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SEP 23 2010

KCC WICHITA

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

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 # 32639  
Name: CORAL PRODUCTION CORP.  
Address 1: 1600 STOUT ST.  
Address 2: SUITE 1500  
City: DENVER State: CO Zip: 80202 + 3133  
Contact Person: JIM WEBER  
Phone: (303) 623-3573  
CONTRACTOR: License # 31548  
Name: DISCOVERY DRILLING  
Wellsite Geologist: ROBERT STOLZLE  
Purchaser: N/A

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 #: \_\_\_\_\_

<u>9/3/10</u>	<u>9/9/10</u>	<u>9/9/10</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 065-23667-00-00  
Spot Description: \_\_\_\_\_  
SE NW NW NW Sec. 18 Twp. 10 S. R. 23  East  West  
540 Feet from  North /  South Line of Section  
580 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: GRAHAM  
Lease Name: CRONN Well #: 18-4  
Field Name: HAY HOLLOW NORTH  
Producing Formation: N/A  
Elevation: Ground: 2454' Kelly Bushing: 2462'  
Total Depth: 4100' Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 219.23 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: 3000 ppm Fluid volume: 160 bbls  
Dewatering method used: ALLOW TO DRY & BACKFILL  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: J.R. Weber  
Title: PRESIDENT Date: 9/21/10

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: RJA Dg Date: 9/27/10

Operator Name: CORAL PRODUCTION CORP. Lease Name: CRONN Well #: 18-4  
 Sec. 18 Twp. 10 S. R. 23  East  West County: GRAHAM

**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 Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>ANHYDRITE</td> <td>2088'</td> <td>+374'</td> </tr> <tr> <td>HOWARD LS</td> <td>3516'</td> <td>-1054'</td> </tr> <tr> <td>TOPEKA</td> <td>3560'</td> <td>-1098'</td> </tr> <tr> <td>HEEBNER</td> <td>3777'</td> <td>-1315'</td> </tr> <tr> <td>LANSING</td> <td>3816'</td> <td>-1354'</td> </tr> <tr> <td>BASE LKC</td> <td>4043'</td> <td>-1581'</td> </tr> </tbody> </table>	Name	Top	Datum	ANHYDRITE	2088'	+374'	HOWARD LS	3516'	-1054'	TOPEKA	3560'	-1098'	HEEBNER	3777'	-1315'	LANSING	3816'	-1354'	BASE LKC	4043'	-1581'
Name	Top	Datum																				
ANHYDRITE	2088'	+374'																				
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LANSING	3816'	-1354'																				
BASE LKC	4043'	-1581'																				

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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
SURFACE	12 1/4"	8 5/8"	20	219.23'	COMMON	150	2% GEL, 3% CC

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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
	<div style="font-size: 2em; font-weight: bold; margin: 0;">RECEIVED</div> <div style="font-size: 1.5em; font-weight: bold; margin: 0;">SEP 23 2010</div> <div style="font-size: 1.5em; font-weight: bold; margin: 0;">KCC WICHITA</div>		

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

## DRILLER'S LOG

Operator: Coral Production Corporation LIC # 32639 Contractor: Discovery Drilling Co., Inc. LIC#31548  
1600 Stout Street, Suite 1500 PO Box 763  
Denver, CO 80202 Hays, KS 67601

Lease: CRONN # 18-4 Location: SE/NW/NW/NW  
Sec. 18/10S/23W  
Graham Co., KS

Loggers Total Depth: 4100' API#15- 065-23,667-00-00  
Rotary Total Depth: 4100' Elevation: 2454 GL / 2462 KB  
Commenced: 9/3/2010 Completed: 9/9/2010  
Casing: 8 5/8" @ 219.23'W/150sks Status: D & A

### DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>2123'</u>
Dakota Sand	<u>1321'</u>	Shale & Lime	<u>2545'</u>
Shale	<u>1406'</u>	Shale	<u>2819'</u>
Cedar Hill Sand	<u>1613'</u>	Shale & Lime	<u>3107'</u>
Red Bed Shale	<u>1827'</u>	Lime & Shale	<u>3647'</u>
Anhydrite	<u>2088'</u>	RTD	<u>4100'</u>
Base Anhydrite	<u>2123'</u>		

STATE OF KANSAS )  
) ss  
COUNTY OF ELLIS )

