AND CHARACTERISTICS: Tan to light brown fine grained sandy loam with some clays present.

SURFACE FORMATION & CHARACTERISTICS: Uinta Formation of the Upper Eocene Age

EROSION/SEDIMENTATION/STABILITY: Minor erosion some sedimentation, no stability problems anticipated

PALEONTOLOGICAL POTENTIAL: None observed during onsite meeting

RESERVE PIT

CHARACTERISTICS: Proposed in cut on northeast side of location and immediately south of irrigated alfalfa field measuring 90'x 40'x 8' deep and parallel to prevailing winds.

LINER REQUIREMENTS (Site Ranking Form attached): 50 points

SURFACE RESTORATION/RECLAMATION PLAN

According to landowner and operator agreement

SURFACE AGREEMENT: Yes

CULTURAL RESOURCES/ARCHAEOLOGY: Arch report Waiver submitted to DOGM by Inland Production Company signed by Landowner

OTHER OBSERVATIONS/COMMENTS

Berm along irrigated field has erosion and water seeps or spills down three draws to the south where access road is proposed. Reserve pit staking immediately south of irrigated crop field (butted up).

ATTACHMENTS:

Photos of well staking and surface before disturbance

Dennis L. Ingram  
DOGM REPRESENTATIVE

04/04/01 11:15 am  
DATE/TIME

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

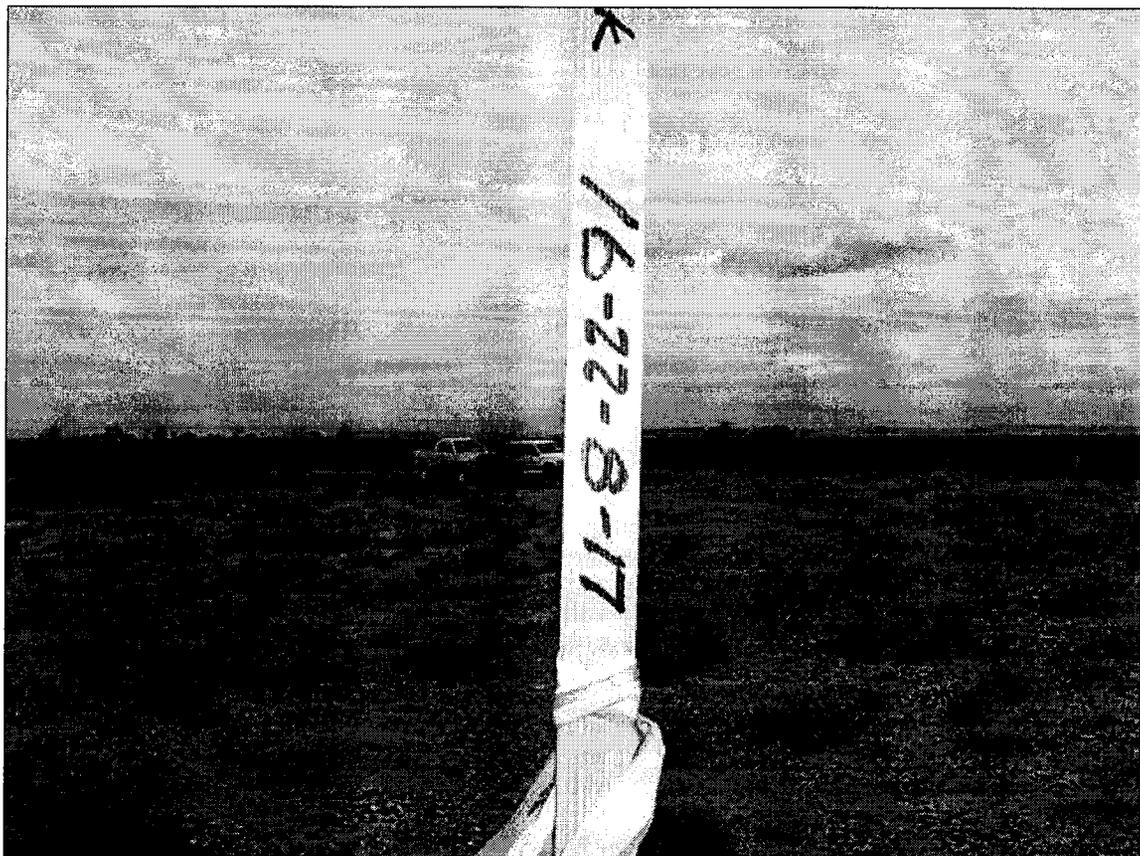
<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>15</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest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



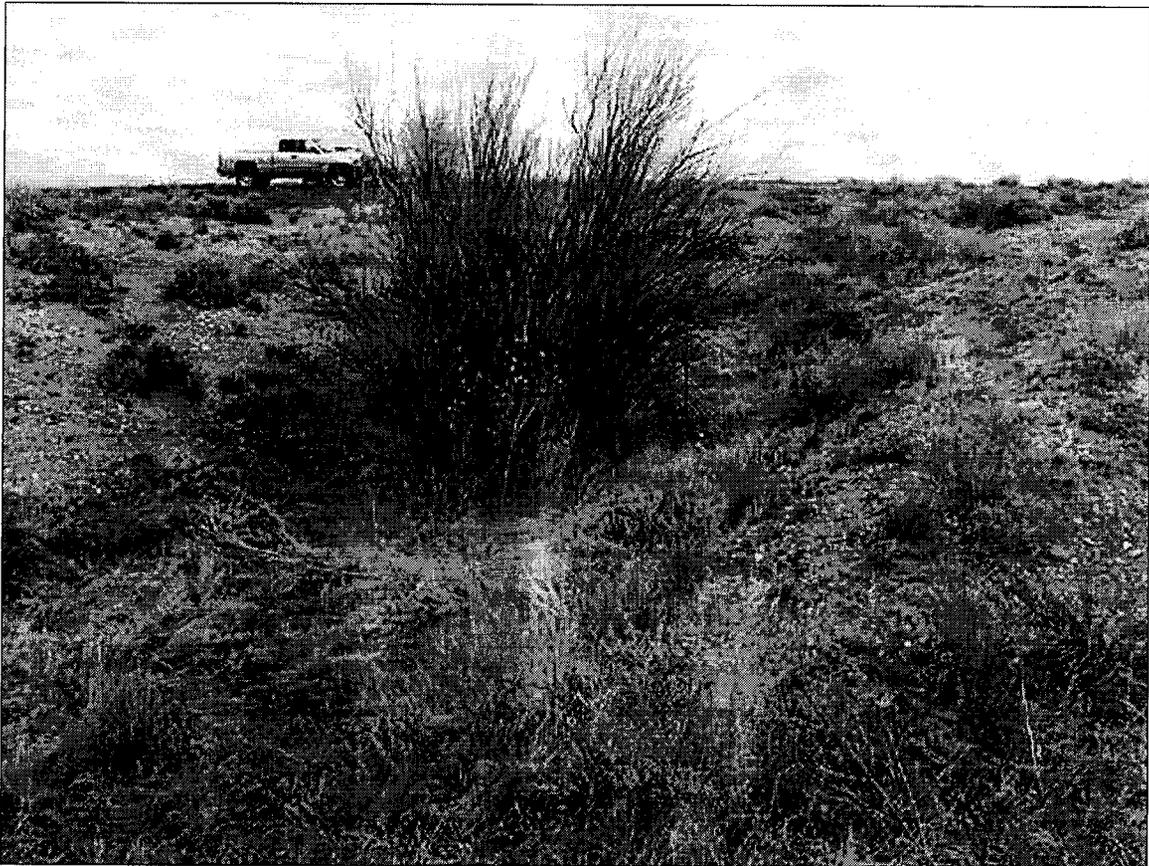


UTAH DIVISION OF WATER RIGHTS  
 NWPLAT POINT OF DIVERSION LOCATION PROGRAM

MAP CHAR	WATER RIGHT	QUANTITY CFS	AND/OR AC-FT	SOURCE DESCRIPTION or WELL INFO	POINT OF DIVERSION DESCRIPTION
				DIAMETER DEPTH YEAR LOG	NORTH EAST CNR SEC TWN RNG B&M
0	4310389	.0000	4.73	6 100 - 500 N S	1470 W 150 E4 14 4S 2E US
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING	PRIORITY DATE: 05/17/199
				Lindsey, Ricky J.	Draper
				14259 South Rocky Mouth Circle	



















**INLAND PRODUCTION COMPANY**

410 17th Street, Suite 700  
Denver, CO 80202  
303-893-0102  
Fax #303-893-0103

---

**Date:** December 12, 2002

**To:** Lisha Cordova  
State of Utah, Division of Oil, Gas & Mining  
Phone: 801-538-5296  
Fax: 801-359-3940

**From:** Jeff Fandrich  
Phone: 303-382-4422  
Fax: 303-893-0103

**Pages (incl. cover sheet):** Three (3)

**Subject:** APDs for the Canvasback 14-22, 15-22, 16-22, 13-23, and 14-23 wells

---

Attached are two Memorandums of Surface Agreements covering the captioned APDs which have been previously submitted to your office. We have submitted the originals for recording in the respective counties. Please notify us if there is anything further needed to approve the APDs.

Thanks for your assistance. Happy Holidays!

---

If you do not receive all pages or there is a problem with this transmission, please call sender. This message and all attachments may contain privileged and/or confidential information. If you are not the intended recipient(s), or the employee or agent responsible for delivery of this message and attachments to the intended recipient(s), you are hereby notified that any dissemination, distribution or copying of this message is strictly prohibited. If you have received this message in error, please immediately notify the sender and return all copies via regular mail to the above address.

cc: Roosevelt - Mandie Crozier  
Jon Holst

**RECEIVED**

DEC 12 2002

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, Utah 84145-0155

IN REPLY REFER TO:  
 3160  
 (UT-922)

March 30, 2001

### Memorandum

To: Assistant District Manager Minerals, Vernal District  
 From: Michael Coulthard, Petroleum Engineer  
 Subject: 2001 Plan of Development Canvasback Unit,  
 Duchesne County, Utah.

