

STATE CORPORATION COMMISSION OF KANSAS, CONSERVATION DIVISION

PRODUCTIVITY TEST
BARREL TEST

OPERATOR Wabash Energy Corporation LOCATION OF WELL NE-SE
 LEASE Stalekeet Act II OF SEC. 1 T 18 S R 32 W
 WELL NO. # 7 COUNTY Scott CO.
 FIELD Keystone PRODUCING FORMATION Cherokee Ls
 Date Taken 12-27-95 Date Effective _____
 Well Depth 4618 Top Prod. Form _____ Perfs 4582-86
 Casing: Size 5 1/2 Wt. 14 # Depth 4666.60 Acid YES
 Tubing: Size 2 3/4 Depth of Perfs 4578 Gravity 34
 Pump: Type _____ Bore _____ Purchaser Teraco
 Well Status Pumping
 Pumping, flowing, etc.

TEST DATA

Permanent _____ Field _____ Special _____
 Flowing _____ Swabbing _____ Pumping X

STATUS BEFORE TEST:

PRODUCED 24 HOURS
 SHUT IN _____ HOURS
 DURATION OF TEST _____ HOURS 9 MINUTES _____ SECONDS
 GAUGES: WATER 5% INCHES _____ PERCENTAGE
 OIL 95% INCHES _____ PERCENTAGE
 GROSS FLUID PRODUCTION RATE (BARRELS PER DAY) 19 bbl 24 hrs.
 WATER PRODUCTION RATE (BARRELS PER DAY) .95
 OIL PRODUCTION RATE (BARRELS PER DAY) 18.05 PRODUCTIVITY
 STROKES PER MINUTE 10.5
 LENGTH OF STROKE 74" INCHES
 REGULAR PRODUCING SCHEDULE 24 hrs HOURS PER DAY
 COMMENTS Test done in 5 gal bucket

RECEIVED
 STATE CORPORATION COMMISSION
 1-5-96
 JAN 05 1996

WITNESSES:

Karin D. Shute FOR STATE
 _____ FOR OPERATOR
[Signature] FOR OFFSET

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

Conservation Division

Form C-5 Revised

TYPE TEST: Initial Annual Workover Reclassification TEST DATE:

Company Lease Well No.

County Location Section Township Range Acres

Field Reservoir Pipeline Connection

Completion Date Type Completion(Describe) Plug Back T.D. Packer Set At

Production Method: Type Fluid Production API Gravity of Liquid/Oil

Flowing Pumping Gas Lift Casing Size Weight I.D. Set At Perforations To

Tubing Size Weight I.D. Set At Perforations To

Pretest: Duration Hrs.

Starting Date Time Ending Date Time

Test: Duration Hrs.

Starting Date Time Ending Date Time

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure Separator Pressure Choke Size

Casing: Tubing:

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:										
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections Orifice Meter Range

Pipe Taps: Flange Taps: Differential: Static Pressure:

Measuring Device	Run-Prover Tester Size	Orifice Size	Meter-Prover-Tester Pressure			Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
			In. Water	In. Merc.	Psig or (Pd)			
Orifice Meter								
Critical Flow Prover								
Orifice Well Tester								

GAS FLOW RATE CALCULATIONS (R)

Coeff. (Fb)(Fp)(OWTC)	Meter-Prover Press. (Psia) (Pm)	Extension $\sqrt{hw \times Pm}$	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)

Gas Prod. MCFD Oil Prod. Bbls./Day Gas/Oil Ratio (GOR) = Cubic Ft. per Bbl.

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the _____ day of _____ 19____

For Offset Operator

For State

For Company

PETROLITE

TRETOLITE DIVISION

WATER ANALYSIS REPORT

1-18-32w

31-17-31w

Mid-Continent Region
Technical Services
5801 West 10th Street
Great Bend, Kansas 67530
(316) 792-7728

Company : Wabash Energy
Address :
Lease : Strecker
Well : #7
Sample Pt. :
185-32w
111-20-493

Date : 07/31/95
Date Sampled : 07/19/95
Analysis No. :

ANALYSIS		mg/L		* meq/L
1. pH		7.2		
2. H2S		Positive		
3. Specific Gravity		1.018		
4. Total Dissolved Solids		30497.5		
5. Suspended Solids				
6. Dissolved Oxygen				
7. Dissolved CO2				
8. Oil In Water				
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)		420.0		
11. Bicarbonate	HCO3	512.4	HCO3	8.4
12. Chloride	Cl	15930.0	Cl	449.4
13. Sulfate	SO4	2750.0	SO4	57.3
14. Calcium	Ca	2032.1	Ca	101.4
15. Magnesium	Mg	318.5	Mg	26.2
16. Sodium (calculated)	Na	8907.0	Na	387.4
17. Iron	Fe	47.5		
18. Barium	Ba	0.0		
19. Strontium	Sr	0.0		
20. Total Hardness (CaCO3)		6385.7		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt	X meq/L	= mg/L
101 *Ca <----- *HCO3	Ca(HCO3)2	81.0	8.4	681
----->	CaSO4	68.1	57.3	3898
26 *Mg -----> *SO4	CaCl2	55.5	35.7	1983
-----<-----/	Mg(HCO3)2	73.2		
387 *Na -----> *Cl	MgSO4	60.2		
+-----+	MgCl2	47.6	26.2	1247
Saturation Values Dist. Water 20 C	NaHCO3	84.0		
CaCO3 13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4	387.4	22641
BaSO4 2.4 mg/L				

REMARKS: Bill Daily
Sales Engineer

Petrolite Oilfield Chemicals Group
Mid-Continent Region
5601 Northwest 72nd, Suite 324
Oklahoma City, OK 73132

Respectfully submitted,

R. Rush Blaz

PETROLITE

Mid-Continent Region
Technical Services
5801 West 10th Street
Great Bend, Kansas 67530
(316) 792-7728

TRETOLITE DIVISION

SCALE TENDENCY REPORT

Company : Wabash Energy
Address :
Lease : Strecker
Well : #7
Sample Pt. :

Date : 07/31/95
Date Sampled : 07/19/95
Analysis No. :
Analyst : R. Rush Blaz

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

S.I. = 1.0 at 80 deg. F or 27 deg. C
S.I. = 1.1 at 100 deg. F or 38 deg. C
S.I. = 1.2 at 125 deg. F or 52 deg. C
S.I. = 1.2 at 150 deg. F or 66 deg. C
S.I. = 1.4 at 180 deg. F or 82 deg. C

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

S = 3519 at 80 deg. F or 27 deg C
S = 3617 at 100 deg. F or 38 deg C
S = 3644 at 125 deg. F or 52 deg C
S = 3616 at 150 deg. F or 66 deg C
S = 3507 at 180 deg. F or 82 deg C

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