



KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1163592

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- ☐ New Well ☐ Re-Entry ☐ Workover
- ☐ Oil ☐ WSW ☐ SWD ☐ SIOW
- ☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
- ☐ OG ☐ GSW ☐ Temp. Abd.
- ☐ CM (Coal Bed Methane)
- ☐ Cathodic ☐ Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- ☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
- ☐ Conv. to GSW
- ☐ Plug Back: _____ Plug Back Total Depth _____
- ☐ Commingled Permit #: _____
- ☐ Dual Completion Permit #: _____
- ☐ SWD Permit #: _____
- ☐ ENHR Permit #: _____
- ☐ GSW Permit #: _____

Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion Date

API No. 15 - _____

Spot Description: _____

_____-_____-_____- Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West

_____ Feet from ☐ North / ☐ South Line of Section

_____ Feet from ☐ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☐ SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☐ No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☐ Letter of Confidentiality Received

Date: _____

☐ Confidential Release Date: _____

☐ Wireline Log Received

☐ Geologist Report Received

☐ UIC Distribution

ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____

1163592

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☐ No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey ☐ Yes ☐ No Cores Taken ☐ Yes ☐ No Electric Log Run ☐ Yes ☐ No Electric Log Submitted Electronically ☐ Yes ☐ No <i>(If no, Submit Copy)</i> List All E. Logs Run:	☐ Log Formation (Top), Depth and Datum ☐ Sample Name Top Datum
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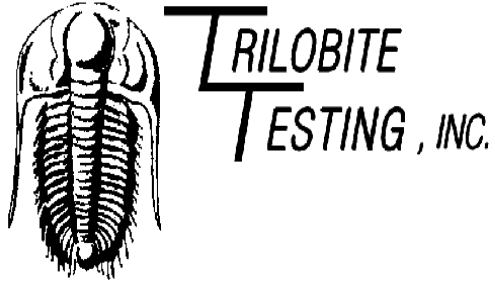
CASING RECORD ☐ New ☐ Used Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run: ☐ Yes ☐ No
Date of First, Resumed Production, SWD or ENHR.			Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other <i>(Explain)</i> _____		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. <i>(Submit ACO-5)</i> ☐ Commingled <i>(Submit ACO-4)</i> ☐ Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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DRILL STEM TEST REPORT

Prepared For: **Coral Production Corp.**

1600 Stout ST. Suite 1500 Denver CO 80202

ATTN: Rick Hall

Cronn #18-5

18-10 s-23w Graham,KS

Start Date: 2013.10.05 @ 16:50:05

End Date: 2013.10.06 @ 00:21:44

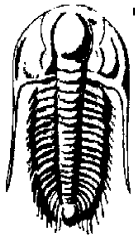
Job Ticket #: 54861 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.10 @ 08:41:47



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Coral Production Corp.

18-10 s-23w Graham,KS

1600 Stout ST. Suite 1500 Denver CO 80202

Cronn #18-5

ATTN: Rick Hall

Job Ticket: 54861

DST#: 1

Test Start: 2013.10.05 @ 16:50:05

GENERAL INFORMATION:

Formation: **LKC "E - F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:50:15

Time Test Ended: 00:21:44

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 44

Interval: 3864.00 ft (KB) To 3894.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 3894.00 ft (KB) (TVD)

2432.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8875 Outside

Press@RunDepth: 82.66 psig @ 3866.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.05

End Date:

2013.10.06

Last Calib.: 2013.10.05

Start Time: 16:50:05

End Time:

00:21:44

Time On Btm: 2013.10.05 @ 18:49:45

Time Off Btm: 2013.10.05 @ 22:32:00

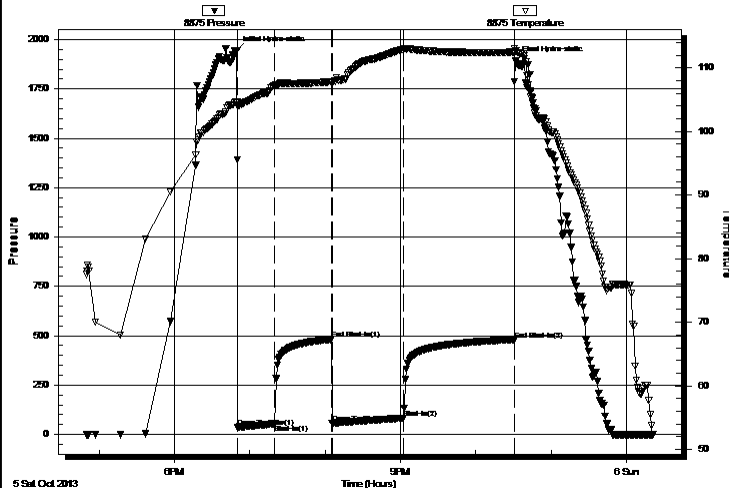
TEST COMMENT: I.F. - 30 - 1/4" Initial blow built to 7 1/2 "

I.S.I - 45 - NO B.B.

