



DRILL STEM TEST REPORT

Prepared For: **Berexco LLC.**

2020 N. Bramblewood
Wichita, KS 67202

ATTN: Bryan Bynog

Ivalee #1-16

16-1s-37w Cheyenne,KS

Start Date: 2013.04.06 @ 09:55:00

End Date: 2013.04.06 @ 20:47:00

Job Ticket #: 50651 DST #: 4

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

Printed: 2013.04.09 @ 08:43:50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC.
2020 N. Bramblewood
Wichita, KS 67202
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16-1s-37w Cheyenne,KS

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Job Ticket: 50651

DST#: 4

Test Start: 2013.04.06 @ 09:55:00

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:56:30
 Time Test Ended: 20:47:00
 Interval: **4540.00 ft (KB) To 4580.00 ft (KB) (TVD)**
 Total Depth: 4580.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: 61
 Unit No: Chuck Kreuzer
 Reference Elevations: 3196.00 ft (KB)
 3186.00 ft (CF)
 KB to GR/CF: 10.00 ft

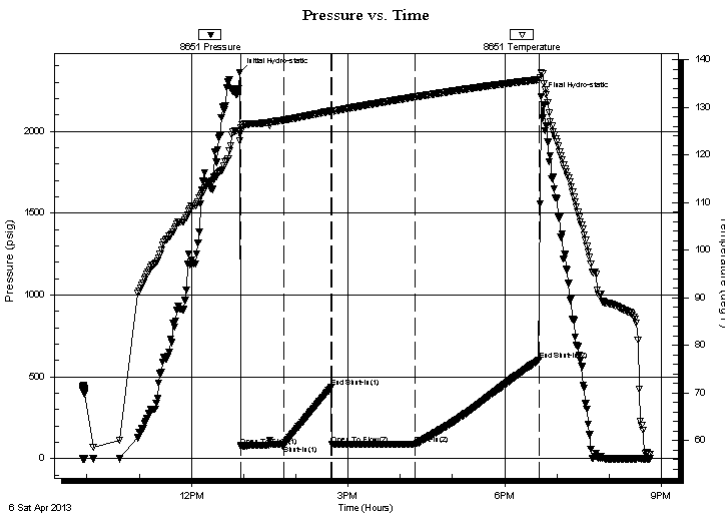
Serial #: 8651

Outside

Press @ Run Depth: 86.50 psig @ 4541.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.06 End Date: 2013.04.06 Last Calib.: 2013.04.06
 Start Time: 09:55:01 End Time: 20:47:00 Time On Btm: 2013.04.06 @ 12:55:30
 Time Off Btm: 2013.04.06 @ 18:42:00

TEST COMMENT: IF: Weak blow 3" died in 30 mins.
 IS: No blow back
 FF: No blow
 FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2360.30	123.00	Initial Hydro-static
1	75.78	124.76	Open To Flow (1)
50	81.63	127.25	Shut-In(1)
105	434.42	129.20	End Shut-In(1)
106	87.95	129.11	Open To Flow (2)
202	86.50	132.15	Shut-In(2)
344	603.77	135.80	End Shut-In(2)
347	2211.85	137.31	Final Hydro-static

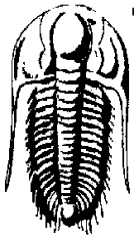
Recovery

Length (ft)	Description	Volume (bbl)
1.00	oil-100%o- on top of tool	0.00
70.00	mud-100%m	0.34

* Recovery from multiple tests

Gas Rates

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



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DST#: 4

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Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:56:30

Time Test Ended: 20:47:00

Test Type: Conventional Bottom Hole (Reset)

Tester: 61

Unit No: Chuck Kreuzer

Interval: 4540.00 ft (KB) To 4580.00 ft (KB) (TVD)

Reference Elevations: 3196.00 ft (KB)

Total Depth: 4580.00 ft (KB) (TVD)

3186.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8791

Inside

Press @ Run Depth: psig @ 4541.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.06

End Date:

2013.04.06

Last Calib.:

1899.12.30

Start Time: 09:55:01

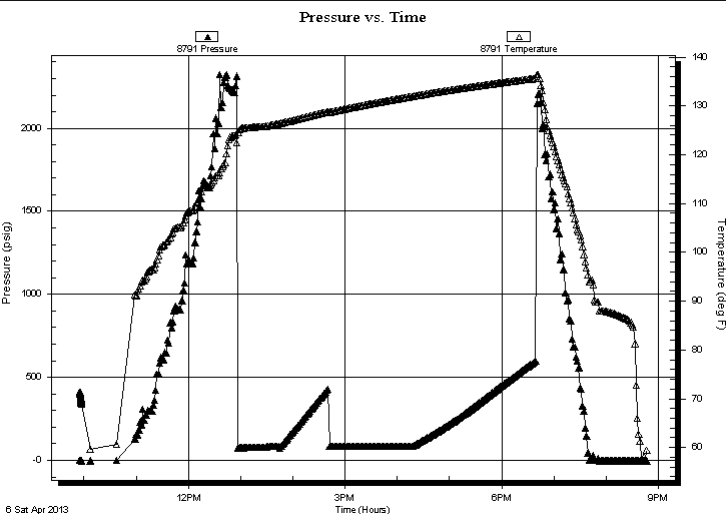
End Time:

20:47:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak blow 3" died in 30 mins.
IS: No blow back
FF: No blow
FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	oil-100%o- on top of tool	0.00
70.00	mud-100%m	0.34

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Berexco LLC.

16-1s-37w Cheyenne,KS

2020 N. Bramblewood
Wichita, KS 67202

Ivaley #1-16

Job Ticket: 50651

DST#: 4

ATTN: Bryan Bynog

Test Start: 2013.04.06 @ 09:55:00

Tool Information

Drill Pipe:	Length: 3925.00 ft	Diameter: 3.80 inches	Volume: 55.06 bbl	Tool Weight: 2500.00 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: 592.00 ft	Diameter: 2.25 inches	Volume: 2.91 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.97 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4540.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.25 inches		

Tool Comments: Had 18' of fill. Put weight on tool, Pushed through. tool didn't open on slide. tool opened. Got to 3".w ithin sec. and then stopped blowing and started to die. After 30 mins. Flushed tool had a few bubbles and then weak surface on and off.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4517.00	
Hydraulic tool	5.00			4522.00	
Jars	5.00			4527.00	
Safety Joint	3.00			4530.00	
Packer	5.00			4535.00	28.00 Bottom Of Top Packer
Packer	5.00			4540.00	
Stubb	1.00			4541.00	
Recorder	0.00	8791	Inside	4541.00	
Recorder	0.00	8651	Outside	4541.00	
Perforations	1.00			4542.00	
change Over Sub	1.00			4543.00	
Drill Pipe	31.00			4574.00	
Change Over Sub	1.00			4575.00	
Perforations	2.00			4577.00	
Bullnose	3.00			4580.00	40.00 Bottom Packers & Anchor

Total Tool Length: 68.00



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FLUID SUMMARY

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2020 N. Bramblewood
Wichita, KS 67202

Ivaley #1-16

Job Ticket: 50651

DST#: 4

ATTN: Bryan Bynog

Test Start: 2013.04.06 @ 09:55:00

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:

bbbl

Water Loss: 8.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	oil-100%o- on top of tool	0.005
70.00	mud-100%m	0.344

