



KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1055822

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: _____

1055822

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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Form	ACO1 - Well Completion
Operator	Hitschmann, Curtis Lee dba Curt's Oil Operations
Well Name	Befort 6
Doc ID	1055822

Tops

Name	Top	Datum
Anhydrite	1504	+728
Anhdrite Base	1551	+681
Topeka	3218	-986
Heebner	3469	-1237
Toronto	3490	-1258
Lansing	3510	-1278
Base KC	3754	-1522
Marmaton	3794	-1562
Gorham	3822	-1590
Arbuckle	3841	-1609
Reagon	3857	-1625



Weatherford®

Completion Systems

DRILL STEM TEST REPORT

Prepared For: **Curt's Oil Operations**

P.O. Box 328
Hosington KS 67544-0328

ATTN: Jason Alm

11-14s-20w Ellis KS

Befort #6

Start Date: 2011.02.02 @ 08:02:01

End Date: 2011.02.02 @ 15:49:30

Job Ticket #: 041545 DST #: 1

ALPINE OIL SERVICES CORPORATION
2460, 240 - 4 Avenue S.W. Calgary, AB. T2P 4H4
ph: 263-7800 fax: 264-7260



Weatherford® Completion Systems

DRILL STEM TEST REPORT

Curt's Oil Operations

P.O. Box 328
Hosington KS 67544-0328

ATTN: Jason Alm

Befort #6

11-14s-20w Ellis KS

Job Ticket: 041545

DST#: 1

Test Start: 2011.02.02 @ 08:02:01

GENERAL INFORMATION:

Formation: **Gorham Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:49:30

Time Test Ended: 15:49:30

Interval: 3814.00 ft (KB) To 3850.00 ft (KB) (TVD)

Total Depth: 3850.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 31

Reference Elevations: 2232.00 ft (KB)

2224.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8650 Outside

Press@RunDepth: 31.11 psig @ 3815.00 ft (KB)

Start Date: 2011.02.02

End Date:

2011.02.02

Start Time: 08:02:01

End Time:

15:49:30

Capacity: 8000.00 psig

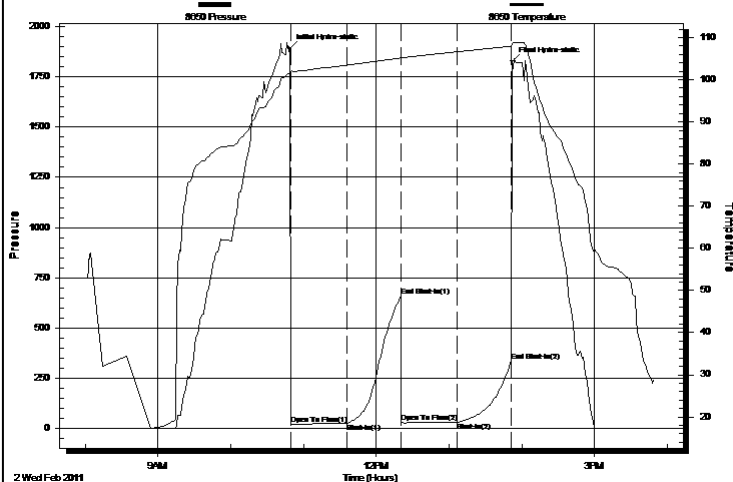
Last Calib.: 2011.02.02

Time On Btm: 2011.02.02 @ 10:48:30

Time Off Btm: 2011.02.02 @ 13:52:00

TEST COMMENT: IF: Fair blow , 2 inches
IS: No Return
FF: Fair blow , 2 inches
FS: No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1891.23	101.77	Initial Hydro-static
1	19.10	101.59	Open To Flow (1)
48	26.82	103.45	Shut-In(1)
92	657.03	105.15	End Shut-In(1)
92	29.03	104.91	Open To Flow (2)
138	31.11	106.61	Shut-In(2)
183	332.98	107.91	End Shut-In(2)
184	1827.49	108.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
19.00	Mud	0.09
1.00	Oil	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)
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Weatherford® Completion Systems

DRILL STEM TEST REPORT

Curt's Oil Operations

P.O. Box 328
Hosington KS 67544-0328

ATTN: Jason Alm

Befort #6

11-14s-20w Ellis KS

Job Ticket: 041545

DST#: 1

Test Start: 2011.02.02 @ 08:02:01

GENERAL INFORMATION:

Formation: **Gorham Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:49:30

Time Test Ended: 15:49:30

Interval: 3814.00 ft (KB) To 3850.00 ft (KB) (TVD)

Total Depth: 3850.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 31

Reference Elevations: 2232.00 ft (KB)

2224.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8017 Inside

Press@RunDepth: psig @ 3815.00 ft (KB)

Start Date: 2011.02.02

End Date:

2011.02.02

Start Time: 08:01:25

End Time:

15:50:49

Capacity: 8000.00 psig

Last Calib.:

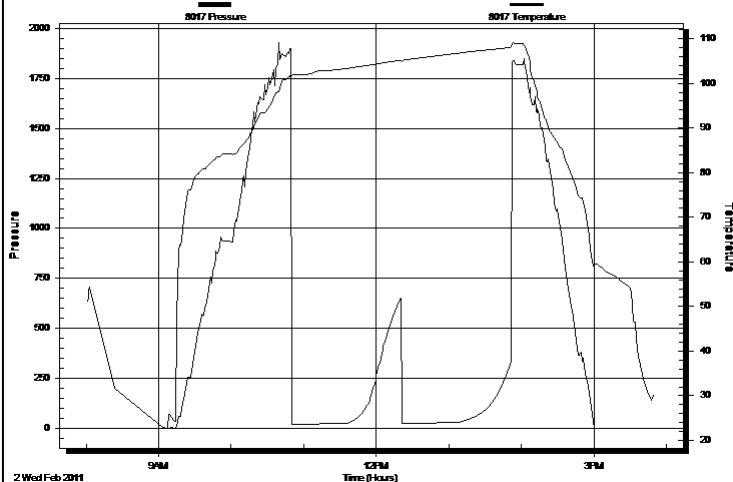
2011.02.02

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Fair blow , 2 inches
IS: No Return
FF: Fair blow , 2 inches
FS: No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
19.00	Mud	0.09
1.00	Oil	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)
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Weatherford®
Completion Systems

