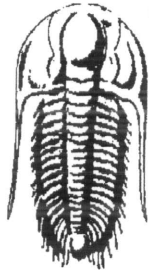


7-9-21w



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

CONFIDENTIAL

PO Box 352
Russell Ks 67665

ORIGINAL

KCC

ATTN: John O Farmer IV

AUG 23 2005

7-9s-21w Graham

Cooley #1

RECEIVED

AUG 24 2005

KCC WICHITA

Start Date: 2005.07.28 @ 08:51:26

End Date: 2005.07.28 @ 14:10:25

Job Ticket #: 23828 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer Inc

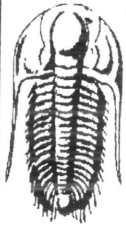
Cooley #1

7-9s-21w Graham

DST # 1

LKC "C"

2005.07.28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer Inc
 PO Box 352
 Russell Ks 67665
 ATTN: John O Farmer IV

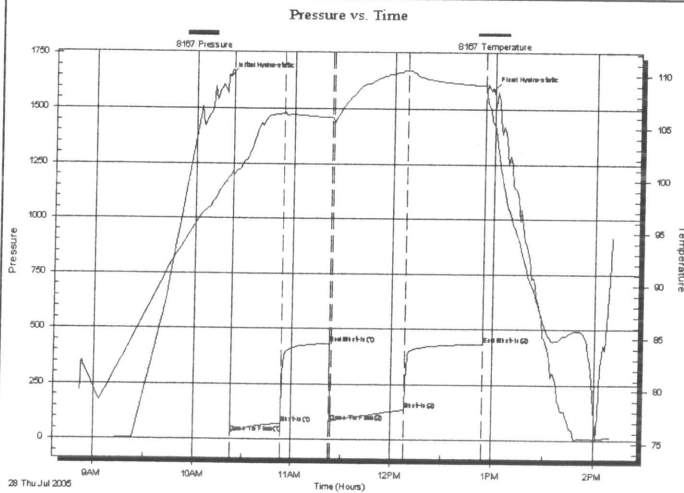
Cooley #1
7-9s-21w Graham
 Job Ticket: 23828 **DST#: 1**
 Test Start: 2005.07.28 @ 08:51:26

GENERAL INFORMATION:

Formation: **LKC "C"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 10:22:55
 Time Test Ended: 14:10:25
 Interval: **3471.00 ft (KB) To 3500.00 ft (KB) (TVD)**
 Total Depth: 3500.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Ray Schwager
 Unit No: 28
 Reference Elevations: 2234.00 ft (KB)
 2226.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8167 **Inside**
 Press@RunDepth: 134.51 psig @ 3472.01 ft (KB) Capacity: 7000.00 psig
 Start Date: 2005.07.28 End Date: 2005.07.28
 Start Time: 08:51:26 End Time: 14:10:25
 Last Calib.: 2005.07.28
 Time On Btm: 2005.07.28 @ 10:20:25
 Time Off Btm: 2005.07.28 @ 12:58:55

TEST COMMENT: IFP-w k to fr bl 1/4" to 5" bl
 FFP-w k bl thru-out 1/4" to 1 1/2" bl
 Times 30-30-45-45
 ISIP-no bl bk FSIP-no bl bk



PRESSURE SUMMARY

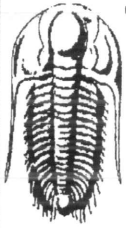
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1647.87	100.29	Initial Hydro-static
3	26.59	100.58	Open To Flow (1)
33	71.75	106.25	Shut-In(1)
63	433.49	106.03	End Shut-In(1)
64	81.08	105.71	Open To Flow (2)
108	134.51	110.47	Shut-In(2)
154	432.81	109.08	End Shut-In(2)
159	1589.46	105.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	SOCMW 1%O 40%M 59%W	0.64
180.00	Water RW.07@75F	2.52

