

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

KCC WICHITA

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

JUN 25 2014

RECEIVED

OPERATOR: License # 34089
Name: Agricultural Energy Services, Inc.
Address 1: 1755 W. Broadway St., Suite 6
Address 2: _____
City: Oviedo State: FL Zip: 32765 + _____
Contact Person: Montgomery Escue
Phone: (407) 365-2500
CONTRACTOR: License # 34317
Name: Beredco LLC
Wellsite Geologist: Bradley Rine
Purchaser: DCP Midstream

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 #: _____

10-27-10	11-14-10	1-28-11
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 175-22186 00-00
Spot Description: _____
C NW NW Sec. 23 Twp. 33 S. R. 31 East West
660 Feet from North / South Line of Section
660 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Seward
Lease Name: The Don Thorp Well #: 2-23
Field Name: Kismet
Producing Formation: St. Louis
Elevation: Ground: 2743.3 Kelly Bushing: 2756.3
Total Depth: 5812' Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 1633 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 3345 Feet
If Alternate II completion, cement circulated from: 3345
feet depth to: surface w/ 500 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: _____ ppm Fluid volume: _____ bbls
Dewatering method used: Water Evaporated
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: [Signature]
Title: OFFICE MANAGER Date: 6.23.14

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: MS Date: 6-25-14

Operator Name: Agricultural Energy Services, Inc. Lease Name: The Don Thorp Well #: 2-23
 Sec. 23 Twp. 33 S. R. 31 East West County: Seward

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets) Samples Sent to Geological Survey <input 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 (If no, Submit Copy) List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum See Attachment A
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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"	24	1633'	70/30 Poz	700	3% CC, 2% gel
Production	7 7/8"	5 1/2"	15.5	5811'	OWC	250	5#/sk Kolseal

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	3345-Surf.	60/40 poz	500	8% gel 1/4# cello flakes

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	5781' - 5793'	500 gal 15% MCA/FE	
	CIBP w/ 1 sk cement on top		5770'
4	5738' - 5742', 5708' - 5712'	3000 gal 15% NEFE	
	CIBP w/ 1 sk cement on top		5690'
2	5581' - 5592', RPB @ 5548', 5526' - 5532' w/ 4spf	2000 gal 15% NEFE/1750 gal 15% MCA	

TUBING RECORD: Size: <u>2 7/8</u> Set At: <u>5517'</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>1/28/2011</u>	Producing Method: <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>0</u>	Gas Mcf <u>250</u> Water Bbls. <u>0</u> Gas-Oil Ratio _____ Gravity _____

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-1B.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>5526' - 5532'</u> KCC WICHITA
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Agricultural Energy Services

**Don Thorp 2-23
SEC. 23-T31S-R33W
Seward County, Kansas**

Formation	Depth	Subsea	Comp Diff	Elog top	Subsea	Comp Diff
Herrington	2605	151	+4	2604	152	+5
Krider	2628	128	+6	2630	126	+4
Winfield	2698	58	+2	2692	64	+8
Towanda	2759	-3	+6	2756	0	+9
Fort Riley	2826	-70	+5	2822	-66	+9
Florence	2876	-120	+5	2874	-118	+7
Wreford	2930	-174	+7	2928	-172	+9
Council Grove	2964	-208	+9	2963	-207	+10
Funston	2980	-224	+9	2981	-225	+8
Crouse	3030	-274	+20	3035	-279	+15
Middleburg	3052	-296	+16	3060	-304	+8
Eiss	3083	-327	+10	3084	-328	+9
Morrill	3089	-343	+11	3103	-347	+7
Cottonwood	3144	-388	+10	3146	-390	+8
Neva	3209	-453	+16	3209	-453	+4
Wabunsee	3426	-670	+9	3422	-666	+13
Heebner	4271	-1515	+7	4269	-1513	+9
Toronto	4292	-1536	+6	4291	-1535	+7
Lansing	4415	-1659	+9	4412	-1656	+12
Kansas City	4479	-1723	+9	4481	-1725	+7
Iola	4596	-1840	+5	4596	-1840	+5
Drumm 1	4649	-1903	+4	4654	-1898	+9
Drumm 2	4699	-1943	+4			
Dennis	4749	-1993	+5	4750	-1994	+4
Stark Shale	4856	-2100	-1	4852	-2096	+3
Swope	4889	-2133	+2	4883	-2127	+8
Hushpuckney	4920	-2164	-4	4912	-2156	+4
Hertha	4932	-2176	-3	4929	-2173	-
Marmaton	5030	-2274	+2	5024	-2268	+8
Ft Scott	5150	-2394	+4	5152	-2396	+2
Cherokee	5207	-2451	+3	5206	-2450	+4
Atoka Sh	5410	-2654	+1	5408	-2652	+3
Morrow	5512	-2756	-1	5506	-2750	+5
St. Gen	5632	-2876	-4	5580	-2824	+14
St. Louis	5726	-2970	+9	5616	-2860	+12
RTD	5812	-3056		5811	-3055	



CONSOLIDATED
Oil Well Services, LLC

W.D.
MS
CMS

TICKET NUMBER 27963
LOCATION Oaklay Ks
FOREMAN Walt Dinkel

PO Box 884, Chanute, KS 66720
820-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-27-10	1107	Don Thorpe 2-23	23	33 ^S	31 ^W	Sevier
CUSTOMER <u>Agricultural Energy Services</u>			TRUCK#			
MAILING ADDRESS			DRIVER		TRUCK#	
CITY			DRIVER		TRUCK#	
STATE			DRIVER		TRUCK#	
ZIP CODE			DRIVER		TRUCK#	

JOB TYPE Retainer-0 HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE _____ TUBING 2 7/8-5804' OTHER retainer 5804'
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/Wk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 33.5 DISPLACEMENT PSI 700# MIX PSI 700# RATE _____

REMARKS: Safety Meeting, Load Hole, Set into Retainer, Put 500#
On backside, Took rate! 3 BPM @ 500#
Mixed 50 sks class A cement, Displaced 3 1/2 BBL H₂O @ 700#
max, Pull out of Retainer, Circ. Clean.

*Thank You
Walt & Crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1,200 ⁰⁰	1,200 ⁰⁰
5406	20	MILEAGE x 2 visits	4.50	1.90 ⁰⁰
11043	50 SKS	Class A cement	16 ⁰⁰	800 ⁰⁰
5407	2.35	Ton Mileage Delivery	150	390 ⁰⁰
				KCC WICHITA
				JUN 25 2014
				RECEIVED
				238869
				2,570 ⁰⁰
				less 20% Disc
				514 ⁰⁰
				2,056 ⁰⁰
				SALES TAX 60.40
				ESTIMATED TOTAL 2116.40

Rev'n 5757

AUTHORIZATION

Walt Dinkel

TITLE

DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this fo



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 28659
LOCATION Dalbey Ks
FOREMAN Pat Heister

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-14-10	1107	Don Thorpe 2-23	23	33 ^S	31 ^W	Seward

CUSTOMER		TRUCK #		DRIVER	
Agricultural Energy Services		463		milas	
MAILING ADDRESS		466-7127		Charles	
CITY				Josh G.	
STATE					
ZIP CODE					

JOB TYPE Pool - 0 HOLE SIZE 7 7/8 HOLE DEPTH 5812 CASING SIZE & WEIGHT 5 1/2 - 15 1/2 #
 CASING DEPTH 5811 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 462 SLURRY VOL 58 BBL WATER gal/sk 6.7 CEMENT LEFT IN CASING 21 - Shear It
 DISPLACEMENT 140 BBL DISPLACEMENT PSI 1800 # MIX PSI 300 # RATE 6.5

REMARKS: Safety Warning, Dig up to casing to cure + set Basket shoe,
Pump 1000 gal Mud Flush, mix 10 sks in RH, 15 sks in RH
mix 250 sks OWC, 10% salt, 5# Kalsol, 2% Cel, Clean pump & lines Plug
Displace BBL H₂O @ 1800 #, Landed Plug @ 2500 #
release Pressure, Plug Held
Pressures in 10 BBL 40 BBL - 300#, 50 BBL - 300#, 60 BBL 300#, 70 BBL 400#, 80 BBL - 500#
90 BBL - 850#, 100 BBL - 1000#, 110 BBL - 1400#, 120 BBL - 1550, 130 BBL 1650#, 140 BBL 1800#

