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KANSAS CORPORATION COMMISSION

AUG 07 2001

CONSERVATION DIVISION  
WICHITA, KS

15-055-21744



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Presco Western LLC  
KCC**

**ORIGINAL** AUG 05 2001

**CONFIDENTIAL**

ATTN: Presco Western LLS

**CONFIDENTIAL**  
31-23s-33w Finney, Ks  
Larson 1-731

31-23s-33w  
Finney County

Start Date: 2001.04.28 @ 12:35:00

End Date: 2001.04.28 @ 23:10:00

Job Ticket #: 13712      DST #: 1

**Release  
NOV 04 2003  
From  
Confidential**

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

Presco Western LLC

Larson 1-731

31-23s-33w Finney, Ks

DST # 1

morrow sand

2001.04.28



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Presco Western LLC

Larson 1-731

31-23s-33w Finney, Ks

Job Ticket: 13712

DST#: 1

ATTN: Presco Western LLS

Test Start: 2001.04.28 @ 12:35:00

## GENERAL INFORMATION:

Formation: **morrow sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:32:24

Time Test Ended: 23:10:00

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 15

Interval: **4722.00 ft (KB) To 4752.00 ft (KB) (TVD)**

Reference Elevations: 2919.00 ft (KB)

Total Depth: 4752.00 ft (KB) (TVD)

2909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 2346

Inside

Press@RunDepth: 957.88 psig @ 4718.00 ft (KB)

Start Date: 2001.04.28

End Date:

2001.04.28

Start Time: 12:36:29

End Time:

23:05:24

Capacity: 7000.00 psig

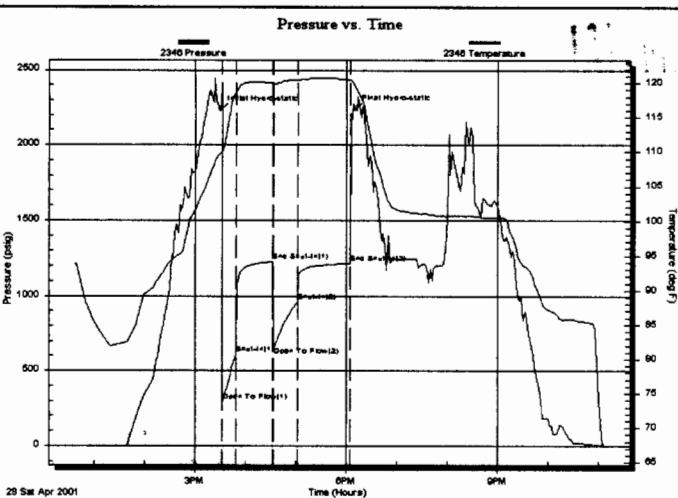
Last Calib.: 2001.01.01

Time On Btm: 2001.04.28 @ 15:29:24

Time Off Btm: 2001.04.28 @ 18:09:24

## TEST COMMENT:

CONFIDENTIAL



## PRESSURE SUMMARY

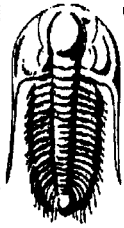
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2230.61	109.78	Initial Hydro-static
3	288.99	109.98	Open To Flow (1)
19	607.28	118.71	Shut-In(1)
62	1224.94	119.99	End Shut-In(1)
64	653.29	119.93	Open To Flow (2)
92	957.88	120.46	Shut-In(2)
155	1212.85	120.48	End Shut-In(2)
160	2233.62	119.58	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	c g o 20g 80o	0.59
2960.00	c g o reversed out 25g 75o	36.43
120.00	under circ sub m c g o 10g 60o 30 m	1.68

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Presco Western LLC

Larson 1-731

31-23s-33w Finney, Ks

Job Ticket: 13712

DST#: 1

ATTN: Presco Western LLS

Test Start: 2001.04.28 @ 12:35:00

**Tool Information**

Drill Pipe:	Length: 4046.00 ft	Diameter: 3.80 inches	Volume: 56.75 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: 30000.00 lb
Drill Collar:	Length: 679.00 ft	Diameter: 2.25 inches	Volume: 3.34 bbl	Weight to Pull Loose: 110000.0 lb
			Total Volume: 60.09 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	37.00 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	4717.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		
Tool Comments:				