DRILL STEM TEST REPORT

TOOL DIAGRAM

Curt's Oil Operations

Befort #6

P.O. Box 328
Hosington KS 67544-0328

11-14s-20w Ellis KS

Job Ticket: 041545

DST#: 1

ATTN: Jason Alm

Test Start: 2011.02.02 @ 08:02:01

Tool Information

Drill Pipe:	Length:	3767.00 ft	Diameter:	3.80 inches	Volume:	52.84 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length:	31.52 ft	Diameter:	2.25 inches	Volume:	0.16 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	53.00 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		12.52 ft					String Weight: Initial	52000.00 lb
Depth to Top Packer:		3814.00 ft					Final	53000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		36.00 ft						
Tool Length:		64.00 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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Change Over Sub	1.00			3787.00	
Shut In Tool	5.00			3792.00	
Hydraulic tool	5.00			3797.00	
Jars	5.00			3802.00	
Safety Joint	3.00			3805.00	
Packer	5.00			3810.00	28.00 Bottom Of Top Packer
Packer	4.00			3814.00	
Stubb	1.00			3815.00	
Recorder	0.00	8017	Inside	3815.00	
Recorder	0.00	8650	Outside	3815.00	
Perforations	32.00			3847.00	
Bullnose	3.00			3850.00	36.00 Bottom Packers & Anchor

Total Tool Length: 64.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Curt's Oil Operations

Befort #6

P.O. Box 328
Hosington KS 67544-0328

11-14s-20w Ellis KS

Job Ticket: 041545

DST#: 1

ATTN: Jason Alm

Test Start: 2011.02.02 @ 08:02:01

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 7.39 in³

Resistivity: ohm.m

Salinity: 2700.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
19.00	Mud	0.093
1.00	Oil	0.005

