

Submit In Quadruplicate To:

**MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102**

SUNDRY NOTICES AND REPORT OF WELLS

Operator **Denbury Onshore, LLC**
Address **5320 Legacy Drive**
City **Plano** State **TX** Zip Code **75024**
Telephone Number **(972) 673-2000** Fax Number ()

Lease Name: **NPRR G (NCT-5)**
Lease Type (Private/State/Federal):
Private
Well Number: **1**

Location of Well (1/4-1/4 section and footage measurements):
SW-SW 660' FSL & 660' FWL, Section 25, T15N-R54E

Unit Agreement Name:
N/A
Field Name or Wildcat:
Glendive Field
Section, Township, and Range:
Sec 25, T15N - R54E
County:
Dawson County, MT

If directionally or horizontally drilled, show both surface and bottom hole locations)

API Number: **25** **021** **05086**
State County Well
Well Type (oil, gas, injection, other):
Oil

Indicate below with an X the nature of this notice, report, or other data:

- | | | | |
|---|-------------------------------------|--|--------------------------|
| Notice of Intention to Change plans | <input type="checkbox"/> | Subsequent Report of Mechanical Integrity Test | <input type="checkbox"/> |
| Notice of Intention to Run Mechanical Integrity Test | <input checked="" type="checkbox"/> | Subsequent Report of Stimulation or Chemical Treatment | <input type="checkbox"/> |
| Notice of Intention to Stimulate or to Chemically Treat | <input checked="" type="checkbox"/> | Subsequent Report of Perforation or Cementing | <input type="checkbox"/> |
| Notice of Intention to Perforate or to Cement | <input checked="" type="checkbox"/> | Subsequent Report of Well Abandonment | <input type="checkbox"/> |
| Notice of Intention to Abandon Well | <input type="checkbox"/> | Subsequent Report of Pulled or Altered Casing | <input type="checkbox"/> |
| Notice of Intention to Pull or Alter Casing | <input type="checkbox"/> | Subsequent Report of Drilling Waste Disposal | <input type="checkbox"/> |
| Notice of Intention to Change Well Status | <input checked="" type="checkbox"/> | Subsequent Report of Production Waste Disposal | <input type="checkbox"/> |
| Supplemental Well History | <input type="checkbox"/> | Subsequent Report of Change in Well Status | <input type="checkbox"/> |
| Other (specify) <u>Convert to Salt Water Disposal</u> | <input checked="" type="checkbox"/> | Subsequent Report of Gas Analysis (ARM 36.22.1222) | <input type="checkbox"/> |
| | <input type="checkbox"/> | | <input type="checkbox"/> |

Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Denbury requests approval to convert the subject wellbore from Producer to SWD in the Mission Canyon-Lodgepole formation. Please see supporting documents for additional information. Public Notice has been submitted to the Glendive Ranger Review and Helena Independent Record for immediate publication.

RECEIVED

JAN 10 2018

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

BOARD USE ONLY

Approved _____
Date

Name Title

The undersigned hereby certifies that the information contained on this application is true and correct:

1/8/2018

Date

Naomi Johnson
Signed (Agent)

Naomi Johnson - Regulatory Compliance Specialist

Print Name & Title

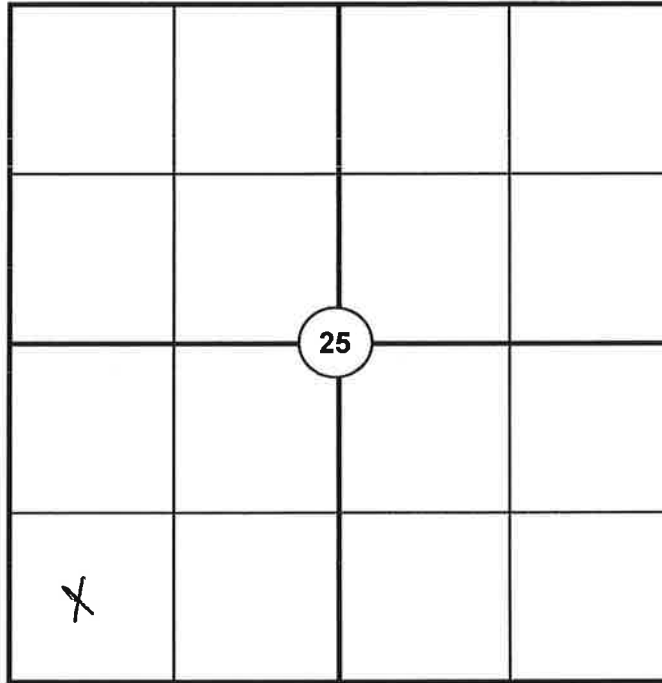
SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.

Range 54E

Township 15N



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.



Convert to SWD Procedure

NCT 5-1 ST

API#: 2502105086, Sec 25 – T15N - R54E

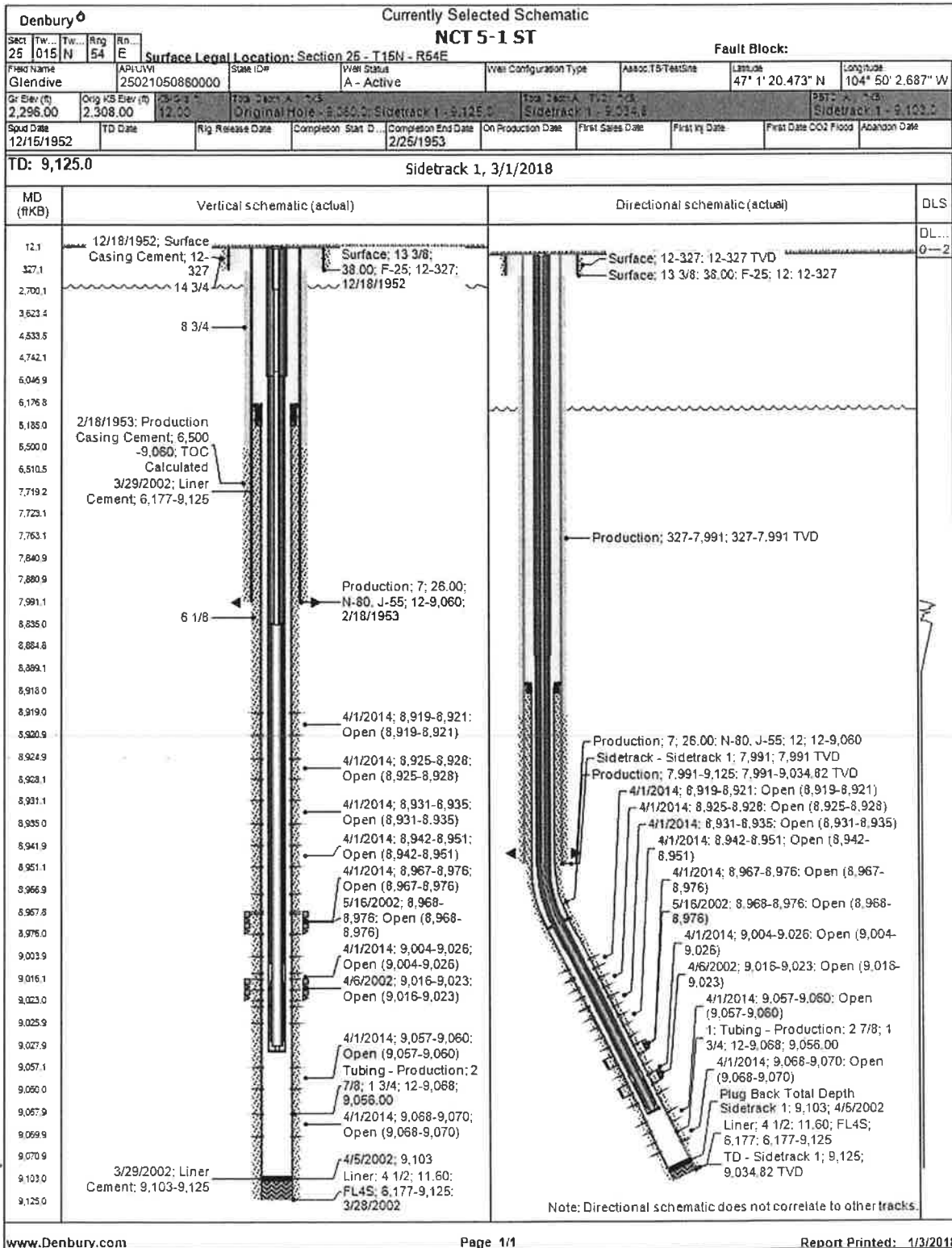
Dawson County, MONTANA

OBJECTIVE OF OPERATION:

- TA Red River
 - Complete as Mission Canyon Salt Water Disposal
-

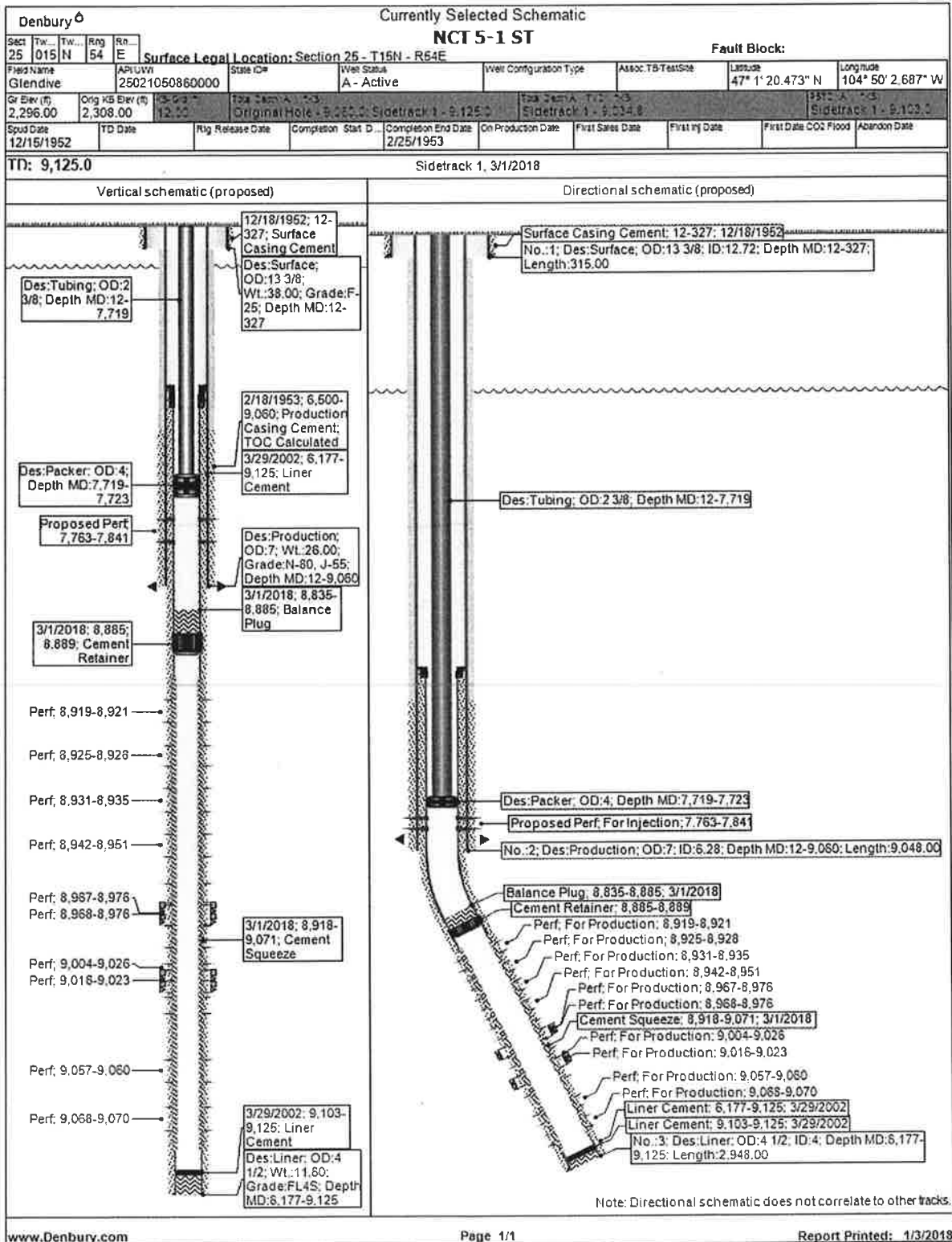
Procedure:

1. **NOTE: Check local Well File before beginning job. Check location and anchors.**
2. MIRU workover rig. Check well pressures. Remove horses head.
3. POOH and LD rods and pump.
4. NU BOP. Test BOPs as per Denbury standards.
5. Release anchor, POOH and lay down 2-7/8" tubing.
6. PU bit and scrapper, Clean out to PBTD of $\pm 9,103'$. Circulate hole clean, TOOH.
7. TIH w/CICR on workstring, set CICR @8,889' (30' above top perf). Establish injection rate and pressure. If perforations are plugged off alter the next step to spotting 200' balanced plug to isolate the Red River. Test csg to 800# (report any leaks and remediate)
8. MIRU Cementing Unit. Lay and test lines. Mix and pump 100 sx of cement to squeeze the Red River Interval. Sting out of retainer and leave 5 sx on top of CICR. Circulate hole clean. TOOH 5 stands. WOC. RDMO Cementers.
9. TIH to tag cement before TOOH.
10. MIRU Wireline to perforate Mission Canyon from 7763'-7841' (78' total) at 4 spf, 90° Phasing (charges/exact perf depths TBD).
11. RIH with test packer and workstring. Set packer @ $\pm 7,723$ (~40' above new perfs) and establish injection rate. Stimulate well if necessary with acid and bio balls. Flow back load if well will flow.
12. POOH and lay down packer and work string.
13. PU retrievable packer and 2-7/8" coated tubing (IPC) with packer @ $\pm 7,723'$. Hydro test tubing while TIH.
14. Circulate packer fluid. Set packer @ $\pm 7,723'$. Land tubing, ND BOP, NU Wellhead. Pressure test to 800#.
15. RD MO WO rig. Clean location.
16. MIT well once permit is issued.
17. Put well on injection once state has approved.





Proposed Schematic



**MONTANA BOARD OF OIL AND GAS CONSERVATION
UNDERGROUND INJECTION CONTROL PERMIT APPLICATION**

Denbury Onshore, LLC
Well No. NCT 5-1
Glendive Field
Section 25, T15N-R54E
Dawson, Montana

Area of Review

The area of review (AOR) is a fixed radius of ¼ mile from the well bore of the subject well. The area of review is shown on the attached map.

Notification of Surface Owner(s)

Surface owners holding properties within the prescribed AOR were notified of Denbury's intent to apply for a permit to commence water injection into the subject well bore. Notification by registered mail was sent to the following surface owner(s):

Michael R. & Joni M. Garpestad
421 Road 248
Glendive, MT 59330-9506

Whoop Creek Co.
421 Road 248
Glendive, MT 59330-9506

Attached is a copy of the letters sent to surface owners, giving notice of our intent to apply for this injection permit.

Public Notification

Notice of intent to apply for a permit to inject water into the subject well has also been posted in the following newspapers for public inspection.

Helena Independent Record
Attn: Billie Jo Williams
P.O. Box 4249
Helena, Montana 59604-4249

Glendive Ranger Review
Attn:
P.O. Box 61
Glendive, Montana 59330

Also attached is a copy of the legal notice submitted to the newspapers which provided the public with knowledge of our intent to apply for an injection permit.

Fresh Water Sources (Surface & USDW) within the AOR

There are two freshwater wells located within a ½ mile radius of the subject well. A search of the Montana Ground Water Information Center database identified them as GWIC 27733 and GWIC 231796. Please see attachments.

No known surface or underground sources of drinking water will be affected by salt water injection into the subject well.

Existing Well Bores within the AOR

There are two existing wellbores that fall within the ¼ mile radius of the NCT 5-1. Down hole schematics for these well bores are attached.

Lloyd 44X-26 (25-021-21114) is a producer in the Siluro-Ordovician unit.

State D6H (25-021-21117) is an active SWD well.

Corrective Action Proposal

No corrective action is deemed necessary for the subject well or other existing wells contained within the ¼ mile AOR.