F.F. - 60 - W.S.B. Built to 6"

F.S.I. - 90 - NO B.B.

Pressure vs. Time



PRESSURE SUMMARY

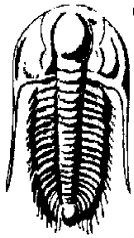
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1942.94	104.57	Initial Hydro-static
1	35.49	104.08	Open To Flow (1)
31	53.10	107.21	Shut-In(1)
76	481.49	107.79	End Shut-In(1)
76	56.57	107.59	Open To Flow (2)
133	82.66	112.93	Shut-In(2)
221	479.86	112.45	End Shut-In(2)
223	1893.91	112.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	WCM 20% WATER 80% MUD	1.81

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Coral Production Corp.

18-10 s-23w Graham,KS

1600 Stout ST. Suite 1500 Denver CO 80202

Cronn #18-5

ATTN: Rick Hall

Job Ticket: 54861

DST#: 1

Test Start: 2013.10.05 @ 16:50:05

GENERAL INFORMATION:

Formation: **LKC "E - F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:50:15

Time Test Ended: 00:21:44

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 44

Interval: 3864.00 ft (KB) To 3894.00 ft (KB) (TVD)

Total Depth: 3894.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2440.00 ft (KB)

2432.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6669 Inside

Press@RunDepth: psig @ 3866.00 ft (KB)

Start Date: 2013.10.05

End Date:

2013.10.06

Start Time: 16:45:05

End Time:

00:21:59

Capacity: 8000.00 psig

Last Calib.: 2013.10.06

Time On Btm:

Time Off Btm:

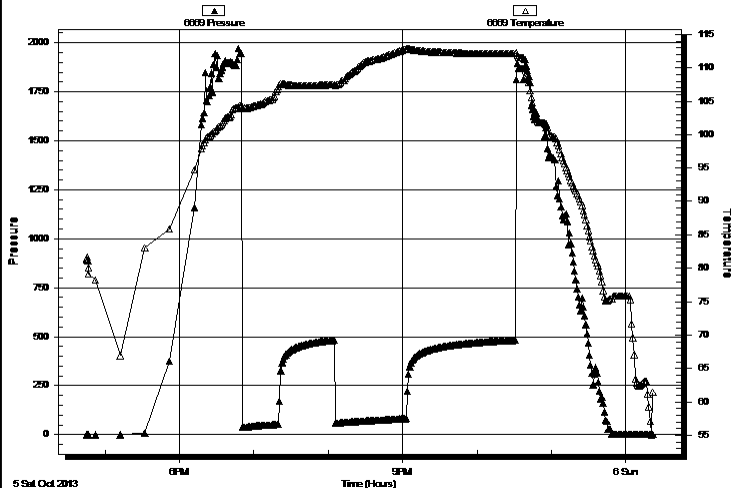
TEST COMMENT: I.F. - 30 - 1/4" Initial blow built to 7 1/2 "

I.S.I - 45 - NO B.B.

F.F. - 60 - W.S.B. Built to 6"

F.S.I. - 90 - NO B.B.

Pressure vs. Time



PRESSURE SUMMARY

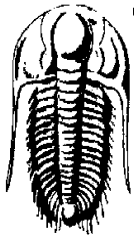
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
150.00	WCM 20% WATER 80% MUD	1.81

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Coral Production Corp.

18-10 s-23w Graham,KS

1600 Stout ST. Suite 1500 Denver CO 80202

Cronn #18-5

Job Ticket: 54861

DST#: 1

ATTN: Rick Hall

Test Start: 2013.10.05 @ 16:50:05

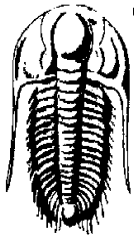
Tool Information

Drill Pipe:	Length:	3820.00 ft	Diameter:	3.80 inches	Volume:	53.58 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length:	32.00 ft	Diameter:	2.25 inches	Volume:	0.16 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	53.74 bbl	Tool Chased	10.00 ft
Drill Pipe Above KB:		15.00 ft					String Weight: Initial	50000.00 lb
Depth to Top Packer:		3864.00 ft					Final	52000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		30.00 ft						
Tool Length:		57.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3842.00	
Hydraulic tool	5.00			3847.00	
jars	5.00			3852.00	
safety Joint	3.00			3855.00	
Packer	5.00			3860.00	27.00 Bottom Of Top Packer
Packer	4.00			3864.00	
Stubb	1.00			3865.00	
Perforations	1.00			3866.00	
Recorder	0.00	6669	Inside	3866.00	
Recorder	0.00	8875	Outside	3866.00	
Perforations	25.00			3891.00	
Bullnose	3.00			3894.00	30.00 Bottom Packers & Anchor

Total Tool Length: 57.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Coral Production Corp.