*Thank You
Pat + Crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401c	1	PUMP CHARGE	2730 ⁰⁰	2730 ⁰⁰
5406	20 miles	MILEAGE KCC WICHITA	4.50	90 ⁰⁰
1126	275	275 sks OWC	20 ³⁵	5,596 ²⁵
1111	1343 #	salt JUN 25 2014	.40	537 ²⁰
1110A	1375 #	Kalsol RECEIVED	.49	673 ⁷⁵
5407A	12.93	Ton mileage Delivery	1.50	390 ⁰⁰
4255	1	5 1/2 Basket shoe	1,315 ⁰⁰	1,315 ⁰⁰
4454	1	5 1/2 hatch clean Plug	289 ⁰⁰	289 ⁰⁰
49130	10	Centralizers	56 ⁰⁰	560 ⁰⁰
4104	3	Camout Baskets	26.3 ⁰⁰	789 ⁰⁰
4136	10	Turbo-Centralizers	69 ⁰⁰	690 ⁰⁰
4315	30	Rotating Scrubbers 5" C/S	85 ⁰⁰	2,550 ⁰⁰
5620	1	Rotating Head rental	200 ⁰⁰	200 ⁰⁰
1446	1000 gal	1000 gal Mud Flush	100	1000 ⁰⁰
				17,410 ²⁰
		Less 20% Disc		3,482 ⁰⁰
				13,928 ²⁰
			SALES TAX	1057 ⁰³
			ESTIMATED TOTAL	14,985.19

238049

Ravin 3757

AUTHORIZATION [Signature] TITLE _____ DATE 11/10/10

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this fo



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 24491
LOCATION Cakley, KS
FOREMAN Pat Heister

PO Box 884, Chanute, KS 66720
20-431-9210 or 800-467-8678

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-29-10	1107	The Don Thorp 2-23	23	33S	31W	Seward

TRUCK #	DRIVER	TRUCK #	DRIVER
463	Shannon F		
466	Dave G (Eureka)		
465	Miles V		

CUSTOMER: Agricultural Energy Services
 MAILING ADDRESS: 1755 W. Broadway St. Suite B
 CITY: Oviedo STATE: FL ZIP CODE: 32765

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 1637 CASING SIZE & WEIGHT 8 5/8 24 #
 CASING DEPTH 1619 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 124 lbs SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 72.27'
 DISPLACEMENT 103 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Softly meeting mix 550 sk per 39 acc 49 gal 1/4 # Flc mix 150 sks 39 acc
29 gal Release Plug Displace 103 lbs 142° @ 500 PSI Land plug @ 900 PSI
Check Float, Float Valve

Correlated good cement

Thank you
Pat & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C		PUMP CHARGE	1525.00	1525.00
5406	30 mi	MILEAGE	4.50	90.00
5407A	31.25 Ton	Ton mile Delivery	1.50	937.50
1127	550 sks	70130 mix	13.50	7425.00
11645	150 sks	Class 2 cement	16.00	2400.00
1107	1475 lbs	Calcium Chloride	1.94	1650.00
1118B	2504 lbs	Bentonite gel	1.20	550.00
1107	138 lbs	Flc-seal	2.50	345.00
4204	1	8 5/8 Guide Shoe	476.00	476.00
4229	1	8 5/8 Insert Float AFO	284.00	284.00
4106	1	8 5/8 Basket	367.00	367.00
4132	3	8 5/8 Centralizers	79.00	237.00
4411	1	8 5/8 Rubber Plug	135.00	135.00
		Subtotal		16,452.92
		Less	2070	3,290.79
				237,716
		SALES TAX		1049.44
		ESTIMATED TOTAL		142,113.60

Rev 3737

AUTHORIZATION: M Walker TITLE Tool Pusher

DATE 10-29-10
KCC WICHITA

JUN 25 2014

RECEIVED



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 28884
LOCATION Oakley Ks
FOREMAN Walt Dunkel

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-457-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-30-10	1107	Don Thorpe 2-23	23	33 ^s	31 ^w	Sevier
CUSTOMER <u>Agricultural Energy Services</u>			W.D.			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			<u>466-TUS</u>	<u>John Apple</u>		
STATE			<u>528-T127</u>	<u>Chad S</u>		
ZIP CODE			<u>460</u>	<u>Tash</u>		

JOB TYPE Part Collar HOLE SIZE 7 7/8 HOLE DEPTH _____ CASING SIZE & WEIGHT 5 1/2 - 15 5/8"
 CASING DEPTH 5811 DRILL PIPE _____ TUBING 2 3/8 OTHER Part Collar
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/ck _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Man... rig up to tubing, Test casing to 1000#
release pressure, open Part Collar, Check for returns,
mixed 40% sks 60% pop, 8% gel, 1/4" Flo Seal, Tail in well 100 sks OWC
1/4" Flo Seal @ 1700# max pressure, Displaced 14 BBL, shut down
close tool, Test to 1500#, Hold, ran 3Hrs, reversed out - Clean

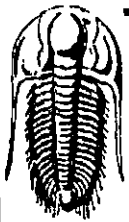
Cement Did Circ

Thank You
Walt + Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	1,525.00	1,525.00
5406	30	MILEAGE 3-units	45.00	2,700.00
1131	400 - SKS	60% pop	13.00	5,200.00
1126	100 - SKS	OWC	20.35	2,035.00
1118B	2752 - #	Bentonite Gel	1.90	5,504.00
1107	125 - #	Flo Seal	2.50	312.50
5407A	21.9	Ten Mileage Delivery	1.50	2,577.00
			KCC WICHITA	
			JUN 25 2011	
			288337	
			RECEIVED	10,549.75
			Less 20% Disc	- 2,109.75
				8,439.25
			SALES TAX	611.39
			ESTIMATED TOTAL	9,051.31

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this fo



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Agricultural Energy Services

Don Thorp 2-23

1755 W Broadway St. Suite 6 Oviedo Fl. 32763

23/33/31

Job Ticket: 40294

DST#: 1

ATTN: Brad Rine

Test Start: 2010.10.31 @ 02:45:00

GENERAL INFORMATION:

Formation: **Council Grove**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:42:35

Time Test Ended: 10:16:35

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: 33

Interval: 3020.00 ft (KB) To 3092.00 ft (KB) (TVD)

Reference Elevations: 2756.00 ft (KB)

Total Depth: 3092.00 ft (KB) (TVD)

2746.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6772 Outside

Press@RunDepth: 184.22 psig @ 3023.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.31

End Date:

2010.10.31

Last Calib.: 2010.10.31

Start Time: 02:45:05

End Time:

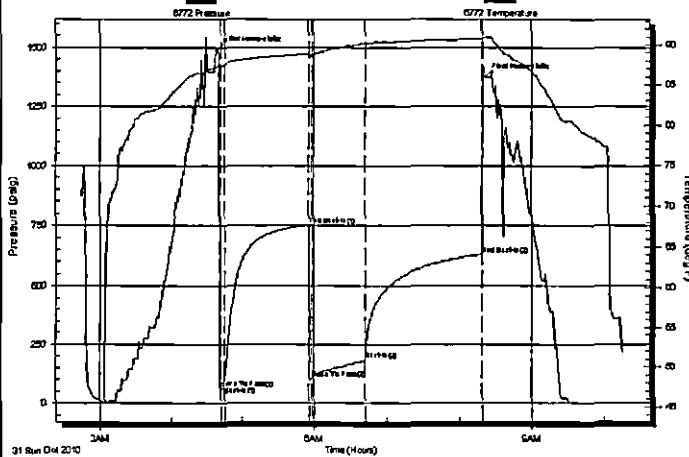
10:16:35

Time On Btm: 2010.10.31 @ 04:38:45

Time Off Btm: 2010.10.31 @ 08:21:30

TEST COMMENT: IF- Strong blow BOB ASAO.
 IS- No blow back.
 FF- Strong blow BOB, ASAO, GTS 50min. To small to measure.
 FS- Weak blow back.