Pursuant to email between Lisha Cordova, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management. The following wells are planned for calendar year 2001 within the Canvasback Unit, Duchesne County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Grrv)		
43-013-32238	13A-22-8-17	Sec. 22, T8S, R17E 0565 FSL 0822 FWL
43-013-32239	14-22-8-17	Sec. 22, T8S, R17E 0664 FSL 2067 FWL
43-013-32240	15-22-8-17	Sec. 22, T8S, R17E 0910 FSL 2056 FEL
43-013-32241	16-22-8-17	Sec. 22, T8S, R17E 0624 FSL 0465 FEL

This office has no has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Canvasback Unit  
 Division of Oil Gas and Mining  
 Agr. Sec. Chron  
 Fluid Chron

MCoulthard:mc:3-30-1



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

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

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

December 16, 2002

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

Re: Canvasback 16-22-8-17 Well, 624' FSL, 465' FEL, SE SE, Sec. 22, T. 8 South,  
R. 17 East, 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 43-013-32241.

Sincerely,

  
 John R. Baza  
Associate Director

pb

Enclosures

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

**Operator:** \_\_\_\_\_ Inland Production Company \_\_\_\_\_  
**Well Name & Number** \_\_\_\_\_ Canvasback 16-22-8-17 \_\_\_\_\_  
**API Number:** \_\_\_\_\_ 43-013-32241 \_\_\_\_\_  
**Lease:** \_\_\_\_\_ UTU-77233 \_\_\_\_\_

**Location:** SE SE Sec. 22 T. 8 South R. 17 East

### 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 of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will 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.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

**DIVISION OF OIL, GAS AND MINING****SPUDDING INFORMATION**Name of Company: INLAND PRODUCTION COMPANYWell Name: CANVASBACK 16-22-8-17Api No: 43-013-32241 Lease Type: FED MNRLS-FEE SURFSection 22 Township 08S Range 17E County DUCHESNEDrilling Contractor STUBBS DRILLING RIG# 111**SPUDDED:**Date 03/21/03Time 12:00 NOONHow DRY**Drilling will commence:** \_\_\_\_\_Reported by RAY HERRERATelephone # 1-435-823-1990Date 03/25/2003 Signed: CHD

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

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

OPERATOR ACCT. NO. N5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	89999	12299	43-013-32241	Carvasback #16-22-8-17	SE/SE	22	8S	17E	Duchesne	March 21, 2003	3-24-03 03/24/03

WELL 1 COMMENTS:

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		

WELL 2 COMMENTS:

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		

WELL 3 COMMENTS:

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		

WELL 4 COMMENTS:

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		

WELL 5 COMMENTS:

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

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

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MAR 24 2003

DIV. OF OIL, GAS & MINING

*Kebbie S. Jones*  
Signature  
Production Clerk  
Title

Kebbie S. Jones

March 24, 2003  
Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

010

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-77233

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

Canvasback

8. Well Name and No.

16-22-8-17

9. API Well No.

43-013-32241

10. Field and Pool, or Exploratory Area

11. County or Parish, State

Duchesne, 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.

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

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

465' FEL & 624' FSL SE/SE Sec 22. T.2N 8S. R.17E

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

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other Spud Report

Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 Dispose Water

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

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

On 3-21-03. MIRU Stubbs # 111. Drill 305' of 12 1/4" hole with air mist. TIH w/ 7 Jt's 85/8" J-55 24# csgn. Set @ 304.79'/KB On 3/22/03 cement with 150 sks of Class "G" w/ 2% CaCl2 + 1/4# sk Cello-Flake Mixed @ 15.8 ppg > 1.17 cf/sk yeild. 6bbls cement returned to surface. WOC.

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MAR 26 2003

DIV OF OIL, GAS & MINING

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

Signed

*Pat Wisener*  
Pat Wisener

Title

Drilling Foreman

Date

03/24/2003

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

# INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 304.79

LAST CASING 8 5/8" SET AT 304.79'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 300 LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR Inland Production Company  
 WELL Canvasback 16-22-8-17  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Stubbs # 111

**LOG OF CASING STRING:**

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		38.23 sh jt' shjt					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	292.94
		<b>GUIDE</b> shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			294.79
TOTAL LENGTH OF STRING		294.79	7	LESS CUT OFF PIECE			2
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			<b>304.79</b>
TOTAL		292.94	7	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		292.94	7				
TIMING		1ST STAGE		GOOD CIRC THRU JOB			Yes
BEGIN RUN CSG.		SPUD	03/21/2003	Bbls CMT CIRC TO SURFACE			6
CSG. IN HOLE			11:00am	RECIPROCATED PIPE FOR _____ THRU _____ FT STROKE			
BEGIN CIRC				DID BACK PRES. VALVE HOLD ?			N/A
BEGIN PUMP CMT				BUMPED PLUG TO _____			118 PSI
BEGIN DSPL. CMT							
PLUG DOWN		Cemented	03/22/2003				

CEMENT USED		CEMENT COMPANY- <b>B. J.</b>	
STAGE	# SX	CEMENT TYPE & ADDITIVES	
1	150	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield	

CENTRALIZER & SCRATCHER PLACEMENT	SHOW MAKE & SPACING
Centralizers - Middle first, top second & third for 3	<b>RECEIVED</b>
<b>MAR 26 2003</b>	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

011

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-77233**

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

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

8. Well Name and No.  
**CANVASBACK 16-22-8-17**

9. API Well No.  
~~22-88-7E-16~~ **43-013-32241**

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

11. County or Parish, State  
**DUCHESNE COUNTY, UTA**

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.  
**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**465 FEL 624 FSL                      SE/SE Section 22, T8S R17E**

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

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

Status report for time period 3/31/2003 through 4/6/2003.

Subject well had completion procedures initiated in the Green River formation on 4/4/2003 without use of a service rig over the well. A cement bond log was ran and the first of four proposed Green River intervals was perforated in anticipation of fracing next week.

RECEIVED  
APR 08 2003  
DIV. OF OIL, GAS & MINING

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

Signed *Gary Dietz* Title Completion Foreman Date 4/5/2003  
Gary Dietz

CC: UTAH DOGM

(This space for 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 and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

012

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**Canvasback**

8. Well Name and No.  
**16-22-8-17**

9. API Well No.  
**43-013-32241**

10. Field and Pool, or Exploratory Area

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

SUBMIT IN TRIPLICATE

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**INLAND PRODUCTION COMPANY**

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

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**465' FEL & 624' FSL SE/SE Sec 22. TWN 8S. R17E**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <b>Weekly Status Report</b>
	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

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

Weekly Status report for the period of 3-24-03 thru 3-31-03.

On 3-24-03 MIRU Eagle # 1. Set equipment. Pressure test Bop's, Kelly, TIW to 2,000 psi. Test 85/8" csgn to 1,500 psi. Vernal BLM office was notified of test. PU & MU BHA and tag cement @ 260'. Drill out cement and shoe. Con't to drill 77/8" hole with fresh water to a depth of 6379'. Lay down drill string. Open hole log. PU & MU Guide shoe, 1 jt 51/2" csg, Float collar & 147jt's J-55 15.5 # 51/2" csgn. Set @ 6374'/KB. Cement with 400\* sks. 50/50 POZ w/ 3% KCL, 1/4#sk Cello-Flake, 2% Gel, .3%SMS, .05#sk Static free, Mixed @ 14.4PPG >1.24 YLD. Then 320\* sks Prem Litell w/ 3% KCL, 3#/sk Kolseal, 8% Gel, .5SMS, 3#sk CSE, mixed @ 11.0PPG >3.43. Good returns thru job with 45 bbls of 50 bbls dye water to pit. Set slips with 90,000# tension. Nipple down BOP's. Release rig @ 2:30 am on 3-31-03

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

Signed *Pat Wisener* Title Drilling Foreman Date 04/07/2003  
Pat Wisener

CC: UTAH DOGM

(This space for Federal or State office use)

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

Conditions of approval, if any:

CC: Utah DOGM

RECEIVED

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

APR 11 2003

# INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 6374.52

LAST CASING 8 5/8" SET AT 304.79'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING 12'  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 6379' LOGGER 6370'  
 HOLE SIZE 7 7/8"

Flt cllr @ 6336'  
 OPERATOR Inland Production Company  
 WELL Canvasback 16-22-8-17  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Eagle # 1

**LOG OF CASING STRING:**

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14
		<b>37' @ 4136</b>					
<b>147</b>	<b>5 1/2"</b>	ETC LT & C casing	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	6324.45
		Float collar					0.6
<b>1</b>	<b>5 1/2"</b>	ETC LT&C csg	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	36.82
		<b>GUIDE</b> shoe			<b>8rd</b>	<b>A</b>	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			6376.52
TOTAL LENGTH OF STRING		6376.52	148	LESS CUT OFF PIECE			14
LESS NON CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		43.13	1	CASING SET DEPTH			<b>6374.52</b>
TOTAL		<b>6404.40</b>	149	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		6404.4	149				
TIMING		1ST STAGE	2nd STAGE				
BEGIN RUN CSG.		5:30 PM		GOOD CIRC THRU JOB			YES
CSG. IN HOLE		8:30 PM		Bbls CMT CIRC TO SURFACE			45 of 50 bbls dye water
BEGIN CIRC		8:45PM	9:30PM	RECIPROCATED PIPE FOR			THRUSTROKE
BEGIN PUMP CMT		9:45PM	10:17PM	DID BACK PRES. VALVE HOLD ?			Yes
BEGIN DSPL. CMT			10:30PM	BUMPED PLUG TO			2100 PSI
PLUG DOWN			<b>11:00PM</b>				

CEMENT USED		CEMENT COMPANY- <b>B. J.</b>					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
<b>1</b>	<b>320</b>	Premlite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/4#s/sk Cello Flake					
		mixed @ 11.0 ppg W / 3.43 cf/sk yield					
<b>2</b>	<b>400</b>	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD					
CENTRALIZER & SCRATCHER PLACEMENT				SHOW MAKE & SPACING			
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.							

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

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

**013 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-77233**

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

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

8. Well Name and No.  
**CANVASBACK 16-22-8-17**

9. API Well No.  
**43-013-32241**

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

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**624 FSL 465 FEL                      SE/SE Section 22, T8S R17E**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input checked="" type="checkbox"/> Altering Casing <p align="center"><b>Weekly status report</b></p> <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.)\*

Status report for time period 4/4/03 - 4/11/03

Subject well had completion procedures initiated in the Green River formation on 4/4/03 without use of a service rig over the well. A cement bond log was run and a total of four Green River intervals were perforated and hydraulically fracture treated w/ 20/40 mesh sand. Perf intervals were #1 (6271-82'), (6186-97'), (6140-49'); #2 (6069-86'), (6042-47'); #3 (5473-84'); and #4 (5137-48'). All were 4 JSPF. Composite flow-through frac plugs were used between stages. Fracs were flowed back through chokes. A service rig was moved on well on 4/9/03. Bridge plugs were drilled out and well was cleaned out to PBTD. Zones were swab tested for sand cleanup. A BHA & production tbg string were run in and anchored in well. End of tubing string @ 6221'. A repaired 1 1/2" bore rod pump was run in well on sucker rods. Well was placed on production via rod pump on 4/11/03.