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

GAS RATES

Curt's Oil Operations

Befort #6

P.O. Box 328
Hosington KS 67544-0328

11-14s-20w Ellis KS

Job Ticket: 041545

DST#: 1

ATTN: Jason Alm

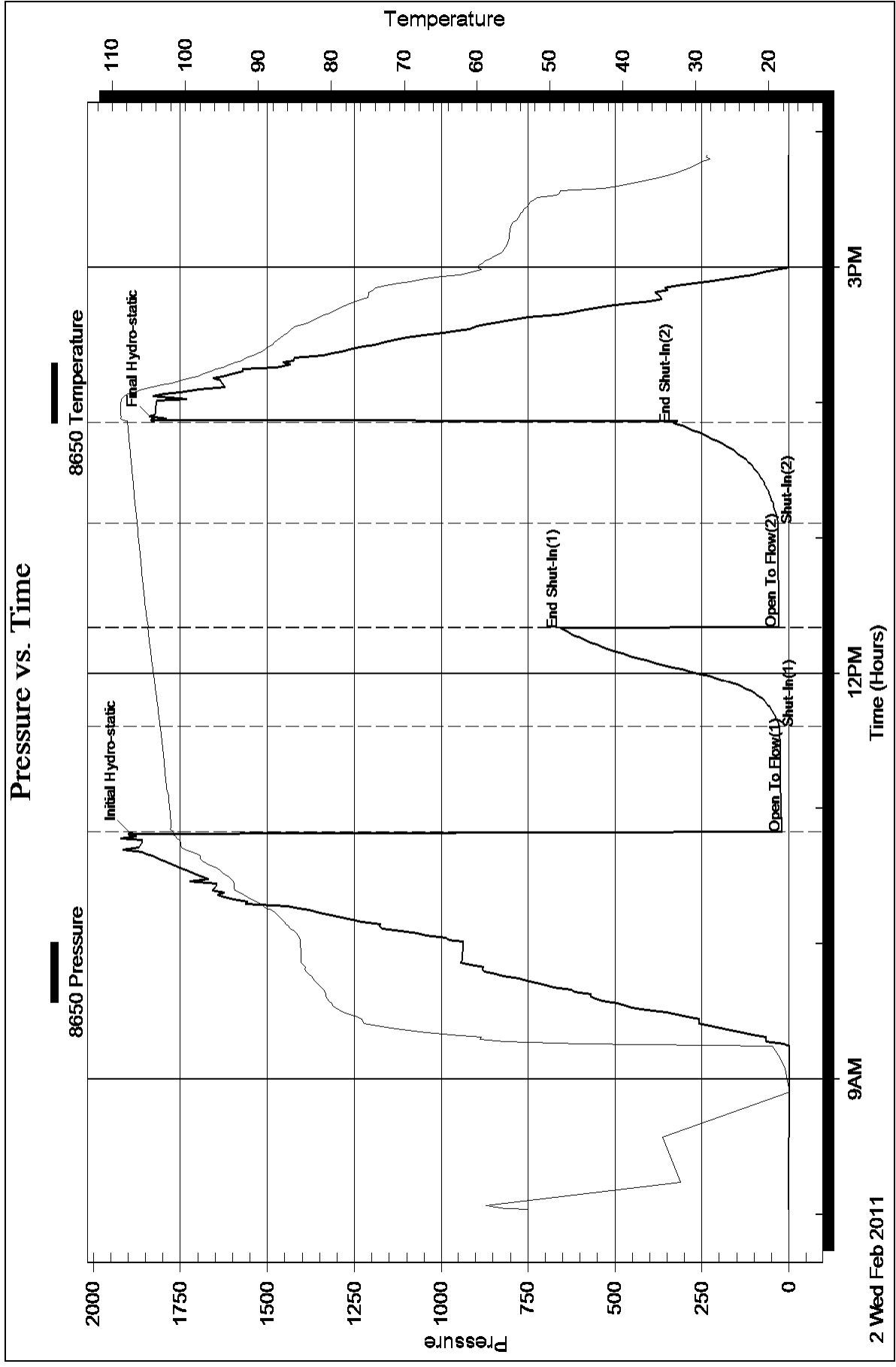
Test Start: 2011.02.02 @ 08:02:01

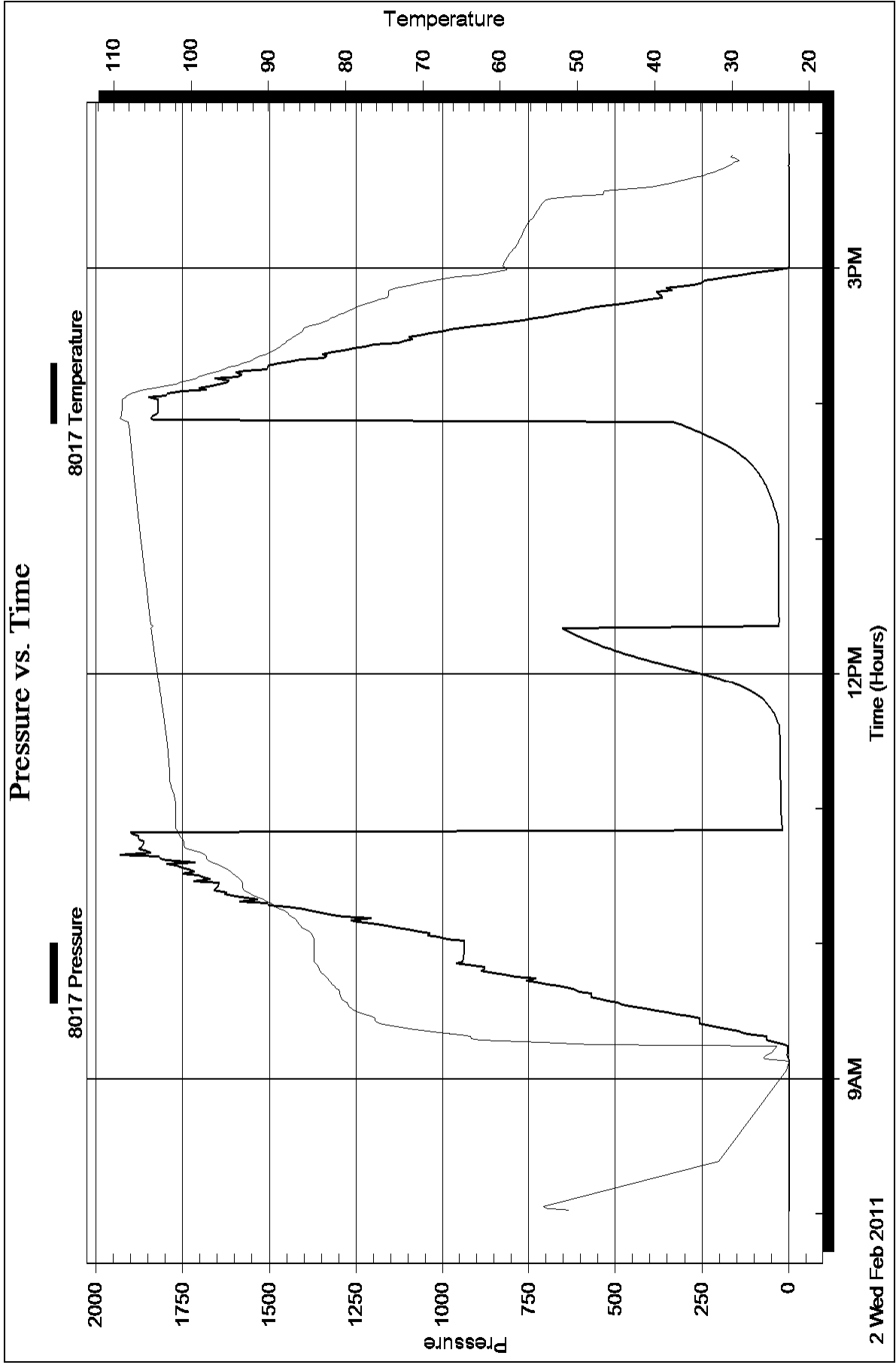
Gas Rates Information

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 (m³/d)
		0.00	0.00	0.00







Weatherford®
Completion Systems

DRILL STEM TESTING - DATA LISTING

Curt's Oil Operations

P.O. Box 328
Hosington KS 67544-0328

ATTN: Jason Alm

Befort #6

11-14s-20w Ellis KS

Job Ticket: 041545

DST#: 1

Test Start: 2011.02.02 @ 08:02:01

Serial # 8650 Outside				Serial # 8650 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.32	53.1		1.6	-0.28	58.4
	0.1	-0.28	53.3		1.7	-0.27	58.4
	0.1	-0.28	53.5		1.8	-0.27	58.5
	0.2	-0.30	53.7		1.8	-0.29	58.6
	0.2	-0.34	53.9		1.9	-0.30	58.6
	0.3	-0.37	54.0		1.9	-0.32	58.7
	0.3	-0.38	54.3		2.0	-0.34	58.8
	0.3	-0.38	54.7		12.0	-0.40	32.0
	0.4	-0.37	55.1		42.0	-1.25	19.0
	0.4	-0.37	55.5		62.5	-1.37	17.8
	0.5	-0.36	55.8		64.0	-1.35	18.0
	0.6	-0.34	56.1		65.5	-1.32	18.2
	0.6	-0.32	56.3		67.0	-1.29	18.4
	0.6	-0.31	56.5		68.5	-1.28	18.7
	0.7	-0.30	56.6		70.0	-1.27	19.0
	0.8	-0.31	56.8		71.5	-1.25	19.3
	0.8	-0.31	56.9		73.0	15.78	33.1
	0.9	-0.31	57.0		74.5	65.75	56.2
	0.9	-0.30	57.1		76.0	65.16	59.5
	0.9	-0.28	57.2		77.5	103.89	63.6
	1.0	-0.27	57.3		79.0	134.94	68.2
	1.0	-0.27	57.4		80.5	196.86	71.8
	1.1	-0.26	57.5		82.0	258.87	74.4
	1.1	-0.27	57.6		83.5	257.33	75.8
	1.2	-0.27	57.7		85.0	242.57	75.8
	1.3	-0.27	57.7		86.5	322.11	77.5
	1.3	-0.28	57.8		88.0	384.21	78.7
	1.4	-0.28	57.9		89.5	451.99	79.5
	1.4	-0.27	58.0		91.0	477.77	79.9
	1.5	-0.27	58.1		92.5	535.10	80.3
	1.5	-0.27	58.1		94.0	571.70	80.7
	1.5	-0.27	58.2		95.5	568.76	80.8
	1.6	-0.27	58.3		97.0	602.39	81.0

Printing every 3 samples

Serial # 8650 Outside				Serial # 8650 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	676.23	81.4		160.0	1873.83	100.4
	100.0	695.99	81.9		161.5	1865.20	100.6
	101.5	753.18	82.3		163.0	1860.53	100.7
	103.0	789.42	82.7		164.5	1921.00	101.1
	104.5	842.19	83.1		165.5	1876.27	101.4
	106.0	881.64	83.5		166.0	1916.24	101.4
	107.5	877.05	83.6	Initial Hydro-static	166.5	1891.23	101.8
	109.0	950.38	84.0		167.0	1898.03	101.8
	110.5	939.91	84.2	Open To Flow (1)	167.5	19.10	101.6
	112.0	937.25	84.2		168.0	19.39	101.9
	113.5	936.68	84.2		169.5	19.72	102.0
	115.0	936.12	84.2		171.0	20.17	102.0
	116.5	935.70	84.2		172.5	20.71	102.0
	118.0	935.21	84.2		174.0	21.24	102.1
	119.5	978.03	84.3		175.5	21.62	102.1
	121.0	1007.17	84.5		177.0	21.92	102.1
	122.5	1068.23	84.8		178.5	22.23	102.2