Pressure vs. Time



PRESSURE SUMMARY

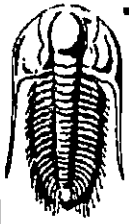
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1485.23	87.21	Initial Hydro-static
4	60.42	87.22	Open To Flow (1)
7	68.83	87.51	Shut-In(1)
78	750.74	88.90	End Shut-In(1)
80	104.87	88.78	Open To Flow (2)
124	184.22	90.15	Shut-In(2)
221	631.68	90.76	End Shut-In(2)
223	1375.63	90.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	10%gas 90%mud	1.48

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Agricultural Energy Services

Don Thorp 2-23

1755 W Broadway St. Suite 6 Oviedo Fl. 32763

23/33/31

Job Ticket: 40294

DST#: 1

ATTN: Brad Rine

Test Start: 2010.10.31 @ 02:45:00

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: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
300.00	10%gas 90%mud	1.475

Total Length: 300.00 ft Total Volume: 1.475 bbf

Num Fluid Samples: 1

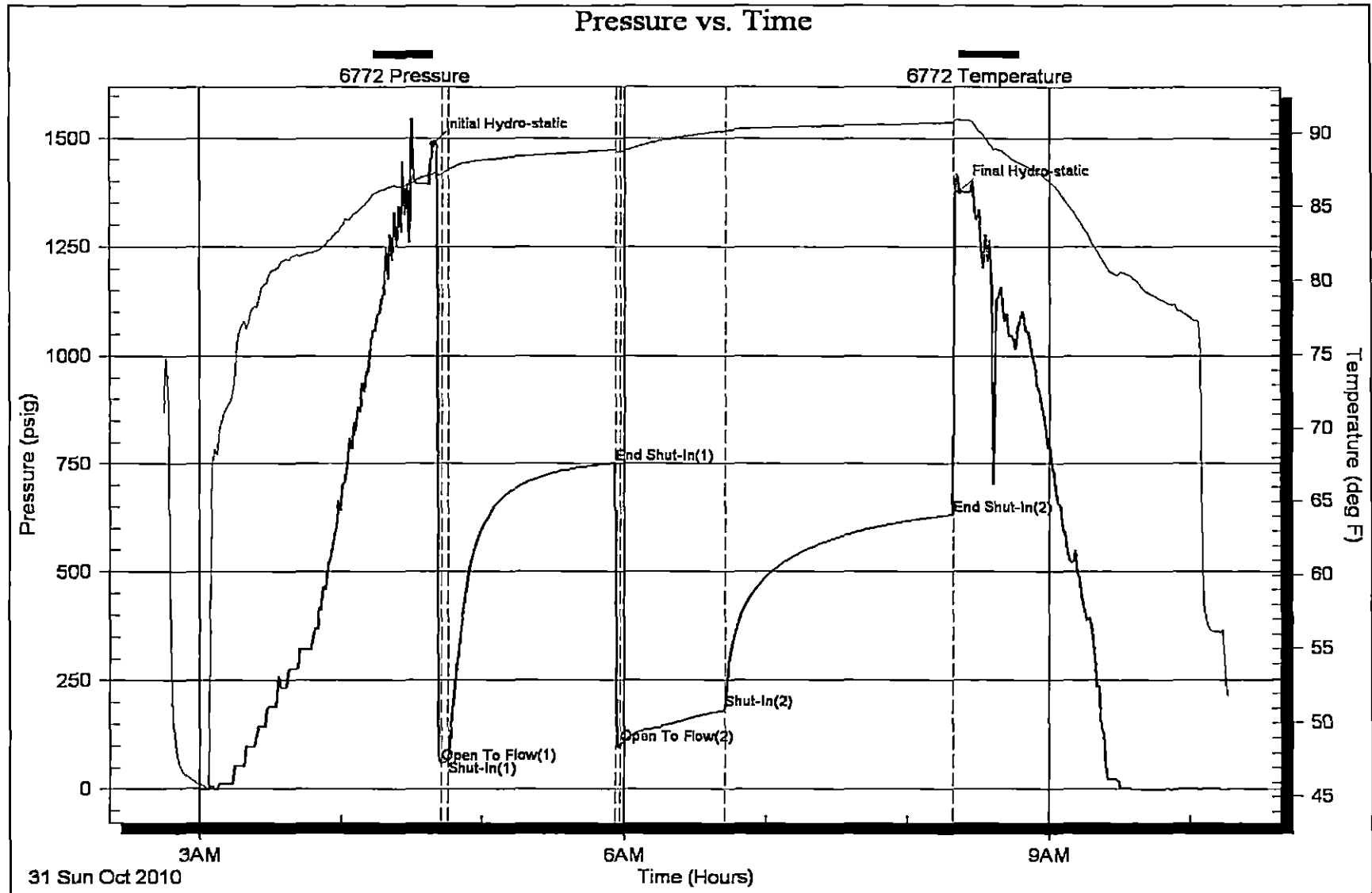
Num Gas Bombs: 1

Serial #:

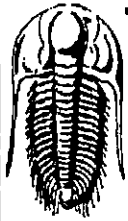
Laboratory Name:

Laboratory Location:

Recovery Comments:



RECEIVED
 JUN 25 2014
 KCC WICHITA



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Agricultural Energy Services
 1755 W Broadway St. Suite 6 Oviedo Fl. 32763
 ATTN: Brad Rine

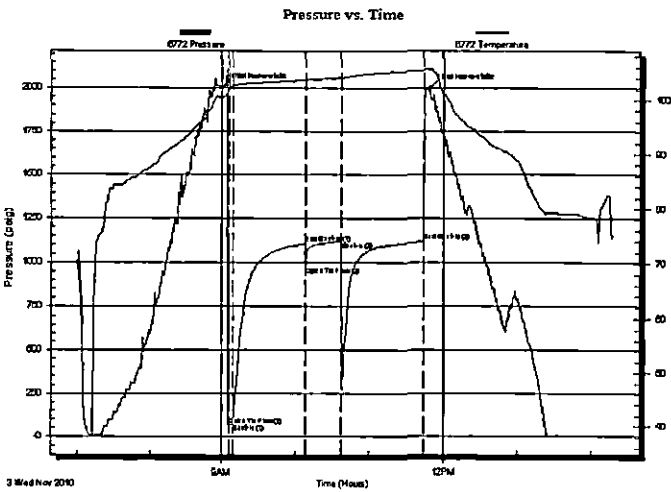
Don Thorp 2-23
23/33/31
 Job Ticket: 40295 DST#: 2
 Test Start: 2010.11.03 @ 07:00:00

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 09:06:25
 Time Test Ended: 14:18:50
 Interval: **4304.00 ft (KB) To 4330.00 ft (KB) (TVD)**
 Total Depth: **4330.00 ft (KB) (TVD)**
 Hole Diameter: **7.78 inches** Hole Condition: Fair
 Test Type: **Conventional Bottom Hole**
 Tester: **Harley Davidson**
 Unit No: **33**
 Reference Elevations: **2756.00 ft (KB)**
 2746.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6772 **Outside**
 Press@RunDepth: **1119.64 psig @ 4306.00 ft (KB)**
 Start Date: **2010.11.03** End Date: **2010.11.03**
 Start Time: **07:00:05** End Time: **14:18:50**
 Capacity: **8000.00 psig**
 Last Calib.: **2010.11.03**
 Time On Btm: **2010.11.03 @ 09:00:10**
 Time Off Btm: **2010.11.03 @ 11:48:50**

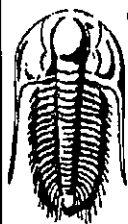
TEST COMMENT: IF- Good blow BOB 30sec.
 IS- No blow back.
 FF- Weak blow that died after 14min.
 FS- No blow back.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2007.46	100.57	Initial Hydro-static
7	62.53	102.22	Open To Flow (1)
10	70.97	102.66	Shut-In(1)
69	1107.01	103.72	End Shut-In(1)
69	930.50	103.70	Open To Flow (2)
98	1119.64	104.16	Shut-In(2)
165	1118.34	105.53	End Shut-In(2)
169	2001.17	105.67	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
120.00	100% mud	0.59

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



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FLUID SUMMARY

Agricultural Energy Services
1755 W Broadway St. Suite 6 Oviedo Fl. 32763
ATTN: Brad Rine

Don Thorp 2-23
23/33/31
Job Ticket: 40295 **DST#: 2**
Test Start: 2010.11.03 @ 07:00:00

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2300.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