Formation Tops

<u>Formation</u>	<u>MD (ft)*</u>
Charles	6835'
Devonian	8378'
Interlake	8452'
Stony Mountain	8693'
Red River	8833'

*KB Elevation 2308'

Injection Pressures (Minnelusa)

Surface fracture Pressure = [Fracture Gradient x Depth to Perforations] –
[S.G. of Injected Fluids x 0.433 psi/ft x Depth to
Perforations] + Tubing Friction (assumed Negligible)

Depth to top perforation = 7338'

S.G. of Injection Fluid = Approximately 1.020 (see representative water analysis)

Fracture Gradient = Approximately 0.8 psi/ft

$$\begin{aligned}\text{Surface Fracture Pressure} &= [0.8 \text{ psi/ft} \times 7338'] - [1.020 \times 0.433 \text{ psi/ft} \times 7338'] \\ &= 5870 \text{ psi} - 3241 \text{ psi} \\ &= 2629 \text{ psi}\end{aligned}$$

Operating Data

Actual operating conditions will be limited to a pressure not exceeding fracture pressure or pressure that causes fluid to go out of zone. Based on attached calculations, we request a permit for a limiting surface pressure of 2629 psi, the fracture pressure at the Mission Canyon top perforation.

The annular space between the tubing and casing will be filled with fresh water treated with a corrosion inhibitor, a scale inhibitor and an oxygen scavenger as outlined in the construction procedures.

Injected fluids into the subject well will be field salt-water from the Glendive Unit. A representative analysis of the injectate is attached.

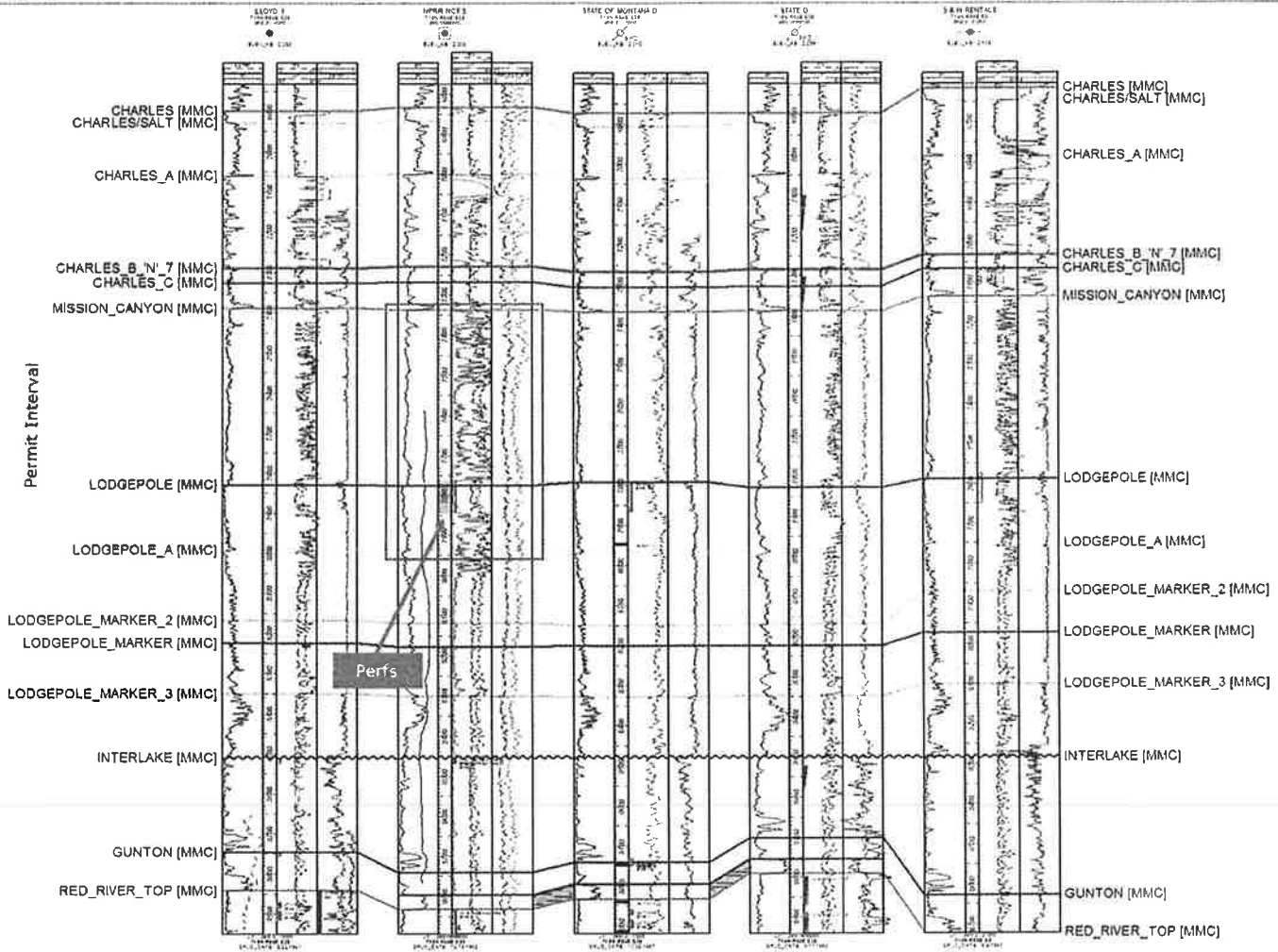
Conversion Procedures

The NCT 5-1 is currently a producer in the Red River formation. Denbury desires approval to perform conversion operations on the subject well in advance of salt water disposal approval. Work on the well would proceed, however injection would not commence until official approval is received from the Board. Contract personnel, working according to Denbury's plan, specifications, and safety practices may be employed to perform some or all of the actual onsite conversion operations.

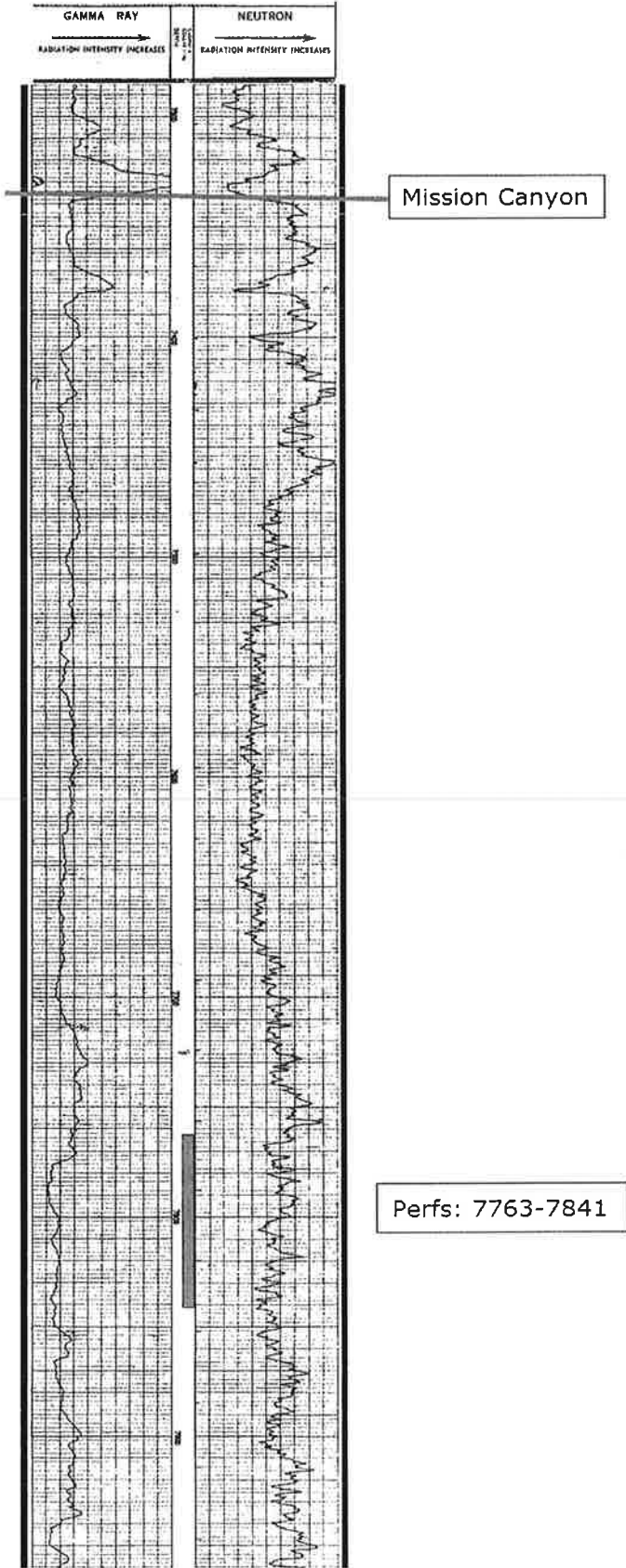
Aquifer Exemption

An Aquifer Exemption will not be required.

