Schlumberger

COMPUTER PROCESSED LOG

CASED HOLE RESERVOIR ANALYSIS®

A Synergetic Log System

TIFFAN
EAST LAKE

Company: BLOCKHOUSE ENERGY CORPORATION
Well: LONGSTAFF #13
Field: EAST LAKE
County, State: CHAMPAIN, ILLINOIS USA
Date Logged: 8-5-91
Date Computed: 8-5-91
Date Computed By: 8-5-91
Elevation: 4.780 KB ft ____ GL 4.780 ft ____ DF ____ ft

Log Measured From: CHAMPAIN
Drilling Measured From: KB
Permanent Datum: GL
Elevation: 4.780 ft
Log Measured From: KB 10 ft above Perm. Datum
Drilling Measured From: KB

Run Number: ONE
Depth Driller: 5625
Depth Logger: 5625
Bottom Log Interval: 5625
Top Log Interval: 4500
Casing Driller: 5625
Casing Logger: 5625
Bit Size: 7.875
Type Fluid in Hole: FRESH WATER
Density: 8.34
Viscosity: 28
Fluid Level: FULL
Max Rec. Temp. Deg. F: 120
Equipment Number: 5CNT-H
Location: CHAMPAIN, ILLINOIS
Recorded By: D. SCHMIDT
Witnessed By: MR. BRIAN

The well name Source and Bottom minutes date were furnished by the customer.

The Data Presented Below Is Based On Information Furnished By The Customer For Whom This Report Is Prepared. Schlumberger Makes No Representation As To The Productivity, Proper Operation, Profitability Or Feasibility Of Any Oil, Gas Or Other Mineral Well Or Sand In Connection With Which Such Report Is Used Or Relied Upon. Schlumberger Makes No Warranty Or Guarantee Of Any Kind, Express Or Implied, Including Without Limitation Any Warranty Of Merchantability Or Fitness For A Particular Purpose With Respect To The Services Rendered By Schlumberger In Connection With This Report. This Report Is Subject To Schlumberger's Standard Terms And Conditions.

BIT		BORE HOLE RECORD		CASING & TUBING RECORD			
No		FROM	TO	TYPE	SIZE	WGT	TO
6.7/8		541	3575	5.7/8	10.3	SURFACE	13
				4.1/2		SURFACE	4500
				3.5/8	9.3	SURFACE	3124

Log Type: Cased Hole Reservoir Analysis — Depth Scale: 5.1/4 Inches / 100 Feet — Date Run No: 1
Log Depth: 5625 — Bottom Log Interval: 5625 — Top Log Interval: 4500 — Casing Shoe: 5625
Log Depth Of Fluid Level: Cable Weight: 1.4 — Tension Cable: 2000LBS — Tension Head: 1000LBS

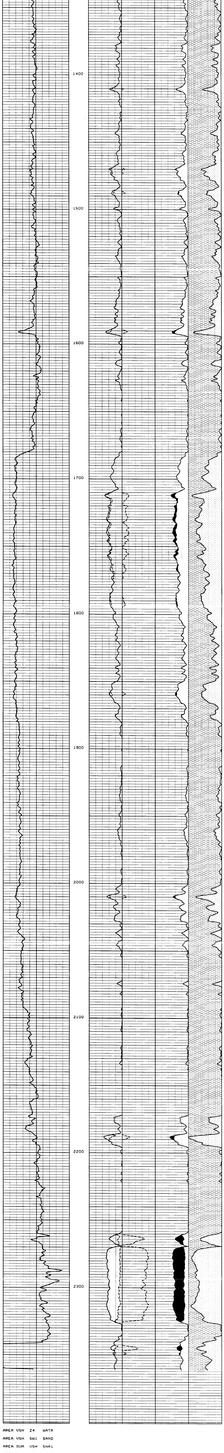
COMPUTATION PARAMETERS

Depth Interval From	To	Surf Temp	Grad	Bott Hole Temp	Fluid Level	Fluid Density	Bott Hole Pressure	Gas Grad	Liquid Grad	Water Cut	Water Salinity
4500	5600	60	0.8	120/210					0.433		8/10
5600	5625								0.433		
5625	3500								0.433		

Water Cut Percents Determined From: COUNT RATES
Water Salinity: NaCl eqv. ppm Fluid Density: g/cc

FORMATION CHARACTERISTICS | DEPTHS | BASE RESERVOIR ANALYSIS: BASE CO2 CHARACTERISTICS, WATER SATURATION, POROSITY AND FLUID ANALYSIS BY VOLUME | FORMATION ANALYSIS

GAMMA RAY API UNITS 0 — 100
SPONTANEOUS POTENTIAL MILLIVOLTS 20 — 80
CO2 INDEX 0 — 1
Pm 0.0 — 3.0
Pmf 0.0 — 3.0
Sw 0.0 — 1.0
Sxo 0.0 — 1.0
Phi 0.0 — 0.3
Phi2 0.0 — 0.3
VSH % 0.0 — 100



MREN VSH	Z4	WATR					
MREN VSH	SAC	SAND					
MREN SUM	VSH	SHAL					
MREN BVW	ZUR	WATR					
MREN BVWC	BVW	MSIL					
MREN PHI2	BVWC	CORL					
MREN PHI1	TPE	GAS					
CURVE YES	SAC	SW	-100.0000	0.0000000E+00	6.750	8.250	LIN SOLID
CURVE YES	VSH	VSH	-100.0000	100.0000	6.750	8.250	LIN SOLID
CURVE YES	SUM	PHI2	-4000.000	4000.000	6.750	8.250	LIN SOLID
CURVE YES	PHI2	PHI2	50.00000	-50.00000	6.750	8.250	LIN SOLID
CURVE YES	BVWC	BVWC	50.00000	-50.00000	6.750	8.250	LIN DASHED
CURVE YES	BVW	BVW	50.00000	-50.00000	6.750	8.250	LIN SOLID
CURVE YES	TPE	TPE	50.00000	-50.00000	3.250	5.750	LIN DASHED
CURVE YES	SAC	SAC	200.0000	0.0000000E+00	3.250	5.750	LIN DASHED
CURVE YES	SW	SW	200.0000	3.0000000E+00	3.250	5.750	LIN SOLID
CURVE YES	PHI1	PHI1E	50.00000	-50.00000	3.250	5.750	LIN SOLID
CURVE YES	SP	SP	-140.0000	10.00000	0.000	2.500	LIN DASHED
CURVE YES	GR	GR	0.0000000E+00	150.0000	0.000	2.500	LIN SOLID