



# KERNS PETROLEUM, INC.

**Well Name:** Eumont St. No. 1

**Report Date:** 12/1/2007

**County, State:** Lea Co, NM

**Report Number:** 5

**Type of Operation:** Completion

**Lease Number:** \_\_\_\_\_

**Elevation above GL:** \_\_\_\_\_

**Present Operation:** SWABBING

**AFE Amount:** \_\_\_\_\_

**AFE Number:** \_\_\_\_\_

**Rig/Contractor:** Eunice Well Service

**Company Rep.** Dugan Douglas

Date	Time	Hrs	Activity	Expense		
				Daily	Cum	
11/30/2007			10 THERE WAS NO PRESSURE ON TBG. RIG UP SWAB TAG FLUID AT 600'. FIRST RUN PULLED FROM 2000'. MADE 21 MORE RUNS. FLUID LEVEL STAYED BETWEEN 700'-900' PULLED SWAB FROM 2100'-2200'. SWABBED A TOTAL OF 155 BBLs OF FLUID WITH A CUT OF 15%-20% OIL, 20% CUT OF BS AND TRASH IN FLUID. SHUT WELL IN FOR NIGHT BECAUSE OF DARKNESS.			
				Rig	3,500 14,200	
				Equip Rentals BOP	200 15,800	
				Supervision	950 4,350	
				Tubing Testers	0	
				Transportation/Kill truck	0	
				Wireline	0	
				Perforation	0	
				Tubing	0	
				Wellhead	0	
				Sub Surface Equipment	0	
				Roads & Location	0	
				Labor & Supplies	1,500	
				Services	17,500	
				Miscellaneous	975	
				<b>Total - Drilling</b>	<b>653,423</b>	
				<b>Total - Completion</b>	<b>4,650 54,325</b>	
				<b>Total - D&amp;C</b>	<b>707,748</b>	
				<b>Downhole Assembly And Equipment</b>		
				<b>Description</b>	<b>Size</b>	<b>Feet</b>
				End of Tubing		
				SN Depth		
				X Nipple		
				Sand Plug		
				TOC		
				Tubing		
				Packer		
				RBP		
				CIBP		
				TAC		
				Rods		
				Pump		
				Pony Rods/Subs		

**General Comments**

Oil Conservation Division

Case No. \_\_\_\_\_

Exhibit No. 6

North Permian Basin Region  
P.O. Box 740  
Sundown, TX 79372-0740  
(806) 229-8121  
Lab Team Leader - Sheila Hernandez  
(432) 495-7240

## Water Analysis Report by Baker Petrolite

Company:	KERNS PETROLEUM	Sales RDT:	44217
Region:	PERMIAN BASIN	Account Manager:	FRANK GARDNER (505) 390-5194
Area:	EUNICE, NM	Sample #:	338763
Lease/Platform:	EUMONT STATE UNIT	Analysis ID #:	78537
Entity (or well #):	1	Analysis Cost:	\$80.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 338763 @ 75 °F			
		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	01/21/08	Chloride:	2233.0	Sodium:	1346.0
Analysis Date:	01/24/08	Bicarbonate:	1501.0	Magnesium:	192.0
Analyst:	STACEY SMITH	Carbonate:	0.0	Calcium:	326.0
TDS (mg/l or g/m3):	5907.4	Sulfate:	233.0	Strontium:	12.0
Density (g/cm3, tonne/m3):	1.004	Phosphate:		Barium:	14.0
Anion/Cation Ratio:	0.9999998	Borate:		Iron:	5.0
		Silicate:		Potassium:	45.0
		Hydrogen Sulfide:		Aluminum:	
Carbon Dioxide:		pH at time of sampling:		Chromium:	
Oxygen:		pH at time of analysis:	6.83	Copper:	
Comments:		pH used in Calculation:	6.83	Lead:	
				Manganese:	0.400
				Nickel:	0.01

*Handwritten:* D.S.G. = 1.004

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>		CO <sub>2</sub> Press
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0	0.65	114.99	-1.17	0.00	-1.24	0.00	-0.86	0.00	2.31	8.36	2.64
100	0	0.78	134.50	-1.18	0.00	-1.19	0.00	-0.84	0.00	2.17	8.36	3.44
120	0	0.90	154.01	-1.19	0.00	-1.11	0.00	-0.81	0.00	2.05	8.36	4.31
140	0	1.04	173.53	-1.18	0.00	-1.01	0.00	-0.78	0.00	1.96	8.36	5.22

- Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.  
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.  
Note 3: The reported CO<sub>2</sub> pressure is actually the calculated CO<sub>2</sub> fugacity. It is usually nearly the same as the CO<sub>2</sub> partial pressure.