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Cooley #1

PO Box 352
Russell Ks 67665

7-9s-21w Graham

Job Ticket: 23828

DST#: 1

ATTN: John O Farmer IV

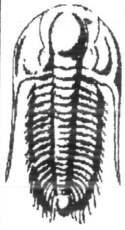
Test Start: 2005.07.28 @ 08:51:26

Tool Information

Drill Pipe:	Length: 3426.00 ft	Diameter: 3.80 inches	Volume: 48.06 bbl	Tool Weight: 2200.00 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: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.21 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3471.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.02 ft			
Tool Length:	50.02 ft			
Number of Packers:	2	Diameter: 675.00 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3451.00	
Shut In Tool	5.00			3456.00	
Hydraulic tool	5.00			3461.00	
Packer	5.00			3466.00	21.00 Bottom Of Top Packer
Packer	5.00			3471.00	
Stubb	1.00			3472.00	
Recorder	0.01	8167	Inside	3472.01	
Perforations	25.00			3497.01	
Recorder	0.01	13534	Outside	3497.02	
Bullnose	3.00			3500.02	29.02 Bottom Packers & Anchor
Total Tool Length:	50.02				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Cooley #1

PO Box 352
Russell Ks 67665

7-9s-21w Graham

Job Ticket: 23828

DST#: 1

ATTN: John O Farmer IV

Test Start: 2005.07.28 @ 08:51:26

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:

95000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	SOCMV 1%O 40%M 59%W	0.638
180.00	Water RW.07@75F	2.525