NPRR G (NCT-5) 1 – Mission Canyon-Lodgepole SWD



NPRR NCT 5
T15N R54E S25
25021050860000



25

32X-26R

25-12

43-26
Ø_{SWD}

2

34X-26

44X-26

NCT 5

4-26
Ø_{SWD}

6H
Ø_{SWD}

3
Ø

1-1

Denbury

Glendive

NCT 5 #1 ST
T15N R54E S25
1/4 Mile Radius



POSTED WELL DATA
Well Label



January 3, 2018

1X
Ø_{SWD}
Ø_{SWD}

D #5

36

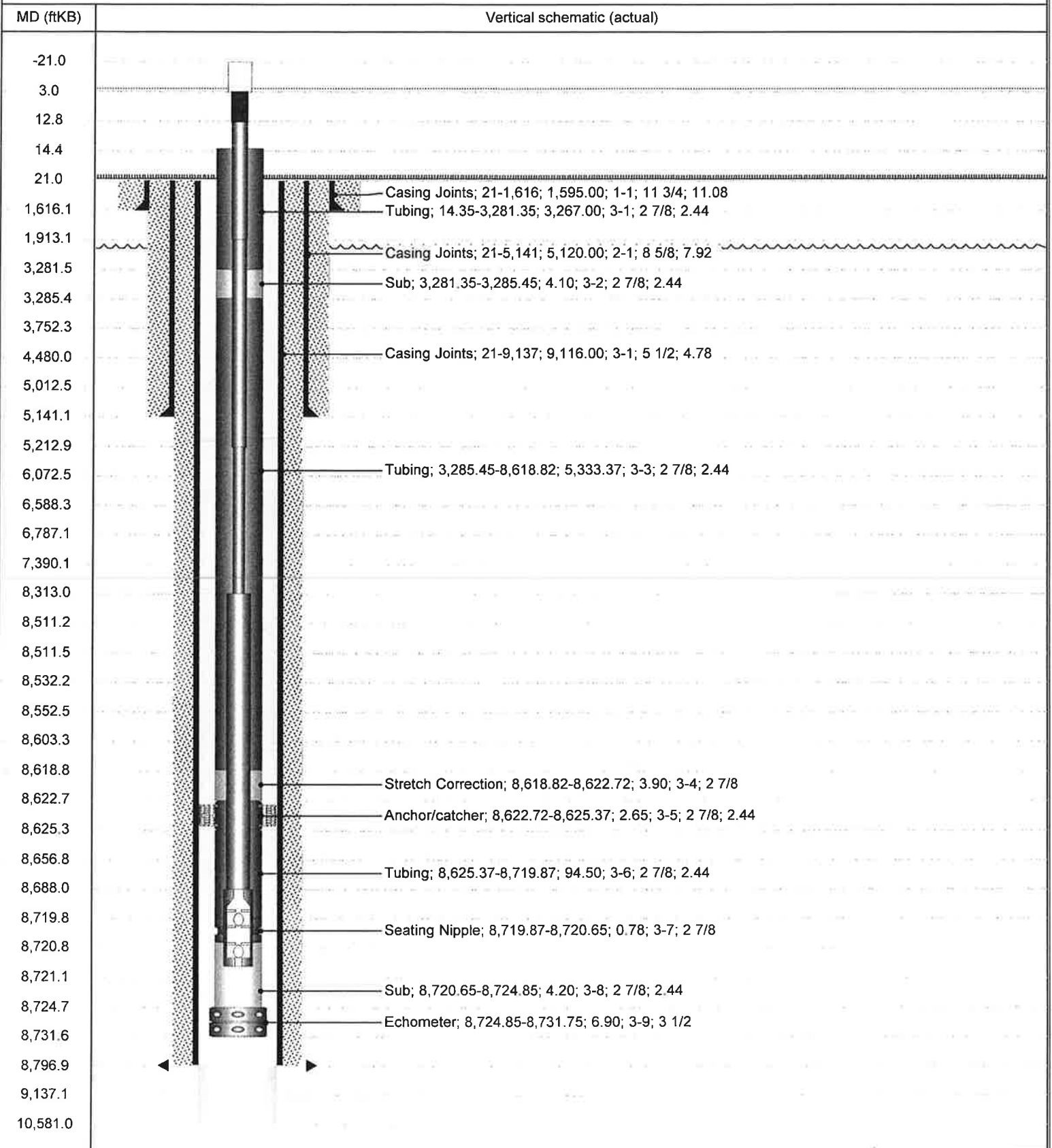
Lloyd E R #44X-26 ST

Fault Block:

Sect 26	Tw... 015	Tw... N	Rng 54	Rn... E	Surface Legal Location: Section 26 - T15N - R54E				Latitude 47° 1' 22.849" N			Longitude 104° 50' 20.148" W							
Field Name Glendive		API/UWI 25021211140000		State ID#		Well Status A - Active		Well Configuration Type		Assoc TB/Test Site		Longitude							
Gr Elev (ft) 2,340.00		Orig KB Elev (ft) 2,361.00		KB-Grd (ft) 21.00		Total Depth (All) (ftKB) Original Hole - 8,137.0; Sidetrack 3 - 10,581.0; Sidetrack 1 - 9,186.0; Sidetrack 2 - 8,913.9; Sidetrack 1 - 8,980.0; Sidetrack 2 - 8,985.3				PBD (All) (ftKB)									
Spud Date 7/19/2003		TD Date		Rig Release Date		Completion Start D.		Completion End Date		On Production Date		First Sales Date		First Inj Date		First Date CO2 Flood		Abandon Date	

TD: 10,581.00

Sidetrack 3, 1/8/2018 9:58:15 AM



LOCATE WELLS CORRECTLY

(SUBMIT IN TRIPLICATE)

TO
**BOARD OF OIL AND GAS CONSERVATION
 OF THE STATE OF MONTANA**
 2535 ST. JOHNS AVENUE BILLINGS, MONTANA 59102



COMPLETION REPORT

Company Cortez Operating Company Lease Lloyd Well No. 44X-26

Address 2745 N. Dallas Pkwy; Ste 220, Plano, TX 75093 Field (or Area) Gas City Glendale

The well is located 895 ft. from S line and 552 ft. from E line of Sec. 26
N or S E or W

Sec. 26 : T. 15N R. 54E County Dawson ; Elevation 2358 KB
(D.F., R.B. or G.L.)

Commenced drilling July 19, 2003 ; Completed August 10, 2003

Write the API# or the well name of another well on this lease if one exists na

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as Oil Well Signed J. A. Sch
(oil well, gas well, dry hole, cbm, injection)

API# 25 - 021-21114 Title Area Engineer

Bottomhole Location(s): 15N Date September 23, 2003

1st lateral 1002' FSL & 705' FEL (SESE) Sec 26 14N 54E

2nd lateral 1289' FSL & 926' FEL (SESE) Sec 26 14N 54E

3rd lateral 2054' FEL & 1300' FEL (NESE) Sec 26 14N 54E

z FSL 1800

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W: state formation if known)

From _____ to _____ From 8841 to Red River (O)
 From _____ to _____ From _____ to _____
 From _____ to _____ From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sack of cement	Cut And Pulled from
11 3/4"	42	H-40	STC	1616'	0	1616'	870	N/A
8 5/8"	24 & 32	K-55	LTC	5141'	0	5141'	1500	N/A
5 1/2"	15.5, 17, 20	K-55, P110	LTC	9137'	0	9137'	1825	N/A

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
2 7/8	6.5	J-55	EUE	8851	N/A

COMPLETION RECORD

Rotary tools were used from 0 to 43447 10531

Cable tools were used from N/A to 8918 10531

Total depth 9256 TVD-13447M ft.; Plugged back to _____ T.D.; Open hole from -9565 to 13,447

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval		Number and Size and Type	Interval		Amount of Material Used	Pressure
From	To		From	To		
8,918	9189	open- hole lateral				
8,918	9532	open- hole lateral	8918	9532	300 gals HCL	0
8,918	10,581	open- hole lateral				

(if P&A show plugs above)

INITIAL PRODUCTION

Well is producing from Red River (pool) formation.