RECEIVED

**APR 21 2003**

DEPT OF THE INTERIOR - BUREAU OF LAND MANAGEMENT

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

Signed Martha Hall Title Office Manager Date 4/18/2003  
 Martha Hall

CC: UTAH DOGM /

(This space for Federal or State office use)

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

Conditions of approval, if any:



May 9, 2003

State of Utah, Division of Oil, Gas and Mining  
Attn: Ms. Carol Daniels  
P.O. Box 145801  
Salt Lake City, Utah 84144-5801

Attn: Ms. Carol Daniels

Canvasback 16-22-8-17 (43-013-32241)  
Duchesne County, UT

Dear Ms. Carol Daniels

Enclosed is a Well Completion or Recompletion Report and Log form (Form 3160-4). We are no longer sending Log copies since Dave Jull of Phoenix Surveys is already doing so.

If you should have any questions, please contact me at (303) 382-4449.

Sincerely,

Brian Harris  
Engineering Tech

Enclosures

cc: Bureau of Land Management  
Vernal District Office, Division of Minerals  
Attn: Edwin I. Forsman  
170 South 500 East  
Vernal, Utah 84078

Well File – Denver  
Well File – Roosevelt  
Patsy Barreau/Denver  
Bob Jewett/Denver

RECEIVED

MAY 13 2003

DIV. OF OIL, GAS & MINING

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

FORM APPROVED  
OMB NO. 1004-0137  
Expires: February 28, 1995

014

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

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

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

1b. TYPE OF WELL  
 NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DIFF RESVR.  Other \_\_\_\_\_

5. LEASE DESIGNATION AND SERIAL NO.  
UTU-77233

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
NA

7. UNIT AGREEMENT NAME  
Canvasback Unit

8. FARM OR LEASE NAME, WELL NO.  
CB 16-22-8-17

2. NAME OF OPERATOR  
INLAND RESOURCES INC.

3. ADDRESS AND TELEPHONE NO.  
410 17th St. Suite 700 Denver, CO 80202

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*  
 At Surface 624' FSL & 465' FEL (SESE) Sec. 22, Twp 8S, Rng 17E  
 At top prod. Interval reported below

10. FIELD AND POOL OR WILDCAT  
Monument Butte

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 22, Twp 8S, Rng 17E

14. API NO. 43-013-32241 DATE ISSUED 12/24/02

12. COUNTY OR PARISH Duchesne 13. STATE UT

15. DATE SPUDDED 3/21/03 16. DATE T.D. REACHED 3/30/03 17. DATE COMPL. (Ready to prod.) 4/11/03 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* GL 5159' KB 5171' 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 6379' 21. PLUG BACK T.D., MD & TVD 6336' 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY -----> ROTARY TOOLS X CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*  
Green River 5137'-6282'

25. WAS DIRECTIONAL SURVEY MADE  
No

26. TYPE ELECTRIC AND OTHER LOGS RUN  
DIGI/SP/CDL/GR/Cal - 4-15-03

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" - J-55	24#	304'	12-1/4"	To surface with 150 sx Class "G" cmt	
5-1/2" - J-55	15.5#	6374'	7-7/8"	320 sx Premlite II and 400 sx 50/50 Poz	

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 @ 6220'	TA @ 6119'

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(CP2,3,4) 6271-82', 6186-97', 6140-49'	.038"	4/124	6140'-6282'	Frac w/ 120,140# 20/40 sand in 890 bbls frac fluid
(CP.5, 1) 6069-86', 6042-47'	.038"	4/88	6042'-6086'	Frac w/ 60,058# 20/40 sand in 505 bbls frac fluid
(B.5) 5473'-5484'	.038"	4/44	5473'-5484'	Frac w/ 30,451# 20/40 sand in 318 bbls frac fluid
(D3) 5137'-5148'	.038"	4/44	5137'-5148'	Frac w/ 25,588# 20/40 sand in 293 bbls frac fluid

33.\* PRODUCTION

DATE FIRST PRODUCTION 4/11/03 PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) 2-1/2" x 1-1/2" x 15' RHAC Pump WELL STATUS (Producing or shut-in) PRODUCING

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
10 day ave			---	52	40	5	769

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 MAY 13 2003

35. LIST OF ATTACHMENTS

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

SIGNED Brian Harris TITLE Engineering Technician DATE 5/9/2003

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

DIV. OF OIL, GAS & MINING

RECEIVED  
MAY 13 2003

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);

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS			
				NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
			Well Name Canvasback 16-22-8-17	Garden Gulch Mkr	4389'		
				Garden Gulch 2	4506'		
				Point 3 Mkr	4778'		
				X Mkr	5008'		
				Y-Mkr	5044'		
				Douglas Creek Mkr	5178'		
				BiCarbonate Mkr	5442'		
				B Limestone Mkr	5584'		
				Castle Peak	6023'		
				Basal Carbonate			
				Total Depth (LOGGERS)	6379'		

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

015

**SUNDRY NOTICES AND REPORTS ON WELLS**

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Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.  
**UTU-77233**

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

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

8. Well Name and No.  
**CANVASBACK 16-22-8-17**

9. API Well No.  
**43-013-32241**

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

11. County or Parish, State  
**DUCHESNE COUNTY, UT**

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.  
**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**624 FSL 465 FEL                      SE/SE Section 22, T8S R17E**

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(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.)\*

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Inland's secondary recovery project.

Water not meeting quality criteria, is disposed at Inland's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

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

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

Signed Mandie Crozier Title Regulatory Specialist Date 11/14/2003  
Mandie Crozier

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date NOV 17 2003

Conditions of approval, if any:

CC: Utah DOGM

**RECEIVED**  
**NOV 17 2003**  
**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 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

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

**OPERATOR CHANGE WORKSHEET**

**016**

Change of Operator (Well Sold)

Designation of Agent/Operator

**ROUTING**

1. GLH
2. CDW
3. FILE

**X Operator Name Change**

**Merger**

The operator of the well(s) listed below has changed, effective:		<b>9/1/2004</b>
<b>FROM: (Old Operator):</b> N5160-Inland Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721	<b>TO: ( New Operator):</b> N2695-Newfield Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721	

**CA No. Unit: CANVASBACK (GREEN RIVER)**

<b>WELL(S)</b>								
NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
BALCRON FED 12-22Y	22	080S	170E	4301331476	12299	Federal	WI	A
BALCRON MON FED 22-22-8-17Y	22	080S	170E	4301331538	12299	Federal	OW	P
BALCRON MON FED 11-22-8-17Y	22	080S	170E	4301331539	12299	Federal	OW	P
MON FED 13-22-8-17Y	22	080S	170E	4301331583	12299	Federal	OW	S
MON FED 32-22-8-17	22	080S	170E	4301331586	12299	Federal	WI	A
MON FED 31-22-8-17	22	080S	170E	4301331587	12299	Federal	OW	P
MON FED 33-22-8-17	22	080S	170E	4301331588	12299	Federal	OW	P
MON FED 23-22-8-17Y	22	080S	170E	4301331702	12299	Federal	WI	A
PARIETTE DRAW 8-22	22	080S	170E	4301331826	12299	Federal	OW	P
CANVASBACK 13A-22-8-17	22	080S	170E	4301332238	12299	Federal	OW	P
CANVASBACK 14-22-8-17	22	080S	170E	4301332239	12299	Federal	OW	P
CANVASBACK 15-22-8-17	22	080S	170E	4301332240	12299	Federal	OW	P
CANVASBACK 16-22-8-17	22	080S	170E	4301332241	12299	Federal	OW	P
FEDERAL 13-23-8-17	23	080S	170E	4301332340	12299	Federal	OW	P
CANVASBACK 12-23-8-17	23	080S	170E	4301332341	12299	Federal	OW	P
CANVASBACK 4-23-8-17	23	080S	170E	4301332342	12299	Federal	OW	P
CANVASBACK 5-23-8-17	23	080S	170E	4301332343	12299	Federal	OW	P
FEDERAL 14-23-8-17	23	080S	170E	4304734556	12299	Federal	OW	P
CANVASBACK 15-23-8-17	23	080S	170E	4304734557	12299	Federal	D	PA
CANVASBACK 3-23-8-17	23	080S	170E	4304734567	12299	Federal	OW	P

K  
K

**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. 1004-0137  
Expires: July 31, 2010

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

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 NEWFIELD PRODUCTION COMPANY

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

3b. Phone    (include are code)  
                   435.646.3721

4. Location of Well    (Footage, Sec., T., R., M., or Survey Description)  
 624 FSL 465 FEL  
 SESE Section 22 T8S R17E

5. Lease Serial No.  
 USA UTU-77233

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
 CANVASBACK 16-22-8-17

9. API Well No.  
 4301332241

10. Field and Pool, or Exploratory Area  
 GREATER MB UNIT

11. County or Parish, State  
 DUCHESNE, UT

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

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

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat 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 recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Newfield Production proposes to convert the above mentioned well from producing oil well to an injection well.

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

**RECEIVED  
FEB 01 2012  
DIV. OF OIL, GAS & MINING**

I hereby certify that the foregoing is true and correct (Printed/ Typed) Jill Loyle	Title Regulatory Technician
Signature 	Date 01/25/2012

**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



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8**

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

**FEB 29 2012**

Ref: 8P-W-GW

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

Mr. Eric Sundberg  
Regulatory Analyst  
Newfield Production Company  
1001 Seventeenth Street – Suite 2000  
Denver, Colorado 80202

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

**FOR RECORD ONLY**

RE: Underground Injection Control (UIC)  
Add Well to Canvasback Area Permit  
EPA UIC Permit UT20855-09479  
Well: Canvasback 16-22-8-17  
SESE Sec. 22 T8S-R17E  
Duchesne County, Utah  
API No.: 43-013-32241

Dear Mr. Sundberg:

The U.S. Environmental Protection Agency Region 8 hereby authorizes Newfield Production Company (Newfield) to convert the oil well Canvasback 16-22-8-17 to an enhanced recovery injection well according to the terms and conditions of the enclosed Authorization for Additional Well. The addition of this injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Canvasback Area Permit No. UT20855-00000 and subsequent modifications.