	124.0	1099.66	85.4		180.0	22.66	102.2
	125.5	1177.99	85.9		181.5	22.77	102.3
	127.0	1146.23	86.3		183.0	23.16	102.3
	128.5	1256.08	86.7		184.5	23.39	102.4
	130.0	1305.62	87.2		186.0	23.61	102.5
	131.5	1348.52	87.7		187.5	24.18	102.6
	133.0	1448.11	88.4		189.0	24.00	102.6
	134.5	1441.13	89.3		190.5	24.06	102.7
	136.0	1504.66	90.1		192.0	24.36	102.8
	137.5	1595.22	90.8		193.5	24.81	102.8
	139.0	1596.59	91.7		195.0	24.89	102.8
	140.5	1624.59	92.5		196.5	24.98	102.8
	142.0	1655.42	93.3		198.0	25.05	102.9
	143.5	1647.67	93.3		199.5	25.07	102.9
	145.0	1645.17	93.4		201.0	25.10	103.0
	146.5	1668.52	93.7		202.5	25.20	103.0
	148.0	1705.63	94.3		204.0	24.97	103.1
	149.5	1718.42	94.9		205.5	25.03	103.1
	151.0	1776.39	95.4		207.0	25.19	103.2
	152.5	1765.72	96.5		208.5	25.49	103.2
	154.0	1817.69	97.3		210.0	26.03	103.3
	155.5	1812.78	97.9		211.5	26.12	103.4
	157.0	1826.18	98.1		213.0	26.18	103.4
	158.5	1859.82	99.1		213.5	26.23	103.4

Printing every 3 samples

Serial # 8650 Outside				Serial # 8650 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
Shut-In(1)	214.0	26.82	103.5		267.0	28.95	105.5
	214.5	28.08	103.5		268.5	28.99	105.5
	215.0	29.48	103.5		270.0	29.06	105.6
	215.5	30.76	103.5		271.5	29.12	105.6
	217.0	34.88	103.6		273.0	29.20	105.7
	218.5	39.51	103.6		274.5	29.29	105.7
	220.0	44.77	103.7		276.0	29.39	105.8
	221.5	50.71	103.7		277.5	29.48	105.8
	223.0	57.64	103.8		279.0	29.59	105.8
	224.5	65.91	103.8		280.5	29.67	105.9
	226.0	75.45	103.9		282.0	29.74	105.9
	227.5	87.10	104.0		283.5	29.80	106.0
	229.0	101.39	104.0		285.0	29.87	106.0
	230.5	119.17	104.1		286.5	29.91	106.1
	232.0	140.02	104.1		288.0	29.97	106.1
	233.5	165.41	104.2		289.5	30.06	106.2
	235.0	194.94	104.3		291.0	30.16	106.2
	236.5	229.13	104.3		292.5	30.25	106.3
	238.0	266.80	104.4		294.0	30.36	106.3
	239.5	306.48	104.4		295.5	30.48	106.3
	241.0	346.18	104.5		297.0	30.55	106.4
	242.5	384.72	104.6		298.5	30.67	106.4
	244.0	421.33	104.6		300.0	30.73	106.5
	245.5	455.41	104.7		301.5	30.78	106.5
	247.0	486.91	104.7		303.0	30.84	106.6
	248.5	515.95	104.8		303.5	30.88	106.6
	250.0	542.73	104.9		304.0	30.97	106.6
	251.5	567.69	104.9	Shut-In(2)	304.5	31.11	106.6
	253.0	590.75	105.0		305.0	31.35	106.6
	254.5	612.41	105.0		305.5	32.08	106.6
	256.0	632.19	105.1		306.0	32.84	106.7
	257.0	644.95	105.1		307.5	35.30	106.7
End Shut-In(1)	257.5	651.15	105.1		309.0	37.92	106.8
	258.0	657.03	105.2		310.5	40.67	106.8
Open To Flow (2)	258.5	29.03	104.9		312.0	43.58	106.8
	259.0	28.96	105.1		313.5	46.81	106.9
	259.5	28.81	105.1		315.0	50.23	106.9
	261.0	28.52	105.2		316.5	53.90	107.0
	262.5	28.36	105.3		318.0	57.79	107.0
	264.0	28.86	105.3		319.5	62.33	107.1
	265.5	28.94	105.4		321.0	67.06	107.1