I.P. 323 barrels of oil per 24 hours pumping
(Pumping or flowing)

78 MCF of gas per 24 hours.

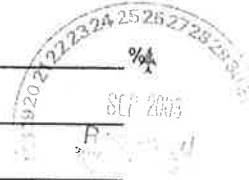
300 barrels of water per 24 hours, or 48 % W.C.

Initial 10-day average production n/a (bbl./day) (if taken)
 Pressures (if measured): Tubing pumping psi flowing; 0 psi shut-in
 Casing 0 psi flowing; 0 psi shut-in
 Gravity 39.5 ° API (corrected to 60°F.)

Formation Volume Factor _____ Porosity _____ % Average Connate water _____ %

Type of trap _____

Producing mechanism partial water drive



DRILL STEM TESTS

D.S.T. No.	From	To	Tool Open (Min.)	Shut-in	F.P.	S.I.P.	Recovery	Cushion
							NO TESTS	

CORES

No.	Interval	Recovered
	<u>N/A</u>	

LOG RUNS

Type	From	To
<u>N/A</u>		

**FORMATION RECORD
(ELECTRIC LOG TOPS)**

From	To	FORMATION	Top of Formation
<u>3,061</u>		<u>Greenhorn</u>	
<u>3,940</u>		<u>Newcastle</u>	
<u>6,597</u>		<u>Dakota</u>	
<u>8,511</u>		<u>Charles A</u>	
<u>8,703</u>		<u>Silurian</u>	
<u>8,841</u>		<u>Stony Mountain</u>	
		<u>Red River</u>	
		 <u>Well completed thru three (3) open hole laterals in the Red River.</u> 	

(Use additional sheets where needed to complete description)

State #D6H ST SWD

Fault Block:

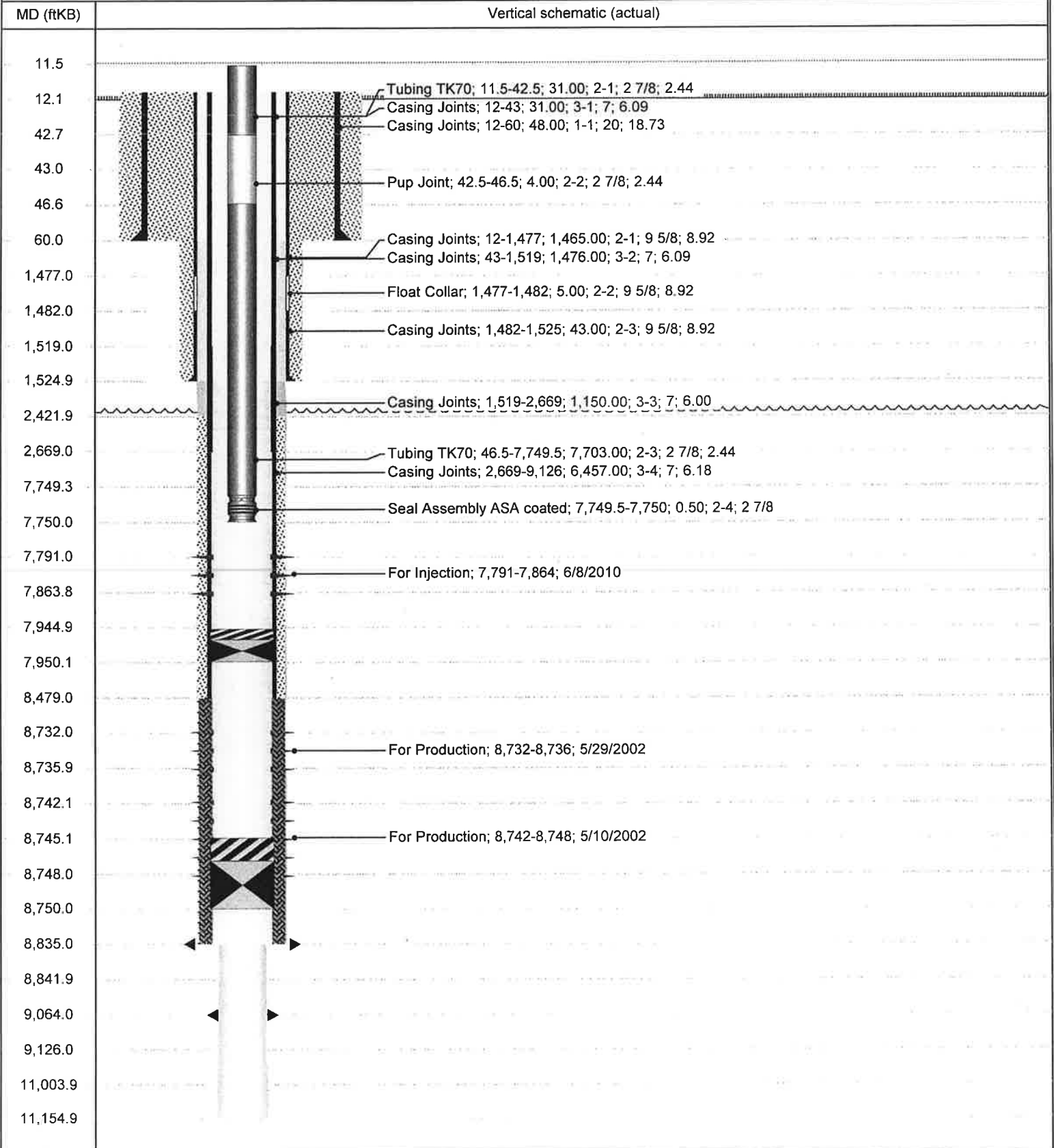
Sect 36	Tw... 15	Tw... N	Rng 54	Rn... E
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Surface Legal Location: Section 36 - T15N - R54E

Field Name Glendive	API/UJM 25021211170000	State ID#	Well Status A - Active	Well Configuration Type	Assoc.TB/TestSite	Latitude 47° 1' 7.513" N	Longitude 104° 50' 2.903" W		
Gr Elev (ft) 2,301.00	Orig KB Elev (ft) 2,313.00	KB-Grd (ft) 12.00	Total Depth (MT) (ftKB) Original Hole - 9,126.0; Leg 1 - 11,004.0; Sidetrack 2 - 11,155.0; Sidetrack 1 - 11,155.0	Total Depth All (TVD) (ftKB) Leg 1 - 8,885.0; Sidetrack 2 - 8,968.8; Sidetrack 1 - 8,917.1	PBTD (ftKB)				
Spud Date	TD Date	Rig Release Date	Completion Start D...	Completion End Date	On Production Date	First Sales Date	First Inj Date	First Date CO2 Flood	Abandon Date

TD: 11,155.00

Sidetrack 2, 1/8/2018 10:11:33 AM



Form No. 4 R8/00
LOCATE WELL CORRECTLY

(SUBMIT IN TRIPLICATE)
TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
2535 ST. JOHNS AVENUE BILLINGS, MONTANA 59102



ARM 36.22.307
ARM 36.22.1011
ARM 36.22.1013
ARM 36.22.1414

COMPLETION REPORT

Company Encore Operating, L.P. Lease State D Well No. 6H

Address 777 Main Street Suite 1400 Fort Worth, TX 76102 Field (or Area) Glendive

The well is located 652 ft. from N line and 661 ft. from W line of Sec. 36
Nor S E or W

Sec. 36; T. 15N R. 54E County Dawson; Elevation 2301' GL
(D.F., R.B. or G.L.)