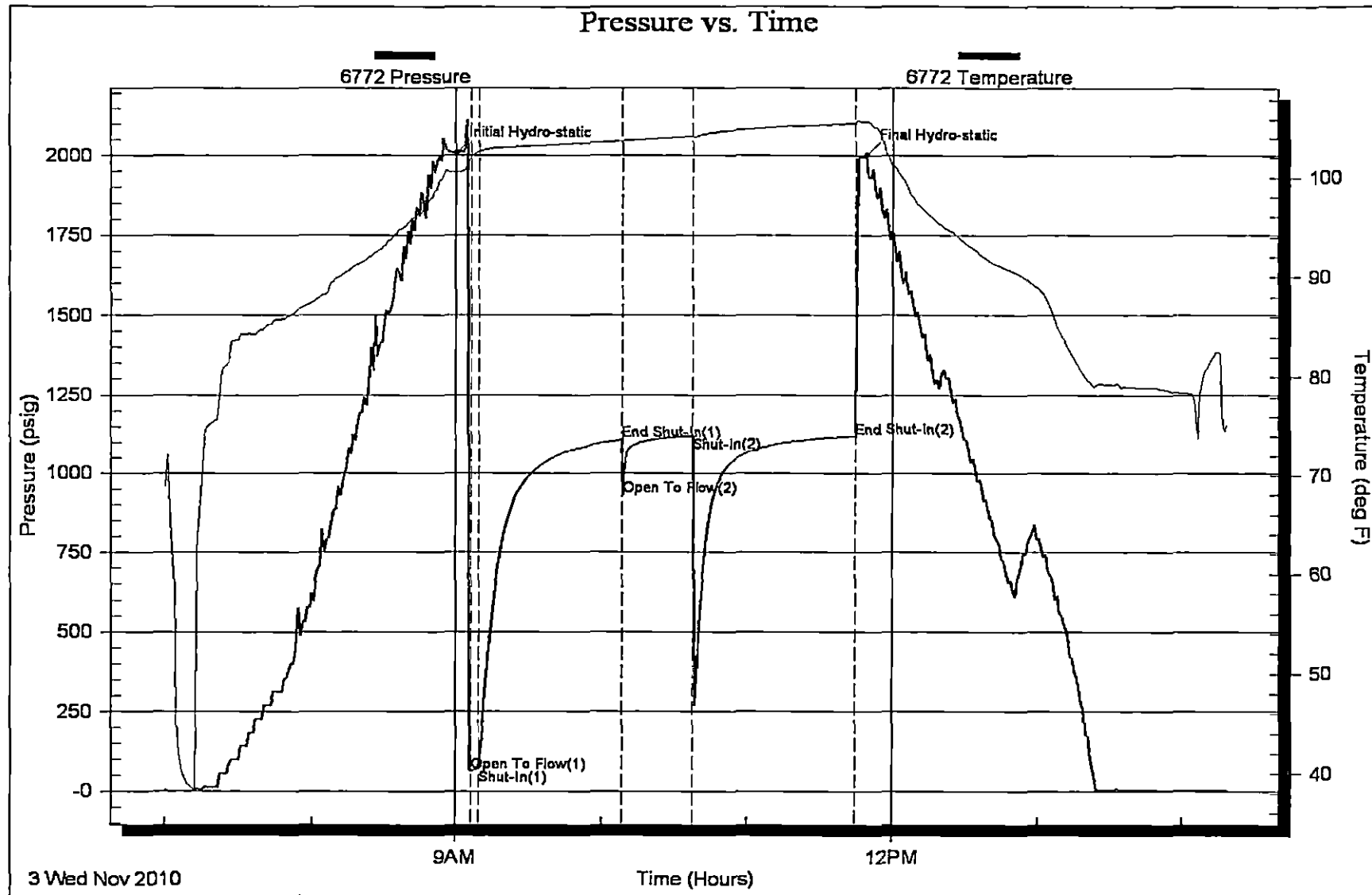
Length ft	Description	Volume bbl
120.00	100% mud	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: Tool plugged on 2nd opening.

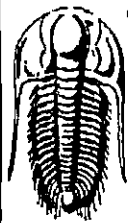
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ATTN: Brad Rine

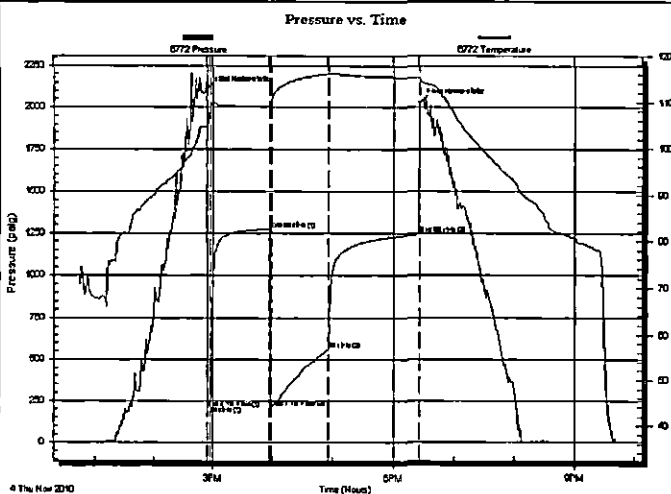
Don Thorp 2-23
23/33/31
Job Ticket: 40296 DST#: 3
Test Start: 2010.11.04 @ 12:45:00

GENERAL INFORMATION:

Formation: **KC**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 14:55:05
Time Test Ended: 21:41:19
Interval: **4474.00 ft (KB) To 4505.00 ft (KB) (TVD)**
Total Depth: **4505.00 ft (KB) (TVD)**
Hole Diameter: **7.78 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Harley Davidson**
Unit No: **33**
Reference Elevations: **2756.00 ft (KB)**
2746.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6772 **Inside**
Press@RunDepth: **559.83 psig @ 4476.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.11.04** End Date: **2010.11.04** Last Calib.: **2010.11.04**
Start Time: **12:45:05** End Time: **21:41:20** Time On Btm: **2010.11.04 @ 14:52:55**
Time Off Btm: **2010.11.04 @ 18:26:20**

TEST COMMENT: IF- Strong blow BOB 1min.
IS- No blow back.
FF- Strong blow BOB ASAO.
FS- GTS after shut in 10" blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2105.15	104.74	Initial Hydro-static
3	201.54	105.13	Open To Flow (1)
6	216.65	109.13	Shut-in(1)
65	1271.02	109.21	End Shut-in(1)
67	209.54	110.47	Open To Flow (2)
124	559.83	116.11	Shut-in(2)
213	1239.41	115.29	End Shut-in(2)
214	2029.22	115.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
650.00	Trace of oil,gas,mud. 100% water	3.27
500.00	10%oil 15%gas75%water trace of mud	7.01

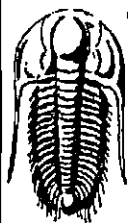
Gas Rates

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

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Agricultural Energy Services
1755 W Broadway St. Suite 6 Oviedo Fl. 32763
ATTN: Brad Rine

Don Thorp 2-23
23/33/31
Job Ticket: 40296 **DST#: 3**
Test Start: 2010.11.04 @ 12:45:00