Total Length: 71.00 ft Total Volume: 0.349 bbl

Num Fluid Samples: 0

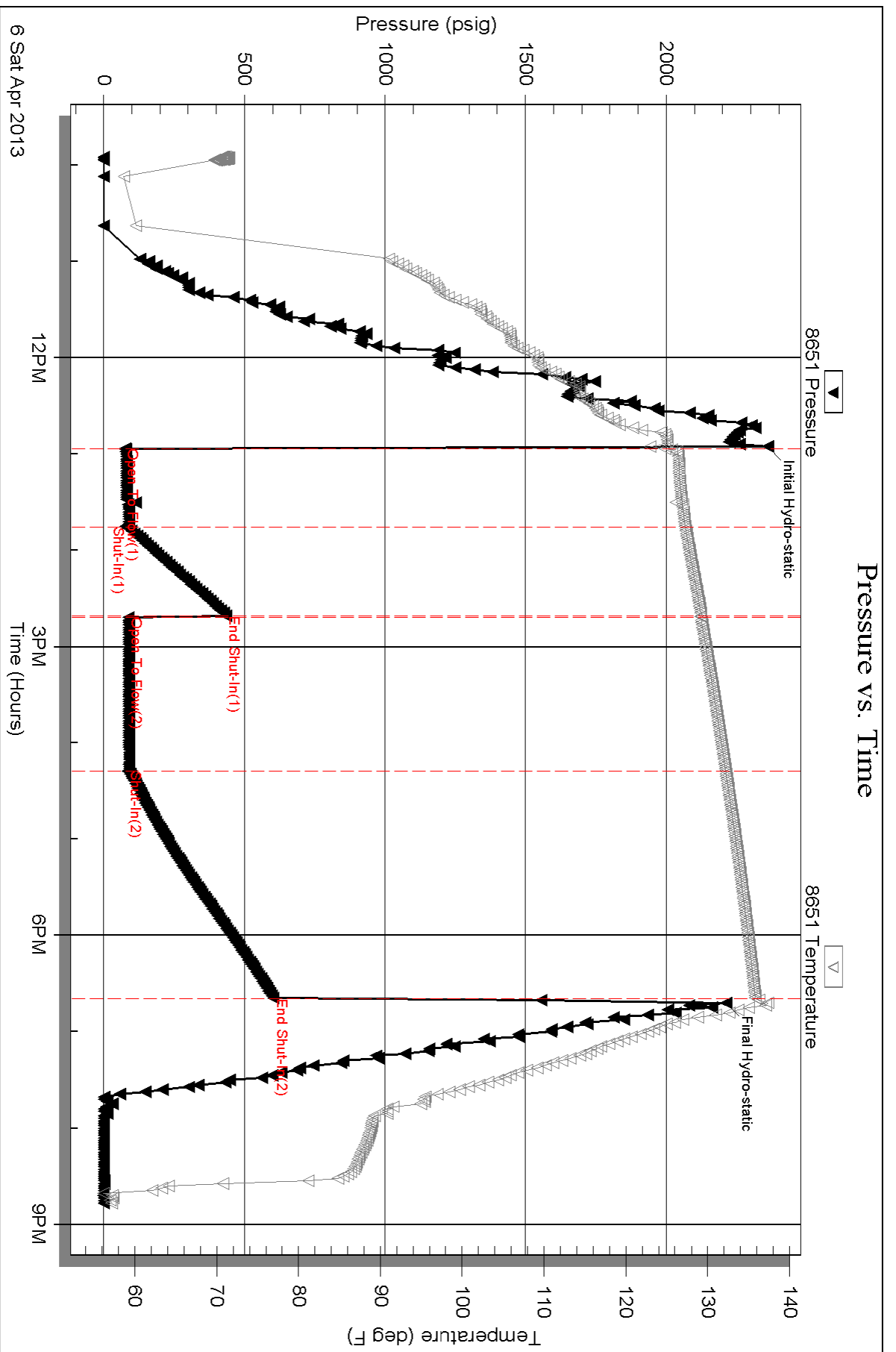
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