Commenced drilling July 20, 2004; Completed August 30, 2004

Write the API# or the well name of another well on this lease if one exists _____

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as Oil well (horiz re-entry 3 legs) Signed 
(oil well, gas well, dry hole, cbm, injection)

API# 25 - 021-21117 Title Tim Hauss - Senior Engineer

Bottomhole Location(s): _____ Date October 20, 2004

BHL Leg 1 (RRU4): 2249' FNL & 1965' FWL Sec 36-T15N-R54E, TD: 11,004' MD, 8885' TVD, open hole: 8835' to 11,004'

2552- BHL Leg 2 (RRU5): 2045' FSL & 2362' FWL Sec 36-T15N-R54E, TD: 11,626' MD, 8917' TVD, open hole: 9308' to 11,626'
FS

BHL Leg 3 (RRU6): 2376' FNL & 2041' FWL Sec 36-T15N-R54E, TD: 11,155' MD, 8967' TVD, open hole: 9064' to 11,155'
2307 2050

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W: state formation if known)

From <u>8835</u> to <u>11,004</u> O & W RR 'B'	From _____ to _____
From <u>9308</u> to <u>11,626</u> O & W RR 'B'	From _____ to _____
From <u>9064</u> to <u>11,155</u> O & W RR 'C'	From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sack of cement	Cut And Pulled from
<u>8 5/8"</u>	<u>36</u>	<u>K-55</u>	<u>8 rd LTC</u>	<u>1525</u>	<u>0</u>	<u>1525</u>	<u>600</u>	
<u>7"</u>	<u>29,32,35</u>	<u>L-80</u>	<u>LTC</u>	<u>9,126</u>	<u>0</u>	<u>9126</u>	<u>1990</u>	

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
<u>2 7/8"</u>	<u>6.5</u>	<u>L-80</u>	<u>8rd</u>	<u>8770'</u>	

COMPLETION RECORD

Rotary tools were used from _____ Surface _____ to _____ TD _____

Cable tools were used from _____ to _____

Total depth see above ft.; Plugged back to _____ T.D.; Open hole from above to above

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval From	To	Number and Size and Type	Interval		Amount of Material Used	Pressure
			From	To		
			<u>9308</u>	<u>11,626</u>	<u>2350 gal 15% HCL</u>	<u>Leg #2</u>
		<u>none - open hole</u>	<u>9064</u>	<u>11,155</u>	<u>2350 gal 15% HCL</u>	<u>Leg #3</u>

(if P&A show plugs above)

INITIAL PRODUCTION

Well is producing from Red River (pool) formation.

I.P. 0 barrels of oil per 24 hours pumping

(Pumping or flowing)

0 MCF of gas per 24 hours.

620 barrels of water per 24 hours, or 100 % W.C.

Initial 10-day average production _____ (bbl./day) (if taken)

Pressures (if measured): Tubing _____ psi flowing; _____ psi shut-in

Casing _____ psi flowing; _____ psi shut-in

Gravity _____ ° API (corrected to 60°F.)

Formation Volume Factor _____ Porosity _____ % Average Connate water _____ %

Type of trap _____

Producing mechanism Water Flood

DRILL STEM TESTS

D.S.T No.	From	To	Tool Open (Min.)	Shut-in	F.P.	S.I.P.	Recovery	Cushion
No DST's run								

CORES

No.	Interval	Recovered
		Not cored

LOG RUNS

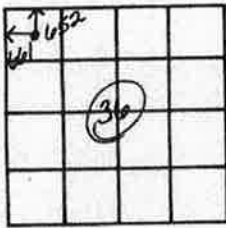
Type	From	To
Mud Log Leg 1	8835	11,004
Mud Log Leg 2	9308	11628
Mud Log Leg 3	8835	11155

**FORMATION RECORD
(ELECTRIC LOG TOPS)**

From	To	FORMATION	Top of Formation
		See previously submitted reports for historical information	



LOCATE WELL CORRECTLY



T
15
N

(SUBMIT IN TRIPLICATE)
TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY



Form No. 4

ARM 36.22.307
ARM 36.22.1011
ARM 36.22.1013

COMPLETION REPORT

R54E
Company Dufaco Inc. Lease State of Montana "D" Well No. 6

Address P.O. Box 1140 Natford City ND 58854 Field (or Area) Glendive

The well is located 652 ft. from (S) line and 661 ft. from (W) line of Sec. 36

Sec. 36; T. 15 N; R. 54E; County Dawson; Elevation 2300 GR
(D.F., R.B. or G.L.)

Commenced drilling 12:15 PM MST 10-30, 1987; Completed First oil 12-23, 1987
IP'd 2-3-88

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as oil well Signed W. H. Welch
(oil well, gas well, dry hole)

T.D. 9134' ORDOVICIAN Title Area Manager
RED RIVER TEST. [Vertical Well]

NO CORES Date 2-3-88
NO TESTS

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

From <u>8860</u> to <u>8870</u>	<u>0</u>	From _____ to _____
From <u>8886</u> to <u>8904</u>	<u>0</u>	From _____ to _____
From <u>8916</u> to <u>8972</u>	<u>0</u>	From _____ to _____
From _____ to _____		From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sack of Cement	Cut and Pulled from
<u>20" Conductor pipe</u>				<u>60'</u>	<u>Surface</u>	<u>60'</u>		
<u>9 5/8"</u>	<u>36#</u>	<u>K-55</u>	<u>8" LTR</u>	<u>1525'</u>	<u>Surface</u>	<u>1525'</u>	<u>600 SX</u>	
<u>7"</u>	<u>29.32, 35</u>	<u>L-80</u>	<u>LTR</u>	<u>9126</u>	<u>Surface</u>	<u>9126</u>	<u>1990 SX</u>	

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
<u>2 7/8"</u>	<u>6.5</u>	<u>L-80</u>	<u>EUH</u>	<u>7782</u>	<u>8860-8972</u>

COMPLETION RECORD

Rotary tools were used from Surface to 9134
Cable tools were used from _____ to _____
Total depth 9134 ft.; Plugged back to 8993 T.D.; Open hole from _____ to _____

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED		
Interval		Number and Size and Type	Interval		Amount of Material Used
From	To		From	To	
<u>8860</u>	<u>8870</u>	<u>4 JSPP</u>	<u>8860</u>	<u>8904</u>	<u>5000 gals INH NE 15% HCL</u>
<u>8886</u>	<u>8904</u>	<u>4 JSPP</u>	<u>8916</u>	<u>8972</u>	<u>1100 gals 15% INH NE HCL</u>
<u>8916</u>	<u>8972</u>	<u>4 JSPP</u>			

(If P&A show plugs above)

INITIAL PRODUCTION

Well is producing from Red River (pool) formation.
I.P. 38 barrels of oil per 24 hours Pumping
(pumping or flowing)
Trace Mcf of gas per 24 hours.
309 barrels of water per 24 hours, or 89 % W.C.
MBO+G(3) LAA WSW KJG VAM (OYB) AB Explor.

INITIAL PRODUCTION—(Continued)

Initial 10-day average production 38 (bbl./day) (if taken)
 Pressures (if measured): Tubing psi flowing; psi shut-in
 Casing psi flowing; psi shut-in
 Gravity 38.3 ° API (corrected to 60° F.)

DRILL STEM TESTS

D.S.T. No.	From	To	Tool Open (Min.)	Shut-In	F.P.	S.I.P.	Recovery	Cushion
				<i>None</i>				

CORES

No.	Interval	Recovered
	<i>None</i>	

LOG RUNS

Type	From	To
DENSLOG/NEUTRON/GR	9132	7200
DLL-MLL-GR	9132	0

FORMATION RECORD

(Need not be filled out if Geologist sample description filed with Commission)

From	To	SAMPLE AND CORE NO. AND DESCRIPTION	Top of Formation
		<i>Dakota</i>	<i>3922</i>
		<i>Charles Salt</i>	<i>7037</i>
		<i>me 4</i>	<i>7356</i>
		<i>Interlake</i>	<i>8477</i>
		<i>Red River</i>	<i>8832</i>

(Use additional sheets where needed to complete description)

MONTANA WELL LOG REPORT

Other Options

This well log reports the activities of a licensed Montana well driller, serves as the official record of work done within the borehole and casing, and describes the amount of water encountered. This report is compiled electronically from the contents of the Ground Water Information Center (GWIC) database for this site. Acquiring water rights is the well owner's responsibility and is NOT accomplished by the filing of this report.