18-10 s-23w Graham,KS

1600 Stout ST. Suite 1500 Denver CO 80202

Cronn #18-5

Job Ticket: 54861

DST#: 1

ATTN: Rick Hall

Test Start: 2013.10.05 @ 16:50:05

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: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	WCM 20% WATER 80% MUD	1.813

Total Length: 150.00 ft

Total Volume: 1.813 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8875

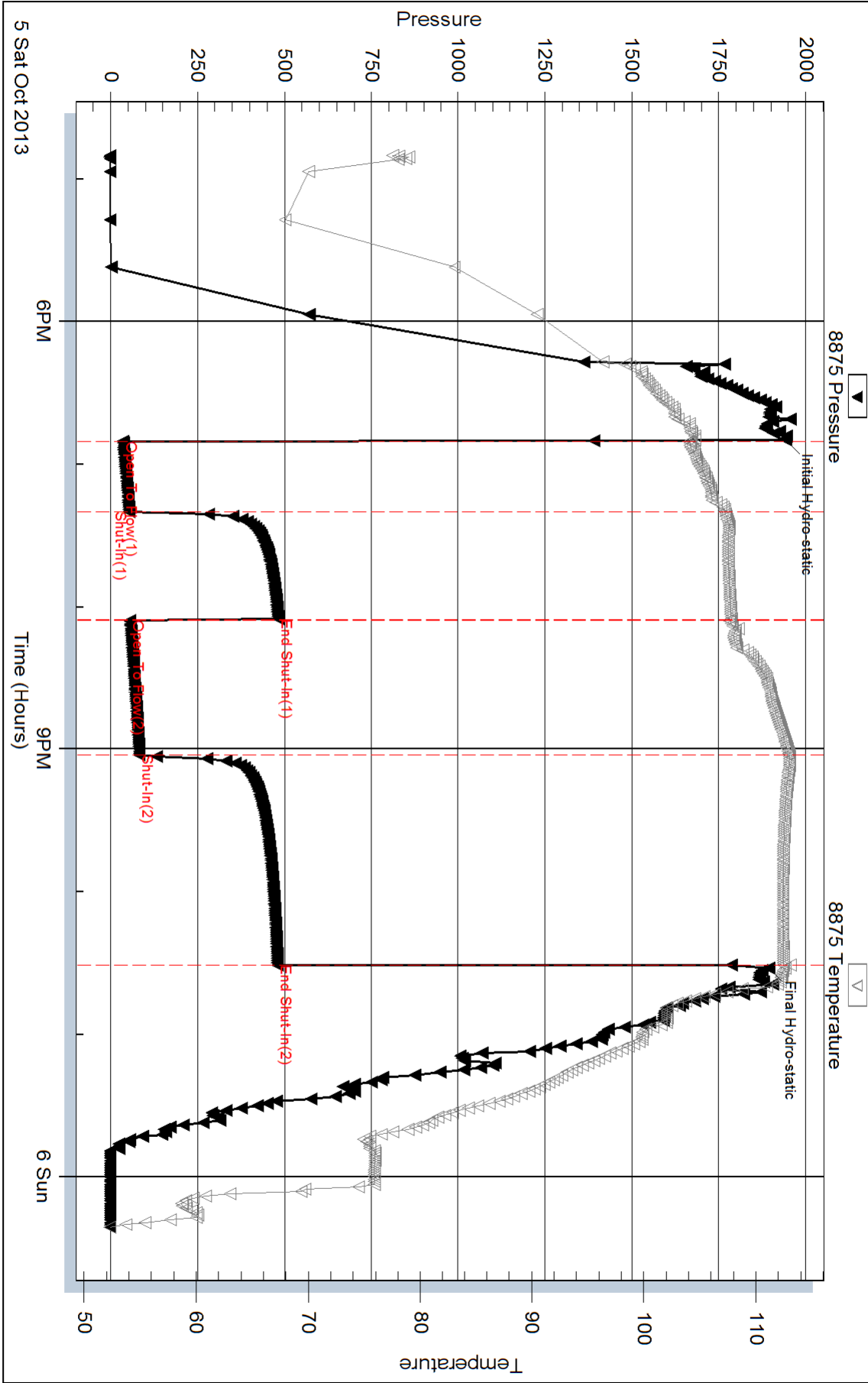
Outside

Coral Production Corp.