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

\_\_\_\_\_  
Thomas H. Alm

Subscribed and sworn to before me on \_\_\_\_\_

My Commission expires: \_\_\_\_\_

(Place stamp or seal below)

\_\_\_\_\_  
Notary Public

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**SEP 23 2010**  
**KCC WICHITA**

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 4192

Date	9-3-10	Sec.	18	Twp.	10	Range	23	County	Graham	State	Kansas	On Location		Finish	12:00 PM	
Lease	Crom	Well No.	18-4		Location						Wakeney 9N 3W 2N 3E					
Contractor	Discovery Drilling Rig 1							Owner								
Type Job	Surface							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	12 1/4		T.D.		220		Charge To								Coral Production	
Csg.	8 5/8 20lb		Depth		219		Street									
Tbg. Size			Depth				City								State	
Tool			Depth				The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.	10-15'		Shoe Joint				Cement Amount Ordered								150 Comm 30cc 25lb	
Meas Line			Displace		13 1/2 Bbl											

**EQUIPMENT**

Pumptrk	9	No.	Cement Helper	Steve	4 1/2
Bulktrk	8	No.	Driver	Paul	4 1/2
Bulktrk		No.	Driver	Doug	4 1/2

Common	150
Poz. Mix	
Gel.	3
Calcium	5

**JOB SERVICES & REMARKS**

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

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Hulls

Salt

Flowseal

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling 158

Mileage

Cement did Circulates

**FLOAT EQUIPMENT**

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

SWAGE

Pumptrk Charge Surface

Mileage 55

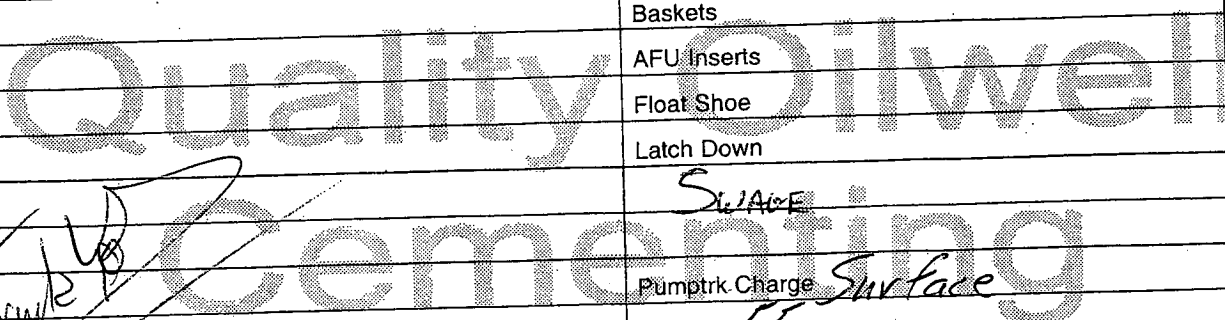
Tax

Discount

Total Charge

X Signature

*[Handwritten Signature]*



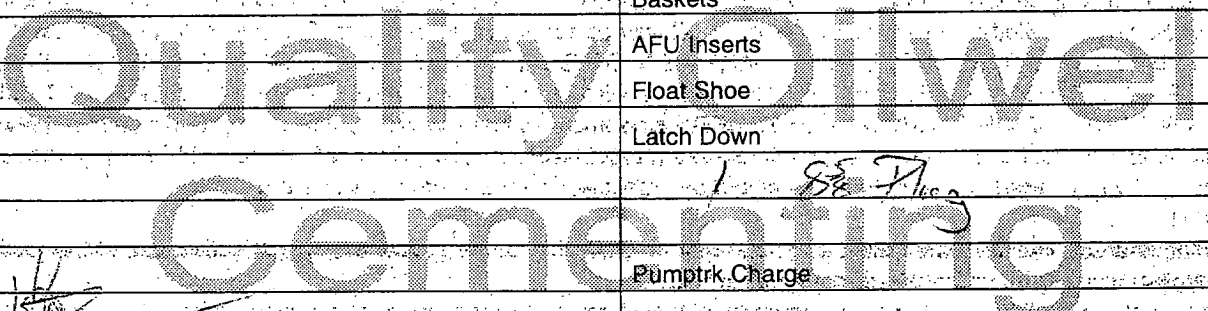
# QUALITY OILWELL CEMENTING, INC.