North Permian Basin Region

P.O. Box 740

Sundown, TX 79372-0740

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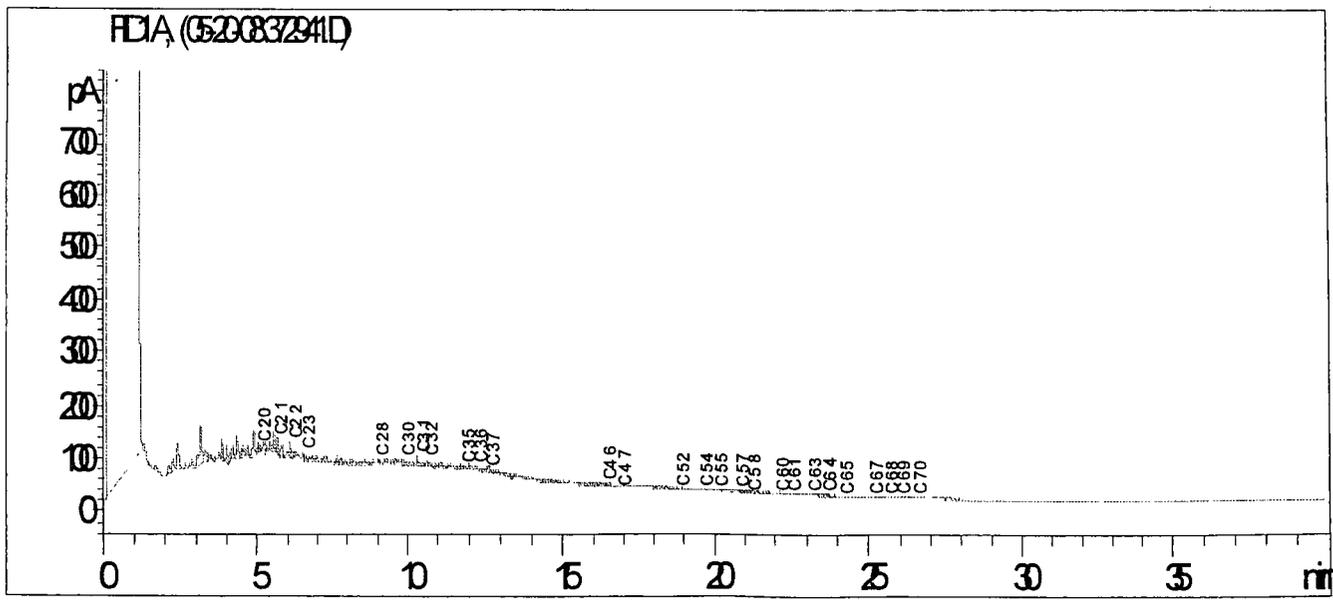
## OIL ANALYSIS

Company: KERNS PETROLEUM  
Region: PERMIAN BASIN  
Area: EUNICE, NM  
Lease/Platform: EUMONT STATE UNIT  
Entity (or well #): 1  
Formation: UNKNOWN  
Sample Point: SWAB  
Sample Date: 5/14/08

Sales RDT: 44217  
Account Manager: FRANK GARDNER (505) 390-5194  
Analysis ID #: 3204  
Sample #: 372941  
Analyst: SHEILA HERNANDEZ  
Analysis Date: 5/21/08  
Analysis Cost: \$100.00

Cloud Point: \_\_\_\_\_ ° F  
Weight Percent Paraffin (by GC)\*: 0.87%  
Weight Percent Asphaltenes: 0.08%  
Weight Percent Oily Constituents: 98.88%  
Weight Percent Inorganic Solids: 0.17%

\*Weight percent paraffin and peak carbon number includes only n-alkanes (straight chain hydrocarbons) greater than or equal to C20H42.