Printing every 3 samples

Serial # 8650 Outside				Serial # 8650 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	322.5	72.34	107.2		379.0	1346.62	90.5
	324.0	78.01	107.2		380.5	1287.74	89.5
	325.5	84.34	107.2		382.0	1208.45	88.9
	327.0	91.41	107.3		383.5	1193.13	88.1
	328.5	99.07	107.3		385.0	1174.36	87.6
	330.0	107.64	107.4		386.5	1099.11	86.9
	331.5	117.20	107.4		388.0	1037.97	86.1
	333.0	127.74	107.5		389.5	950.07	85.8
	334.5	139.70	107.5		391.0	943.30	85.4
	336.0	152.98	107.6		392.5	863.09	83.6
	337.5	167.87	107.6		394.0	762.01	82.7
	339.0	184.38	107.6		395.5	749.85	81.6
	340.5	202.47	107.7		397.0	673.54	80.5
	342.0	222.36	107.7		398.5	594.88	79.6
	343.5	243.89	107.8		400.0	499.28	78.7
	345.0	267.03	107.8		401.5	461.56	77.5
	346.5	291.13	107.9		403.0	401.45	76.0
	348.0	315.98	107.9		404.5	367.66	75.0
	348.5	324.38	107.9		406.0	379.65	74.9
End Shut-In(2)	349.0	332.98	107.9		407.5	348.76	74.2
	349.5	319.91	107.9		409.0	315.30	73.0
Final Hydro-static	350.0	1827.49	108.6		410.5	272.49	70.9
	350.5	1790.33	108.8		412.0	210.18	67.7
	352.0	1830.55	108.8		413.5	139.02	64.9
	353.5	1820.28	108.8		415.0	106.89	61.6
	355.0	1819.91	108.8		416.5	36.80	59.4
	356.5	1819.04	108.8		418.0	0.19	59.8
	358.0	1818.88	108.8		419.5	0.19	59.2
	359.5	1732.20	108.7		421.0	0.19	58.5
	361.0	1770.04	108.3		422.5	0.20	57.6
	362.5	1750.26	107.1		424.0	0.20	56.6
	364.0	1703.00	105.1		425.5	0.24	56.2
	365.5	1625.31	103.3		427.0	0.25	56.0
	367.0	1655.34	100.8		428.5	0.30	55.7
	368.5	1657.09	99.4		430.0	0.29	55.6
	370.0	1581.49	98.2		431.5	0.29	55.5
	371.5	1570.26	96.5		433.0	0.29	55.5
	373.0	1534.30	95.3		434.5	0.29	55.4
	374.5	1433.68	94.0		436.0	0.27	55.3
	376.0	1440.94	92.6		437.5	0.28	55.0
	377.5	1422.79	91.7		439.0	0.29	54.4