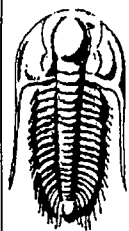
Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 4198

Date	9-10-10	Sec.	Twp.	Range	County	State	On Location	Finish
Lease	Con	Well No.	18-4	Location	Wakarusa	9 N 20 W 20 1/4	1:00 P.M.	4:30 P.M.
Contractor	Discovery Drilling Rig 1			Owner	To Quality Oilwell Cementing, Inc.			
Type Job	Plug			You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.				
Hole Size	7 7/8			T.D.	400			
Csg.				Depth	Charge To			
Tbg. Size				Depth	Coral Production Corp			
Tool				Depth	Street			
Cement Left in Csg.				Shoe Joint	City			
Meas Line				Displace	State			
EQUIPMENT					The above was done to satisfaction and supervision of owner agent or contractor.			
Pumptrk	9	No.	Cementer	Cement Amount Ordered				
Bulktrk	10	No.	Helper	220 6040 4 1/2				
Bulktrk		No.	Driver	3/4 Flt Seal / sk				
JOB SERVICES & REMARKS					Common			
Remarks:	RECEIVED			Poz. Mix				
Rat Hole	SEP 23 2010			Gel.				
Mouse Hole	KCC WICHITA			Calcium				
Centralizers				Hulls				
Baskets				Salt				
D/V or Port Collar				Flowseal				
1st Plug @ 2105	25m			Kol-Seal				
2nd " @ 1180	100.5m			Mud CLR 48				
3rd " @ 840	241m			CFL-117 or CD110 CAF 38				
4th " @ 470	105m			Sand				
Root Hole	30.5m			Handling				
Mouse Hole	15m			Mileage				
FLOAT EQUIPMENT					Guide Shoe			
					Centralizer			
					Baskets			
					AFU Inserts			
					Float Shoe			
					Latch Down			
					1 8 1/2 Plug			
					Pumptrk Charge			
					Mileage			
					Tax			
					Discount			
					Total Charge			
Signature								





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Coral Production Corp.  
1600 Stout St. Suite 1500  
Denver, CO 80202  
ATTN: Bob Stolze

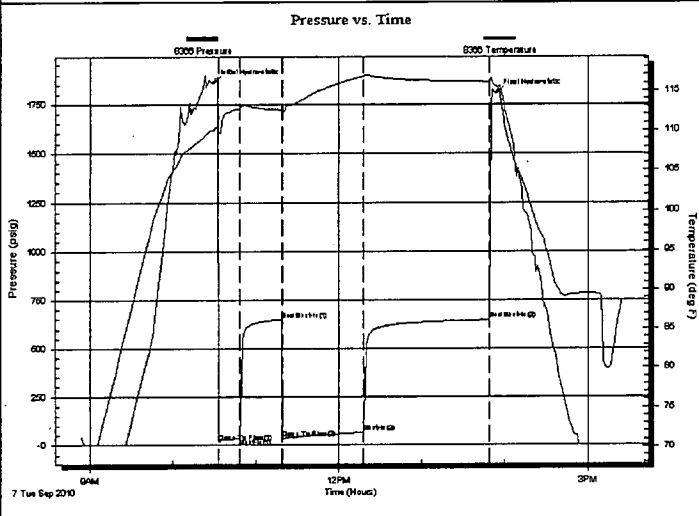
**Cronn #18-4**  
**18/10s/23w Graham KS**  
Job Ticket: 38396      **DST#: 1**  
Test Start: 2010.09.07 @ 08:54:00

## GENERAL INFORMATION:

Formation: **LKC "E - F"**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 10:33:30  
Time Test Ended: 15:25:00  
Test Type: Conventional Bottom Hole  
Tester: James Winder  
Unit No: 46  
Interval: **3876.00 ft (KB) To 3904.00 ft (KB) (TVD)**  
Reference Elevations: 2462.00 ft (KB)  
Total Depth: 3904.00 ft (KB) (TVD)                      2454.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair                      KB to GR/CF: 8.00 ft

**Serial #: 8366**      **Inside**  
Press@RunDepth: 66.09 psig @ 3877.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.09.07      End Date: 2010.09.07      Last Calib.: 2010.09.07  
Start Time: 08:54:05      End Time: 15:24:59      Time On Btm: 2010.09.07 @ 10:29:30  
Time Off Btm: 2010.09.07 @ 13:54:00

