

BEFORE EXAMINER STOGNER

Oil Conservation Division

Horizon Exhibit No. Za, b, c

Case No. 9424

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

211

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

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

Remarks: *Milligrams per liter

RECEIVED

SEP 14 1987

SON OIL & GAS CO.
SHERMAN, TEXAS

Respectfully submitted,

Analyst:

HALLIBURTON COMPANY

cc:

By CHEMIST

NOTICE

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APR 27 1988
HORIZON OIL & GAS CO.
SPEARMAN, TEXAS

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

file
Anderson #1-8
83
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 _____

Resistivity	<u>.091 @ 70°</u>		
Specific Gravity	<u>1.065</u>		
pH	<u>6.5</u>		
Calcium (Ca)	<u>3900</u>		<u>MP/L</u>
Magnesium (Mg)	<u>1680</u>		
Chlorides (Cl)	<u>54,500</u>		
Sulfates (SO ₄)	<u>Heavy</u>		
Bicarbonates (HCO ₃)	<u>948</u>		
Soluble Iron (Fe)	<u>Nil</u>		

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

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: _____

HALLIBURTON COMPANY

cc:

By _____

CHEMIST

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