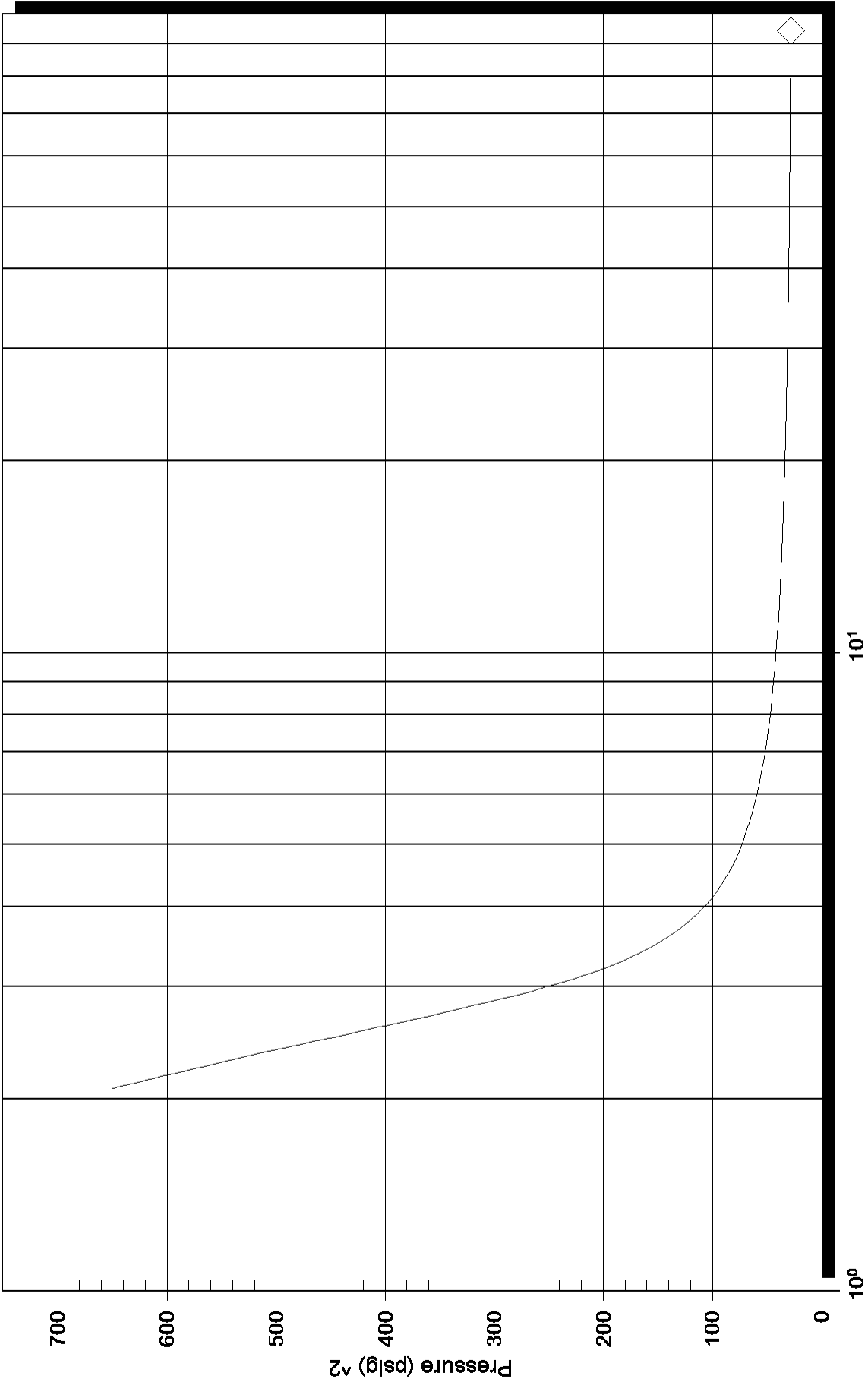
Printing every 3 samples

Serial # 8650 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	440.5	0.32	54.2
	442.0	0.33	53.9
	443.5	0.31	53.4
	445.0	0.33	53.0
	446.5	0.35	52.6
	448.0	0.34	52.0
	449.5	0.33	49.1
	451.0	0.33	48.6
	452.5	0.19	42.7
	454.0	0.37	39.9
	455.5	0.31	37.7
	457.0	0.25	35.5
	458.5	-0.44	33.6
	460.0	-0.50	32.2
	461.5	-0.33	30.9
	463.0	-0.51	30.0
	464.5	-0.57	29.1
	466.0	-0.57	28.8
	467.5	-0.11	28.4