**TEST COMMENT:** IF: Blow built to 4 /14"  
ISI: Bled off, No blow back  
FF: Blow built to BOB (11 1/2") in 57 min.  
FSI: Bled off, No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1858.42	110.03	Initial Hydro-static
4	18.80	109.74	Open To Flow (1)
19	36.04	112.80	Shut-In(1)
49	647.70	112.56	End Shut-In(1)
50	37.24	112.23	Open To Flow (2)
109	66.09	116.81	Shut-In(2)
200	645.35	116.12	End Shut-In(2)
205	1804.88	115.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	SO/MCW 65%w, 33%m, 2%o	0.59
39.00	SO/WCM 61%m, 30%w, 5%o, 4%g	0.55
15.00	SMCO 89%o, 7%m, 4%g	0.21
0.00	GIP = 70'	0.00
0.00	Grav. = 33.4 api @ 94 deg F = 30 api	0.00
0.00	RW = .249ohms @ 94 deg F = 20,000 ppr0.00	

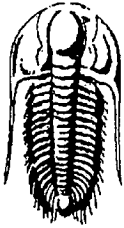
## Gas Rates

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

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**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Coral Production Corp.  
1600 Stout St. Suite 1500  
Denver, CO 80202  
ATTN: Bob Stolze

**Cronn #18-4**  
**18/10s/23w Graham KS**  
Job Ticket: 38396      **DST#: 1**  
Test Start: 2010.09.07 @ 08:54:00

**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: 20000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 2000.00 ppm		
Filter Cake: 1.00 inches		

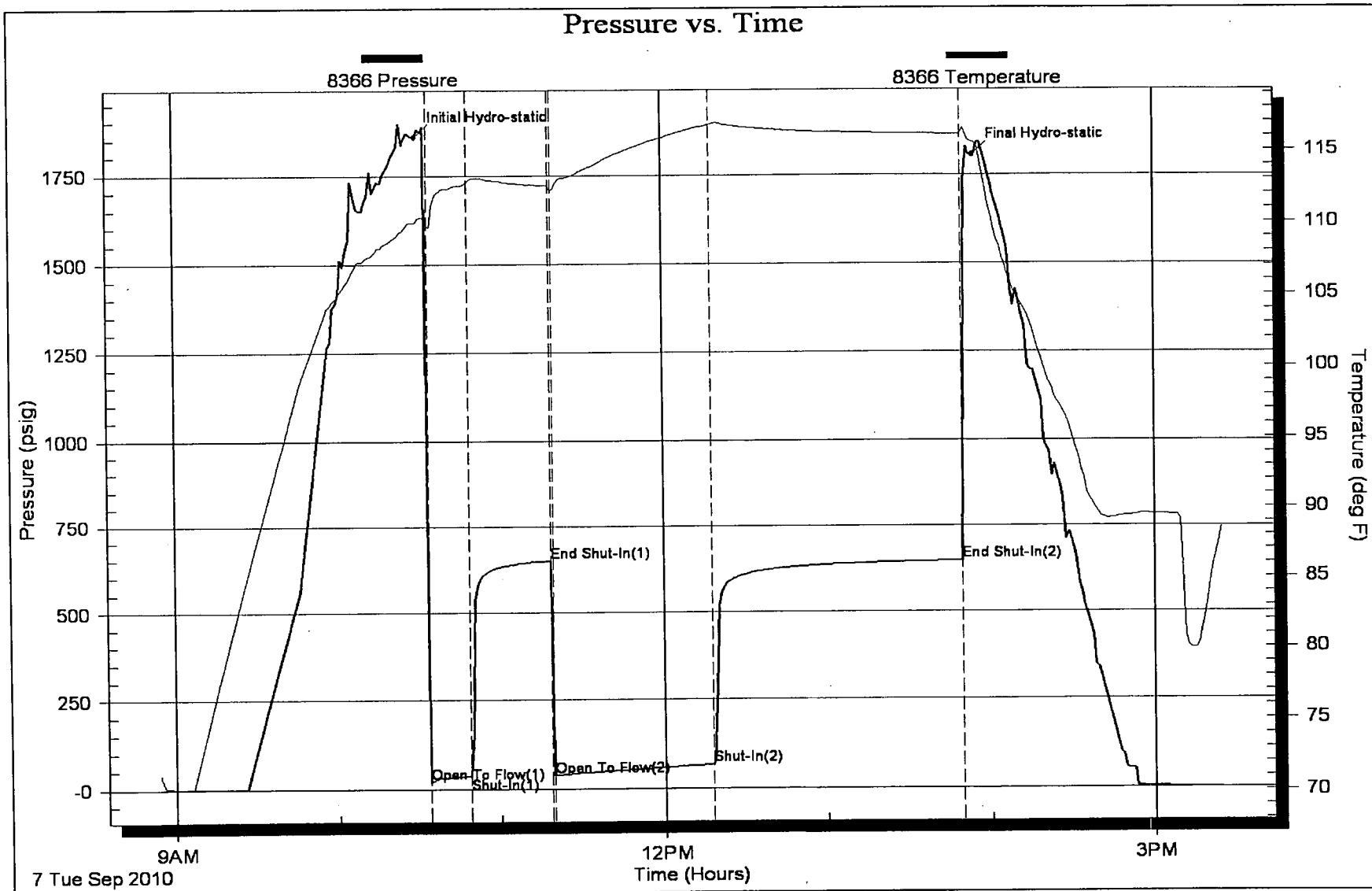
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
62.00	SO/MCW 65%w , 33%m, 2%o	0.587
39.00	SO/WCM 61%m, 30%w , 5%o, 4%g	0.547
15.00	SMCO 89%o, 7%m, 4%g	0.210
0.00	GIP = 70'	0.000
0.00	Grav. = 33.4 api @ 94 deg F = 30 api	0.000
0.00	RW = .249ohms @ 94 deg F = 20,000 ppm	0.000