Please be aware that Newfield does not have authorization to begin well injection until all Prior to Commencing Injection requirements are met and written authorization to inject is given by the Director. Prior to receiving authorization to inject, Newfield must submit for review and approval (1) the results of a Part I (internal) Mechanical Integrity test, (2) a pore pressure calculation of the injection interval and (3) a completed EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram.

**RECEIVED**

**MAR 08 2012**

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

If you have any questions, please call Emmett Schmitz at (303) 312-6174 or (800) 227-8917, extension 312-6174. Please submit the required data to Jason Deardorff at the letterhead address citing mail code 8P-W-GW.

Sincerely,



Callie A. Videtich  
Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance



Enclosures: Authorization for Additional Well  
Wellbore Schematic for Canvasback 16-22-8-17

cc: Letter Only:

Uintah & Ouray Business Committee:  
Irene Cuch, Chairman  
Ronald Wopsock, Vice-Chairman  
Frances Poowegup, Councilwoman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman  
Richard Jenks, Jr., Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

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

cc: All Enclosures:

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

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

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

Fluid Minerals Engineering Office  
BLM - Vernal Office

Reed Durfey  
District Manager  
Newfield Production Company  
Myton, Utah



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

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

**AUTHORIZATION FOR ADDITIONAL WELL**

**UIC Area Permit UT20855-00000**

The Canvasback Final UIC Area Permit UT20855-00000, effective August 18, 2000, authorizes injection for the purpose of enhanced oil recovery in the Monument Butte Field. On January 25, 2012, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

Well Name:	Canvasback 16-22-8-17
EPA Permit ID Number:	UT20855-09479
Location:	624' FSL & 465' FEL SESE Sec. 22-T8S-R17E Duchesne County, Utah API #43-013-32241

Pursuant to 40 CFR §144.33, Area UIC Permit UT20855-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit No. UT20855-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: 2/28/12

  
for **Callie A. Videtich**

\*Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

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

## **INJECTION WELL-SPECIFIC REQUIREMENTS**

Well Name: Canvasback 16-22-8-17  
EPA Well ID Number: UT20855-09479

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

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

Once these records are received and approved by EPA, the Director will provide written authorization to inject.

**Note:** All depths given in this authorization reference the Kelly Bushing datum unless otherwise specified.

**Approved Injection Interval:** The injection interval is the part of the injection zone where fluids are directly emplaced. The approved injection interval for this well is from the top of the Garden Gulch Sand #2 to the top of the Wasatch Formation. Additional injection perforations may be added provided that they remain within the approved injection interval. Injection between the outermost casing protecting USDWs and the well bore is prohibited.

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is 1,420 psig, based on the calculation  $MAIP = [FG - (0.433)(SG)] * D$ , where "FG" is the fracture gradient, "SG" is the specific gravity of injectate and "D" is the Kelly Bushing depth to the shallowest casing perforation. For this well, FG is 0.716 psi/ft, SG is 1.015 and D is 5,137 ft.

UIC Area Permit No. UT20855-00000 provides the opportunity for the permittee to request a change of the MAIP based upon the submitted results of a step rate test that demonstrates the formation parting pressure.

**Well Construction: Casing and Cementing:** The well was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c).

Cementing records, including the cement bond log, have satisfactorily demonstrated the presence of adequate cement to prevent the migration of injection fluids behind the casing from the injection zone.

**Well Construction: Tubing and Packer:** 2-7/8" or similar size injection tubing is approved. The packer shall be set at a depth no more than 100 ft. above the top perforation.

**Demonstration of Mechanical Integrity:**

- (1) A successful demonstration of part I (internal) mechanical integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than every five years after the last successful test.
- (2) EPA reviewed the cementing records and determined the cement will provide an effective barrier to significant upward movement of fluids through vertical channels adjacent to the well bore pursuant to 40 CFR §146.8 (a)(2). Therefore, further demonstration of Part II (external) Mechanical Integrity is not required at this time.

**Demonstration of Financial Responsibility:** The applicant has demonstrated financial responsibility by a Surety Bond in the amount of \$42,000 and a Standby Trust Agreement that have been approved by EPA. The Director may revise the amount required and may require the permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment plan.

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

- (1) Isolate the injection zone: Remove down hole apparatus from the well and perform necessary clean out; displace well fluid with plugging gel. Set a cast iron bridge plug (CIBP) within the innermost casing string no more than 50 ft. above the top perforation with a minimum of 20 ft. cement plug on top of the CIBP.
- (2) Isolate the Trona-Bird's Nest water zone and Mahogany Oil Shale: Perforate and squeeze cement up the backside of the outermost casing string across the Mahogany Oil Shale and Trona-Bird's Nest water zone, from at least 55 ft. above the top of the Trona-Bird's Nest to at least 55 ft. below the base of Mahogany Oil Shale, unless there is existing cement across this interval.
- (3) Isolate the Uinta Formation from the Green River Formation: Perforate and squeeze a minimum of 110 ft. cement up the backside of the outermost casing string to isolate the contact between the Uinta Formation and the Green River Formation, unless there is existing cement across this interval. Set a minimum 110 ft. cement plug in the innermost

casing string, centered on the contact between the Green River Formation and Uinta Formation.

(4) Isolate Surface Fluid Migration Paths:

- a. If the depth of the lowermost USDW is above the base of surface casing, perforate the outermost casing string 50 ft. below the base of surface casing and circulate cement to the surface, unless there is existing cement across this interval; OR
- b. If the depth of the lowermost USDW is below the base of surface casing, perforate the outermost casing string 50 ft. below the base of the lowermost USDW and circulate cement to surface; AND
- c. Set a cement plug inside the innermost casing string from 50 ft. below the base of the surface casing to surface.

### **INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: Canvasback 16-22-8-17  
EPA Well ID Number: UT20855-09479

**Underground Sources of Drinking Water (USDWs):** USDWs in the Canvasback Area Permit generally occur within the Uinta Formation. According to "Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92," the base of moderately saline ground water may be found at approximately 80 ft. below ground surface in the Canvasback 16-22-8-17 well. Water samples from the Green River Formation taken in conjunction with oil production show that USDWs do occur at deeper depths within the Humpback unit and as deep as 6,026 ft. in the Balcron Monument Federal 33-25-8-17 well. Freshening of the injection zone due to the injection of relatively fresh water for the purpose of enhanced oil recovery has been demonstrated to be occurring in parts of the Monument Butte Field, including this permit area.

**http://NRWRT1.NR.STATE.UT.US:** According to the state of Utah, any water wells present within the permit area are shallow and do not intersect the injection zone.

**Composition of Source, Formation, and Injectate Water:** A water sample analysis was not required as part of the application to add this well to the area permit because EPA considers the water quality of the injection zone to be well documented. Area UIC Permit UT20855-00000 and Statement of Basis describe originally in place formation fluid within the injection zone to be greater than 10,000 mg/l Total Dissolved Solids (TDS) content. However, due to injection of relatively fresh water for the purpose of enhanced oil recovery within the permit area, produced water samples showing TDS values less than 10,000 mg/l have occurred and this occurrence has been observed to increase in frequency with time. Newfield has demonstrated and EPA has confirmed that freshening of the injection zone is occurring and that more recent water samples showing TDS values less than 10,000 mg/l are not likely representative of the original formation

Authorization for Additional Well: UIC Area Permit UT20855-00000  
Well: Canvasback 16-22-8-17 EPA Well ID: UT20855-09479

fluid at or near this well. EPA considers the presence of waters less than 10,000 mg/l within the injection zone to be a temporary, artificial condition and therefore does not require an aquifer exemption to allow injection to occur.

The injectate is water from a Monument Butte Field Injection Facility and consists of culinary water from the Johnson Water District and/or water from the Green River, blended with produced Green River Formation water and resulting in TDS content less than 10,000 mg/l.

**Confining Zone:** A *Confining Zone* is a geological formation, group of formations, or part of a formation that is capable of limiting fluid movement above an injection zone. The designated Confining Zone for this well consists of three interbedded, thick impervious shales, confining marlstones and siltstones. The Confining Zone extends from approximately 200 feet above the Garden Gulch Marker to the top of the Garden Gulch Number 2 Sand within the Garden Gulch Member of the Green River Formation. This interval is found between the depths of 3,970 feet to 4,466 feet in the Federal 1-26-8-17 Type Gamma Log for the Monument Butte Field.

**Injection Zone:** An *injection zone* is a geological formation, group of formations, or part of a formation that receives fluids through a well. The Injection Zone for this well consists of the lower part of the Garden Gulch member starting at the top of the Garden Gulch #2 Sand and includes the Douglas Creek and Basal Carbonate members of the Green River Formation to the top of the Wasatch Formation.

**Well Construction:** This well was constructed according to BLM requirements and controls for production wells at the time of well completion. EPA has reviewed and approved the construction and determined that it is adequate to protect USDWs.

**Surface Casing:** 8-5/8" casing is set at 305 ft. in a 12-1/4" hole, using 150 sacks Class "G" cement, cemented to the surface.

**Longstring Casing:** 5-1/2" casing is set at 6,375 ft. in a 7-7/8" hole secured with 720 sacks of cement. Total driller depth is 6,379 ft. Plugged back total depth is 6,336 ft. EPA calculates top of cement at 1,598 ft. Estimated CBL top of cement is 630 ft.

**Perforations:** Top perforation: 5,137 ft. Bottom perforation: 6,282 ft.

### **AREA OF REVIEW (AOR) WELL REQUIREMENTS**

The following four wells that penetrate the confining zone within or proximate to a ¼-mile radius around the Canvasback 16-22-8-17 well were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs:

Canvasback Federal 13-23-8-17  
UIC Permit UT20855-06520.

API: 43-013-32340 SWSW Sec. 23-T8S-R17E

*Authorization for Additional Well: UIC Area Permit UT20855-00000  
Well: Canvasback 16-22-8-17 EPA Well ID: UT20855-09479*

Greater Monument Butte P-23-8-17	API: 43-013-50520	SHL: SESE Sec. 23-T8S-R17E BHL: SWSW Sec. 23-T8S-R17E
Greater Boundary 1-27-8-17 UIC Permit UT20702-06172	API: 43-013-32228	NENE Sec. 27-T8S-R17E
Greater Monument Butte S-22-8-17	API: 43-013-50519	SHL: SESE Sec. 22-T8S-R17E BHL: NWSE Sec.22-T8S-R17E

**No Corrective Action Required on AOR wells:** EPA reviewed all wells penetrating the Confining Zone within a ¼-mile radius of the proposed injection well and determined that cement in these wells is adequate to prevent the movement of fluid into USDWs. Top of cement is above the base of the Confining Zone in all AOR wells.