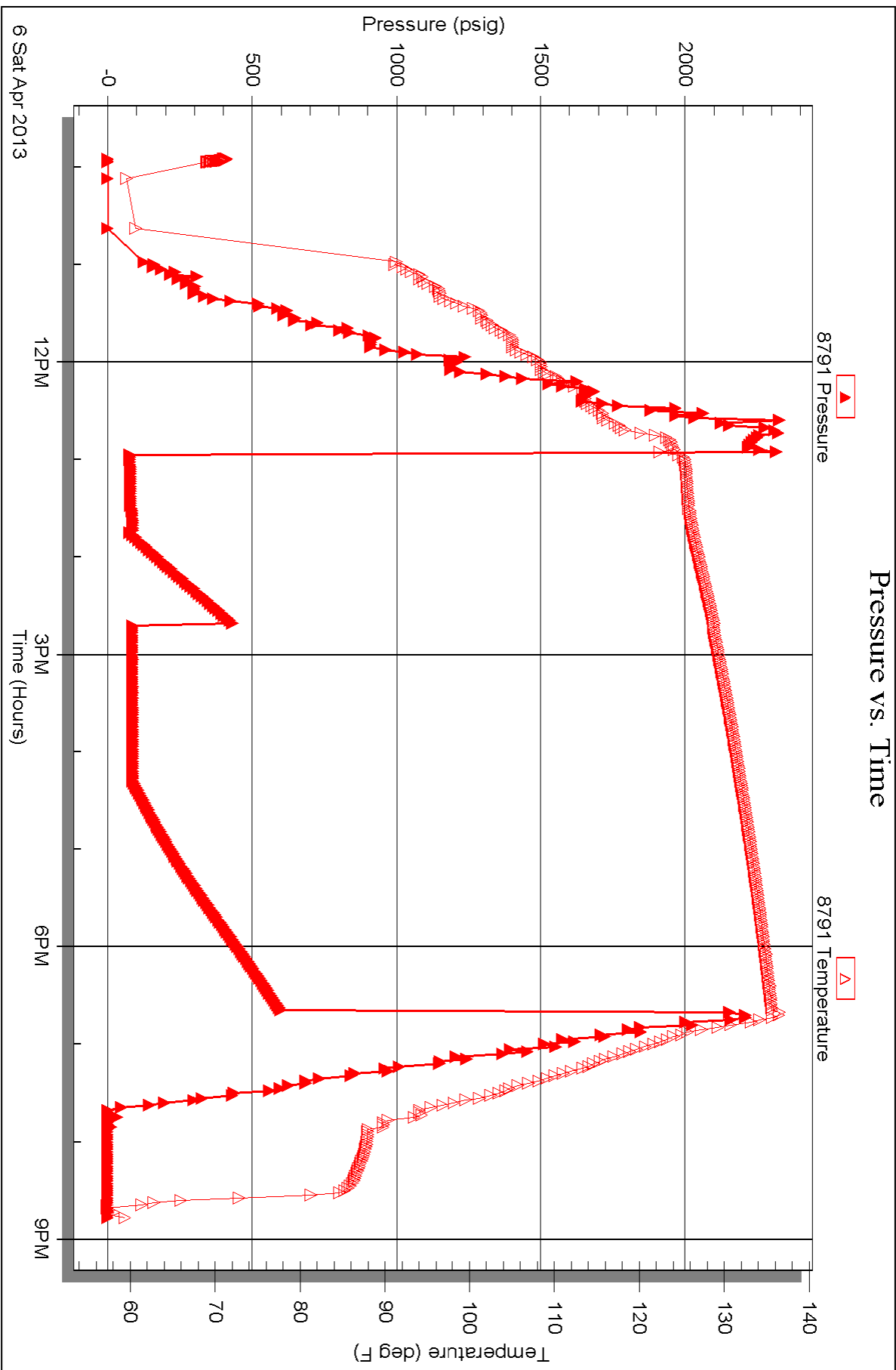
Serial #: 8791

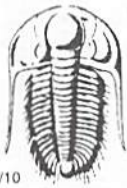
Inside

Berexco LLC.

Walee #1-16

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50651

Well Name & No. IValee#1-16 Test No. 4 Date 04-06-13
 Company Berexco LLC Elevation 3196 KB 3186 GL
 Address 1
 Co. Rep / Geo. Bryan Bynog Rig Berexco #10
 Location: Sec. 16 Twp. 15 Rge. 3W Co. Dundy State Ne

Interval Tested 4540 4580 Zone Tested Pawnee
 Anchor Length 40 Drill Pipe Run _____ Mud Wt. 9.4
 Top Packer Depth 4535 Drill Collars Run 592 Vis 50
 Bottom Packer Depth 4540 Wt. Pipe Run -0 WL 8.6
 Total Depth 4580 Chlorides 2400 ppm System LCM none

Blow Description Had 18 ft. fill, ~~put~~ put weight on tool, pushed through, without opening tool on slide
IF: 3 in. blow in 3 min. Blow did not build, started to die, flushed tool after 30 mins. Went surface blow for 10 min
FSI: No blow back
FF: No blow back FSI: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
70	Mud				100%
1	oil		100%		

Rec Total 71 BHT 132 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2360</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>9:40</u>
(B) First Initial Flow <u>76</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>9:55</u>
(C) First Final Flow <u>82</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>12:56</u>
(D) Initial Shut-In <u>434</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>18:20</u>
(E) Second Initial Flow <u>88</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>20:47</u>
(F) Second Final Flow <u>87</u>	<input checked="" type="checkbox"/> Mileage 241.80	Comments _____
(G) Final Shut-In <u>604</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2112</u>	<input type="checkbox"/> Straddle _____	
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Extra Packer _____	<input checked="" type="checkbox"/> Ruined Packer 320
	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Day Standby _____	Sub Total 320
	<input type="checkbox"/> Accessibility _____	Total 2136.80
	Sub Total 1816.80	MP/DST Disc't _____

Approved By _____ Our Representative Chuck [Signature]

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