Corn #18-5

DST Test Number: 1

Pressure vs. Time



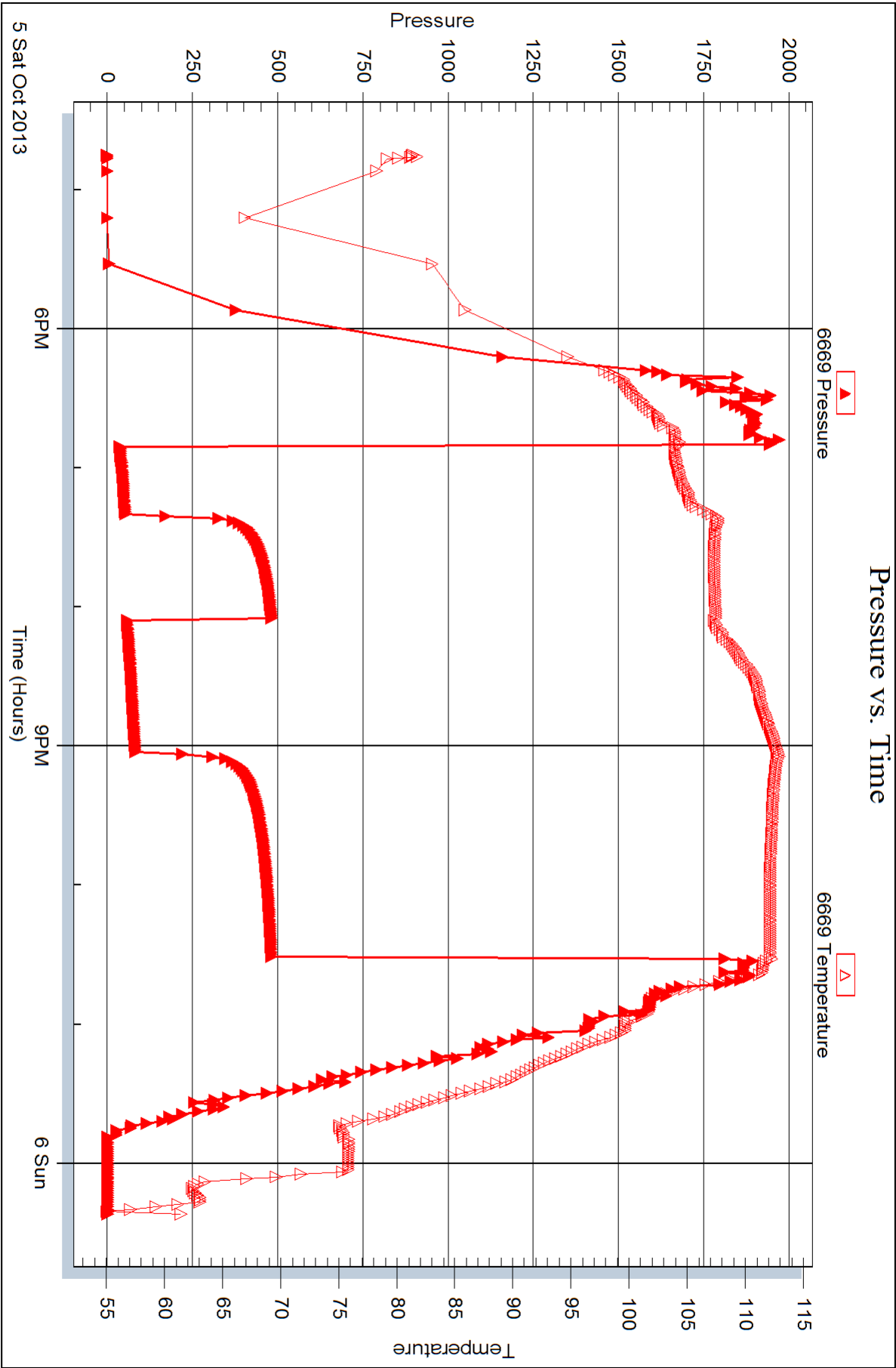
Serial #: 6669

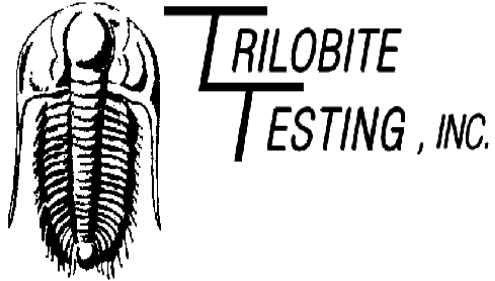
Inside

Coral Production Corp.

Corn #18-5

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Coral Production Corp.**

1600 Stout ST. Suite 1500 Denver CO 80202

ATTN: Rick Hall

Cronn #18-5

18-10 s-23w Graham,KS

Start Date: 2013.10.06 @ 16:35:00

End Date: 2013.10.06 @ 22:50:15

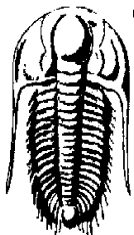
Job Ticket #: 54862 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.10 @ 08:41:19



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Coral Production Corp.