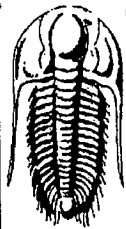
Total Length: 116.00 ft      Total Volume: 1.344 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

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## DRILL STEM TEST REPORT

Coral Production Corp.  
1600 Stout St. Suite 1500  
Denver, CO 80202  
ATTN: Bob Stolze

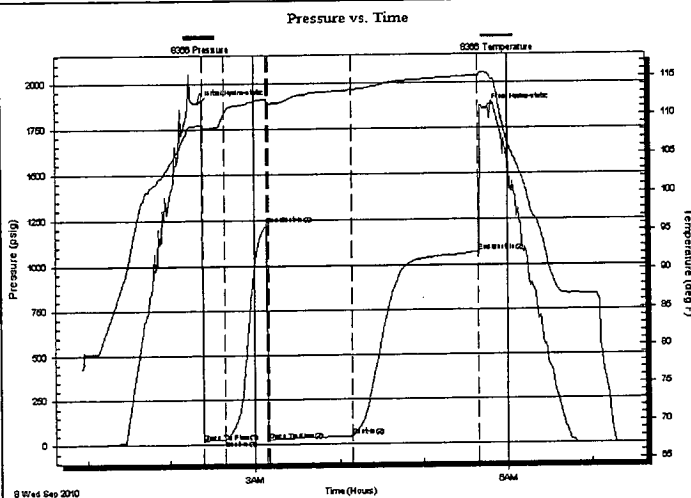
**Cronn #18-4**  
**18/10s/23w Graham KS**  
Job Ticket: 38397      **DST#: 2**  
Test Start: 2010.09.08 @ 00:56:00

### GENERAL INFORMATION:

Formation: **LKC "H - I"**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 02:24:00  
Time Test Ended: 07:19:30  
Interval: **3925.00 ft (KB) To 3985.00 ft (KB) (TVD)**  
Total Depth: 3985.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: James Winder  
Unit No: 46  
Reference Elevations: 2462.00 ft (KB)  
2454.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8366      Inside**  
Press@RunDepth: 44.68 psig @ 3926.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.09.08      End Date: 2010.09.08      Last Calib.: 2010.09.08  
Start Time: 00:56:05      End Time: 07:19:29      Time On Btm: 2010.09.08 @ 02:21:00  
Time Off Btm: 2010.09.08 @ 05:44:30

**TEST COMMENT:** IF: Blow built to 4"  
IS: Bled off, No blow back  
FF: 3 1/2" blow @ open ?, built to BOB in 27 min.  
FS: Bled off, No blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1887.91	108.75	Initial Hydro-static
3	17.38	107.99	Open To Flow (1)
18	29.15	110.34	Shut-in(1)
48	1226.68	112.18	End Shut-in(1)
49	24.56	111.67	Open To Flow (2)
108	44.68	113.30	Shut-in(2)
198	1068.52	115.12	End Shut-in(2)
204	1852.40	115.39	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
75.00	OCM 64% m, 31% o, 5% g	0.77
0.00	GIP = 175'	0.00

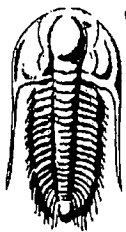
### Gas Rates

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

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**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Coral Production Corp.