Laboratory Services, Inc.  
 2609 West Marland  
 Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Pro Well Testing & Wireline  
 P.O. Box 791  
 Hobbs, New Mexico 88241

SAMPLE: IDENTIFICATION: **Eumont State #1**  
 COMPANY: Kerns Petroleum  
 LEASE:  
 PLANT:

SAMPLE DATA: DATE SAMPLED: 5/19/08 5:30pm  
 ANALYSIS DATE: 5/20/2008  
 PRESSURE - PSIA 130  
 SAMPLE TEMP. °F 90  
 ATMOS. TEMP. °F 100

GAS (XX) LIQUID ( )  
 SAMPLED BY: Charles McMahan  
 ANALYSIS BY: Vicki McDaniel

REMARKS: H2S = 800 - 1000 PPM

**COMPONENT ANALYSIS**

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)	0.100	
Nitrogen (N2)	0.213	
Carbon Dioxide (CO2)	3.233	
Methane (C1)	74.783	
Ethane (C2)	9.171	2.447
Propane (C3)	7.634	2.099
I-Butane (IC4)	1.409	0.460
N-Butane (NC4)	2.059	0.648
I-Pentane (IC5)	0.736	0.269
N-Pentane (NC5)	0.308	0.111
Hexane Plus (C6+)	0.354	0.154
	<u>100.000</u>	<u>6.188</u>
BTU/CU.FT. - DRY	1282	MOLECULAR WT. 22.7325
AT 14.650 DRY	1278	
AT 14.650 WET	1256	
AT 14.73 DRY	1285	
AT 14.73 WET	1263	
SPECIFIC GRAVITY -		
CALCULATED	0.784	
MEASURED		

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## Water Analysis Report by Baker Petrolite

Company:	KERNS PETROLEUM	Sales RDT:	44217
Region:	PERMIAN BASIN	Account Manager:	FRANK GARDNER (575) 390-5194
Area:	EUNICE, NM	Sample #:	338768
Lease/Platform:	EUMONT STATE UNIT	Analysis ID #:	83335
Entity (or well #):	1	Analysis Cost:	\$80.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 338768 @ 75 °F					
<b>Sampling Date:</b>	06/23/08	<b>Anions</b>	mg/l	meq/l	<b>Cations</b>	mg/l	meq/l
<b>Analysis Date:</b>	06/27/08	<b>Chloride:</b>	28595.0	806.56	<b>Sodium:</b>	18332.0	797.4
<b>Analyst:</b>	STACEY SMITH	<b>Bicarbonate:</b>	1696.0	27.8	<b>Magnesium:</b>	188.0	15.47
<b>TDS (mg/l or g/m3):</b>	50977	<b>Carbonate:</b>	0.0	0.	<b>Calcium:</b>	772.0	38.52
<b>Density (g/cm3, tonne/m3):</b>	1.037	<b>Sulfate:</b>	1146.0	23.86	<b>Strontium:</b>	12.0	0.27
<b>Anion/Cation Ratio:</b>	1	<b>Phosphate:</b>			<b>Barium:</b>	2.0	0.03
		<b>Borate:</b>			<b>Iron:</b>	24.0	0.87
<b>Carbon Dioxide:</b>	100 PPM	<b>Silicate:</b>			<b>Potassium:</b>	183.0	4.68
<b>Oxygen:</b>		<b>Hydrogen Sulfide:</b>		85 PPM	<b>Aluminum:</b>		
<b>Comments:</b>		<b>pH at time of sampling:</b>		7.5	<b>Chromium:</b>		
		<b>pH at time of analysis:</b>			<b>Copper:</b>		
		<b>pH used in Calculation:</b>		7.5	<b>Lead:</b>		
					<b>Manganese:</b>	27.000	0.98
					<b>Nickel:</b>		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> *2H <sub>2</sub> O		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>		CO <sub>2</sub> Press
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
°F	psi											psi
80	0	1.32	183.64	-0.77	0.00	-0.81	0.00	-0.78	0.00	1.56	1.00	0.5
100	0	1.35	203.63	-0.81	0.00	-0.79	0.00	-0.79	0.00	1.39	1.00	0.76
120	0	1.39	224.63	-0.83	0.00	-0.73	0.00	-0.78	0.00	1.24	1.00	1.11
140	0	1.43	246.29	-0.85	0.00	-0.66	0.00	-0.77	0.00	1.11	1.00	1.58