18-10 s-23w Graham,KS

1600 Stout ST. Suite 1500 Denver CO 80202

Cronn #18-5

ATTN: Rick Hall

Job Ticket: 54862

DST#: 2

Test Start: 2013.10.06 @ 16:35:00

GENERAL INFORMATION:

Formation: **KC "I - L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:36:00

Time Test Ended: 22:50:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 44

Interval: 3949.00 ft (KB) To 4034.00 ft (KB) (TVD)

Reference Elevations: 2440.00 ft (KB)

Total Depth: 3894.00 ft (KB) (TVD)

2432.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6669 Inside

Press@RunDepth: 55.31 psig @ 4015.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.06

End Date:

2013.10.06

Last Calib.: 2013.10.06

Start Time: 16:35:05

End Time:

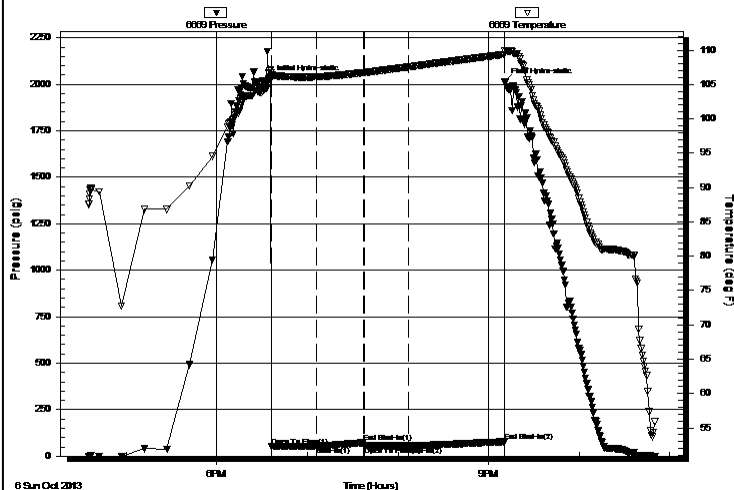
22:50:14

Time On Btm: 2013.10.06 @ 18:35:45

Time Off Btm: 2013.10.06 @ 21:10:45

TEST COMMENT: I.F. - 30 - W.S.B.
I.S. - 30 - NO B.B.
F.F. - 30 - No blow
F.S.I. - 60 - No B.B.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2024.34	107.11	Initial Hydro-static
1	51.89	106.71	Open To Flow (1)
31	54.06	106.11	Shut-In(1)
62	72.96	106.73	End Shut-In(1)
62	53.87	106.72	Open To Flow (2)
92	55.31	107.55	Shut-In(2)
155	77.90	109.38	End Shut-In(2)
155	2011.45	109.96	Final Hydro-static

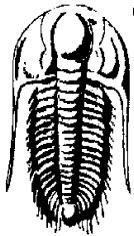
Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD	0.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Coral Production Corp.

18-10 s-23w Graham,KS

1600 Stout ST. Suite 1500 Denver CO 80202

Cronn #18-5

Job Ticket: 54862

DST#: 2

ATTN: Rick Hall

Test Start: 2013.10.06 @ 16:35:00

Tool Information

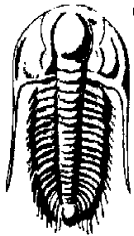
Drill Pipe:	Length:	3905.00 ft	Diameter:	3.80 inches	Volume:	54.78 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length:	32.00 ft	Diameter:	2.25 inches	Volume:	0.16 bbl	Weight to Pull Loose:	56000.00 lb
					Total Volume:	54.94 bbl	Tool Chased	10.00 ft
Drill Pipe Above KB:		15.00 ft					String Weight: Initial	56000.00 lb
Depth to Top Packer:		3949.00 ft					Final	56000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		85.00 ft						
Tool Length:		112.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Shut In Tool	5.00			3927.00		
Hydraulic tool	5.00			3932.00		
jars	5.00			3937.00		
safety Joint	3.00			3940.00		
Packer	5.00			3945.00	27.00	Bottom Of Top Packer
Packer	4.00			3949.00		
Stubb	1.00			3950.00		
Perforations	1.00			3951.00		
Change Over Sub	1.00			3952.00		
Drill Pipe	63.00			4015.00		
Recorder	0.00	6669	Inside	4015.00		
Recorder	0.00	8875	Outside	4015.00		
Change Over Sub	1.00			4016.00		
Perforations	15.00			4031.00		
Bullnose	3.00			4034.00	85.00	Bottom Packers & Anchor

Total Tool Length: 112.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Coral Production Corp.