Cronn #18-4

1600 Stout St. Suite 1500  
Denver, CO 80202

18/10s/23w Graham KS

Job Ticket: 38397

DST#: 2

ATTN: Bob Stolze

Test Start: 2010.09.08 @ 00:56:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 7.96 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 2000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	OCM 64%m, 31%o, 5%g	0.770
0.00	GIP = 175'	0.000

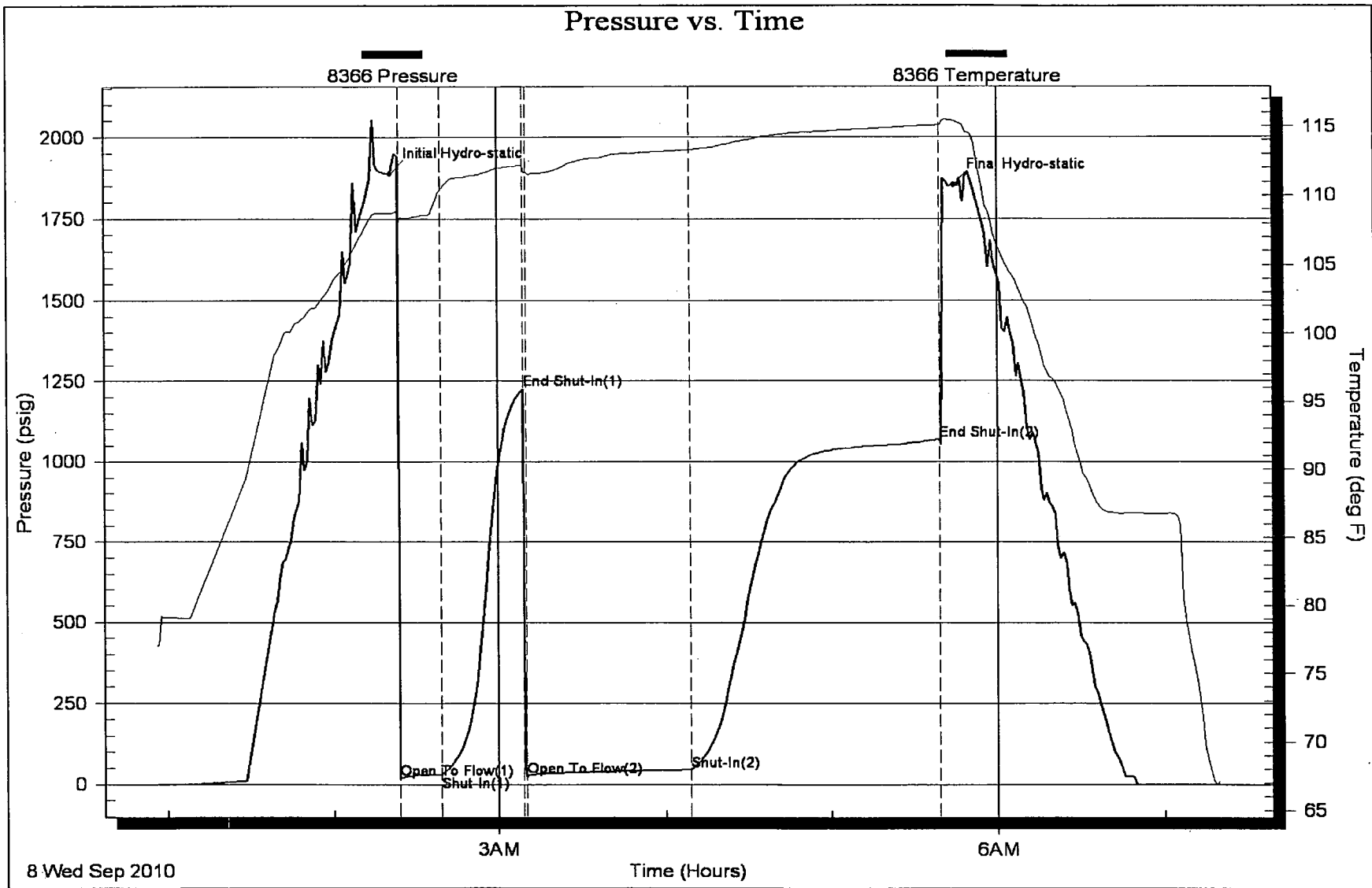
Total Length: 75.00 ft      Total Volume: 0.770 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