Mud and Cushion Information

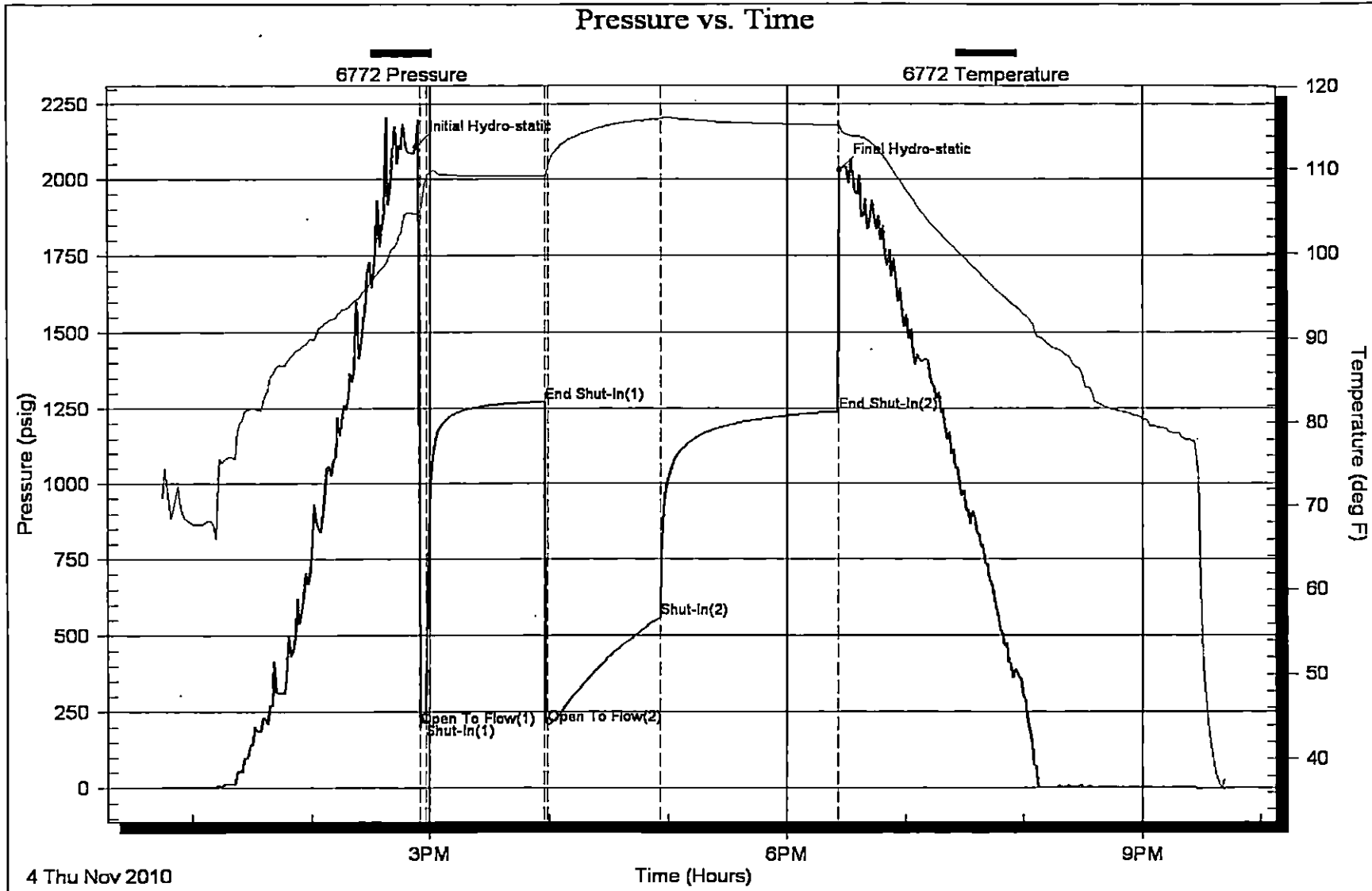
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

Recovery Information

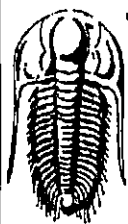
Recovery Table

Length ft	Description	Volume bbl
650.00	Trace of oil,gas,mud. 100% w ater	3.269
500.00	10%oil 15%gas75%w ater trace of mud	7.014

Total Length: 1150.00 ft Total Volume: 10.283 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 1.3 RW @ 45= 11000 Water Salinity



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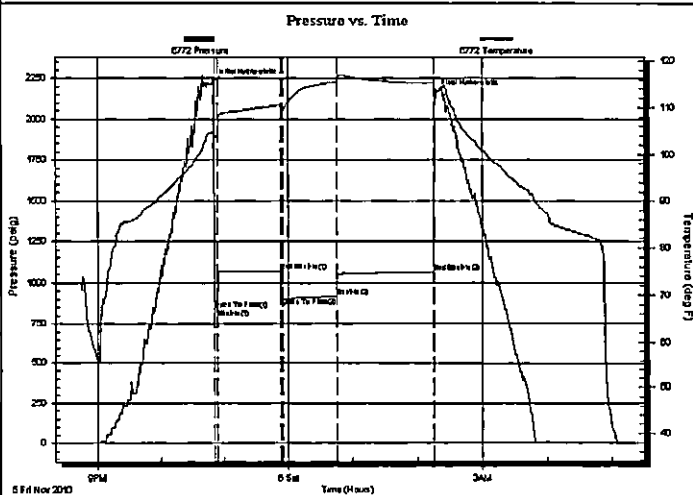
Don Thorp 2-23
23/33/31
Job Ticket: 40297 **DST#: 4**
Test Start: 2010.11.05 @ 20:45:00

GENERAL INFORMATION:

Formation: **Drum 2**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:51:45
Time Test Ended: 05:05:50
Test Type: Conventional Bottom Hole
Tester: Harley Davidson
Unit No: 33
Interval: 4679.00 ft (KB) To 4720.00 ft (KB) (TVD)
Total Depth: 4720.00 ft (KB) (TVD)
Reference Elevations: 2756.00 ft (KB)
2746.00 ft (CF)
Hole Diameter: 7.78 inches Hole Condition: Fair
KB to GR/CF: 10.00 ft

Serial #: 6772 Outside
Press@RunDepth: 914.14 psig @ 4682.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.11.05 End Date: 2010.11.06 Last Calib.: 2010.11.06
Start Time: 20:45:05 End Time: 05:05:50 Time On Btm: 2010.11.05 @ 22:49:40
Time Off Btm: 2010.11.06 @ 02:15:30

TEST COMMENT: IF- Strong blow BOB ASAO, GTS 3min.
IS- No blow back.
FF- Strong blow BOB GTS, ASAO.
FS- No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2223.17	104.90	Initial Hydro-static
3	836.51	103.66	Open To Flow (1)
5	839.97	104.25	Shut-In(1)
64	1070.13	110.56	End Shut-In(1)
66	856.39	109.39	Open To Flow (2)
116	914.14	115.46	Shut-In(2)
206	1062.39	115.26	End Shut-In(2)
206	2160.99	113.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	Gassy Mud	0.47

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	125.00	4007.59
Last Gas Rate	1.00	125.00	4007.59
Max. Gas Rate	1.00	125.00	4007.59



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FLUID SUMMARY

Agricultural Energy Services
1755 W Broadway St. Suite 6 Oviedo Fl. 32763

ATTN: Brad Rine

Don Thorp 2-23
23/33/31
Job Ticket: 40297 **DST#: 4**
Test Start: 2010.11.05 @ 20:45:00

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

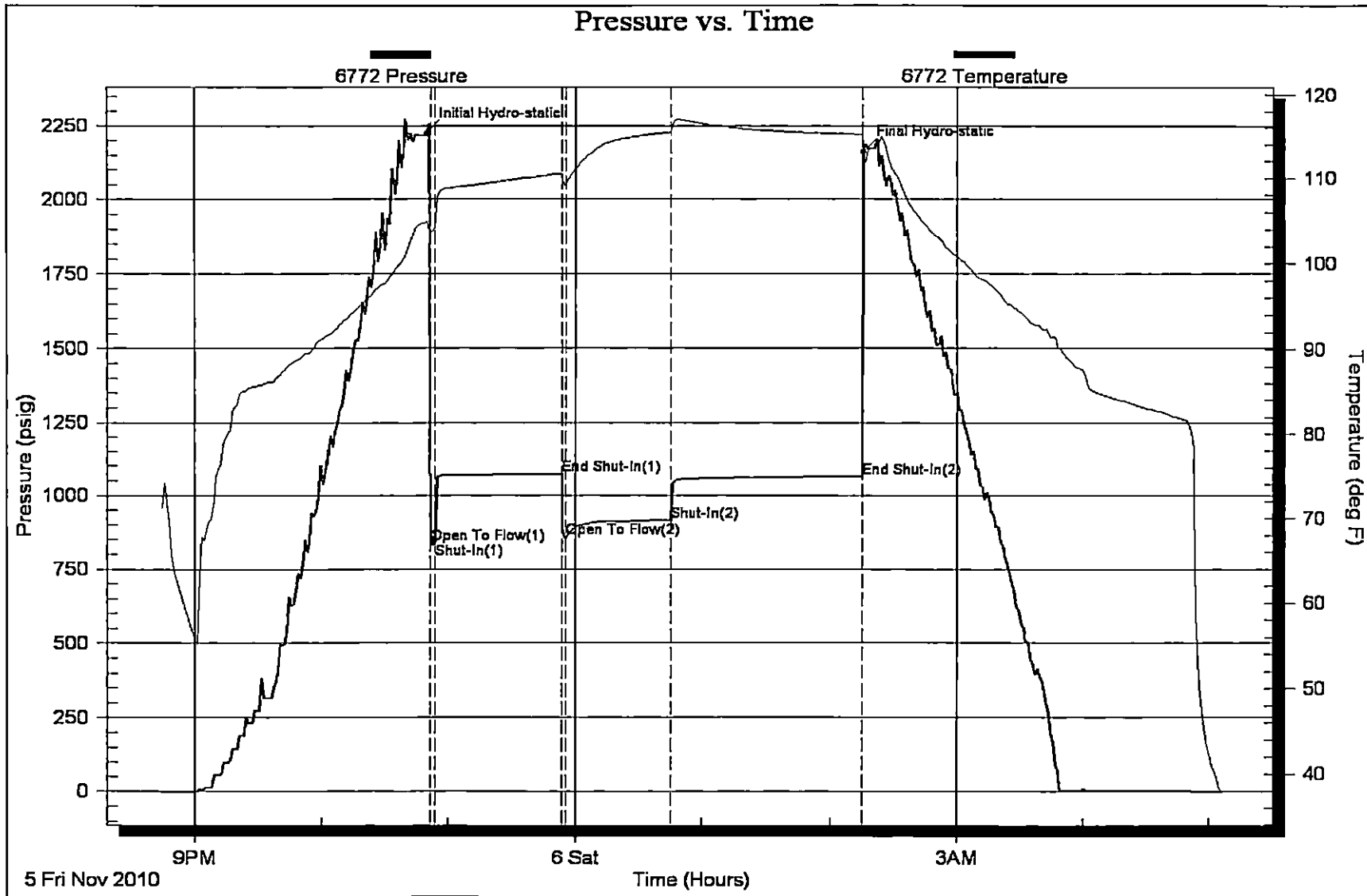
Length ft	Description	Volume bbl
95.00	Gassy Mud	0.467