Total Length: 245.00 ft

Total Volume: 3.016 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

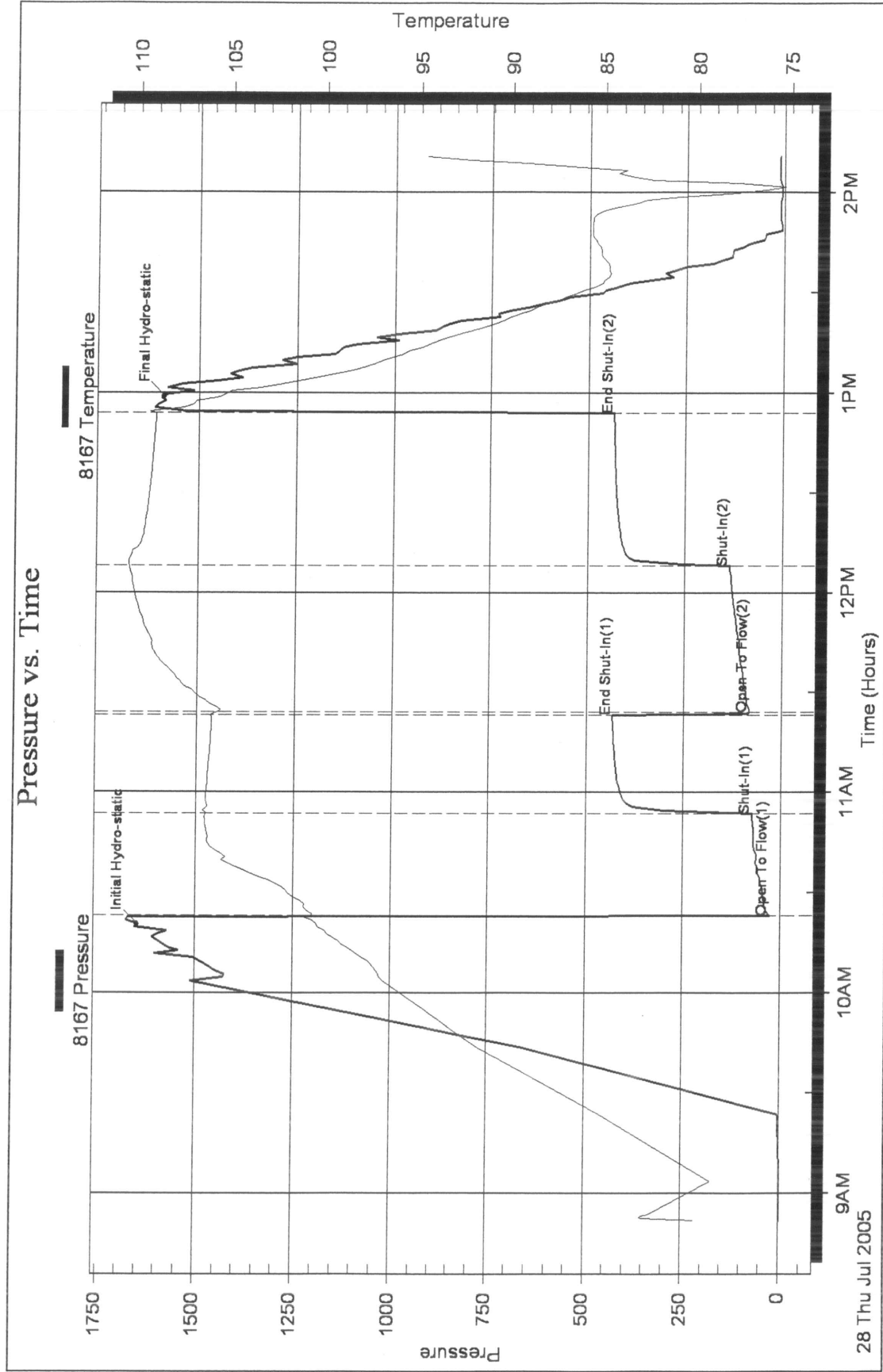
Serial #: 8167

Inside

John O Farmer Inc

7-9s-21w Graham

DST Test Number: 1



7-9-21w



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell Ks 67665

ATTN: John O Farmer IV

7-9s-21w Graham

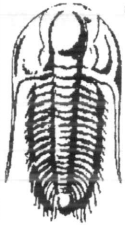
Cooley #1

Start Date: 2005.07.28 @ 20:22:56

End Date: 2005.07.29 @ 01:23:25

Job Ticket #: 23829 DST #: 2

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Cooley #1

PO Box 352
Russell Ks 67665

7-9s-21w Graham

Job Ticket: 23829

DST#: 2

ATTN: John O Farmer IV

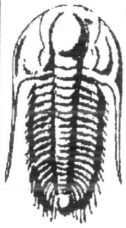
Test Start: 2005.07.28 @ 20:22:56

Tool Information

Drill Pipe:	Length: 3490.00 ft	Diameter: 3.80 inches	Volume: 48.96 bbl	Tool Weight: 2200.00 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: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 49.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3515.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.02 ft			
Tool Length:	51.02 ft			
Number of Packers:	2	Diameter: 675.00 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3495.00	
Shut In Tool	5.00			3500.00	
Hydraulic tool	5.00			3505.00	
Packer	5.00			3510.00	21.00 Bottom Of Top Packer
Packer	5.00			3515.00	
Stubb	1.00			3516.00	
Recorder	0.01	8167	Inside	3516.01	
Perforations	26.00			3542.01	
Recorder	0.01	13534	Outside	3542.02	
Bullnose	3.00			3545.02	30.02 Bottom Packers & Anchor
Total Tool Length:	51.02				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Cooley #1

PO Box 352
Russell Ks 67665

7-9s-21w Graham

Job Ticket: 23829

DST#: 2

ATTN: John O Farmer IV

Test Start: 2005.07.28 @ 20:22:56

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.95 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	mud	0.358

Total Length: 45.00 ft Total Volume: 0.358 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