**Reporting of Noncompliance:**

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

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

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

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

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

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

# Canvasback #16-22-8-17

Spud Date: 3/21/2003  
 Put on Production: 4/11/2003  
 GL: 5159' KB: 5171'

Initial Production: 52 BOPD,  
 40 MCFD, 5 BWPD

## Proposed Injection Wellbore Diagram

### SURFACE CASING

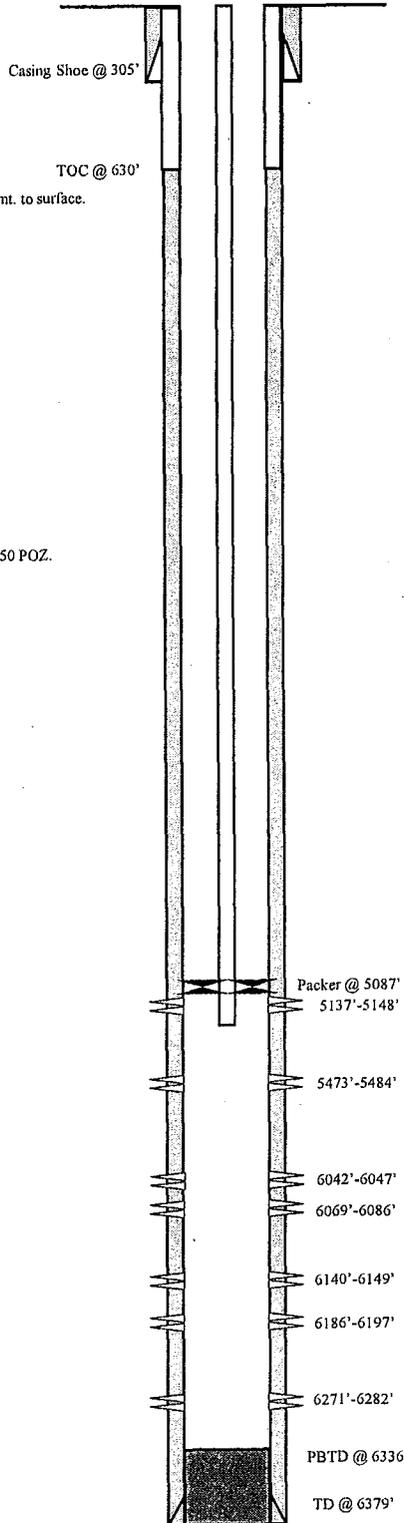
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (292.94')  
 DEPTH LANDED: 304.79' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 150 sxs Class "G" cmt. Estimated 6 bbls cmt. to surface.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 148 jts. (6376.52')  
 DEPTH LANDED: 6374.52' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 320 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 630'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 189 jts (6107.51')  
 TUBING ANCHOR: 6119.51' KB  
 NO. OF JOINTS: 1 jt (32.30')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 6154.61' KB  
 NO. OF JOINTS: 2 jts. (64.70')  
 TOTAL STRING LENGTH: EOT @ 6220.86' KB



### FRAC JOB

4/8/03	6140'-6282'	Frac CP2, CP3, and CP4 sands as follows: 120,140# 20/40 sand in 890 bbls YF 125 fluid. Treated @ avg press of 1770 psi w/avg rate of 28.7 BPM. ISIP 1920 psi. Calc flush: 6138 gal. Actual flush: 6109 gal.
4/8/03	6042'-6086'	Frac CP .5 and CP1 sands as follows: 60,058# 20/40 sand in 505 bbls YF 125 fluid. Treated @ avg press of 2129 psi w/avg rate of 19.4 BPM. ISIP 2070 psi. Calc flush: 6040 gal. Actual flush: 5956 gal.
4/8/03	5473'-5484'	Frac B .5 sands as follows: 30,451# 20/40 sand in 318 bbls YF 125 fluid. Treated @ avg press of 2420 psi w/avg rate of 18.5 BPM. ISIP 1890 psi. Calc flush: 5471 gal. Actual flush: 5375 gal.
4/8/03	5137'-5148'	Frac DS3 sands as follows: 25,588# 20/40 sand in 293 bbls YF 125 fluid. Treated @ avg press of 1659 psi w/avg rate of 22 BPM. ISIP 2120 psi. Calc flush: 5135 gal. Actual flush: 5046 gal.

### PERFORATION RECORD

4/4/03	6271'-6282'	4 JSPF	44 holes
4/4/03	6186'-6197'	4 JSPF	44 holes
4/4/03	6140'-6149'	4 JSPF	36 holes
4/8/03	6069'-6086'	4 JSPF	68 holes
4/8/03	6042'-6047'	4 JSPF	20 holes
4/8/03	5473'-5484'	4 JSPF	44 holes
4/8/03	5137'-5148'	4 JSPF	44 holes

**NEWFIELD**

Canvasback #16-22-8-17  
 624' FSL & 465' FEL  
 SE/SE Section 22-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-32241; Lease #UTU-77233



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8**

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

**FEB 29 2012**

Ref: 8P-W-GW

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

Mr. Eric Sundberg  
Regulatory Analyst  
Newfield Production Company  
1001 Seventeenth Street – Suite 2000  
Denver, Colorado 80202

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

**FOR RECORD ONLY**

RE: Underground Injection Control (UIC)  
Add Well to Canvasback Area Permit  
EPA UIC Permit UT20855-09479  
Well: Canvasback 16-22-8-17  
SESE Sec. 22 T8S-R17E  
Duchesne County, Utah  
API No.: 43-013-32241

Dear Mr. Sundberg:

The U.S. Environmental Protection Agency Region 8 hereby authorizes Newfield Production Company (Newfield) to convert the oil well Canvasback 16-22-8-17 to an enhanced recovery injection well according to the terms and conditions of the enclosed Authorization for Additional Well. The addition of this injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Canvasback Area Permit No. UT20855-00000 and subsequent modifications.

Please be aware that Newfield does not have authorization to begin well injection until all Prior to Commencing Injection requirements are met and written authorization to inject is given by the Director. Prior to receiving authorization to inject, Newfield must submit for review and approval (1) the results of a Part I (internal) Mechanical Integrity test, (2) a pore pressure calculation of the injection interval and (3) a completed EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram.

**RECEIVED**

**MAR 08 2012**

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

If you have any questions, please call Emmett Schmitz at (303) 312-6174 or (800) 227-8917, extension 312-6174. Please submit the required data to Jason Deardorff at the letterhead address citing mail code 8P-W-GW.

Sincerely,



Callie A. Videtich  
Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance



Enclosures: Authorization for Additional Well  
Wellbore Schematic for Canvasback 16-22-8-17

cc: Letter Only:

Uintah & Ouray Business Committee:

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

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Accepted by the  
Utah Division of  
Oil, Gas and Mining

FOR RECORD ONLY

cc: All Enclosures:

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

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

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

Fluid Minerals Engineering Office  
BLM - Vernal Office

Reed Durfey  
District Manager  
Newfield Production Company  
Myton, Utah



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

AUTHORIZATION FOR ADDITIONAL WELL

**UIC Area Permit UT20855-00000**

The Canvasback Final UIC Area Permit UT20855-00000, effective August 18, 2000, authorizes injection for the purpose of enhanced oil recovery in the Monument Butte Field. On January 25, 2012, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

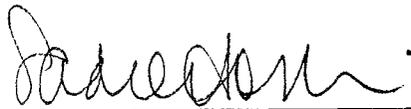
Well Name:	Canvasback 16-22-8-17
EPA Permit ID Number:	UT20855-09479
Location:	624' FSL & 465' FEL SESE Sec. 22-T8S-R17E Duchesne County, Utah API #43-013-32241

Pursuant to 40 CFR §144.33, Area UIC Permit UT20855-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit No. UT20855-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: 2/28/12

  
for **Callie A. Videtich**

\*Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

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

## **INJECTION WELL-SPECIFIC REQUIREMENTS**

Well Name: Canvasback 16-22-8-17  
EPA Well ID Number: UT20855-09479

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

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

Once these records are received and approved by EPA, the Director will provide written authorization to inject.

**Note:** All depths given in this authorization reference the Kelly Bushing datum unless otherwise specified.

**Approved Injection Interval:** The injection interval is the part of the injection zone where fluids are directly emplaced. The approved injection interval for this well is from the top of the Garden Gulch Sand #2 to the top of the Wasatch Formation. Additional injection perforations may be added provided that they remain within the approved injection interval. Injection between the outermost casing protecting USDWs and the well bore is prohibited.

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is 1,420 psig, based on the calculation  $MAIP = [FG - (0.433)(SG)] * D$ , where "FG" is the fracture gradient, "SG" is the specific gravity of injectate and "D" is the Kelly Bushing depth to the shallowest casing perforation. For this well, FG is 0.716 psi/ft, SG is 1.015 and D is 5,137 ft.

UIC Area Permit No. UT20855-00000 provides the opportunity for the permittee to request a change of the MAIP based upon the submitted results of a step rate test that demonstrates the formation parting pressure.

**Well Construction: Casing and Cementing:** The well was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c).

Cementing records, including the cement bond log, have satisfactorily demonstrated the presence of adequate cement to prevent the migration of injection fluids behind the casing from the injection zone.

**Well Construction: Tubing and Packer:** 2-7/8" or similar size injection tubing is approved. The packer shall be set at a depth no more than 100 ft. above the top perforation.

### **Demonstration of Mechanical Integrity:**

- (1) A successful demonstration of part I (internal) mechanical integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than every five years after the last successful test.
- (2) EPA reviewed the cementing records and determined the cement will provide an effective barrier to significant upward movement of fluids through vertical channels adjacent to the well bore pursuant to 40 CFR §146.8 (a)(2). Therefore, further demonstration of Part II (external) Mechanical Integrity is not required at this time.

**Demonstration of Financial Responsibility:** The applicant has demonstrated financial responsibility by a Surety Bond in the amount of \$42,000 and a Standby Trust Agreement that have been approved by EPA. The Director may revise the amount required and may require the permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment plan.