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TESTING, INC.**

# DRILL STEM TEST REPORT

Coral Production Corp.  
1600 Stout St. Suite 1500  
Denver, CO 80202  
ATTN: Bob Stolze

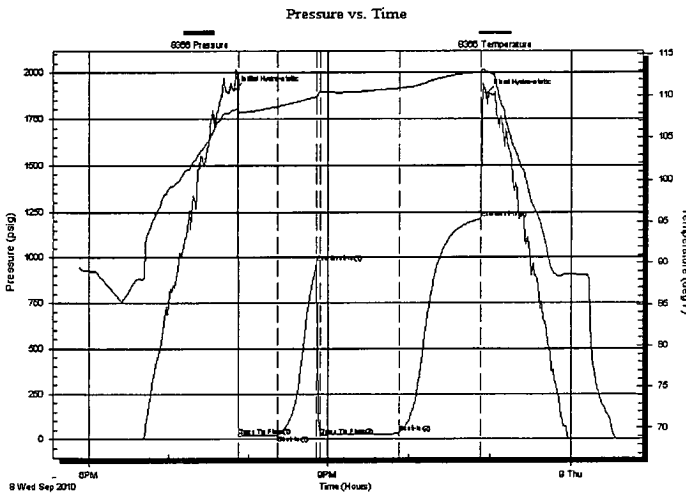
**Cronn #18-4**  
**18/10s/23w Graham KS**  
Job Ticket: 38398      **DST#: 3**  
Test Start: 2010.09.08 @ 17:53:00

## GENERAL INFORMATION:

Formation: **LKC "I - L"**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 19:52:30  
Time Test Ended: 00:34:00  
Test Type: Conventional Bottom Hole  
Tester: James Winder  
Unit No: 46  
Interval: **3960.00 ft (KB) To 4045.00 ft (KB) (TVD)**  
Reference Elevations: 2462.00 ft (KB)  
Total Depth: 4045.00 ft (KB) (TVD)      2454.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 8.00 ft

**Serial #: 8366      Inside**  
Press@RunDepth: 31.67 psig @ 3961.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.09.08      End Date: 2010.09.09      Last Calib.: 2010.09.09  
Start Time: 17:53:05      End Time: 00:33:59      Time On Btm: 2010.09.08 @ 19:49:30  
Time Off Btm: 2010.09.08 @ 22:57:00

**TEST COMMENT:** IF: Blow built to 4 1/4"  
IS: Bled off, No blow back  
FF: Blow built to BOB in 53 min.  
FS: Bled off, No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1905.96	108.32	Initial Hydro-static
3	17.68	108.11	Open To Flow (1)
33	25.20	108.75	Shut-In(1)
62	971.78	109.91	End Shut-In(1)
65	19.01	110.46	Open To Flow (2)
123	31.67	110.90	Shut-In(2)
184	1210.54	112.81	End Shut-In(2)
188	1888.88	112.92	Final Hydro-static

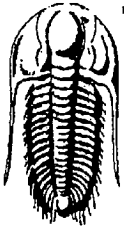
## Recovery

Length (ft)	Description	Volume (bbl)
52.00	GMCO 50%o, 36%m, 14%g	0.45
2.00	CO 95%o, 3%m, 2%g	0.03
0.00	GIP = 135'	0.00
0.00	Gravity = 36.8 api @ 70 deg F	0.00
0.00	Corrected Gravity = 35.8 api	0.00

## Gas Rates

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

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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Coral Production Corp.