Total Length: 95.00 ft Total Volume: 0.467 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

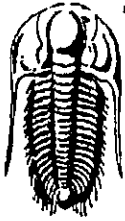
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FLUID SUMMARY

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Don Thorp 2-23

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23/33/31

Job Ticket: 40298

DST#: 5

ATTN: Brad Rine

Test Start: 2010.11.07 @ 02:30:00

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	5%water10%oil40%gas45%mud	0.885

Total Length: 180.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #:

Laboratory Name:

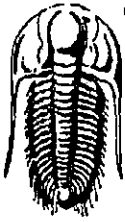
Laboratory Location:

Recovery Comments:

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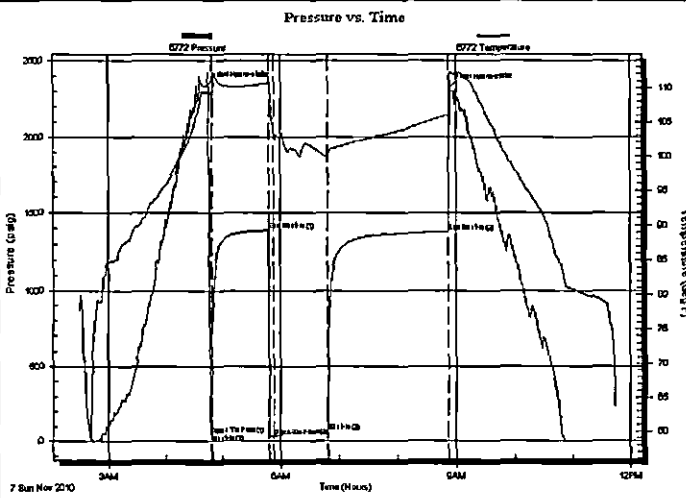
Don Thorp 2-23
23/33/31
 Job Ticket: 40298 **DST#: 5**
 Test Start: 2010.11.07 @ 02:30:00

GENERAL INFORMATION:

Formation: **Swope**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole
 Time Tool Opened: 04:48:40
 Tester: Harley Davidson
 Time Test Ended: 11:45:00
 Unit No: 33
 Interval: 4884.00 ft (KB) To 4894.00 ft (KB) (TVD)
 Reference Elevations: 2756.00 ft (KB)
 Total Depth: 4894.00 ft (KB) (TVD)
 2746.00 ft (CF)
 Hole Diameter: 7.78 inches Hole Condition: Fair
 KB to GR/CF: 10.00 ft

Serial #: 6772 **Outside**
 Press@RunDepth: 68.39 psig @ 4886.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.11.07 End Date: 2010.11.07 Last Calib.: 2010.11.07
 Start Time: 02:30:05 End Time: 11:45:00 Time On Btm: 2010.11.07 @ 04:43:05
 Time Off Btm: 2010.11.07 @ 08:53:54

TEST COMMENT: IF- Strong blow BOB ASAO, GTS 3min.
 IS- No blow back.
 FF- Strong blow BOB,GTS, ASAO.
 FS- No blow back.

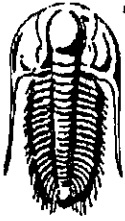


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2336.49	109.23	Initial Hydro-static
6	46.41	107.75	Open To Flow (1)
7	47.12	107.26	Shut-In(1)
66	1385.37	110.66	End Shut-In(1)
71	33.30	103.60	Open To Flow (2)
127	68.39	99.66	Shut-In(2)
251	1375.13	106.05	End Shut-In(2)
251	2322.62	111.61	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
180.00	5%water10%oil40%gas45%mud	0.89

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	6.00	137.61
Last Gas Rate	0.50	5.00	130.87
Max. Gas Rate	0.50	6.00	137.61