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

- (1) Isolate the injection zone: Remove down hole apparatus from the well and perform necessary clean out; displace well fluid with plugging gel. Set a cast iron bridge plug (CIBP) within the innermost casing string no more than 50 ft. above the top perforation with a minimum of 20 ft. cement plug on top of the CIBP.
- (2) Isolate the Trona-Bird's Nest water zone and Mahogany Oil Shale: Perforate and squeeze cement up the backside of the outermost casing string across the Mahogany Oil Shale and Trona-Bird's Nest water zone, from at least 55 ft. above the top of the Trona-Bird's Nest to at least 55 ft. below the base of Mahogany Oil Shale, unless there is existing cement across this interval.
- (3) Isolate the Uinta Formation from the Green River Formation: Perforate and squeeze a minimum of 110 ft. cement up the backside of the outermost casing string to isolate the contact between the Uinta Formation and the Green River Formation, unless there is existing cement across this interval. Set a minimum 110 ft. cement plug in the innermost

casing string, centered on the contact between the Green River Formation and Uinta Formation.

(4) Isolate Surface Fluid Migration Paths:

- a. If the depth of the lowermost USDW is above the base of surface casing, perforate the outermost casing string 50 ft. below the base of surface casing and circulate cement to the surface, unless there is existing cement across this interval; OR
- b. If the depth of the lowermost USDW is below the base of surface casing, perforate the outermost casing string 50 ft. below the base of the lowermost USDW and circulate cement to surface; AND
- c. Set a cement plug inside the innermost casing string from 50 ft. below the base of the surface casing to surface.

### **INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: Canvasback 16-22-8-17  
EPA Well ID Number: UT20855-09479

**Underground Sources of Drinking Water (USDWs):** USDWs in the Canvasback Area Permit generally occur within the Uinta Formation. According to "Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92," the base of moderately saline ground water may be found at approximately 80 ft. below ground surface in the Canvasback 16-22-8-17 well. Water samples from the Green River Formation taken in conjunction with oil production show that USDWs do occur at deeper depths within the Humpback unit and as deep as 6,026 ft. in the Balcron Monument Federal 33-25-8-17 well. Freshening of the injection zone due to the injection of relatively fresh water for the purpose of enhanced oil recovery has been demonstrated to be occurring in parts of the Monument Butte Field, including this permit area.

**http://NRWRT1.NR.STATE.UT.US:** According to the state of Utah, any water wells present within the permit area are shallow and do not intersect the injection zone.

**Composition of Source, Formation, and Injectate Water:** A water sample analysis was not required as part of the application to add this well to the area permit because EPA considers the water quality of the injection zone to be well documented. Area UIC Permit UT20855-00000 and Statement of Basis describe originally in place formation fluid within the injection zone to be greater than 10,000 mg/l Total Dissolved Solids (TDS) content. However, due to injection of relatively fresh water for the purpose of enhanced oil recovery within the permit area, produced water samples showing TDS values less than 10,000 mg/l have occurred and this occurrence has been observed to increase in frequency with time. Newfield has demonstrated and EPA has confirmed that freshening of the injection zone is occurring and that more recent water samples showing TDS values less than 10,000 mg/l are not likely representative of the original formation

Authorization for Additional Well: UIC Area Permit UT20855-00000  
Well: Canvasback 16-22-8-17 EPA Well ID: UT20855-09479

fluid at or near this well. EPA considers the presence of waters less than 10,000 mg/l within the injection zone to be a temporary, artificial condition and therefore does not require an aquifer exemption to allow injection to occur.

The injectate is water from a Monument Butte Field Injection Facility and consists of culinary water from the Johnson Water District and/or water from the Green River, blended with produced Green River Formation water and resulting in TDS content less than 10,000 mg/l.

**Confining Zone:** A *Confining Zone* is a geological formation, group of formations, or part of a formation that is capable of limiting fluid movement above an injection zone. The designated Confining Zone for this well consists of three interbedded, thick impervious shales, confining marlstones and siltstones. The Confining Zone extends from approximately 200 feet above the Garden Gulch Marker to the top of the Garden Gulch Number 2 Sand within the Garden Gulch Member of the Green River Formation. This interval is found between the depths of 3,970 feet to 4,466 feet in the Federal 1-26-8-17 Type Gamma Log for the Monument Butte Field.

**Injection Zone:** An *injection zone* is a geological formation, group of formations, or part of a formation that receives fluids through a well. The Injection Zone for this well consists of the lower part of the Garden Gulch member starting at the top of the Garden Gulch #2 Sand and includes the Douglas Creek and Basal Carbonate members of the Green River Formation to the top of the Wasatch Formation.

**Well Construction:** This well was constructed according to BLM requirements and controls for production wells at the time of well completion. EPA has reviewed and approved the construction and determined that it is adequate to protect USDWs.

**Surface Casing:** 8-5/8" casing is set at 305 ft. in a 12-1/4" hole, using 150 sacks Class "G" cement, cemented to the surface.

**Longstring Casing:** 5-1/2" casing is set at 6,375 ft. in a 7-7/8" hole secured with 720 sacks of cement. Total driller depth is 6,379 ft. Plugged back total depth is 6,336 ft. EPA calculates top of cement at 1,598 ft. Estimated CBL top of cement is 630 ft.

**Perforations:** Top perforation: 5,137 ft. Bottom perforation: 6,282 ft.

### **AREA OF REVIEW (AOR) WELL REQUIREMENTS**

The following four wells that penetrate the confining zone within or proximate to a ¼-mile radius around the Canvasback 16-22-8-17 well were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs:

Canvasback Federal 13-23-8-17  
UIC Permit UT20855-06520.

API: 43-013-32340 SWSW Sec. 23-T8S-R17E

*Authorization for Additional Well: UIC Area Permit UT20855-00000  
Well: Canvasback 16-22-8-17 EPA Well ID: UT20855-09479*

Greater Monument Butte P-23-8-17	API: 43-013-50520	SHL: SESE Sec. 23-T8S-R17E BHL: SWSW Sec. 23-T8S-R17E
Greater Boundary 1-27-8-17 UIC Permit UT20702-06172	API: 43-013-32228	NENE Sec. 27-T8S-R17E
Greater Monument Butte S-22-8-17	API: 43-013-50519	SHL: SESE Sec. 22-T8S-R17E BHL: NWSE Sec.22-T8S-R17E

**No Corrective Action Required on AOR wells:** EPA reviewed all wells penetrating the Confining Zone within a ¼-mile radius of the proposed injection well and determined that cement in these wells is adequate to prevent the movement of fluid into USDWs. Top of cement is above the base of the Confining Zone in all AOR wells.

**Reporting of Noncompliance:**

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

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

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

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

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

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

# Canvasback #16-22-8-17

Spud Date: 3/21/2003  
 Put on Production: 4/11/2003  
 GL: 5159' KB: 5171'

Initial Production: 52 BOPD,  
 40 MCFD, 5 BWPD

## Proposed Injection Wellbore Diagram

### SURFACE CASING

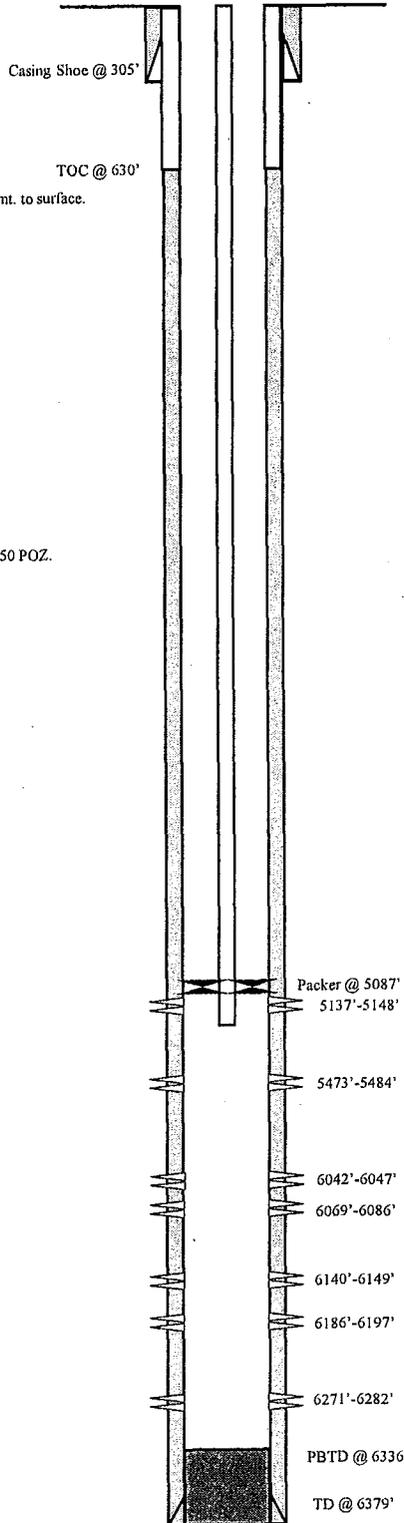
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (292.94')  
 DEPTH LANDED: 304.79' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 150 sxs Class "G" cmt. Estimated 6 bbls cmt. to surface.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 148 jts. (6376.52')  
 DEPTH LANDED: 6374.52' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 320 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 630'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 189 jts (6107.51')  
 TUBING ANCHOR: 6119.51' KB  
 NO. OF JOINTS: 1 jt (32.30')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 6154.61' KB  
 NO. OF JOINTS: 2 jts. (64.70')  
 TOTAL STRING LENGTH: EOT @ 6220.86' KB



### FRAC JOB

4/8/03	6140'-6282'	Frac CP2, CP3, and CP4 sands as follows: 120,140# 20/40 sand in 890 bbls YF 125 fluid. Treated @ avg press of 1770 psi w/avg rate of 28.7 BPM. ISIP 1920 psi. Calc flush: 6138 gal. Actual flush: 6109 gal.
4/8/03	6042'-6086'	Frac CP .5 and CP1 sands as follows: 60,058# 20/40 sand in 505 bbls YF 125 fluid. Treated @ avg press of 2129 psi w/avg rate of 19.4 BPM. ISIP 2070 psi. Calc flush: 6040 gal. Actual flush: 5956 gal.
4/8/03	5473'-5484'	Frac B .5 sands as follows: 30,451# 20/40 sand in 318 bbls YF 125 fluid. Treated @ avg press of 2420 psi w/avg rate of 18.5 BPM. ISIP 1890 psi. Calc flush: 5471 gal. Actual flush: 5375 gal.
4/8/03	5137'-5148'	Frac DS3 sands as follows: 25,588# 20/40 sand in 293 bbls YF 125 fluid. Treated @ avg press of 1659 psi w/avg rate of 22 BPM. ISIP 2120 psi. Calc flush: 5135 gal. Actual flush: 5046 gal.