Printing every 3 samples

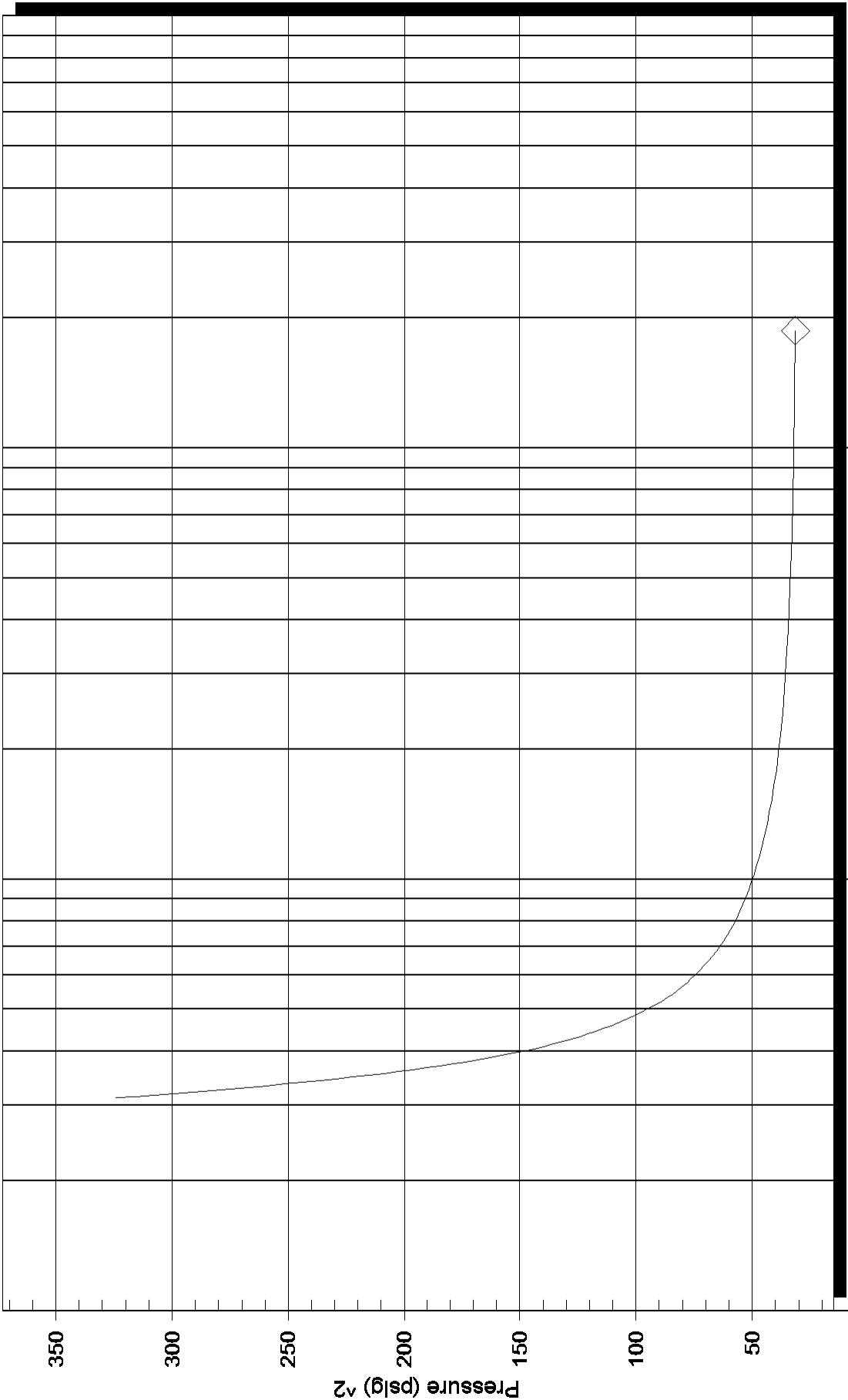
Horner Plot

Horner Pressure

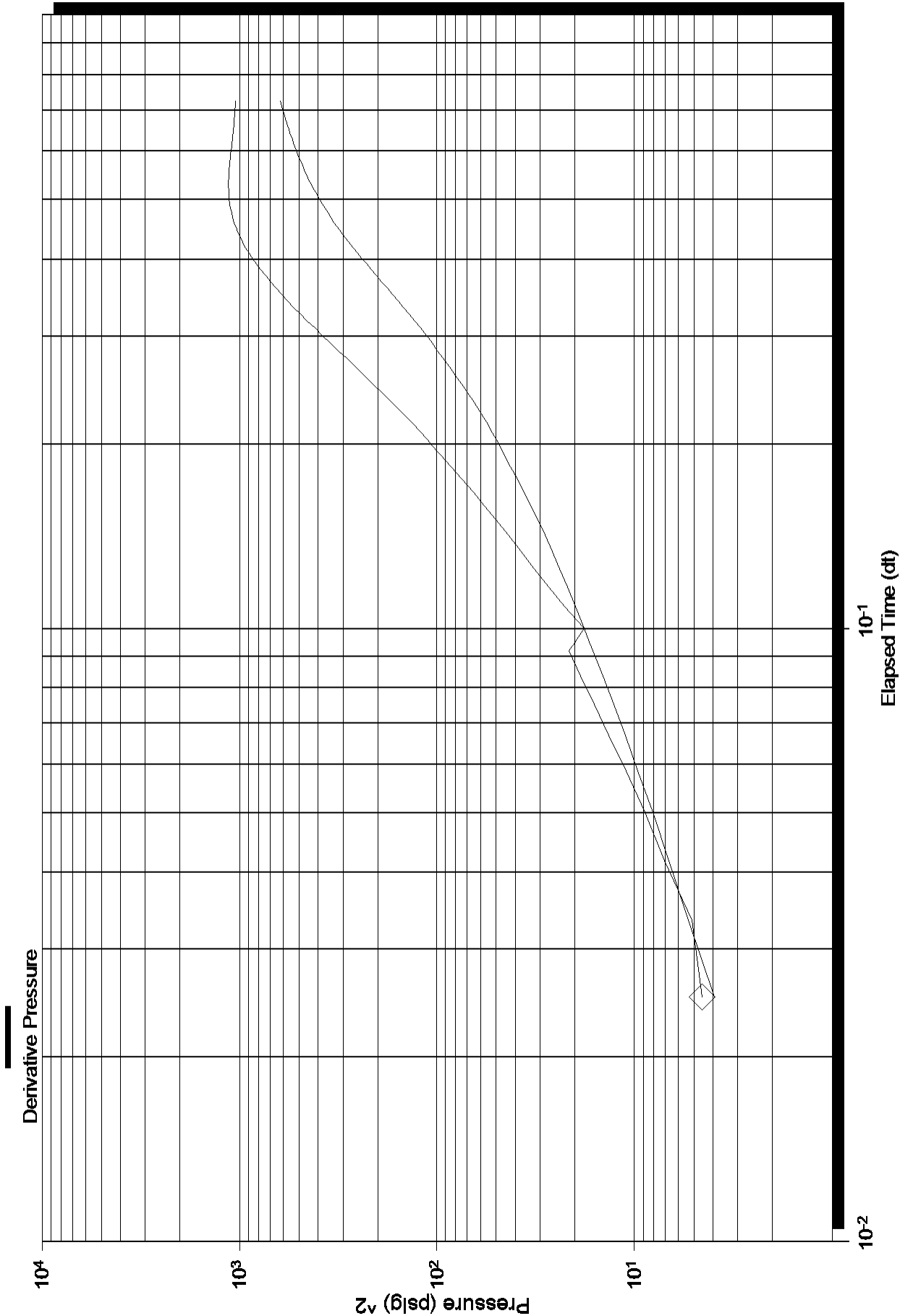


Horner Plot

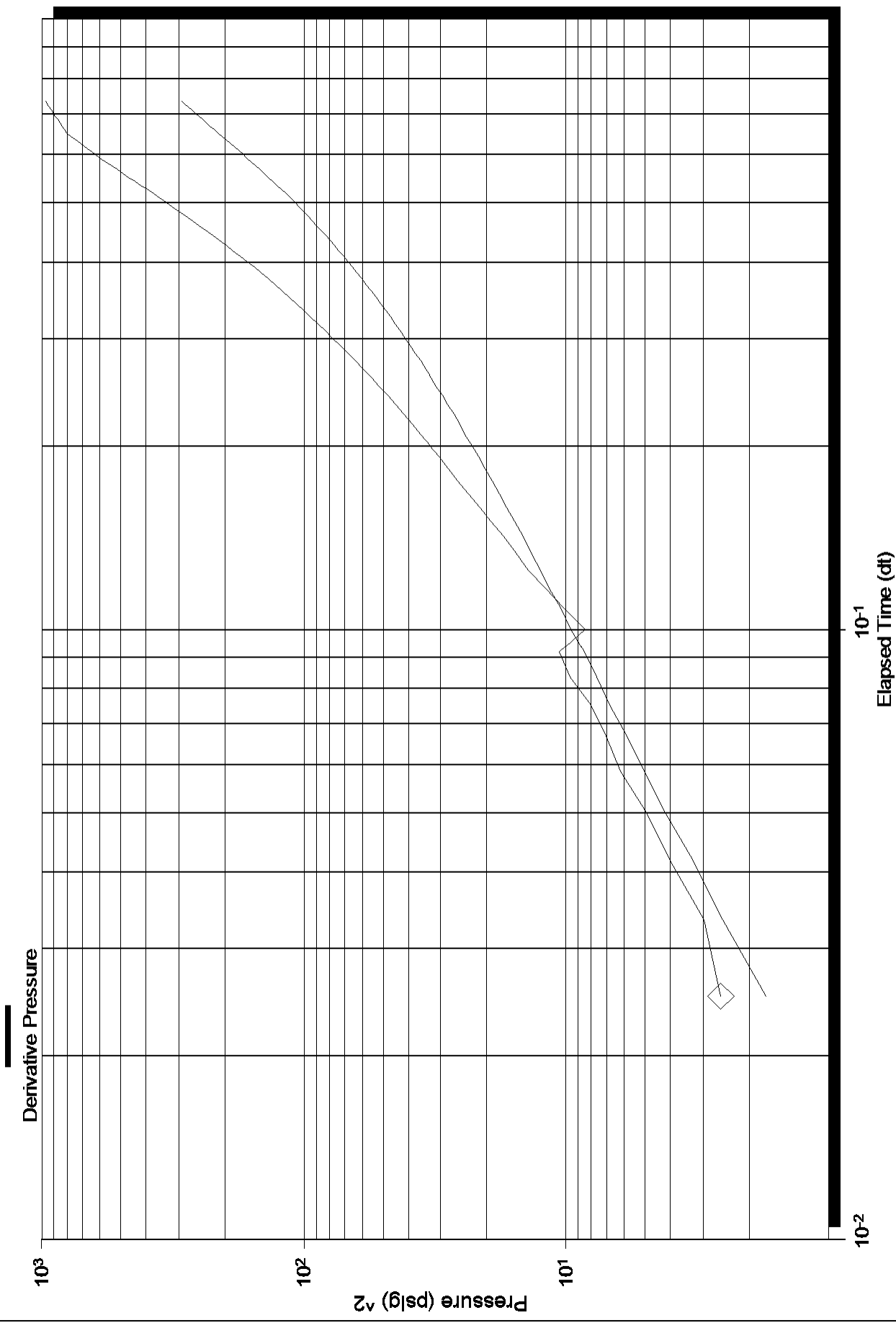
Horner Pressure



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative



Formation Tops

	Curt's Oil Operations
	Beafort #6
	Sec. 11 T14s R20w
	2081' FNL & 1080' FEL
Formation	
Anhydrite	1504', +728
Base	1551', +681
Topeka	3218', -986
Heebner	3469', -1237
Toronto	3490', -1258
Lansing	3510', -1278
BKc	3754', -1522
Marmaton	3794', -1562
Gorham	3822', -1590
Arbuckle	3841', -1609
Reagon	3857', -1625
RTD	3862', -1630

Significant Sample Zone Descriptions

Lansing "E" Zone	(3580', -1348'):	Not Tested
	Ls – Fine crystalline, oolitic with fair oomoldic and inter-crystalline porosity, light to fair spotted oil stain in porosity, slight show of free oil when broken, very light odor, fair to good yellow fluorescents.	
Marmaton	(3794', -1562):	Not Tested
	Ls – Sl. Dolo – Fine crystalline with poor to fair vuggy porosity, heavy chert with fair vuggy porosity, light to fair oil stain in porosity, show of free oil, light odor, fair yellow fluorescents.	
Gorham	(3822', -1590):	Covered in DST #1
	Ss – Fine to medium grained, sub-angular, fairly sorted, fair to well cemented, fragmented chert, with poor scattered granular porosity, good oil stain and saturation, show of free oil, fair yellow fluorescents, light odor.	
Reagon	(3857', -1625):	Covered in DST #2
