



DRILL STEM TEST REPORT

Prepared For: **Oil Prod. Inc. of KS**

1710 Waterfront Pkwy
Wichita, KS 67205-6603

ATTN: Paul Gerlach

Hawes Ranch #1B-14

14-28s-23w Ford,KS

Start Date: 2012.08.30 @ 09:02:34

End Date: 2012.08.30 @ 19:52:34

Job Ticket #: 49542 DST #: 1

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

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Oil Prod. Inc. of KS
1710 Waterfront Pkwy
Wichita, KS 67205-6603
ATTN: Paul Gerlach

14-28s-23w Ford,KS
Hawes Ranch #1B-14
Job Ticket: 49542 **DST#: 1**
Test Start: 2012.08.30 @ 09:02:34

GENERAL INFORMATION:

Formation: **SS**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 11:50:34
Time Test Ended: 19:52:34
Interval: **5062.00 ft (KB) To 5120.00 ft (KB) (TVD)**
Total Depth: 5120.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Reynolds
Unit No: 48
Reference Elevations: 2440.00 ft (KB)
2428.00 ft (CF)
KB to GR/CF: 12.00 ft

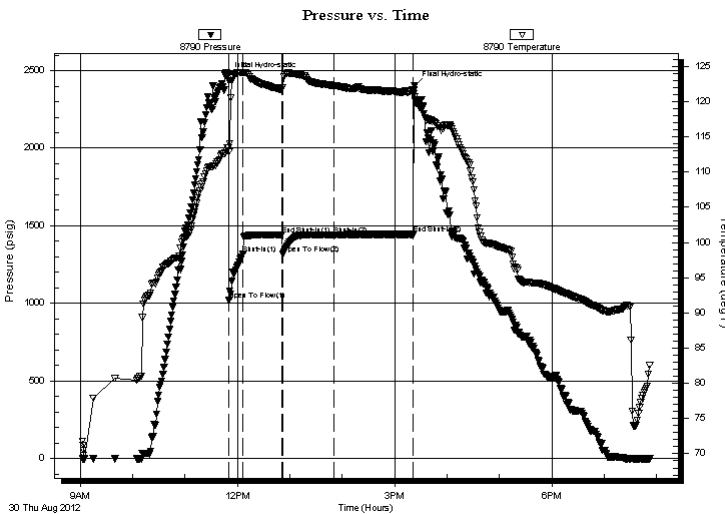
Serial #: 8790

Inside

Press @ Run Depth: 1443.14 psig @ 5065.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.08.30 End Date: 2012.08.30 Last Calib.: 2012.08.30
Start Time: 09:02:39 End Time: 19:52:34 Time On Btm: 2012.08.30 @ 11:48:34
Time Off Btm: 2012.08.30 @ 15:22:49

TEST COMMENT: IF: Strong blow . BOB 30sec. No GTS
IS: Weak 3" BB
FF: Strong blow . BOB 2min. --- 12" @ shutin
FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2461.22	113.42	Initial Hydro-static
2	1020.84	112.87	Open To Flow (1)
18	1320.56	124.11	Shut-In(1)
63	1443.40	121.71	End Shut-In(1)
64	1319.51	121.95	Open To Flow (2)
122	1443.14	122.26	Shut-In(2)
213	1445.00	121.65	End Shut-In(2)
215	2402.28	120.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2410.00	GMW 10%gas, 15%mud, 75%w ater	30.43
700.00	GMW 5%gas, 35%mud, 60%w ater	9.82

Gas Rates

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



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 1710 Waterfront Pkwy
 Wichita, KS 67205-6603
 ATTN: Paul Gerlach

14-28s-23w Ford,KS
Hawes Ranch #1B-14
 Job Ticket: 49542 **DST#: 1**
 Test Start: 2012.08.30 @ 09:02:34

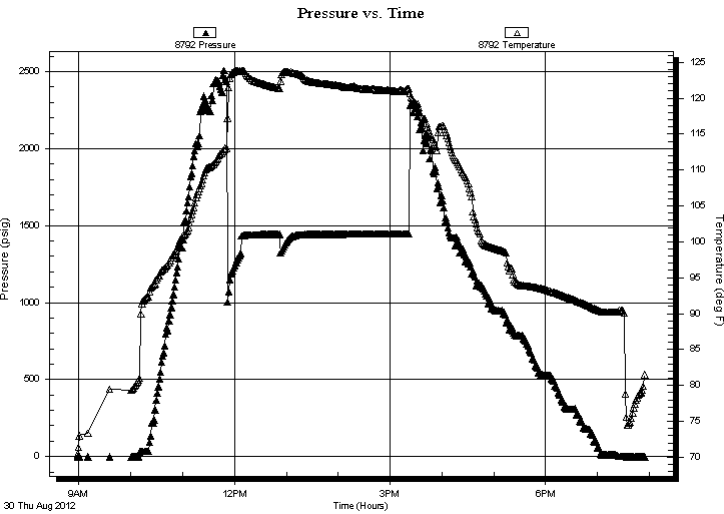
GENERAL INFORMATION:

Formation: **SS**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 11:50:34
 Time Test Ended: 19:52:34
Interval: 5062.00 ft (KB) To 5120.00 ft (KB) (TVD)
 Total Depth: 5120.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 48
 Reference Elevations: 2440.00 ft (KB)
 2428.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8792 Outside

Press @ Run Depth: psig @ 5065.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.30 End Date: 2012.08.30 Last Calib.: 2012.08.30
 Start Time: 08:58:40 End Time: 19:55:20 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong blow . BOB 30sec. No GTS
 IS: Weak 3" BB
 FF: Strong blow . BOB 2min. --- 12" @ shutin
 FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
2410.00	GMW 10%gas, 15%mud, 75%w ater	30.43
700.00	GMW 5%gas, 35%mud, 60%w ater	9.82

Gas Rates

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



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TOOL DIAGRAM

Oil Prod. Inc. of KS
1710 Waterfront Pkwy
Wichita, KS 67205-6603
ATTN: Paul Gerlach

14-28s-23w Ford,KS
Hawes Ranch #1B-14
Job Ticket: 49542 **DST#: 1**
Test Start: 2012.08.30 @ 09:02:34

Tool Information

Drill Pipe:	Length: 4671.00 ft	Diameter: 3.80 inches	Volume: 65.52 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 140000.0 lb
			<u>Total Volume: 67.34 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 103000.0 lb
Depth to Top Packer:	5062.00 ft			Final 124000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	85.00 ft			
Number of Packers:	2	Diameter: 6.50 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			5040.00	
Hydraulic tool	5.00			5045.00	
Jars	5.00			5050.00	
Safety Joint	2.00			5052.00	
Packer	5.00			5057.00	27.00 Bottom Of Top Packer
Packer	5.00			5062.00	
Stubb	1.00			5063.00	
Perforations	2.00			5065.00	
Recorder	0.00	8790	Inside	5065.00	
Recorder	0.00	8792	Outside	5065.00	
Blank Spacing	34.00			5099.00	
Perforations	18.00			5117.00	
Bullnose	3.00			5120.00	58.00 Bottom Packers & Anchor

Total Tool Length: 85.00



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FLUID SUMMARY

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Wichita, KS 67205-6603
ATTN: Paul Gerlach

14-28s-23w Ford,KS
Hawes Ranch #1B-14
Job Ticket: 49542 **DST#: 1**
Test Start: 2012.08.30 @ 09:02:34

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:	94000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4700.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2410.00	GMW 10%gas, 15%mud, 75%w ater	30.426
700.00	GMW 5%gas, 35%mud, 60%w ater	9.819

Total Length: 3110.00 ft Total Volume: 40.245 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
Laboratory Name: Laboratory Location:
Recovery Comments:

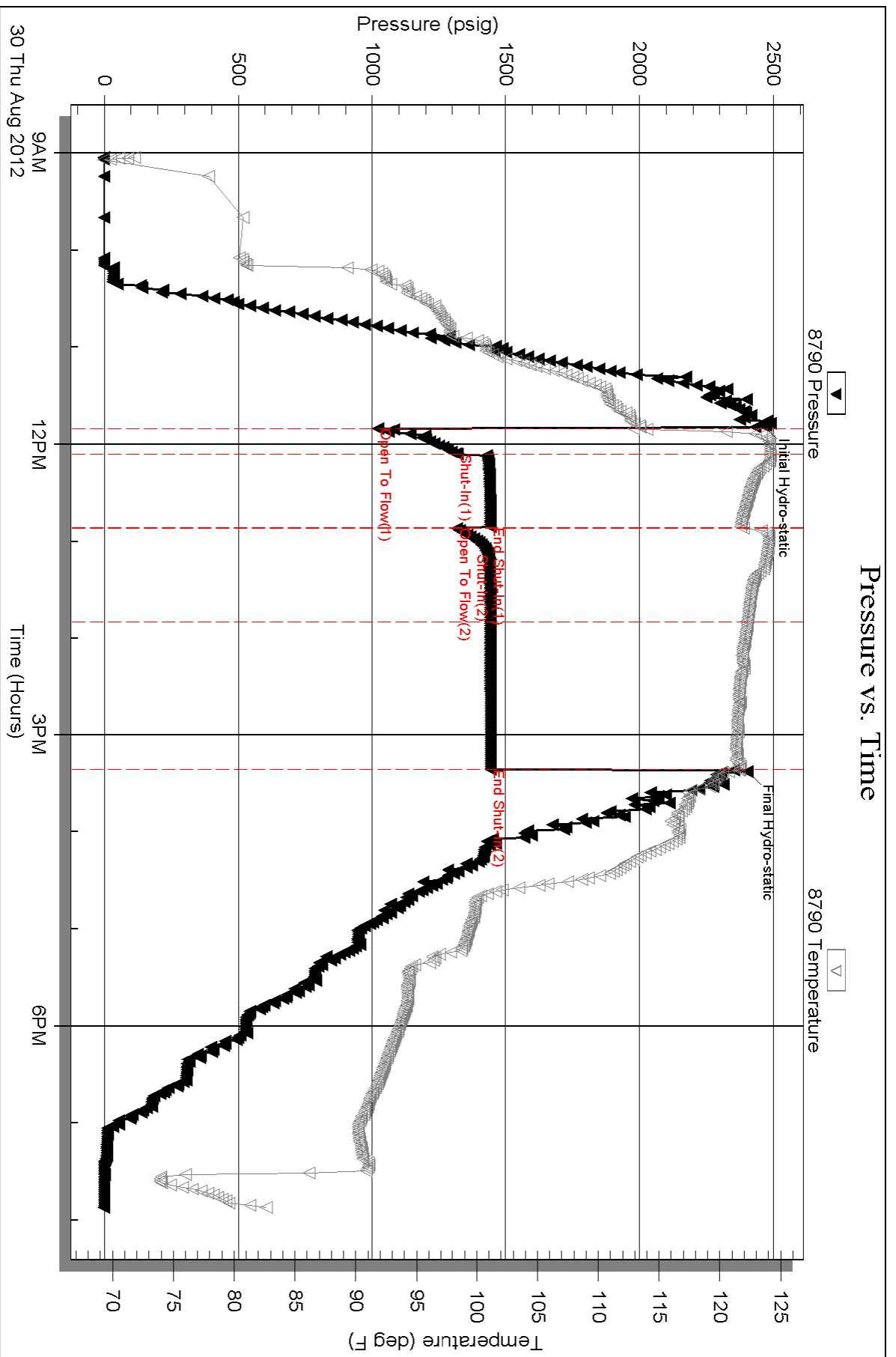
Serial #: 8790

Inside

Oil Prod. Inc. of KS

Hawes Ranch #1B-14

DST Test Number: 1

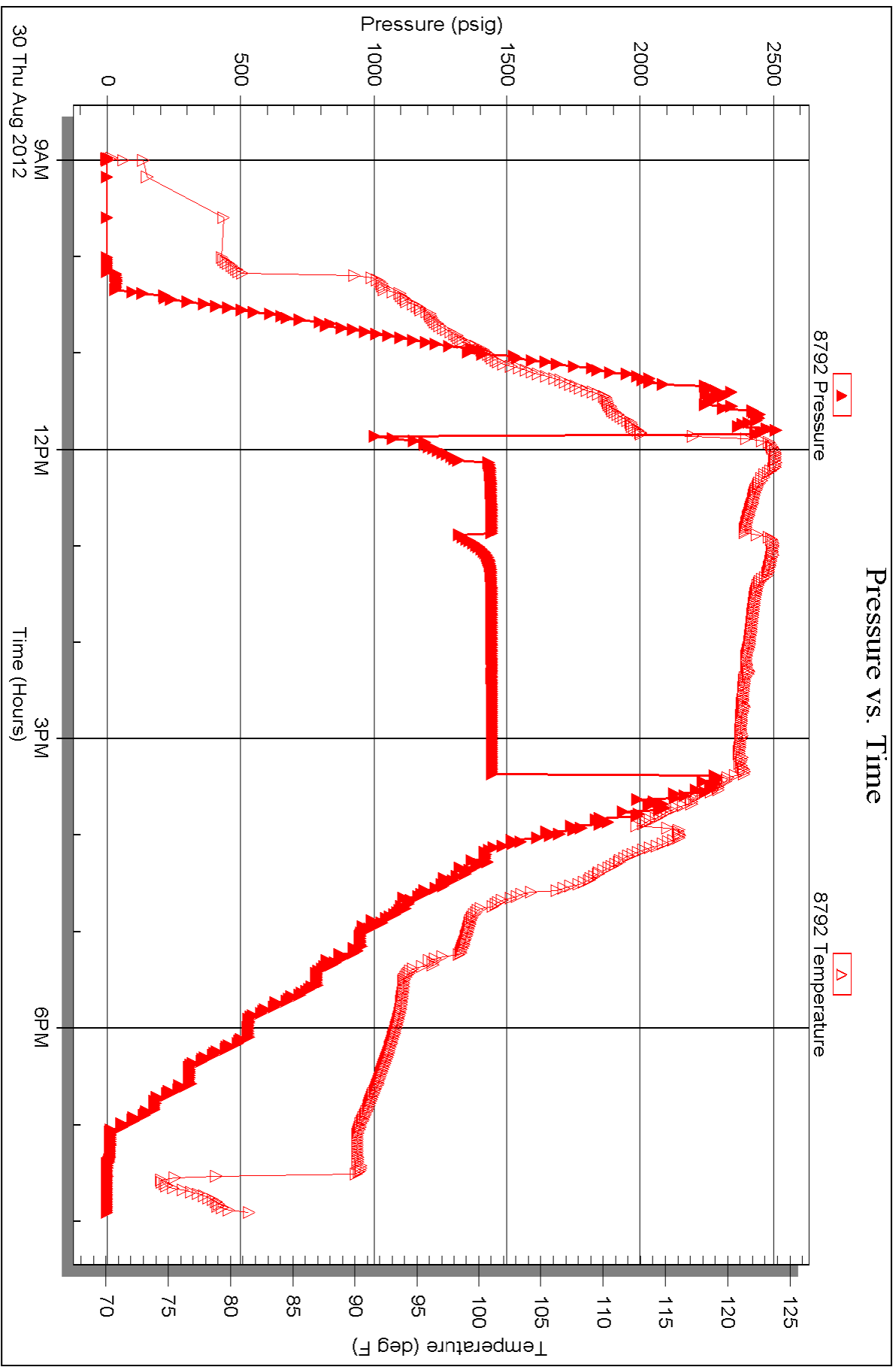


Serial #: 8792

Outside Oil Prod. Inc. of KS

Hawes Ranch #1B-14

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49542

4/10

Well Name & No. Hawes Ranch #1B-14 Test No. 1 Date 8-30-12
 Company Oil Producers Inc. of Kansas Elevation 2440 KB 2428 GL
 Address 1710 Waterfront Pkwy Wichita, KS 67205-6603
 Co. Rep / Geo. Paul Gerlach Rig Duke #6
 Location: Sec. 14 Twp. 28s Rge. 23w Co. Ford State KS

Interval Tested 5062-5120 Zone Tested 55
 Anchor Length 58 Drill Pipe Run 4671 Mud Wt. 9.0
 Top Packer Depth 5057 Drill Collars Run 370.82 Vis 58
 Bottom Packer Depth 5062 Wt. Pipe Run Ø WL 8.0
 Total Depth 5120 Chlorides 4700 ppm System LCM 3#

Blow Description IF= Strong blow - BOB 30 sec. No GTS ISI= Weak
3" BB
EF= Strong blow. B.O.B. 2 mins. - 12" @ shut in
FST= No blow

Rec	Feet of	%gas	%oil	%water	%mud
280	GFP				
700	GMW	5	60	35	
2410	GMW	10	75	15	

Rec Total 3390 BHT 122 Gravity N/C API RW 09 @ 65 °F Chlorides 94000 ppm

(A) Initial Hydrostatic 2461 Test 1350 T-On Location 0715
 (B) First Initial Flow 1021 Jars 250 T-Started 0902
 (C) First Final Flow 1321 Safety Joint 75 T-Open 1150
 (D) Initial Shut-In 1443 Circ Sub _____ T-Pulled 1522
 (E) Second Initial Flow 1320 Hourly Standby 1 1/2 150 T-Out 1952
 (F) Second Final Flow 1443 Mileage 140 217
 (G) Final Shut-In 1445 Sampler _____
 (H) Final Hydrostatic 2402 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 2042
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2042

Approved By _____ Our Representative Ryan Reynolds
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