### PERFORATION RECORD

4/4/03	6271'-6282'	4 JSPF	44 holes
4/4/03	6186'-6197'	4 JSPF	44 holes
4/4/03	6140'-6149'	4 JSPF	36 holes
4/8/03	6069'-6086'	4 JSPF	68 holes
4/8/03	6042'-6047'	4 JSPF	20 holes
4/8/03	5473'-5484'	4 JSPF	44 holes
4/8/03	5137'-5148'	4 JSPF	44 holes

**NEWFIELD**

Canvasback #16-22-8-17  
 624' FSL & 465' FEL  
 SE/SE Section 22-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-32241; Lease #UTU-77233

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-77233
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> CANVASBACK 16-22-8-17
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013322410000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0624 FSL 0465 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 22 Township: 08.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/24/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The subject well has been converted from a producing oil well to an injection well on 04/16/2012. On 04/17/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 04/24/2012 the casing was pressured up to 1550 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20855-09479

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
May 07, 2012**

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/26/2012	

## Mechanical Integrity Test Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: \_\_\_\_\_ Date: 4/24/2012  
 Test conducted by: Cody Mark  
 Others present: \_\_\_\_\_

UT 20855-09479

Well Name: <u>Canvasback 16-22-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>SE/SE</u> Sec: <u>22</u> T <u>8</u> N/S <u>R 17 E</u> /W County: <u>Duchesne</u> State: <u>Ut.</u>		
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: 1550 psig

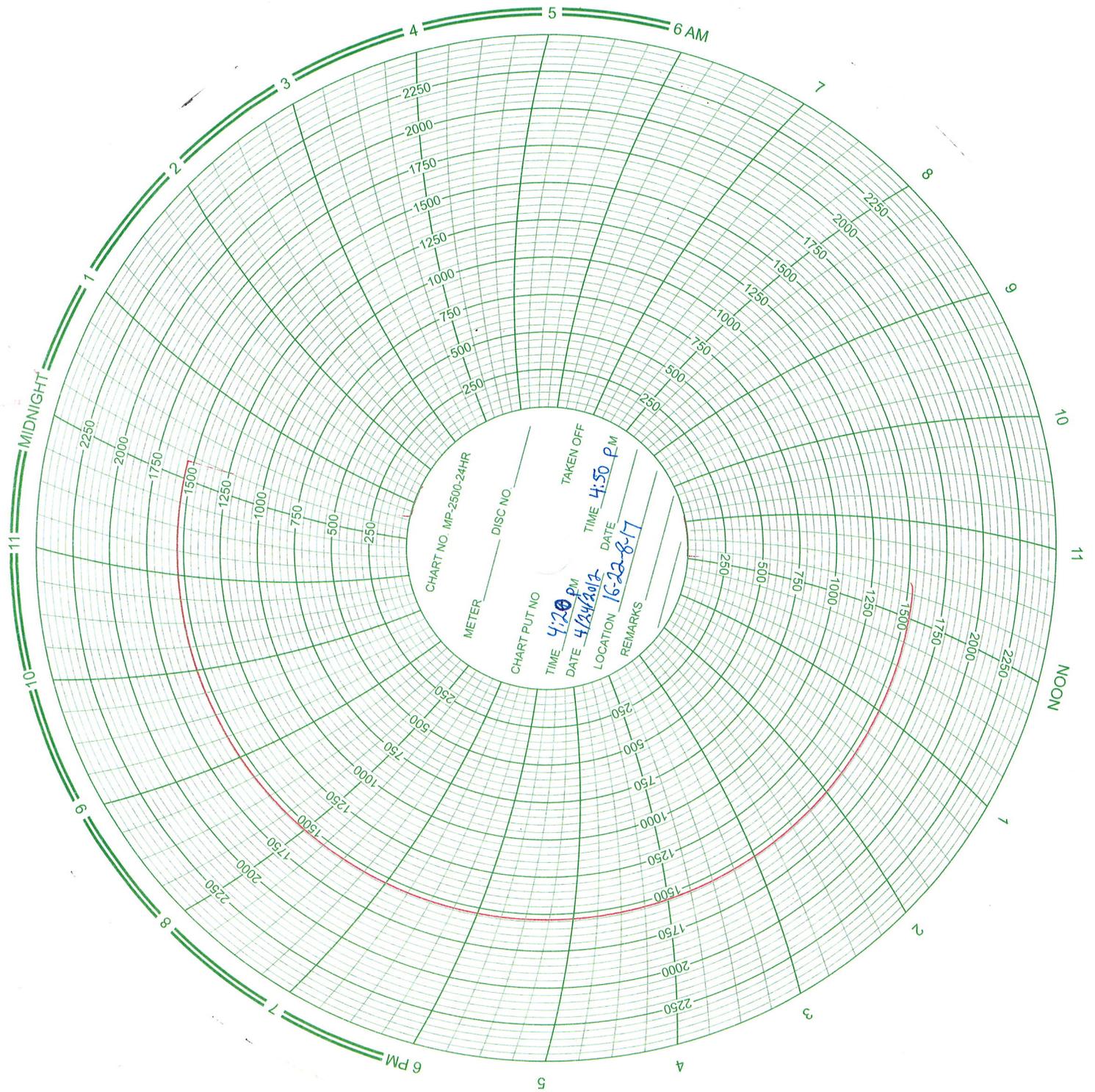
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	0 psig	psig	psig
End of test pressure	0 psig	psig	psig
<b>CASING/TUBING ANNULUS PRESSURE</b>			
0 minutes	1550 psig	psig	psig
5 minutes	1550 psig	psig	psig
10 minutes	1550 psig	psig	psig
15 minutes	1550 psig	psig	psig
20 minutes	1550 psig	psig	psig
25 minutes	1550 psig	psig	psig
30 minutes	1550 psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

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

### MECHANICAL INTEGRITY PRESSURE TEST

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

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



## Daily Activity Report

Format For Sundry

**CANVASBACK 16-22-8-17**

**2/1/2012 To 6/30/2012**

**4/12/2012 Day: 1**

**Conversion**

NC #3 on 4/12/2012 - MIRUSU, TOH w/ rods - Road rig to location. MIRUSU. Pump 60 bbls water down csg @ 250. RD pumping unit. Unseat rod pump. Flusk tbg & rods w/ 40 bbls water @ 250. Soft seat rods. Pressure test tbg to 3000 psi w/ 10 bbls water. Good test. TOH w/ 99-3/4 guided rod. Flush tbg & rods w/ 20 bbls water @ 250. Cont TOH w/ 100- 3/4 slick rods. SDFD. - Road rig to location. MIRUSU. Pump 60 bbls water down csg @ 250. RD pumping unit. Unseat rod pump. Flusk tbg & rods w/ 40 bbls water @ 250. Soft seat rods. Pressure test tbg to 3000 psi w/ 10 bbls water. Good test. TOH w/ 99-3/4 guided rod. Flush tbg & rods w/ 20 bbls water @ 250. Cont TOH w/ 100- 3/4 slick rods. SDFD. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$9,860

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**4/13/2012 Day: 2**

**Conversion**

NC #3 on 4/13/2012 - Cont. TOH w/ rods, NU bops - Flush tbg & rods w/ 20 bbls water @ 250. Cont to TOH w/ 20- 3/4 guided, 6- 1 1/2 wt bars, pump. ND wellhead. Unset TA. NU bops. RU rig floor. TOH w/ 80 jts 2 7/8. Flush tbg w/ 20 bbls water @ 250. Cont TOH Breaking collars, inspecting pins, @ applying liquid o-ring w/ 157 2 7/8 tbg. LD 35- jts 2 7/8 jts on trailer. SDFD. - Flush tbg & rods w/ 20 bbls water @ 250. Cont to TOH w/ 20- 3/4 guided, 6- 1 1/2 wt bars, pump. ND wellhead. Unset TA. NU bops. RU rig floor. TOH w/ 80 jts 2 7/8. Flush tbg w/ 20 bbls water @ 250. Cont TOH Breaking collars, inspecting pins, @ applying liquid o-ring w/ 157 2 7/8 tbg. LD 35- jts 2 7/8 jts on trailer. SDFD. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$40,503

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**4/16/2012 Day: 3**

**Conversion**

NC #3 on 4/16/2012 - TIH w/ tbg & packer, pressure test tbg. - TIH w/ packer, sn, 157 jts 2 7/8 tbg. Pump 10 bbls for STD valve pad. Pressure test tbg w/ 35 bbls water to 3000 psi. Pressure test held for 30 min. Good test. RIH w/ sandline to retrieve STD valve. RD rig floor. ND bops. Nu wellhead flange. Pump 50 bbls fresh water w/ packer fluid down csg. ND wellhead. Set packer @ 5102.34' w/ 15000 tension. NU conversion wellhead tree. Pressure test csg @ 1500 psi. Held for 1 hour. Good test. RDMOSU. - TIH w/ packer, sn, 157 jts 2 7/8 tbg. Pump 10 bbls for STD valve pad. Pressure test tbg w/ 35 bbls water to 3000 psi. Pressure test held for 30 min. Good test. RIH w/ sandline to retrieve STD valve. RD rig floor. ND bops. Nu wellhead flange. Pump 50 bbls fresh water w/ packer fluid down csg. ND wellhead. Set packer @ 5102.34' w/ 15000 tension. NU conversion wellhead tree. Pressure test csg @ 1500 psi. Held for 1 hour. Good test. RDMOSU.

**Daily Cost:** \$0

**Cumulative Cost:** \$47,810

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**4/25/2012 Day: 4**

**Conversion**

Rigless on 4/25/2012 - Conduct initial MIT - On 04/17/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 04/24/2012 the casing was pressured up to 1550 psig and charted for 30 minutes with no pressure loss. The well was not

injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20855-09479 - On 04/17/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 04/24/2012 the casing was pressured up to 1550 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20855-09479 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$73,130

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**Pertinent Files: [Go to File List](#)**

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-77233
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Water Injection Well		<b>8. WELL NAME and NUMBER:</b> CANVASBACK 16-22-8-17
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>9. API NUMBER:</b> 43013322410000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0624 FSL 0465 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 22 Township: 08.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/25/2012  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input checked="" type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="PUT ON INJECTION"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
The above reference well was put on injection at 10:30 AM on 05/25/2012. EPA # UT20855-09479		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 25, 2012</b>		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A		<b>DATE</b> 5/25/2012



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

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

MAY 14 2012

Ref: 8P-W-UIC

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

RECEIVED

MAY 23 2012

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

DIV. OF OIL, GAS & MINING

Accepted by the  
Utah Division of  
Oil, Gas and Mining

FOR RECORD ONLY

RE: Underground Injection Control  
Authorization to Commence Injection  
EPA UIC Permit UT20855-09479  
Well: Canvasback 16-22-8-17  
SESE Sec. 22-T8S-R17E  
Duchesne County, Utah  
API No.: 43-013-32241

Dear Mr. Durfey:

The U.S. Environmental Protection Agency Region 8 has received Newfield Production Company's (Newfield) April 19, 2012, letter with enclosures. The enclosed Part I (internal) Mechanical Integrity test, Well Rework Record (EPA Form 7520-12), schematic diagram and calculated pore pressure were reviewed and approved by the EPA, satisfactorily completing all Prior to Commencing Injection Requirements for UIC Permit UT20855-09479.