18-10 s-23w Graham,KS

1600 Stout ST. Suite 1500 Denver CO 80202

Cronn #18-5

Job Ticket: 54862

DST#: 2

ATTN: Rick Hall

Test Start: 2013.10.06 @ 16:35:00

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: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

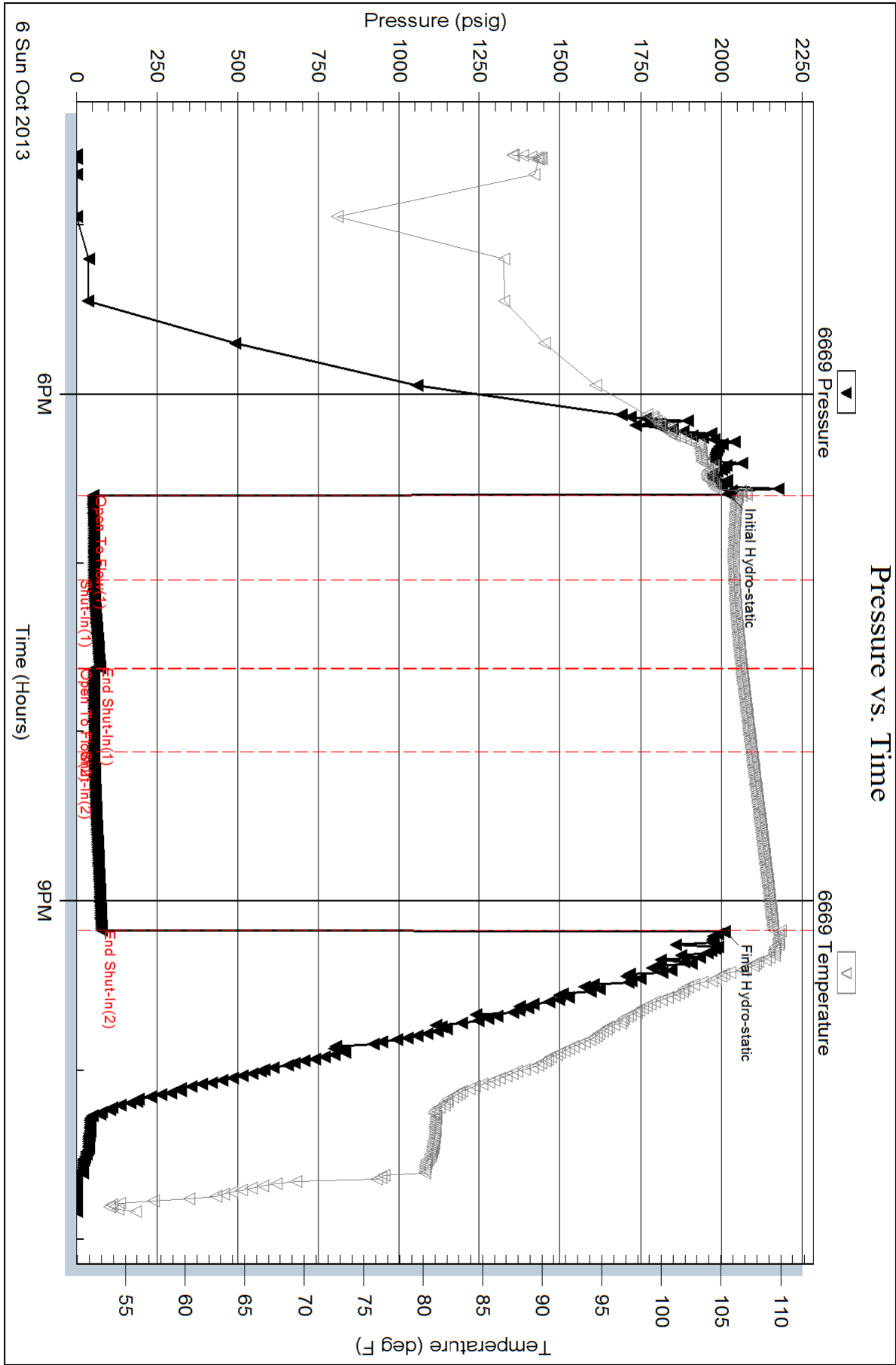
Serial #: 6669

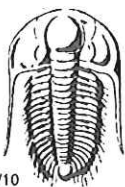
Inside

Coral Production Corp.

Corn #18-5

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54861

Well Name & No. Cronn 18-5 Test No. 1 Date 10-5-13
 Company Coral prod. corp Elevation 2,440 KB 2432 GL
 Address 1600 Stout St. Suite 1500 Denver Col. 80202
 Co. Rep / Geo. Rich Hall Rig Discovery 4
 Location: Sec. 18 Twp. 10'S Rge. 23 W Co. Graham State KS

Interval Tested 3,864-3,894 Zone Tested Lansing "E-F"
 Anchor Length 30 Drill Pipe Run 3,864 Mud Wt. 9.3
 Top Packer Depth 3,859 Drill Collars Run 32' Vis 60
 Bottom Packer Depth 3,864 Wt. Pipe Run — WL 8.0
 Total Depth 3,894 Chlorides 1,000 ppm System LCM 1"