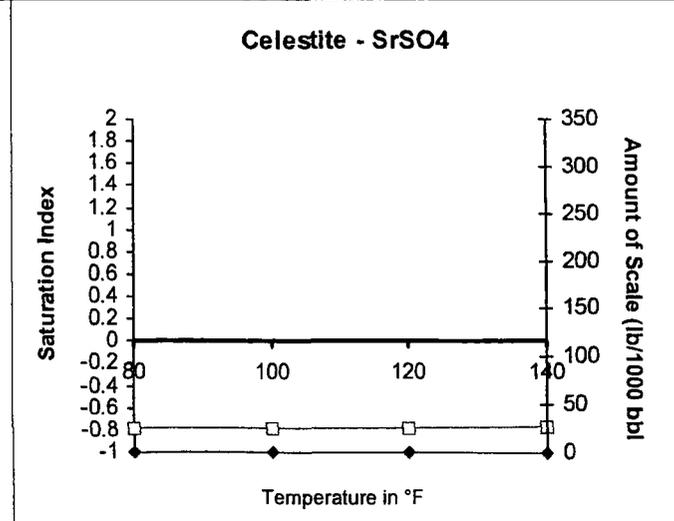
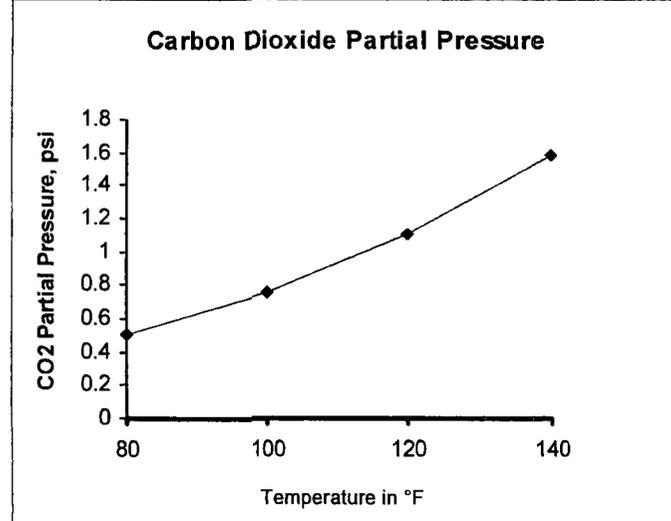
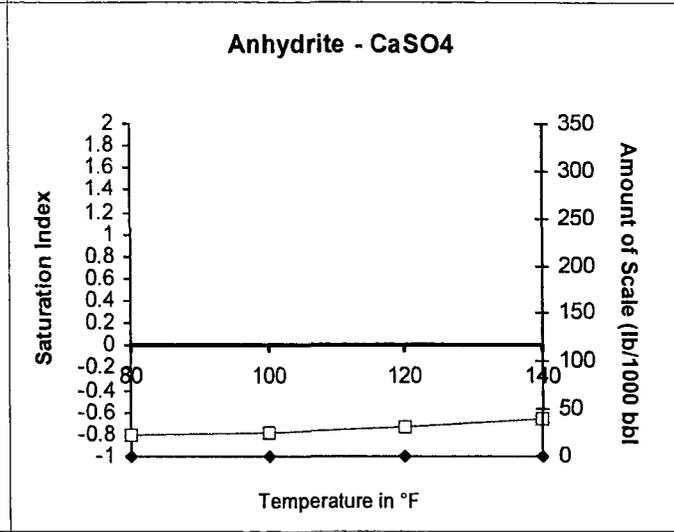
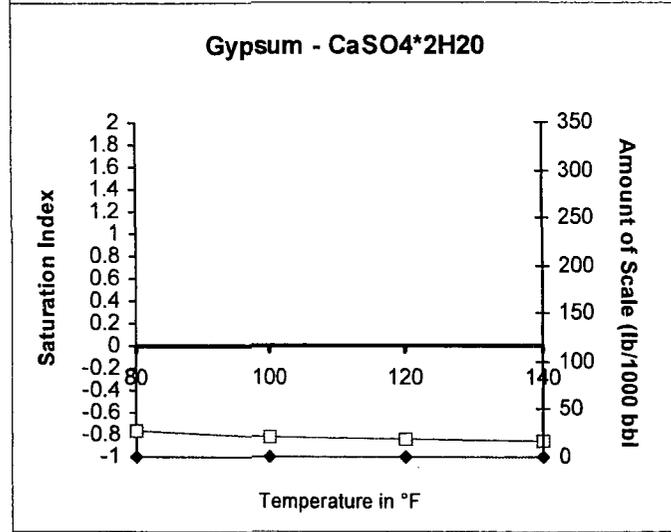
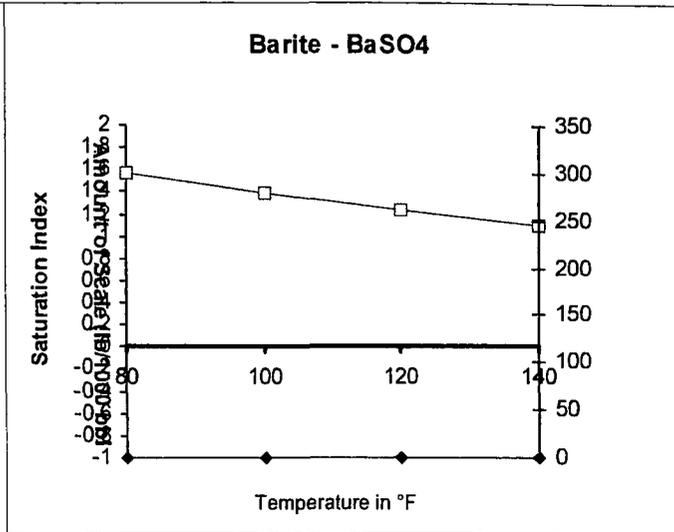
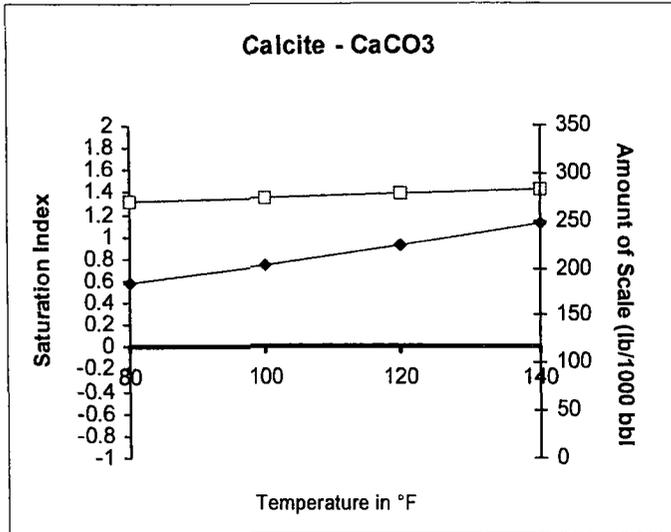
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Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