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[View scanned well log \(7/12/2010 3:42:43 PM\)](#)

Site Name: DEVIER JOHN R
GWIC Id: 27733

Section 7: Well Test Data

Total Depth: 59
Static Water Level: 28
Water Temperature:

Section 1: Well Owner(s)

1) DEVIER, JOHN R. (MAIL)
C B ROUTE
GLEN DIVE MT 59330 [11/19/1963]

Unknown Test Method *

Yield _ gpm.
Pumping water level _ feet.
Time of recovery _ hours.
Recovery water level _ feet.

Section 2: Location

Township	Range	Section	Quarter Sections	Geocode
15N	54E	25	SE 1/4 SW 1/4	
DAWSON County				
Latitude	Longitude	Geomethod	Datum	
47.022294	-104.829079	TRS-SEC	NAD83	
Ground Surface Altitude	Ground Surface Method	Datum	Date	
2150				
Addition	Block	Lot		

* During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.

Section 3: Proposed Use of Water

STOCKWATER (1)

Section 8: Remarks

Section 4: Type of Work

Drilling Method: BORED
Status: NEW WELL

Section 9: Well Log

Geologic Source

211HLCK - HELL CREEK FORMATION

Section 5: Well Completion Date

Date well completed: Tuesday, November 19, 1963

From	To	Description
0	7	SAND
7	21.5	CLAYEY SAND
21.5	23	GRAVEL
23	59	CLAYEY SHALE TO BOTTOM

Section 6: Well Construction Details

There are no borehole dimensions assigned to this well.

From	To	Diameter	Wall Thickness	Pressure Rating	Joint Type
0	59	18			CULVERT

From	To	Diameter	# of Openings	Size of Openings	Description
26	58	18			1/2IN PERFS

Annular Space (Seal/Grout/Packer)

There are no annular space records assigned to this well.

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name:
Company: THIEM
License No: -
Date Completed: 11/19/1963

File No. _____

021 T 15N R 54E 25

County Dawson CD

TRIPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)



RECEIVED
DEC 4 1963
Montana Bureau of
Mines and Geology

Owner: JOHN R. DEVIER Address: C.R. GLENDINE MONT

Driller: JAYEM DRILLING CO. Address: Box 177, GLENDINE MONT

Date of Notice of Appropriation of Groundwater: Nov 29, 1963

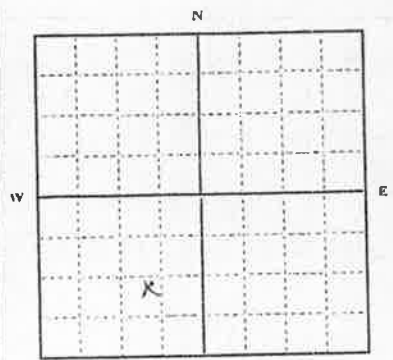
Date well started: Nov 19, 1963 Date Completed: Nov 19, 1963

Type of well: BORED Equipment Used: BOREING
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

Water Use: Domestic Municipal Other Irrigation
Industrial Drainage Stock

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
26"	18" C.M.P. CONCRETE	0	59'	1/2"	26'	58'



SE 1/4 SW 25 T. 15 R. 54
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well: 28' feet.

Shut-in Pressure for Flowing Well: None

Pumping Water Level: _____ feet at _____ gal. per minute.

Discharge in gal. per min. of flowing well: None

How Tested: None Length of Test: None

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation) 1 1/2" to 3" gravel used to pack around 18" C.M.P. concrete casing in 26" hole.

Driller's License Number

(JACK W. THIEM)
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

M: 27733

MONTANA WELL LOG REPORT

Other Options

This well log reports the activities of a licensed Montana well driller, serves as the official record of work done within the borehole and casing, and describes the amount of water encountered. This report is compiled electronically from the contents of the Ground Water Information Center (GWIC) database for this site. Acquiring water rights is the well owner's responsibility and is NOT accomplished by the filing of this report.

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[View field visits for this site](#)
[View water quality for this site](#)

Site Name: BOESE JEFF
GWIC Id: 231796

Section 1: Well Owner(s)

1) BOESE, JEFF (MAIL)
 301 RD 250
 GLENDIVE MT 59330 [12/21/2006]

Section 2: Location

Township	Range	Section	Quarter Sections	County	Geocode
15N	54E	36	NE¼ NW¼	DAWSON	

Latitude	Longitude	Geomethod	Datum	Ground Surface Altitude	Ground Surface Method	Datum	Date
47.018652	-104.829025	TRS-SEC	NAD83				

Addition **Block** **Lot**

Section 3: Proposed Use of Water

STOCKWATER (1)

Section 4: Type of Work

Drilling Method:
 Status: NEW WELL

Section 5: Well Completion Date

Date well completed: Thursday, December 21, 2006

Section 6: Well Construction Details

Borehole dimensions

From	To	Diameter
0	30	12
30	58	8

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
1.5	58	8	0.25		WELDED	A53A STEEL

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
52	58	8		.250	TORCH OR PLASMA CUTS

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	30	BENTONITE	

Section 7: Well Test Data

Total Depth: 58
 Static Water Level: 29
 Water Temperature:

Air Test *

25 gpm with drill stem set at 50 feet for 2 hours.
 Time of recovery 0.17 hours.
 Recovery water level 29 feet.
 Pumping water level feet.

** During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.*

Section 8: Remarks

Section 9: Well Log

Geologic Source

211HLCK - HELL CREEK FORMATION

From	To	Description
0	18	SAND & GRAVEL
18	48	YELLOW & GREY CLAY
48	58	GRAVEL & SAND

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name: MICHAEL HAGGERTY
Company: H & H DRILLING
License No: WWC-310
Date Completed: 12/21/2006

BEFORE THE BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

In the Matter of the application of)
)
Denbury Onshore, LLC)
)
for a Permit to Convert an Existing Well to Water Injection Use.)
)

NOTICE OF
INTENTION TO APPLY
FOR A CLASS II INJECTION
WELL PERMIT

1. Name and address of Applicant:
Denbury Onshore, LLC
5320 Legacy Drive
Plano, TX 75024
2. Legal Description including County and Approximate Footages of Surface Location of Proposed Oil and Gas Well:
(and projected bottom-hole location, if a directional or horizontal well)
NPRR "G" (NCT-5) 1 Location: SW-SW, 660' FSL & 660' FWL, Sec. 25, T15N-R54E Dawson County, MT.
3. Source of fluids to be injected:
Produced Water from Denbury Onshore, LLC Operations located in the Glendive Field.
4. Zone or formation, including depth, into which fluid will be injected.
Mission Canyon-Lodgepole Formation at approximately 7338'-7936'.
5. Statement that an Aquifer Exemption will or will not be requested.
An Aquifer Exemption is not required.

Notice is hereby given that an application for a Class II injection Well Permit at the surface location set forth above will be filed with the Montana Board of Oil and Gas Conservation. Pursuant to Rules 36.22.1409, Administrative Rules of Montana, a public hearing will be held regarding said application. The hearing will be held at the Board of Oil & Gas in the Conservation Hearing Room, Billings, Montana on **Thursday, February 15, 2018**. An interested party may demand opportunity to be heard by the Montana Board of Oil and Gas Conservation concerning said application.

Montana Board of Oil and Gas Conservation

2535 St. Johns Avenue
Billings MT 59102
Office: (406) 656-0040
Fax: (406) 655-6015

Naomi Johnson

From: Billie Jo Williams <BillieJo.Williams@helenair.com>
Sent: Wednesday, January 03, 2018 5:20 PM
To: Naomi Johnson
Subject: [EXT] RE: Public Notice for Publication - **NPRR G (NCT-5) 1**

Hi Naomi,

I have this legal ad scheduled January 5, 2018. The charges are \$ 148.42 and will need to be prepaid by calling me at 406-447-4000. Here proof.

Thanks,

**BEFORE THE BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
NOTICE OF INTENTION TO APPLY
FOR A CLASS II INJECTION WELL PERMIT**

In the Matter of the application of
DENBURY ONSHORE, LLC

for a Permit to Convert an Existing Well to Water Injection Use.