Blow Description I-F-30-1/4" Initial Blow Built to 7 1/2"

I.S.I-46-No B.B.
F.F-60-W.S.B. Built to 6"
F.S.I-90-No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>WCM</u>		<u>20</u>	<u>80</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150 BHT 112 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 1,943
 (B) First Initial Flow 35
 (C) First Final Flow 53.
 (D) Initial Shut-In 481
 (E) Second Initial Flow 56
 (F) Second Final Flow 83
 (G) Final Shut-In 480
 (H) Final Hydrostatic 1,894

☒ Test 1150
☒ Jars 250
☒ Safety Joint 75
☐ Circ Sub
☐ Hourly Standby
☒ Mileage 90 Rt 139.50
☐ Sampler
☐ Straddle
☒ Shale Packer 250
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
 Sub Total 1864.50

T-On Location 14:30:00
 T-Started 16:50:00
 T-Open 18:55:00
 T-Pulled 22:35:00
 T-Out 00:26:00

Comments

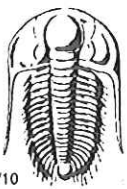
Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1864.50
 MP/DST Disc't

Approved By

Our Representative B. J. Hume

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54862

Well Name & No. Cronn 18-5 Test No. 2 Date 10-6-13
 Company Coral prod. corp. Elevation 2,440 KB 2,432 GL
 Address 1600 Stout St. Suite 1500 Denver CO. 80202
 Co. Rep / Geo. Rick Hall Rig Discovery 4
 Location: Sec. 18 Twp. 10 S Rge. 23 W Co. Graham State KS.

Interval Tested 3,949 - 4,034 Zone Tested Kansas City "I-L"
 Anchor Length 85 Drill Pipe Run 3,905 Mud Wt. 9.2
 Top Packer Depth 3,944 Drill Collars Run 32 Vis 58
 Bottom Packer Depth 3,949 Wt. Pipe Run — WL 8.0
 Total Depth 4,034 Chlorides 1,000 ppm System LCM 1

Blow Description IF-30 - W.S.B

I.S.I-30 - No B.B

F.F-30 - No Blow

F.S.I-60 - No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud</u>			<u>100</u>	

Rec Total 10 BHT 110 Gravity ✓ API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2,024
 (B) First Initial Flow 52
 (C) First Final Flow 54
 (D) Initial Shut-In 73
 (E) Second Initial Flow 54
 (F) Second Final Flow 55
 (G) Final Shut-In 78
 (H) Final Hydrostatic 2,011

☒ Test 1250
☒ Jars 250
☒ Safety Joint 75
☐ Circ Sub
☐ Hourly Standby
☒ Mileage 90 RT 139.50
☐ Sampler
☐ Straddle
☒ Shale Packer 250
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
 Sub Total 1964.50

T-On Location 15:10:00
 T-Started 16:35:00
 T-Open 18:37:00
 T-Pulled 21:07:00
 T-Out 22:50:00
 Comments "Thank-you"
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1964.50
 MP/DST Disc't —

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 60

Approved By

Our Representative

[Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

ALLIED OIL & GAS SERVICES, LLC 054881

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell, Ks

DATE <u>10.1.13</u>	SEC <u>18</u>	TWP <u>10</u>	RANGE <u>23</u>	CALLLED OUT	ON LOCATION	JOB START <u>630 pm</u>	JOB FINISH <u>700 pm</u>
LEASE <u>Crown</u>	WELL # <u>18-5</u>	LOCATION <u>Wakarusa, Ks</u>			COUNTY <u>Graham</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>N to rd C 5 west N into.</u>				

CONTRACTOR <u>Discovery #4</u>	OWNER
TYPE OF JOB <u>SURFACE</u>	CEMENT
HOLE SIZE <u>12 1/4</u>	T.D.
CASING SIZE <u>8 7/8</u>	DEPTH <u>214.58'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>15'</u>
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>12.71 ^{gal} / #20</u>	

EQUIPMENT	
PUMP TRUCK	CEMENTER <u>Tom P.</u>
# <u>409</u>	HELPER <u>Nathan D.</u>
BULK TRUCK	
# <u>410</u>	DRIVER <u>Jesse C</u>
BULK TRUCK	
#	DRIVER

REMARKS:
circulated mud to surface
Pumped 150sk @ 22.85 ^{gal} / #20 cement to surface
Displaced cement @ 12.71 ^{gal} / #20 cement to surface
Shut 8 7/8 in @ 300 psi