As of the date of this letter, Newfield is authorized to commence injection into the Canvasback 16-22-8-17 well at a Maximum Allowable Injection Pressure (MAIP) of 1,420 psig. You may apply for a higher MAIP at a later date. Your application should be accompanied by the interpreted results of a step rate test that measures the fracture parting pressure and calculates the fracture gradient at this depth and location. Newfield must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

As of this approval, responsibility for permit compliance and enforcement is transferred to the EPA's UIC Technical Enforcement Program. Therefore, please direct all monitoring and compliance correspondence to Sarah Roberts at the following address, referencing the well name and UIC Permit number on all correspondence:

43-013-32241  
16-22-8-17  
SESE Sec. 22-T8S-R17E

Ms. Sarah Roberts  
U.S. EPA Region 8: 8ENF-UFO  
1595 Wynkoop Street  
Denver, Colorado 80202-1129

You may reach Ms. Roberts by telephone at (303) 312-6211 or (800) 227-8927, extension 312-6211.

Please remember that it is your responsibility to be aware of, and to comply with, all conditions of injection well Permit UT20855-09479.

If you have questions regarding the above action, please call Emmett Schmitz at (303) 312-6174 or (800) 227-8917, extension 312-6174.

Sincerely,



for Callie A. Videtich  
Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:

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

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

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

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

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst  
Newfield Production Company



*Printed on Recycled Paper*

**NEWFIELD**



**Schematic**

43-013-32241

Well Name: Canvasback 16-22-8-17

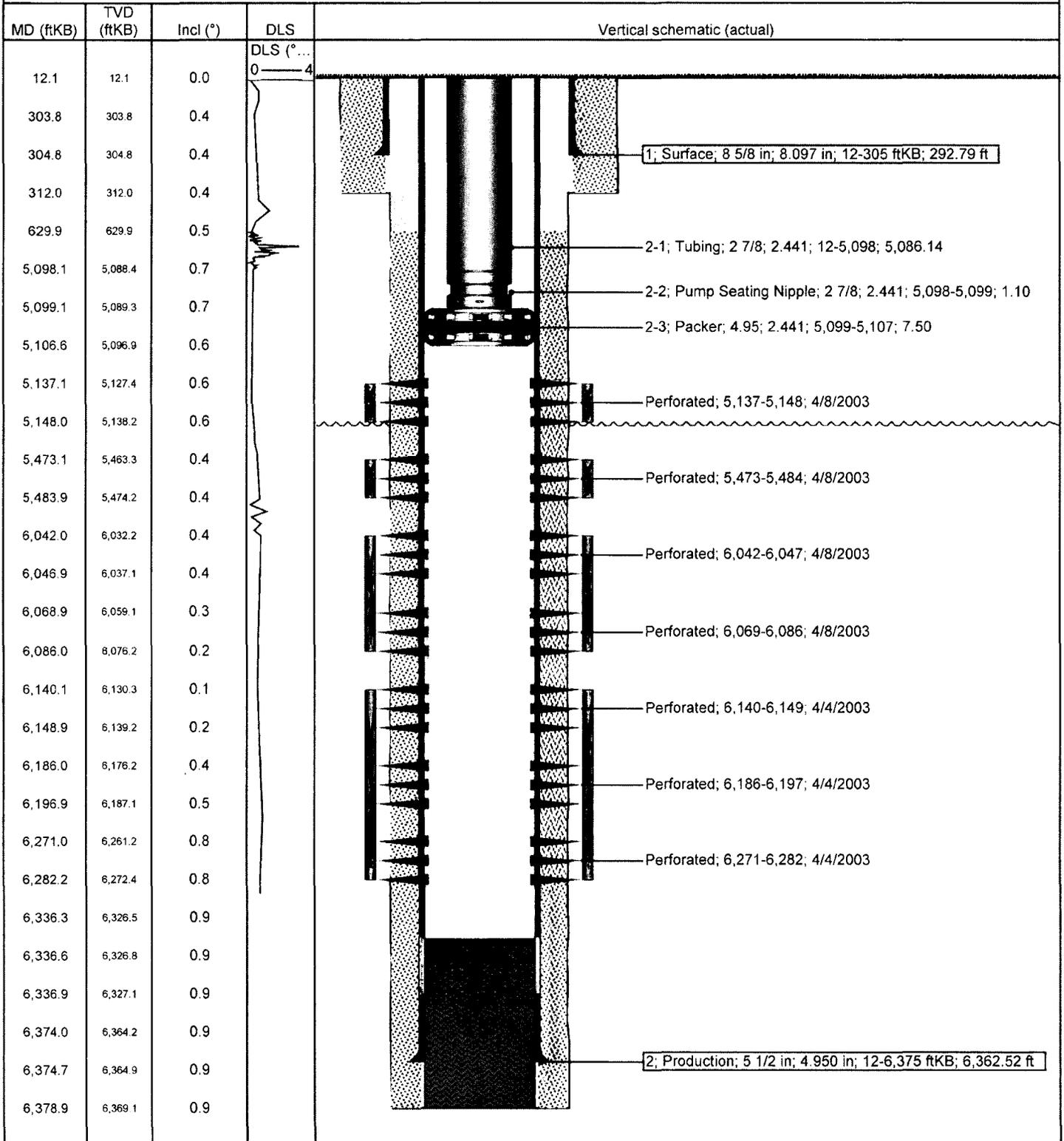
Surface Legal Location 22-8S-17E			API/UWI 43013322410000	Well RC 500151546	Lease	State/Province Utah	Field Name GMBU CTB7	County DUCHESNE
Spud Date	Rig Release Date	On Production Date 4/11/2003	Original KB Elevation (ft) 5,171	Ground Elevation (ft) 5,159	Total Depth All (TVD) (ftKB)		PBTD (All) (ftKB) Original Hole - 6,336.5	

**Most Recent Job**

Job Category Production / Workover	Primary Job Type Conversion	Secondary Job Type Basic	Job Start Date 4/12/2012	Job End Date 4/24/2012
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TD: 6,379.0

Vertical - Original Hole, 3/4/2016 10:19:54 AM





## Newfield Wellbore Diagram Data Canvasback 16-22-8-17

Surface Legal Location 22-8S-17E		API/UWI 43013322410000		Lease	
County DUCHESNE		State/Province Utah		Basin	
Well Start Date 3/21/2003		Spud Date		Final Rig Release Date	
Original KB Elevation (ft) 5,171		Ground Elevation (ft) 5,159		Total Depth (ftKB) 6,379.0	
				Total Depth All (TVD) (ftKB)	
				PBTD (All) (ftKB) Original Hole - 6,336.5	

### Casing Strings

Csg Des	Run Date	OD (in)	ID (in)	W/Len (lb/ft)	Grade	Set Depth (ftKB)
Surface	3/21/2003	8 5/8	8.097	24.00	J-55	305
Production	3/30/2003	5 1/2	4.950	15.50	J-55	6,375

### Cement

#### String: Surface, 305ftKB 3/22/2003

Cementing Company BJ Services Company		Top Depth (ftKB) 12.0	Bottom Depth (ftKB) 312.0	Full Return?	Vol Cement Ret (bb)
Fluid Description Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield		Fluid Type Lead	Amount (sacks) 150	Class G	Estimated Top (ftKB) 12.0

#### String: Production, 6,375ftKB 3/30/2003

Cementing Company BJ Services Company		Top Depth (ftKB) 630.0	Bottom Depth (ftKB) 6,379.0	Full Return?	Vol Cement Ret (bb)
Fluid Description Premiite II w/ 10% gel + 3% KCL, 3#s/sk CSE + 2# sk/kolseal + 1/4#s/sk Cello Flake mixed @ 11.0 ppg W / 3.43 cf/sk yield		Fluid Type Lead	Amount (sacks) 320	Class Premium Plus	Estimated Top (ftKB) 630.0
Fluid Description 50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD		Fluid Type Tail	Amount (sacks) 400	Class 50/50 POZ	Estimated Top (ftKB) 3,504.5

### Tubing Strings

Tubing Description Tubing				Run Date 4/16/2012	Set Depth (ftKB) 5,106.7			
Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Blm (ftKB)
Tubing	157	2 7/8	2.441	6.40	J-55	5,086.14	12.0	5,098.1
Pump Seating Nipple	1	2 7/8	2.441			1.10	5,098.1	5,099.2
Packer	1	4.95	2.441			7.50	5,099.2	5,106.7

### Rod Strings

Rod Description				Run Date	Set Depth (ftKB)		
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Blm (ftKB)

### Perforation Intervals

Stage#	Zone	Top (ftKB)	Blm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Nom Hole Dia (in)	Date
4	DS3, Original Hole	5,137	5,148	4	90		4/8/2003
3	B.5, Original Hole	5,473	5,484	4	90		4/8/2003
2	CP.5/CP1, Original Hole	6,042	6,047	4	90		4/8/2003
2	CP.5/CP1, Original Hole	6,069	6,086	4	90		4/8/2003
1	CP2/CP3/CP4, Original Hole	6,140	6,149	4	90		4/4/2003
1	CP2/CP3/CP4, Original Hole	6,186	6,197	4	90		4/4/2003
1	CP2/CP3/CP4, Original Hole	6,271	6,282	4	90		4/4/2003

### Stimulations & Treatments

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbf/min)	Max PSI (psi)	Total Clean Vol (bbf)	Total Slurry Vol (bbf)	Vol Recov (bbf)
1	1,920	0.74	32.7	2,464			
2	2,070	0.78	20.9	2,604			
3	1,890	0.78	20.7	3,116			
4	2,120	0.85	26.9	2,282			

### Proppant

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		Proppant Bulk Sand 120140 lb
2		Proppant Bulk Sand 60058 lb
3		Proppant Bulk Sand 30451 lb
4		Proppant Bulk Sand 25588 lb