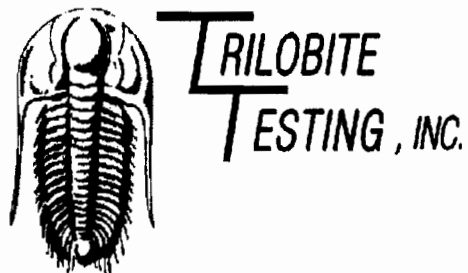


7-14-20

1065



DRILL STEM TEST REPORT

Prepared For: **IA Operating Inc**

9915 W 21st St N Ste B
Wichita Ks 67205

ATTN: Hal Porter

7-14-20-Ellis-Ks

Kohl # 7-1

Start Date: 2008.12.19 @ 20:05:47

End Date: 2008.12.20 @ 01:48:17

Job Ticket #: 34361 DST #: 1

15-051-25848-0000

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

IA Operating Inc
Kohl # 7-1
7-14-20-Ellis-Ks
DST # 1
C-F
LKC
2008.12.19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

IA Operating Inc
9915 W 21st St N Ste B
Wichita Ks 67205
ATTN: Hal Porter

Kohl # 7-1
7-14-20-Ellis-Ks
Job Ticket: 34361 **DST#: 1**
Test Start: 2008.12.19 @ 20:05:47

GENERAL INFORMATION:

Formation: C-F LKC
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:13:17
Time Test Ended: 01:48:17
Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 38
Interval: 3480.00 ft (KB) To 3570.00 ft (KB) (TVD)
Reference Elevations: 2185.00 ft (KB)
Total Depth: 3570.00 ft (KB) (TVD) 2180.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

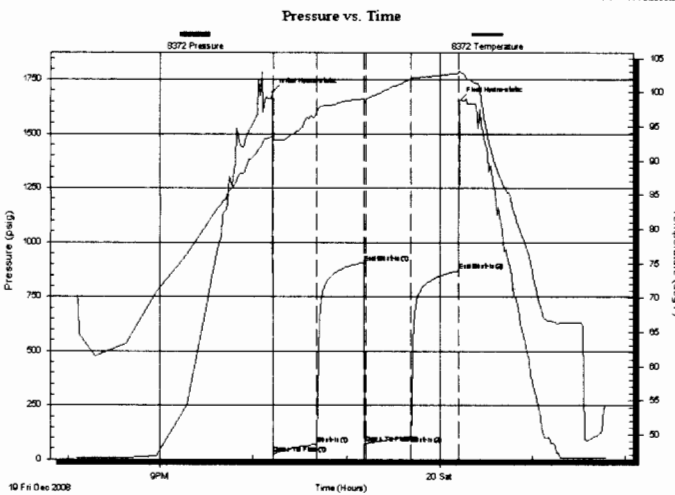
Serial #: 8372

Inside

Press@RunDepth: 107.55 psig @ 3483.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2008.12.19 End Date: 2008.12.20 Last Calib.: 2008.12.20
Start Time: 20:05:48 End Time: 01:48:17 Time On Btm: 2008.12.19 @ 22:12:47
Time Off Btm: 2008.12.20 @ 00:12:47

TEST COMMENT: IF-Weak building to 3"

FF-Weak building to 2 1/2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1691.10	93.62	Initial Hydro-static
1	25.26	92.95	Open To Flow (1)
28	70.39	97.01	Shut-In(1)
59	907.80	99.09	End Shut-In(1)
60	72.45	98.91	Open To Flow (2)
89	107.55	101.85	Shut-In(2)
120	869.34	102.81	End Shut-In(2)
120	1651.58	103.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	Mdy Wtr	1.32
62.00	DM	0.87

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

IA Operating Inc
9915 W 21st St N Ste B
Wichita Ks 67205
ATTN: Hal Porter

Kohl # 7-1
7-14-20-Ellis-Ks
Job Ticket: 34361 **DST#: 1**
Test Start: 2008.12.19 @ 20:05:47

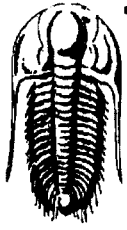
Tool Information

Drill Pipe:	Length: 3452.00 ft	Diameter: 3.80 inches	Volume: 48.42 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 48.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3480.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3460.00	
Shut In Tool	5.00			3465.00	
Hydraulic tool	5.00			3470.00	
Packer	5.00			3475.00	21.00 Bottom Of Top Packer
Packer	5.00			3480.00	
Stubb	1.00			3481.00	
Perforations	1.00			3482.00	
Change Over Sub	1.00			3483.00	
Recorder	0.00	8372	Inside	3483.00	
Recorder	0.00	8368	Outside	3483.00	
Drill Pipe	60.00			3543.00	
Change Over Sub	1.00			3544.00	
Perforations	23.00			3567.00	
Bullnose	3.00			3570.00	90.00 Bottom Packers & Anchor

Total Tool Length: 111.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

IA Operating Inc
9915 W 21st St N Ste B
Wichita Ks 67205
ATTN: Hal Porter

Kohl # 7-1
7-14-20-Ellis-Ks
Job Ticket: 34361 **DST#: 1**
Test Start: 2008.12.19 @ 20:05:47

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	Mdy Wtr	1.319
62.00	DM	0.870

Total Length: 186.00 ft Total Volume: 2.189 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