CHARGE TO: Coral Production

STREET _____

CITY _____ STATE _____ ZIP _____

AMOUNT ORDERED <u>150sk com</u>	
<u>21 gal 31 cc</u>	
COMMON <u>150sk</u>	@ <u>17.9</u> \$ <u>2,685.00</u>
POZMIX	@
GEL <u>3sk</u>	@ <u>23.4</u> \$ <u>70.20</u>
CHLORIDE <u>4sk</u>	@ <u>64.0</u> \$ <u>256.00</u>
ASC	@
HANDLING <u>160.67</u>	@ <u>2.48</u> \$ <u>398.47</u>
MILEAGE <u>294.40</u>	@ <u>2.60</u> \$ <u>765.44</u>
TOTAL <u>\$4,175.11</u>	

SERVICE	
DEPTH OF JOB	<u>214.58'</u>
PUMP TRUCK CHARGE	\$ <u>1,812.25</u>
EXTRA FOOTAGE	@
MILEAGE <u>Heavy 40m</u>	@ <u>7.70</u> \$ <u>308.00</u>
MANIFOLD <u>Light 40m</u>	@ <u>4.40</u> \$ <u>176.00</u>
TOTAL <u>\$1,996.25</u>	

PLUG & FLOAT EQUIPMENT	
12 1/4	@
8 7/8	@
6 3/4	@
4 1/2	@
3 1/2	@
TOTAL <u>0</u>	

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE Mike D. Dyer

SALES TAX (If Any) _____

TOTAL CHARGES \$ 6,171.36

DISCOUNT \$1,234.27 IF PAID IN 30 DAYS

Net 4937.09

ALLIED OIL & GAS SERVICES, LLC 054802

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell KS

DATE <u>10 / 13</u>	SEC. <u>18</u>	TWP. <u>10</u>	RANGE <u>23</u>	CALLED OUT <u>11:13pm</u>	ON LOCATION <u>2:00 AM</u>	JOB START	JOB FINISH
LEASE <u>Croan</u>	WELL # <u>18-5</u>	LOCATION <u>Walceney KS 10N3W14E</u>				COUNTY <u>Croghan</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)		<u>W. 10</u>					

CONTRACTOR Discovery #4
TYPE OF JOB PTA
HOLE SIZE 7 7/8 T.D. 4034
CASING SIZE DEPTH
TUBING SIZE DEPTH
DRILL PIPE 4 1/2 16.6 DEPTH 2075
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT

OWNER

CEMENT
AMOUNT ORDERED 220 ^{60% 42.90 1 1/4" 16}

COMMON	<u>132</u>	@ <u>17.40</u>	<u>2362.80</u>
POZMIX	<u>88</u>	@ <u>9.35</u>	<u>822.80</u>
GEL	<u>7.57</u>	@ <u>23.40</u>	<u>177.14</u>
CHLORIDE		@	
ASC		@	
<u>SL</u>	<u>50.4</u>	@ <u>2.97</u>	<u>148.50</u>

EQUIPMENT

PUMP TRUCK CEMENTER Robert Y
417 HELPER Woody O
BULK TRUCK
473 DRIVER Jesse
BULK TRUCK
DRIVER

HANDLING	<u>235.95</u> ^{5.15}	@ <u>2.48</u>	<u>585.16</u>
MILEAGE	<u>394.54</u> ^{1/m}	@ <u>2.60</u>	<u>1025.80</u>
TOTAL			<u>5122.20</u>

REMARKS:

pt 25.1 @ 2075
pc 100.1 @ 1175
pt 40.1 @ 275
pt 10.1 @ 40
30.1 @ R.H.
15.1 @ A.H.

Thank you!!!

CHARGE TO: Coral Production
STREET
CITY STATE ZIP

SERVICE

DEPTH OF JOB	<u>2075</u>
PUMP TRUCK CHARGE	<u>2983.57</u>
EXTRA FOOTAGE	@
MILEAGE <u>40</u> ^{HVAT}	@ <u>7.70</u> <u>308.00</u>
MANIFOLD <u>40</u> ^{LVAT}	@ <u>4.40</u> <u>176.00</u>
	@

TOTAL 2967.57

PLUG & FLOAT EQUIPMENT

<u>8 1/2</u> ^{Wooden plug}	@ <u>64.80</u>	<u>64.80</u>
	@	
	@	
	@	
	@	

TOTAL 64.80

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)

TOTAL CHARGES 8154.59

PRINTED NAME

DISCOUNT 1617.96 IF PAID IN 30 DAYS

SIGNATURE Mike Hasche

5/ 6536.63



DRILLER'S LOG

Loggers Total Depth:	<u>No Log</u>	API#15-	<u>065-23.973-00-00</u>
Rotary Total Depth:	<u>4034'</u>	Elevation:	<u>2432 GL - 2440 KB</u>
Commenced:	<u>10/1/2013</u>	Completed:	<u>10/7/2013</u>
Casing:	8 5/8" @ 214.58'W/150sks	Status:	D & A

NOTARY PUBLIC - State of Kansas
GLENNAS S. ALM
My Appt. Exp. 8-9-15