

DRILL STEM TEST REPORT

Prepared For: **Yale Oil Association**

6 NE 63rd St STE 425
Oklahoma City, OK. 73105

ATTN: Scott Alberg

Bogacz Smith #1-30

30-15s-13w Russell,KS

Start Date: 2014.01.12 @ 13:49:05

End Date: 2014.01.12 @ 22:05:14

Job Ticket #: 55471 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.01.14 @ 10:22:37

Yale Oil Association 30-15s-13w Russell,KS Bogacz Smith #1-30 DST # 1 LKC A-B 2014.01.12



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Yale Oil Association
 6 NE 63rd St STE 425
 Oklahoma City, OK. 73105
 ATTN: Scott Alberg

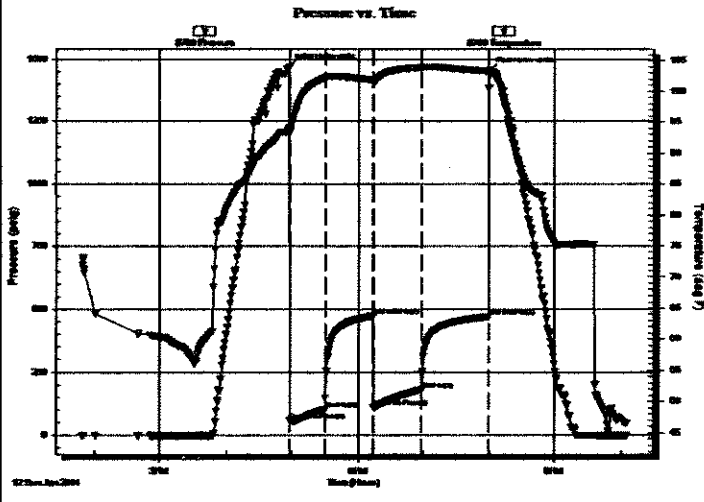
30-15s-13w Russell,KS
Bogacz Smith #1-30
 Job Ticket: 55471 DST#: 1
 Test Start: 2014.01.12 @ 13:49:05

GENERAL INFORMATION:

Formation: **LKC A-B**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 16:58:00 Tester: Tim Phillips
 Time Test Ended: 22:05:14 Unit No: 70
 Interval: **3020.00 ft (KB) To 3054.00 ft (KB) (TVD)** Reference Elevations: 1845.00 ft (KB)
 Total Depth: 3054.00 ft (KB) (TVD) 1835.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 8700 **Inside**
 Press@RunDepth: 181.52 psig @ 3021.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.12 End Date: 2014.01.12 Last Calib.: 2014.01.12
 Start Time: 13:49:05 End Time: 22:05:14 Time On Btm: 2014.01.12 @ 16:57:30
 Time Off Btm: 2014.01.12 @ 20:00:14

TEST COMMENT: IFP-30- BOB in 1 1/2 min
 ISI-45- Blow built to 7"
 FF-45-BOB in 1 1/2 min
 FSI-60-Blow built to 5 1/2"



PRESSURE SUMMARY

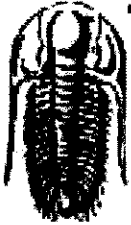
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1469.22	94.00	Initial Hydro-static
1	56.27	93.41	Open To Flow (1)
32	102.02	102.18	Shut-In(1)
77	472.46	101.82	End Shut-In(1)
77	111.80	101.63	Open To Flow (2)
121	181.52	103.86	Shut-In(2)
182	469.94	103.25	End Shut-In(2)
183	1452.39	103.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	GWMCO 15%G 20%M 25%W 40%O	2.67
180.00	OSW 2%O 98%W	2.52
0.00	GIP 567'	0.00

Gas Rates

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



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TOOL DIAGRAM

Yale Oil Association
6 NE 63rd St STE425
Oklahoma City, OK. 73105
ATTN: Scott Alberg

30-15s-13w Russell,KS
Bogacz Smith #1-30
Job Ticket: 55471 **DST#: 1**
Test Start: 2014.01.12 @ 13:49:05

Tool Information

Drill Pipe:	Length: 2993.00 ft	Diameter: 3.80 inches	Volume: 41.98 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 41.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3020.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2993.00	
Shut In Tool	5.00			2998.00	
Hydraulic tool	5.00			3003.00	
Jars	5.00			3008.00	
Safety Joint	2.00			3010.00	
Packer	5.00			3015.00	28.00 Bottom Of Top Packer
Packer	5.00			3020.00	
Stubb	1.00			3021.00	
Recorder	0.00	8700	Inside	3021.00	
Recorder	0.00	8369	Outside	3021.00	
Perforations	30.00			3051.00	
Bullnose	3.00			3054.00	34.00 Bottom Packers & Anchor

Total Tool Length: 62.00



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FLUID SUMMARY

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6 NE 63rd St STE 425
Oklahoma City, OK. 73105
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30-15s-13w Russell,KS
Bogacz Smith #1-30
Job Ticket: 55471 **DST#: 1**
Test Start: 2014.01.12 @ 13:49:05

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	GWMO 15%G 20%M 25%W 40%O	2.665
180.00	OSW 2%O 98%W	2.525
0.00	GIP 567'	0.000

Total Length: 370.00 ft Total Volume: 5.190 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8700