**Cronn #18-4**

1600 Stout St. Suite 1500  
Denver, CO 80202

**18/10s/23w Graham KS**

Job Ticket: 38398

**DST#: 3**

ATTN: Bob Stolze

Test Start: 2010.09.08 @ 17:53:00

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 58.00 sec/qt  
Water Loss: 7.96 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
52.00	GMCO 50%o, 36%m, 14%g	0.447
2.00	CO 95%o, 3%m, 2%g	0.028
0.00	GIP = 135'	0.000
0.00	Gravity = 36.8 api @ 70 deg F	0.000
0.00	Corrected Gravity = 35.8 api	0.000

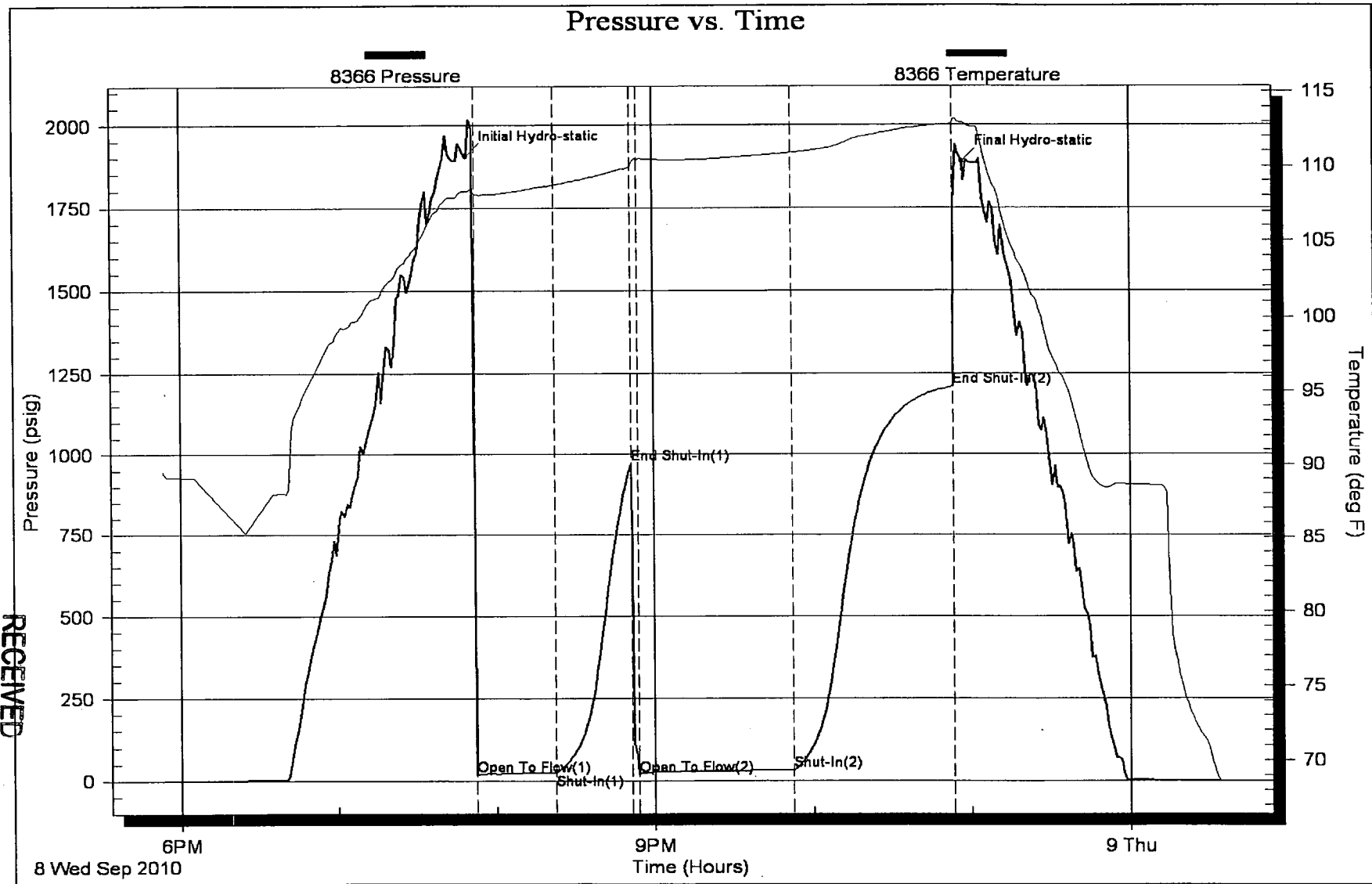
Total Length: 54.00 ft      Total Volume: 0.475 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

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