

MERIDIAN OIL

OIL CONSERVATION DIVISION
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April 13, 1995

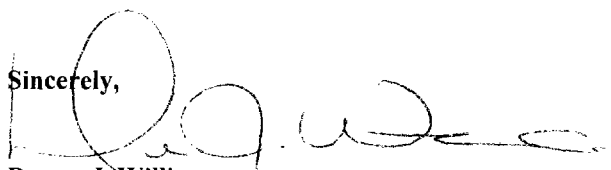
**Mr. David Catanach
Oil Conservation Division
2040 S. Pacheco Street
Santa Fe, New Mexico 87505**

David:

Please find attached a water analysis of the Little Jack 30 Federal # 2 which is now in the Bone Spring. As we have previously discussed, this water is being disposed into the James Federal No. 1 operated by Harvard Petroleum, permit (SWD 486). We are submitting this analysis with the permission of Jeff Harvard in order to include water from the Bone Spring into this disposal well.

Should you have any questions, or need additional information, please do not hesitate to contact me at 915-688-6943.

Sincerely,


**Donna J. Williams
Regulatory Assistant**

PETROLITE

TRETOLITE DM

Post-It™ brand fax transmittal memo 7671		# of pages	2
To	DORR WILLIAMS		
From	ARTESIA		
Co.			
Dept.			
Fax #			

Petrolite Corporation
510 West Texas
Artesia, NM 88210-2041

(505) 746-3588
Fax (505) 746-3580

Reply to:
P.O. Box FF
Artesia, NM
88211-7531

WATER ANALYSIS REPORT

Company : MERIDIAN OIL
Address : ARTESIA OFFICE
Lease : LITTLE JACK
Well : #2
Sample Pt. : WELLHEAD

Date : 3-31-95
Date Sampled : 3-30-95
Analysis No. : 0070

ANALYSIS		mg/L	* meq/L
1. pH	6.1		
2. H2S	3		
3. Specific Gravity	1.050		
4. Total Dissolved Solids		77291.9	
5. Suspended Solids		NR	
6. Dissolved Oxygen		NR	
7. Dissolved CO2		NR	
8. Oil In Water		NR	
9. Phenolphthalein Alkalinity (CaCO3)			
10. Methyl Orange Alkalinity (CaCO3)			
11. Bicarbonate	HCO3	1744.0	HCO3 28.6
12. Chloride	Cl	43665.0	Cl 1231.7
13. Sulfate	SO4	1875.0	SO4 39.0
14. Calcium	Ca	2480.0	Ca 123.8
15. Magnesium	Mg	560.3	Mg 46.1
16. Sodium (calculated)	Na	25967.7	Na 1129.5
17. Iron	Fe	1000.0	
18. Barium	Ba	NR	
19. Strontium	Sr	NR	
20. Total Hardness (CaCO3)		8500.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
124 *Ca <----- *HCO3 29	Ca(HCO3)2	81.0	28.6 2317
/----->	CaSO4	68.1	39.0 2657
46 *Mg -----> *SO4 39	CaCl2	55.5	56.1 3114
<-----/	Mg(HCO3)2	73.2	
1130 *Na -----> *Cl 1232	MgSO4	60.2	
	MgCl2	47.6	46.1 2194
Saturation Values Dist. Water 20 C	NaHCO3	84.0	
CaCO3 13 mg/L	Na2SO4	71.0	
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4	1129.5 66009
BaSO4 2.4 mg/L			

REMARKS: RESISTIVITY 0.1
S. HOLLINGER

Petrolite Oilfield Chemicals Group

Respectfully submitted,
S. TIGERT

PETROLITE

SCALE TENDENCY REPORT

Company	: MERIDIAN OIL	Date	: 3-31-95
Address	: ARTESIA OFFICE	Date Sampled	: 3-30-95
Lease	: LITTLE JACK	Analysis No.	: 0070
Well	: #2	Analyst	: S.TIGERT
Sample Pt.	: WELLHEAD		

STABILITY INDEX CALCULATIONS
(Stiff-Davis Method)
CaCO3 Scaling Tendency

S.I. =	0.4	at	60 deg. F	or	16 deg. C
S.I. =	0.4	at	80 deg. F	or	27 deg. C
S.I. =	0.5	at	100 deg. F	or	38 deg. C
S.I. =	0.6	at	120 deg. F	or	49 deg. C
S.I. =	0.7	at	140 deg. F	or	60 deg. C

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS
(Skillman-McDonald-Stiff Method)
Calcium Sulfate

S =	4117	at	60 deg. F	or	16 deg C
S =	4413	at	80 deg. F	or	27 deg C
S =	4589	at	100 deg. F	or	38 deg C
S =	4659	at	120 deg. F	or	49 deg C
S =	4702	at	140 deg. F	or	60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
S.TIGERT