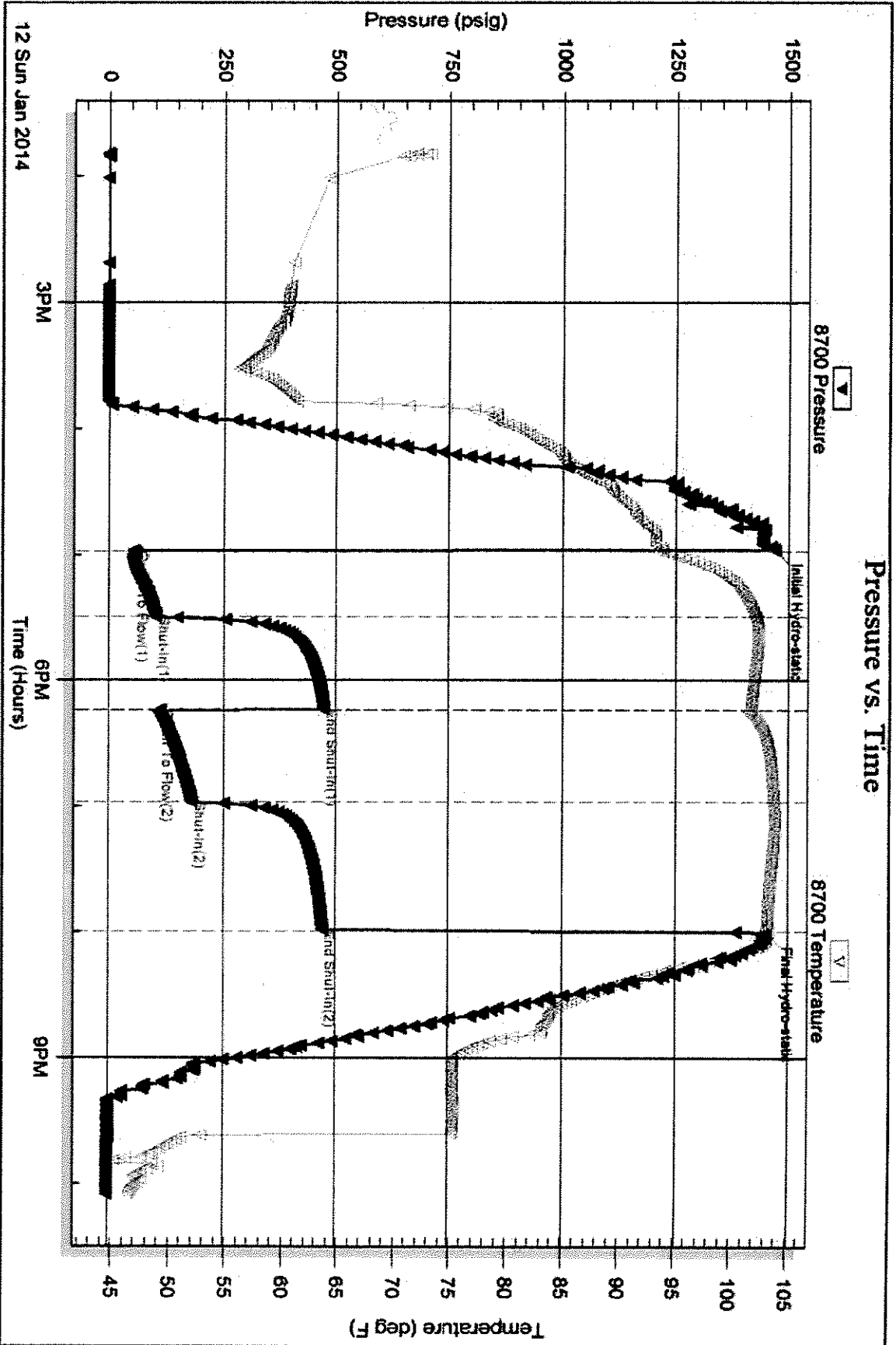
Inside

Yale Oil Association

Bogacz Smith #1-30

DST Test Number: 1

Pressure vs. Time



Triacoba Testing, Inc

Ref. No: 55471

Printed: 2014.01.14 @ 10:22:38



TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55471

Well Name & No. Bogacz Smith #1-30 Test No. 1 Date 01/12/2014
 Company Yale Oil Ass Elevation 1845 KB 1835 GL
 Address 6 NE 63rd St Ste 425 Oklahoma City, OK. 73105
 Co. Rep / Geo. Jim Maggione Scott Alberg Rig VAL 6
 Location: Sec. 30 Twp. 15S Rge. 13W Co. Russell State KS

Interval Tested 3020 - 3054 Zone Tested Aebuckle
 Anchor Length 34' Drill Pipe Run 2993 Mud Wt. 9.1
 Top Packer Depth 3016 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 3020 Wt. Pipe Run 0 WL 7.2
 Total Depth 3054 Chlorides 7200 ppm System LCM T1
 Blow Description IFP - BOB IN 1.5 MIN
ISI - Blow built to 7 IN
FF - BOB IN 1.5 MIN
FSI - Blow built to 5.5 IN

Rec	Feet of	%gas	%oil	%water	%mud
190	Hogem GWMCO	15	40	25	20
180	550W OSW		2	98	
0	GIP 547				

Rec Total 370 BHT 102 Gravity API RW .4 @ 42.2 °F Chlorides 30,000 ppm

(A) Initial Hydrostatic 1469 Test 1150 T-On Location 1135
 (B) First Initial Flow 56 Jars 250 T-Started 1900 1349
 (C) First Final Flow 102 Safety Joint 75 T-Open 1700
 (D) Initial Shut-In 472 Circ Sub _____ T-Pulled 2000
 (E) Second Initial Flow 111 Hourly Standby _____ T-Out 2207
 (F) Second Final Flow 181 Mileage 874 R/T 114.70
 (G) Final Shut-In 469 Sampler _____
 (H) Final Hydrostatic 1452 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1589.70

Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1589.70
 MP/DST Disc't _____

Approved By _____ Our Representative Jim Phillips

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