1. Name and address of applicant:

**Denbury Onshore, LLC
5320 Legacy Drive
Plano, TX 75024**

2. Legal Description including County and Approximate Footages of Surface Location of Proposed Oil and Gas Well:
(and projected bottom-hole location, if a directional or horizontal well)

NPRR "G" (NCT-5) 1 Location: SW-SW, 660' FSL & 660' FWL, Sec. 25, T15N-R54E Dawson County, MT.

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**Produced Water from Denbury Onshore, LLC Operations
located in the Glendive Field.**

4. Zone or formation, including depth, into which produced water will be injected.

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5. Statement that an Aquifer Exemption will or will not be requested.

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Montana Board of Oil and Gas Conservation
2535 St. Johns Avenue
Billings MT 59102
Office: (406) 656-0040
Fax: (406) 655-6015
January 5, 2018

MNAXLP

Billie Jo Williams

Office Manager

Independent Record/P.O. Box 4249/2222 Washington Street/Helena, MT 59604

406-447-4000

billiejo.williams@helenair.com

the
HEART *of the community*
Independent Record | helenair.com

From: Naomi Johnson [mailto:naomi.johnson@denbury.com]
Sent: Wednesday, January 03, 2018 1:25 PM
To: Hel IR Legal Ads
Subject: Public Notice for Publication - NPRR G (NCT-5) 1

Good Afternoon,

I have one more public notice I'd like to get published as soon as possible, is it too late to get it into the paper that runs tomorrow? I've attached in a pdf and excel format. Please let me know if you have any questions or if anything else is needed before this can be published.

Thanks so much!

Naomi Johnson
Regulatory Compliance Specialist | North Region
Denbury Resources Inc | 5320 Legacy Dr | Plano, TX 75024
Phone: 972-673-2552 | Email: naomi.johnson@denbury.com

Denbury 

BEFORE THE BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

In the Matter of the application of)
)
Denbury Onshore, LLC)
)
for a Permit to Convert an Existing Well to Water Injection Use.)

NOTICE OF
INTENTION TO APPLY
FOR A CLASS II INJECTION
WELL PERMIT

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Denbury Onshore, LLC
5320 Legacy Drive
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Montana Board of Oil and Gas Conservation

2535 St. Johns Avenue
Billings MT 59102
Office: (406) 656-0040
Fax: (406) 655-6015

Naomi Johnson

From: Elizabeth Kaiser <rrcomp@rangerreview.com>
Sent: Wednesday, January 03, 2018 3:57 PM
To: Naomi Johnson
Subject: [EXT] Re: Public Notice for Publication - **NPRR G (NCT-5) 1**

Hi Naomi,

This one is too late for the 1/4 issue but I can schedule it for the 1/7/2018 issue. It will also cost \$32.

Elizabeth

On Jan 3, 2018, at 1:20 PM, Naomi Johnson <naomi.johnson@denbury.com> wrote:

Hey Elizabeth,

I have one more public notice I'd like to get published as soon as possible, is it too late to get it into the paper that runs tomorrow? I've attached in a pdf and excel format. I will call the office manager and get both notices paid for today. Please let me know if you have any questions or if anything else is needed before this can be published.

Thanks so much!

Naomi Johnson
Regulatory Compliance Specialist | North Region
Denbury Resources Inc | 5320 Legacy Dr | Plano, TX 75024
Phone: 972-673-2552 | Email: naomi.johnson@denbury.com
<image001.jpg>

<NPRR G (NCT-5) 1 - Public Notice - Glendive Ranger Review.pdf><NCT 5-1 Public Notice.xls>

Elizabeth Kaiser
rrcomp@rangerreview.com
406-377-3303



Encore Operating LP
 Broadus MT USA
 Sample Marked: West Glendive 26 SWD
 SAP Sold To Number: 0001082193

Sample Number: NW1054645
 Date Sampled: 31-Jan-2010
 Date Received: 10-Feb-2010
 Date Completed: 17-Feb-2010

Water Analysis Report

Cations/Metals	Total	
Aluminum (Al)	<1.4	mg/L
Barium (Ba)	1.5	mg/L
Boron (B)	120	mg/L
Cadmium (Cd)	<0.14	mg/L
Calcium (Ca)	3300	mg/L
Chromium (Cr)	<0.43	mg/L
Copper (Cu)	<0.87	mg/L
Iron (Fe)	75	mg/L
Lead (Pb)	<2.9	mg/L
Lithium (Li)	24	mg/L
Magnesium (Mg)	430	mg/L
Manganese (Mn)	0.24	mg/L
Molybdenum (Mo)	<0.9	mg/L
Nickel (Ni)	<0.29	mg/L
Potassium (K)	1300	mg/L
Silica (SiO ₂)	140	mg/L
Sodium (Na)	25000	mg/L
Strontium (Sr)	140	mg/L
Vanadium (V)	<0.29	mg/L
Zinc (Zn)	<0.14	mg/L
Calcium (CaCO ₃)	8400	mg/L
Magnesium (CaCO ₃)	1800	mg/L
Sodium (CaCO ₃)	54000	mg/L
Calculated Hardness (CaCO ₃)	10000	mg/L

Anions

Bromide (Br)	<200.0 mg/L
Chloride (Cl)	54000 mg/L
Nitrate (NO ₃)	<200.0 mg/L
Nitrite (NO ₂)	<200.0 mg/L
Sulfate (SO ₄)	890 mg/L
Chloride (CaCO ₃)	76000 mg/L
Nitrate (CaCO ₃)	<160 mg/L
Sulfate (CaCO ₃)	920 mg/L

ALK - Alkalinity

Bicarbonate (CaCO ₃)	160 mg/L
Methyl Orange (CaCO ₃)	160 mg/L
Phenolphthalein (CaCO ₃)	<10 mg/L

Authorized by : Jessica Rubino





Encore Operating LP
Broadus MT USA
Sample Marked: West Glendive 26 SWD
SAP SoldTo Number: 0001082193

Sample Number: NW1054645
Date Sampled: 31-Jan-2010
Date Received: 10-Feb-2010
Date Completed: 17-Feb-2010

Water Analysis Report

Others

Conductivity 110000 μ S/cm
pH 6.9 pH Units

Authorized by : Jessica Rubino



91 7199 9991 7032 7416 9878

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS. FOLD AT DOTTED LINE

CERTIFIED MAIL

Denbury 

January 8, 2018



91 7199 9991 7032 7416 9878

Whoop Creek Co.
421 Road 248
Glendive, MT 59330-9506

RE: Glendive Field
NPRR G (NCT-5) 1
Section 25, T15N-R54E
Dawson County, MT

Dear Surface Land Owner,

Within the Glendive Field, Denbury Onshore, LLC plans to convert the NPRR G (NCT-5) 1 to a Salt Water Disposal well.

In accordance with the rules and regulations of the Montana Board of Oil and Gas Conservation (MBOGC)—administered Underground Injection Control (UIC) in Montana, Denbury is required to give notice to each owner of land within one-quarter mile radius of the well site, that we have applied for a permit to perform this work.

Therefore, as a landowner within the prescribed radius, we are hereby informing you that we have applied to the MBOGC for a permit to convert the subject well to salt water disposal. You may comment on the application at any time by mail or phone before the hearing, or be present at the hearing. The hearing will be held on Thursday February 15, 2018 at the Board of Oil & Gas in the Conservation Hearing Room. It is located at 2535 St. Johns Avenue, Billings, Montana 59102.

For further information, contact Naomi Johnson at (972) 673-2552 or George Hudak of the MBOGC at (406) 656-0040.

Sincerely,

Naomi Johnson
Regulatory Compliance Specialist
Denbury Onshore, LLC

91 7199 9991 7032 7416 9885

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS. FOLD AT DOTTED LINE

CERTIFIED MAIL

Denbury 

January 8, 2018



91 7199 9991 7032 7416 9885

Michael R. & Joni M. Garpestad
421 Road 248
Glendive, MT 59330-9506

RE: Glendive Field
NPRR G (NCT-5) 1
Section 25, T15N-R54E
Dawson County, MT

Dear Surface Land Owner,

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Sincerely,

Naomi Johnson
Regulatory Compliance Specialist
Denbury Onshore, LLC