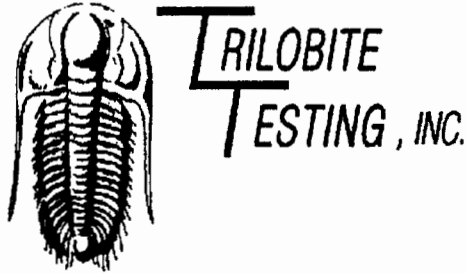


15-053-21128



DRILL STEM TEST REPORT

Prepared For: **Larson Operating Co.**

562 West Highway 4
Olmitz, Ks. 67564-8561

ATTN: Tom Larson

16s
~~20-6s-7w~~

Fleming # 1-20X

Start Date: 2004.06.08 @ 21:42:27

End Date: 2004.06.09 @ 04:33:27

Job Ticket #: 19326 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 28 2004

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Larson Operating Co.

Fleming # 1-20

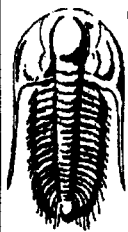
20-~~6s~~-7w

DST # 1

Grand Haven

2004.06.08

16s



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Operating Co.

562 West Highway 4
Olmitz, Ks. 67564-8561

ATTN: Tom Larson

Fleming # 1-20

16
20-~~6e~~-7w

Job Ticket: 19326

DST#: 1

Test Start: 2004.06.08 @ 21:42:27

Tool Information

Drill Pipe:	Length: 1761.00 ft	Diameter: 2.40 inches	Volume: 9.85 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: lb
Drill Collar:	Length: 80.00 ft	Diameter: 2.00 inches	Volume: 0.31 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 10.16 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial lb
Depth to Top Packer:	1848.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.00 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			1827.00	
Shut In Tool	5.00			1832.00	
Sampler	2.00			1834.00	
Hydraulic tool	5.00			1839.00	
Packer	4.00			1843.00	22.00 Bottom Of Top Packer
Packer	5.00			1848.00	
Stubb	1.00			1849.00	
Recorder	0.00	6741	Inside	1849.00	
Perforations	13.00			1862.00	
Recorder	0.00	10248	Outside	1862.00	
Bullnose	2.00			1864.00	16.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Larson Operating Co.
562 West Highway 4
Olmitz, Ks. 67564-8561

Fleming # 1-20

16
20-8s-7w

Job Ticket: 19326

DST#: 1

ATTN: Tom Larson

Test Start: 2004.06.08 @ 21:42:27

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	5	0.50	120.00	906.62
1	10	0.50	140.00	1041.54
1	15	0.50	150.00	1108.99