



00204018

-> HS.FL DX441 NANCY REEVES
 - RECEIVED FROM HS.FL DX441 (307) 234-3584
 -> HS.FECX621 GENE SPENCER
 -> HS.DTUZ561 DON BATLEY/DTU ENG

DOM LAB
 09/27/89 14.02
 DOM ADM
 DOM ENG

 * WATER ANALYSIS REPORT *
 * ##### *
 * HALLIBURTON SERVICES *
 * DENVER DIVISION LAB *
 * BOX 1510 *
 * EVANSVILLE, WY 82636 *

 DATE: 27 Sept 89

RECEIVED

NOV 17 1989

OIL & GAS CONS. COMM.

Gene Spencer
 Halliburton Services
 Sterling, CO

EXHIBIT " -1"

D.E. Bailey

RESPECTFULLY SUBMITTED,

BY: N.K. Reeves

IPANY: Walsh Production

REPORT NO: W89-0377

L NAME: State A #3

DATE REC'D: 26 Sept 89

LOCATION: Sec 29-7N-53W
 Logan Co., CO

LAB CHARGES: \$50.00

FORMATION: J Sand

CHARGED TO: Sterling

CTETC GRAVITY -----	1.001	
-----	8.4	
IN (FE) -----	< 1	MPL
PASSIUM (K) -----	6	"
ITUM (NA) -----	1205	"
CIUM (CA) -----	4	"
INESTIUM (MG) -----	1	"
ORIDES (CL) -----	367	"
FATES (SO4) -----	< 10	"
BONATES (CO3) -----	90	"
CARBONATES (HCO3) -----	2410	"
-----	4083	"
ISTIVITY-----	2.6	OHMS AT 72 DEGREES F

MARKS:

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DOM LAB
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: Gene Spencer
Halliburton Services
Sterling, CO

EXHIBIT " "

: D.E. Bailey

RESPECTFULLY SUBMITTED,

BY: N.K. Reeves

MPANY: Walsh Production

REPORT NO: W89-0376

.L. NAME: State A #2

DATE REC'D: 26 Sept 89

ATION: Sec 29-7N-53W
Logan Co., CO

LAB CHARGES: \$50.00

RMATION: J Sand

CHARGED TO: Sterling

ECTIFIC GRAVITY -----	1.001	
-----	8.3	
ON (FE) -----	< 1	MPI.
TASSIUM (K) -----	5	"
DTUM (NA) -----	1303	"
LCIUM (CA) -----	4	"
ONESTUM (MG) -----	1	"
LORIDES (CL) -----	376	"
LFATES (SO4) -----	< 10	"
RBONATES (CO3) -----	nil	"
CARBONATES (HCO3) -----	2837	"
S -----	4526	"
STSTITUTY-----	2.6	OHMS AT 72 DEGREES F

MARKS:

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COLO.OIL & GAS CONS.COMM.

Gene Spencer
Halliburton Services
Sterling, CO

EXHIBIT "G-1"

D.E. Bailey

RESPECTFULLY SUBMITTED,

BY: N.K. Reeves

IPANY: Walsh Production

REPORT NO: W89-0377

NAME: State A #3

DATE REC'D: 26 Sept 89

ATION: Sec 29-7N-53W

LAB CHARGES: \$50.00

Logan Co., CO

IMATION: J Sand

CHARGED TO: Sterling

CTIFIC GRAVITY -----	1.001	
-----	8.4	
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ITUM (NA) -----	1205	"
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EXHIBIT "G"

: D.E. Bailey

RESPECTFULLY SUBMITTED,

BY: N.K. Reeves

MPANY: Walsh Production

REPORT NO: W89-0376

..L. NAME: State A #2

DATE REC'D: 26 Sept 89

ATION: Sec 29-7N-53W

Logan Co., CO

LAB CHARGES: \$50.00

RMATION: J Sand

CHARGED TO: Sterling

SPECIFIC GRAVITY ----- 1.001
----- 8.3
ON (FE) ----- < 1 MPI
TASSIUM (K) ----- 5 "
DTUM (NA) ----- 1303 "
LCIUM (CA) ----- 4 "
GNESTUM (MG) ----- 1 "
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COLORADO OIL AND GAS CONSERVATION COMMISSION

1580 Logan St., Suite 380
Denver, Colorado 80203

MEMO

November 9, 1989

To: Mr. John Romero
Division of Water Resources

From: Mr. Ed DiMatteo, Underground Injection Control Program

Subject: Need for Hydrologic Information

The Oil and Gas Conservation Commission has received an application for a water injection well to be located;

<u>qtr/qtr</u>	<u>Section</u>	<u>Township</u>	<u>Range</u>
NE NE	29	- 7 N	- 53 W

Logan County.

- 1) Well Name: State A-1 Field: Atwood
- 2) Injection Zone(s): J Sand
- 3) Depth of Injection Interval: 4696' to 4711'
- 4) Proposed Injection Pressure: 800 psig
- 5) Frac Gradient or Pressure (BHP): .65 psi/ft
- 6) Volumes of Fluid to be Injected: 1,000 bbl/day
- 7) TDS of Injection Zone Fluid: 4,526 (mg/l)
- 8) TDS of Fluid to be Injected: 4,526 (mg/l)

9) Well Construction Data

	<u>casing size</u>	<u>hole size</u>	<u>depth</u>	<u>amt cement</u>
<u>Surface casing</u>	10 5/8	12 1/4?	180'	155 sks
<u>Longstring casing</u>	7	8 3/4?	4,740'	150 sks

Please furnish the Commission the name and depth of any aquifer in the area that is a known or potential fresh water strata. We would also like a list of the water wells within one half mile of this location. Any other information with regard to distance to streams, ditches or outcrops would be very helpful.

Thank you

November 16, 1989

Ed:

These are the Attachments that should have been submitted with the Request for Aquifer Exemption that was mailed to you November 15.

Sorry for the inconvenience.

WALSH PRODUCTION, INC.
David G. Walsh

November 16, 1989

Ed:

These are the Attachments that should have
been submitted with the Request for Aquifer
Exemption that was mailed to you November 15.

Sorry for the inconvenience.

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