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GAS RATES

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23/33/31

Job Ticket: 40298

DST#: 5

ATTN: Brad Rine

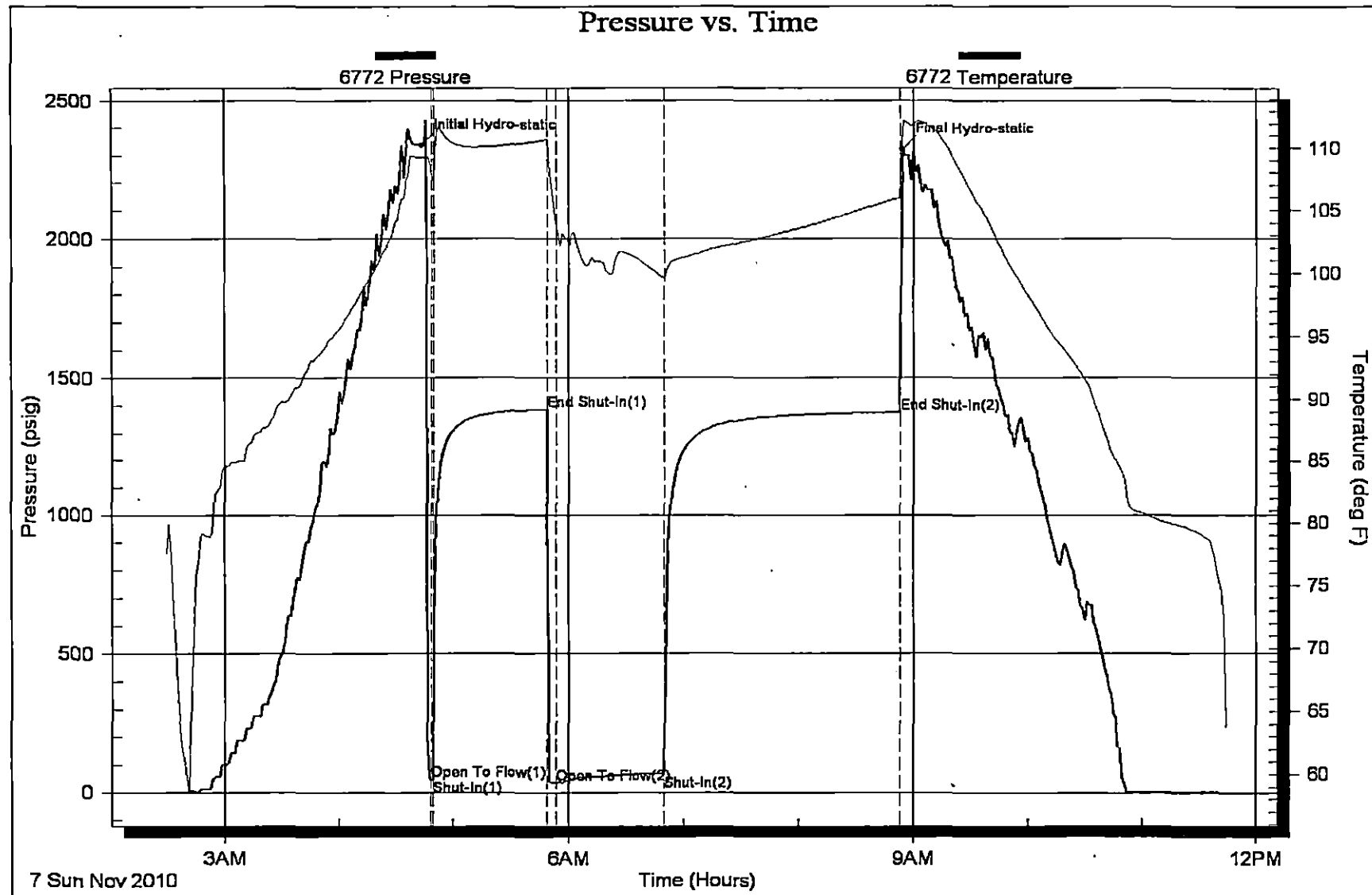
Test Start: 2010.11.07 @ 02:30:00

Gas Rates Information

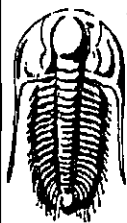
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.50	6.00	137.61
2	20	0.50	5.00	130.87
2	30	0.50	5.00	130.87
2	40	0.50	5.00	130.87
2	50	0.50	5.00	130.87
2	60	0.50	5.00	130.87



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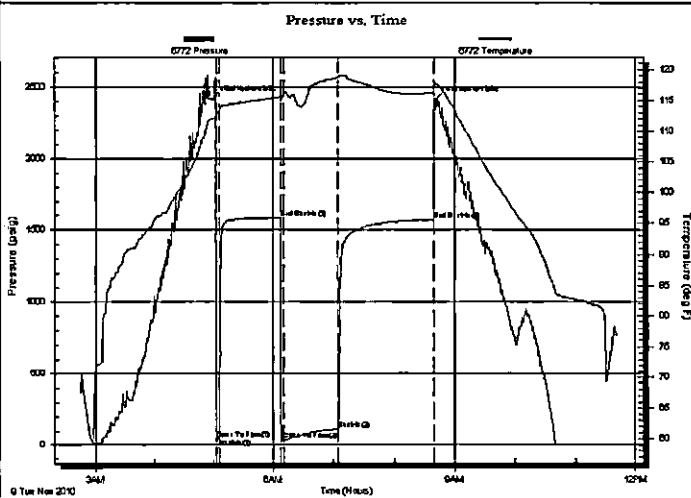
Don Thorp 2-23
23/33/31
Job Ticket: 40299 **DST#: 6**
Test Start: 2010.11.09 @ 02:45:00

GENERAL INFORMATION:

Formation: **Ft. Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:03:40
Time Test Ended: 11:41:40
Interval: **5157.00 ft (KB) To 5174.00 ft (KB) (TVD)**
Total Depth: 5174.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Harley Davidson
Unit No: 33
Reference Elevations: 2756.00 ft (KB)
2746.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6772 **Outside**
Press@RunDepth: 112.45 psig @ 5159.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.11.09 End Date: 2010.11.09 Last Calib.: 2010.11.09
Start Time: 02:45:05 End Time: 11:41:40 Time On Btm: 2010.11.09 @ 04:58:20
Time Off Btm: 2010.11.09 @ 08:40:24

TEST COMMENT: IF- Strong blow BOB ASAO.
IS- No blow back.
FF- Strong blow BOB, ASAO, BOB 3min.
FS- No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2415.00	112.01	Initial Hydro-static
6	41.29	112.68	Open To Flow (1)
8	41.91	113.34	Shut-In(1)
70	1585.20	115.59	End Shut-In(1)
72	37.34	115.80	Open To Flow (2)
127	112.45	118.73	Shut-In(2)
221	1571.68	116.30	End Shut-In(2)
223	2407.68	117.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
215.00	15%gas15%water40%oil30%mud	1.06

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	11.00	40.30
Last Gas Rate	0.25	29.00	68.85
Max. Gas Rate	0.25	29.00	68.85



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DRILL STEM TEST REPORT

FLUID SUMMARY

Agricultural Energy Services
1755 W Broadway St. Suite 6 Oviedo Fl. 32763
ATTN: Brad Rine

Don Thorp 2-23
23/33/31
Job Ticket: 40299 **DST#: 6**
Test Start: 2010.11.09 @ 02:45:00

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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
215.00	15%gas15%water40%oil30%mud	1.057

Total Length: 215.00 ft Total Volume: 1.057 bbl

Num Fluid Samples: 1 Num Gas Bombs: 1 Serial #:

Laboratory Name: Caraway Laboratory Location:

Recovery Comments:



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GAS RATES

Agricultural Energy Services
1755 W Broadway St. Suite 6 Oviedo Fl. 32763

Don Thorp 2-23

23/33/31

Job Ticket: 40299

DST#: 6

ATTN: Brad Rine

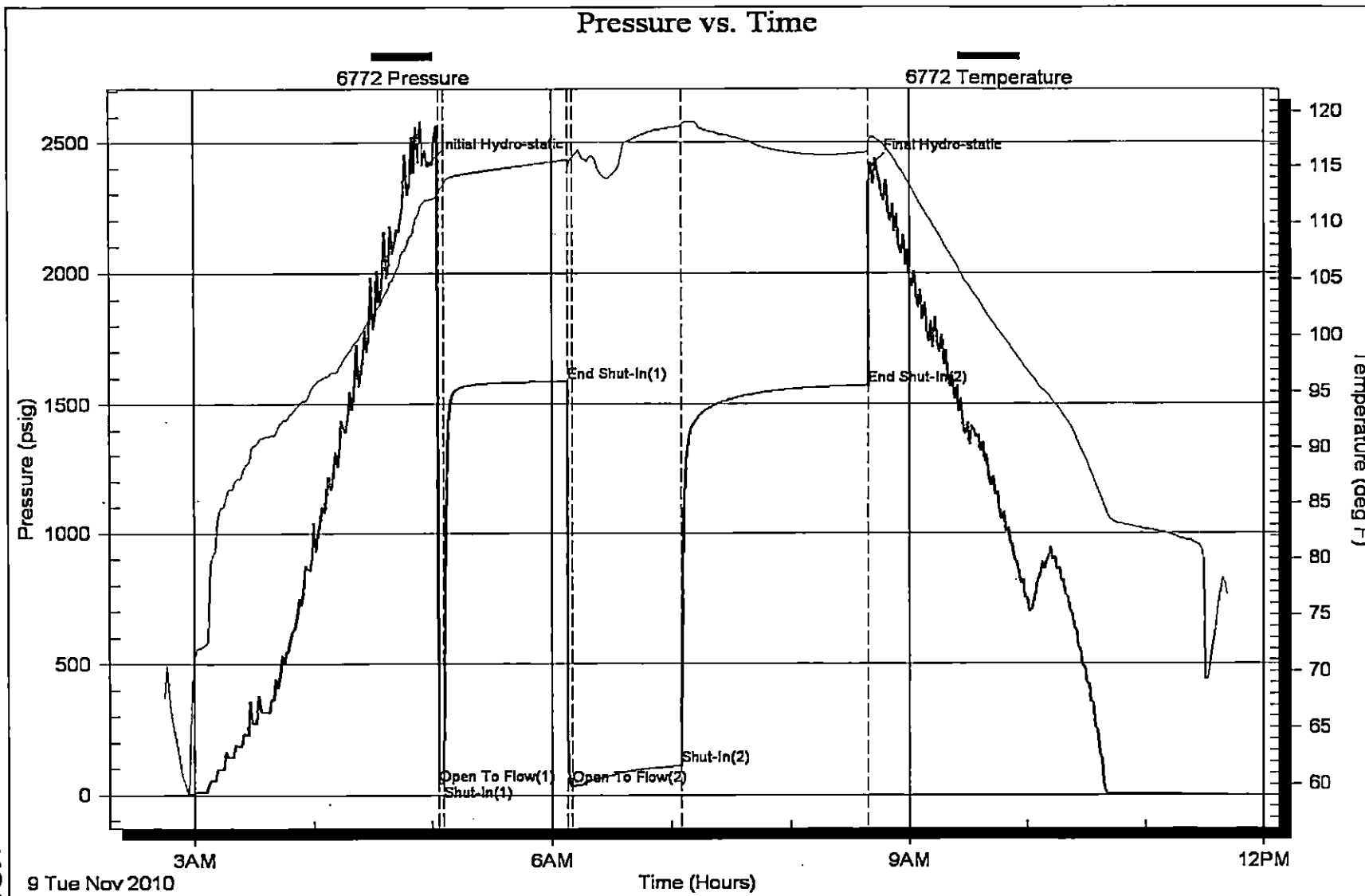
Test Start: 2010.11.09 @ 02:45:00

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.25	11.00	40.30
2	20	0.25	20.00	54.57
2	30	0.25	27.00	65.68
2	40	0.25	29.00	68.85
2	50	0.25	29.00	68.85
2	60	0.25	29.00	68.85