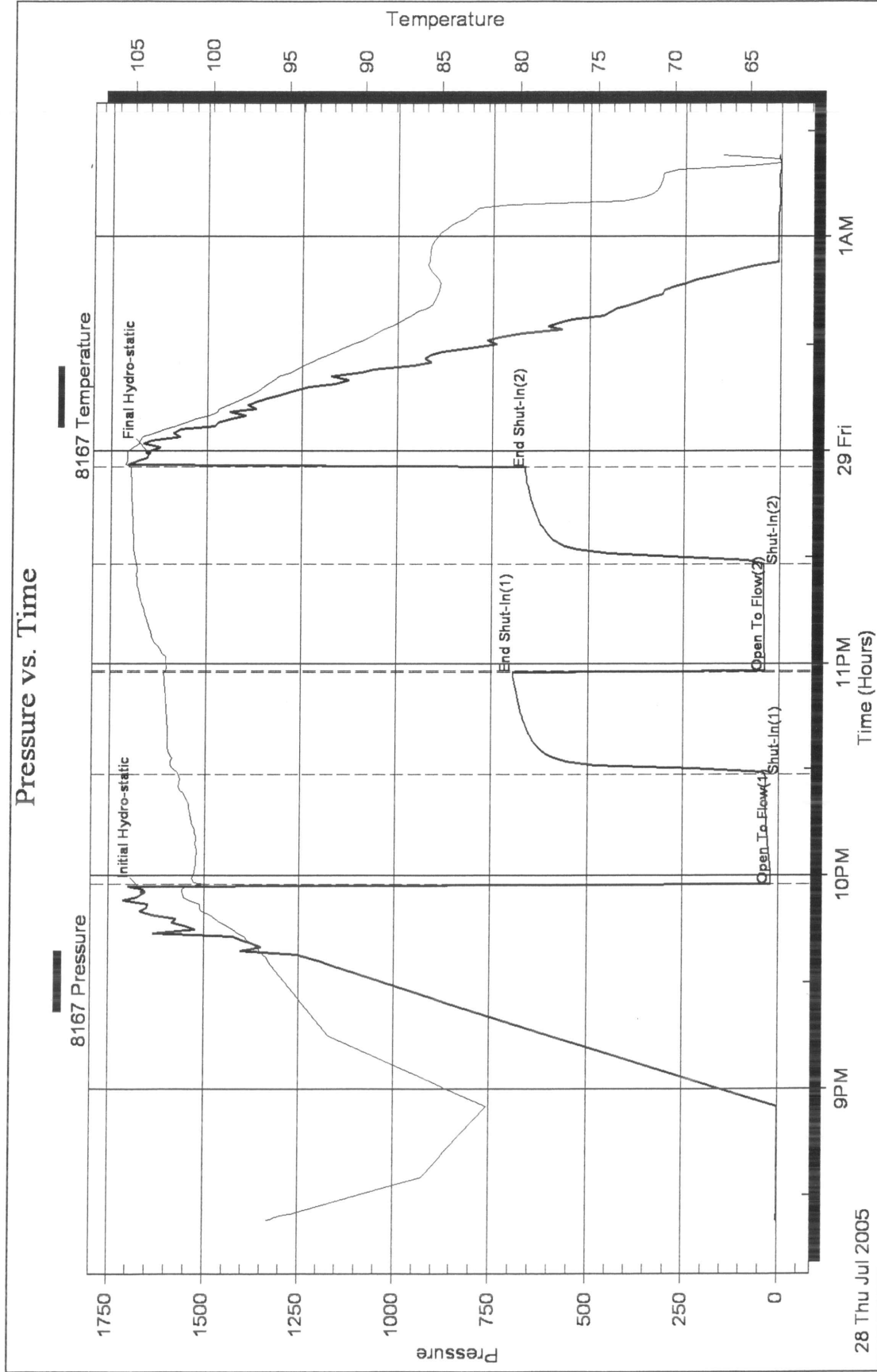
Serial #: 8167

Inside

John O Farmer Inc

7-9s-21w Graham

DST Test Number: 2



7-9-21w



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell Ks 67665

ATTN: John O Farmer IV

7-9s-21w Graham

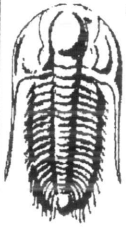
Cooley #1

Start Date: 2005.07.30 @ 00:36:53

End Date: 2005.07.30 @ 07:58:22

Job Ticket #: 23830 DST #: 3

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Cooley #1

PO Box 352
Russell Ks 67665

7-9s-21w Graham

Job Ticket: 23830

DST#: 3

ATTN: John O Farmer IV

Test Start: 2005.07.30 @ 00:36:53

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:

33000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
325.00	O&GCMW 5%G 10%O 75%W 10%M	4.286
300.00	SOCW 4%W 96%W	4.208
1695.00	water RW 19@75F	23.776

Total Length: 2320.00 ft

Total Volume: 32.270 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8167

Inside

John O Farmer Inc

7-9s-21w Graham

DST Test Number: 3

Pressure vs. Time