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**AUG 06 2001**

**ORIGINAL CONFIDENTIAL**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4689.00	
S.I. Tool	5.00			4694.00	
HMV	5.00			4699.00	
Jars	5.00			4704.00	
Safety Joint	2.00			4706.00	
Extension Sub	1.00			4707.00	
Packer	5.00			4712.00	29.00 Bottom Of Top Packer
Packer	5.00			4717.00	
Stubb	1.00			4718.00	
Recorder	0.00	2346	Inside	4718.00	
Anchor	24.00			4742.00	
Recorder	0.00	11058	Outside	4742.00	
Bullnose	5.00			4747.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 59.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Presco Western LLC

Larson 1-731

31-23s-33w Finney, Ks

Job Ticket: 13712

DST#: 1

ATTN: Presco Western LLS

Test Start: 2001.04.28 @ 12:35:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

### Recovery Table

Length ft	Description	Volume bbf
120.00	c g o 20g 80o	0.590
2960.00	c g o reversed out 25g 75o	36.429
120.00	under circ sub m c g o 10g 60o 30 m	1.683

Total Length: 3200.00 ft      Total Volume: 38.702 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: B.O.B. in 3 1/2 min died back to a weak surface  
weak surface return in 4 (w indy)

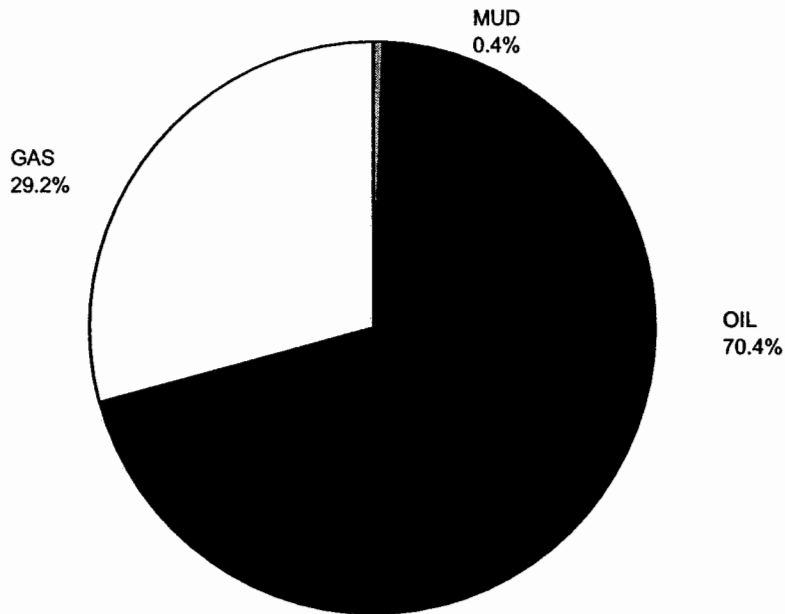
CALCULATED RECOVERY ANALYSIS

DST 1

TICKET 13712

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL	1	180	100	180	0	0	0	0	0
PIPE	2	120	20	24	80	96	0	0	0
	3	2373	25	593.25	75	1779.75	0	0	0
	4	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0
WEIGHT	1	0	0	0	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0
DRILL	1	587	25	146.75	75	440.25	0	0	0
COLLARS	2	120	10	12	60	72	0	30	36
	3	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0
TOTAL		3380	0	956	0	2388	0	0	36

BBL OIL= 29.178068 \* HRS OPEN 0.75 = BBL/DAY 933.69816  
 BBL WATER= 0 \* = 0  
 BBL MUD= 0.17604  
 BBL GAS = 12.113183



