

BEFORE EXAMINER STOGNER

Oil Conservation Division

Horizon Exhibit No. Za, Y, C

Case No. 9424

HALLIBURTON DIVISION LABORATORY
 HALLIBURTON SERVICES
 MIDLAND DIVISION
 HOBBS, NEW MEXICO 88240

211

LABORATORY WATER ANALYSIS

No. 181

To Horizon

Date 9-2

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Submitted by _____ Date Rec. _____

Well No. Anderson #1 Depth _____ Formation Tubb

County _____ Field _____ Source _____

	<u>9-2</u>	<u>9-4</u>	
Resistivity	<u>.075 @ 70°</u>	<u>.079 @ 70°</u>	
Specific Gravity	<u>1.085</u>	<u>1.085</u>	
pH	<u>6.6</u>	<u>6.2</u>	
Calcium (Ca)	<u>12,100</u>	<u>11,250</u>	*MPL
Magnesium (Mg)	<u>2820</u>	<u>2520</u>	
Chlorides (Cl)	<u>75,000</u>	<u>72,500</u>	
Sulfates (SO ₄)	<u>Moderate</u>	<u>Heavy</u>	
Bicarbonates (HCO ₃)	<u>696</u>	<u>672</u>	
Soluble Iron (Fe)	<u>Nil</u>	<u>Light</u>	
<u>Oil API Gravity</u>		<u>37.2 @ 60°</u>	

Remarks: _____ *Milligrams per liter

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 SEP 14 1987

Respectfully submitted,

ORIZON OIL & GAS CO.
 SHERMAN, TEXAS

Analyst: _____

HALLIBURTON COMPANY

cc:

By _____
 CHEMIST

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 SPEARMAN, TEXAS

HALLIBURTON DIVISION LABORATORY
 HALLIBURTON SERVICES
 MIDLAND DIVISION
 HOBBS, NEW MEXICO 88240
 LABORATORY WATER ANALYSIS

file
 Anderson #1-8
 AS
 4-30-88
 No _____

To Horizon Oil & Gas

Date 4-20-88

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Submitted by _____ Date Rec. _____

Well No. Anderson #1 Depth 5100 Formation paddock

County _____ Field Monument Source _____

Resistivity091 @ 70°

Specific Gravity 1.065

pH 6.5

Calcium (Ca) 3900 *MPL

Magnesium (Mg) 1680

Chlorides (Cl) 54,500

Sulfates (SO₄) Heavy

Bicarbonates (HCO₃) 948

Soluble Iron (Fe) Nil

Oil API gravity 38.6 @ 60°

Remarks: _____ *Milligrams per liter

Respectfully submitted,

Analyst: _____

HALLIBURTON COMPANY

cc:

By _____

CHEMIST

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LABORATORY WATER ANALYSIS

No. _____

To horizon

Date _____

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Blaineberg formation

Submitted by _____ Date Rec. _____

Well No. Anderson #1 Depth _____ Formation _____

County _____ Field _____ Source _____

	<u>10-8-87</u>	<u>10-19-87</u>	
Resistivity	.150 @ 70°	.074 @ 70°	
Specific Gravity	1.035	1.085	
pH	6.1	6.5	
Calcium (Ca)	4850	5050	*MPL
Magnesium (Mg)	Nil	1650	
Chlorides (Cl)	30,000	76,000	
Sulfates (SO ₄)	Light	Heavy	
Bicarbonates (HCO ₃)	528	816	
Soluble Iron (Fe)	Moderate	Nil	
<u>Oil API Gravity</u>		<u>58.7 @ 60°</u>	

Remarks:

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OCT 22 1987
MORNING: G-8 500
SHEARMAN, STEARNS & KAUFMAN, TEXAS

*Milligrams per liter

Respectfully submitted,

Analyst: _____

HALLIBURTON COMPANY

cc:

By _____
CHEMIST

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Oil Conservation Division
Horizon Exhibit No. 7 abc
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