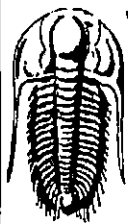


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Time (Hours)

Temperature (deg F)

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Agricultural Energy Services

Don Thorp 2-23

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23/33/31

Job Ticket: 40300

DST#: 7

ATTN: Brad Rine

Test Start: 2010.11.10 @ 17:45:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:24:40

Time Test Ended: 03:45:00

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: 33

Interval: **5332.00 ft (KB) To 5390.00 ft (KB) (TVD)**

Reference Elevations: 2756.00 ft (KB)

Total Depth: 5390.00 ft (KB) (TVD)

2746.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6772 Outside

Press@RunDepth: 218.04 psig @ 5335.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.11.10

End Date:

2010.11.11

Last Calib.: 2010.11.11

Start Time: 17:45:05

End Time:

03:45:00

Time On Btm: 2010.11.10 @ 20:16:20

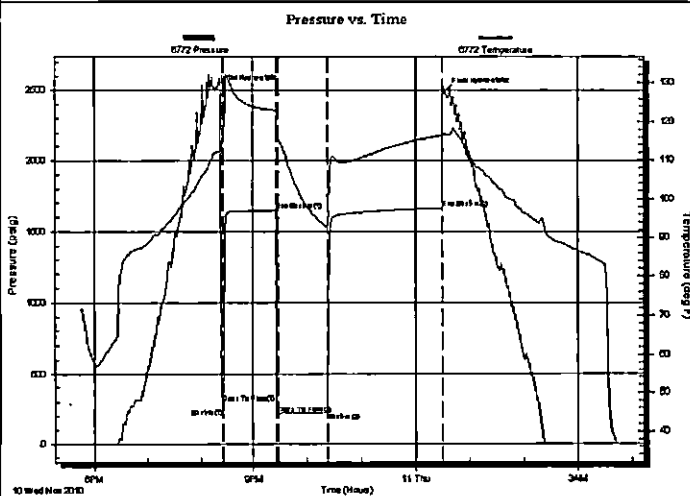
Time Off Btm: 2010.11.11 @ 00:32:35

TEST COMMENT: IF- Strong blow BOB ASAO, GTS 3min.

IS- No blow back.

FF- Strong blow BOB, GTS, ASAO.

FS- No blow back.



PRESSURE SUMMARY

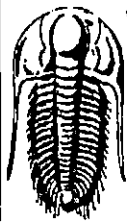
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2506.30	111.68	Initial Hydro-static
9	296.70	114.17	Open To Flow (1)
10	253.01	114.46	Shut-In(1)
70	1647.09	122.71	End Shut-In(1)
72	209.72	114.99	Open To Flow (2)
127	218.04	92.33	Shut-In(2)
254	1665.24	116.47	End Shut-In(2)
257	2486.56	116.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
280.00	100% mud with scum of oil	1.38

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	20.00	988.96
Last Gas Rate	1.00	24.00	1103.95
Max. Gas Rate	1.00	24.00	1103.95



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Agricultural Energy Services
1755 W Broadway St. Suite 6 Oviedo Fl. 32763

ATTN: Brad Rine

Don Thorp 2-23
23/33/31
Job Ticket: 40300 **DST#:7**
Test Start: 2010.11.10 @ 17:45:00

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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
280.00	100% mud with scum of oil	1.377

Total Length: 280.00 ft Total Volume: 1.377 bbl

Num Fluid Samples: 1 Num Gas Bombs: 1 Serial #:

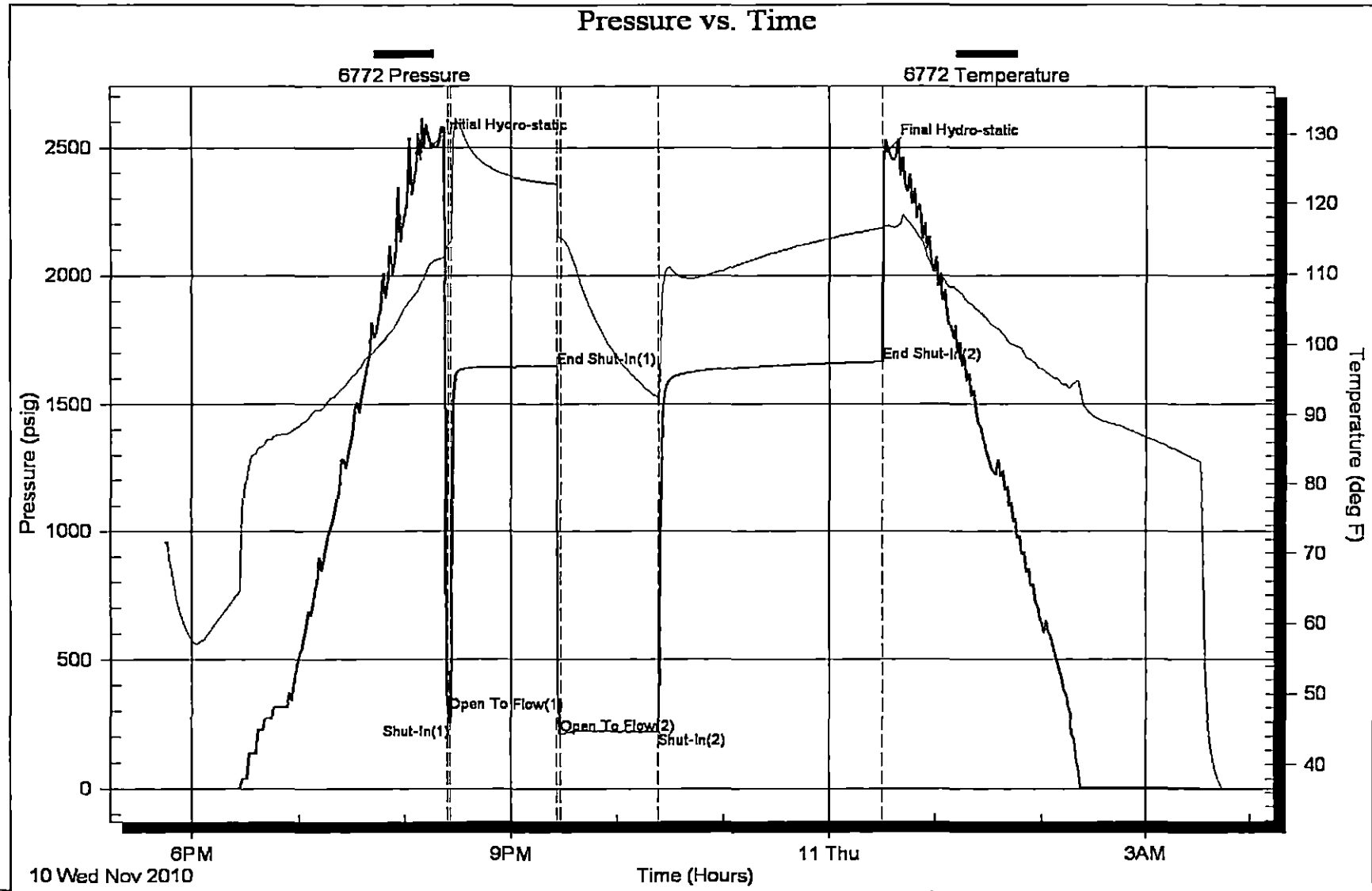
Laboratory Name: Caraway Laboratory Location: Liberal, KS

Recovery Comments:

KCC WICHITA

JUN 25 2014

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