# Scale Predictions from Baker Petrolite

Analysis of Sample 338768 @ 75 °F for KERNs PETROLEUM, 06/27/08





**ANALYTICAL RESULTS FOR  
KERN'S PETROLEUM  
1777 NE LOOP 410 STE. 930  
SAN ANTONIO, TX 78257**

Receiving Date: 06/25/08  
Reporting Date: 06/27/08  
Project Owner: NOT GIVEN  
Project Name: EUMONT STATE #1  
Project Location: NOT GIVEN

Sampling Date: NOT GIVEN  
Sample Type: **PRODUCED WATER**  
Sample Condition: INTACT  
Sample Received By: HM  
Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (uS/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /L)
ANALYSIS DATE:		06/26/08	06/26/08	06/26/08	06/26/08	06/25/08	06/25/08
H15053-1	EUMONT STATE #1	36,500	754	379	396	119,000	580
Quality Control		NR	52.1	51.0	1.95	1,418	NR
True Value QC		NR	50.0	50.0	2.00	1,413	NR
% Recovery		NR	104	102	97.7	100	NR
Relative Percent Difference		NR	< 0.1	< 0.1	2.5	1.1	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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LAB NUMBER	SAMPLE ID	Cl (mg/L)	SO <sub>4</sub> (mg/L)	CO <sub>3</sub> (mg/L)	HCO <sub>3</sub> (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		06/25/08	06/26/08	06/25/08	06/25/08	06/25/08	06/25/08
H15053-1	EUMONT STATE #1	57,200	2,010	160	420	8.23	96,400
Quality Control		510	41.8	NR	1013	7.05	NR
True Value QC		500	40.0	NR	1000	7.00	NR
% Recovery		102	105	NR	101	101	NR
Relative Percent Difference		2.0	0.6	NR	2.5	0.3	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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*Kristin Supplis*  
\_\_\_\_\_  
Chemist

*06/27/08*  
\_\_\_\_\_  
Date

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