Serial #: 2346

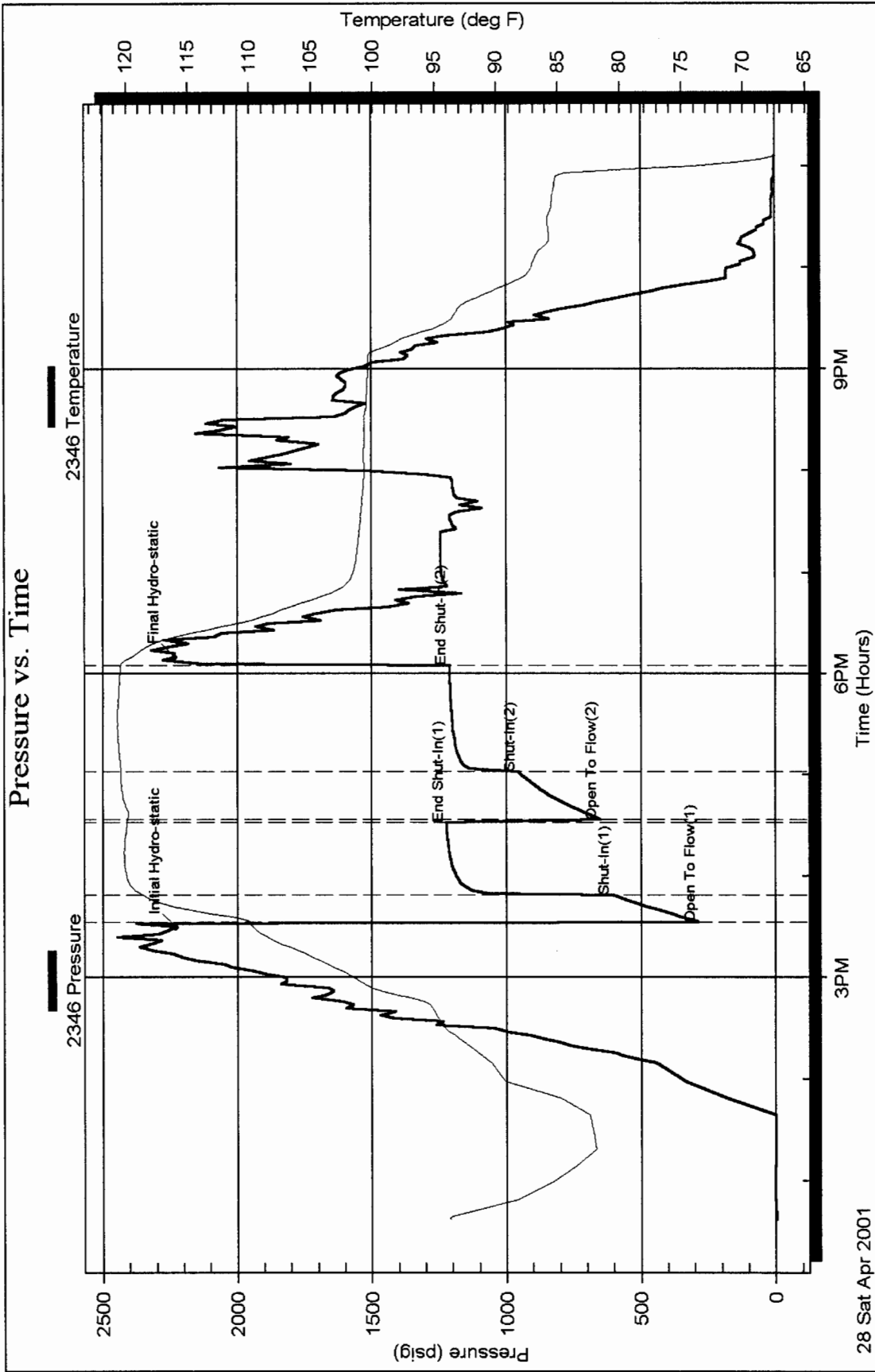
Inside

Presco Western LLC

31-23s-33w Finney,Ks

DST Test Number: 1

### Pressure vs. Time



28 Sat Apr 2001

3PM

6PM

9PM