	Ss – Fine to medium grained, sub-rounded, fairly to well sorted, poor to fair cementation with fair to good inter-granular porosity, light to fair oil stain and light saturation in cluster, show of free when broken, fair to good odor, light yellow cut fluorescents.	

Drill Stem Tests
Trilobite Testing, Inc.
"Andy Carreira"

DST #1

Gorham Sand

Interval (3814' – 3850') Anchor Length 36'

IHP	– 1891 #	
IFP	– 45" – Built to 2 in.	19-26 #
ISI	– 45" – Dead	657 #
FFP	– 45" – Built to 2 in.	29-31 #
FSI	– 45" – Dead	333 #
FHP	– 1827 #	
BHT	– 108°F	

Recovery: 1' Clean Oil
19' Mud

DST #2

Reagon Sand

Interval (3850' – 3862') Anchor Length 12'

IHP	– 1923 #	
IFP	– 15" – B.O.B. 1 min.	144-556 #
ISI	– 30" – Dead	1189 #
FFP	– 15" – B.O.B. 1 min.	569-802 #
FSI	– 30" – Dead	1190 #
FHP	– 1896 #	
BHT	– 123°F	

Recovery: 1' Clean Oil
1890' Water

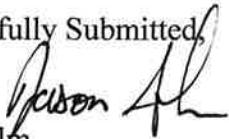
Structural Comparison

Formation	Curt's Oil Operations		Curt's Oil Operations		Curt's Oil Operations	
	Befort #6		Befort #4		Befort #5	
	Sec. 11 T14s R20w		Sec. 11 T14s R20w		Sec. 11 T14s R20w	
	2081' FNL & 1080' FEL		NE SE NE		NW SE NE	
Anhydrite	1504', +728		NA	NA	1510', +721	(+7)
Base	1551', +681		NA	NA	NA	NA
Topeka	3218', -986		NA	NA	3226', -995	(+9)
Heebner	3469', -1237		3448', -1237	FL	3478', -1247	(+10)
Toronto	3490', -1258		NA	NA	3501', -1270	(+12)
Lansing	3510', -1278		3488', -1277	(-1)	3521', -1290	(+12)
BKc	3754', -1522		NA	NA	NA	NA
Marmaton	3794', -1562		NA	NA	3799', -1568	(+6)
Gorham	3822', -1590		3806', -1595	(+5)	NA	NA
Arbuckle	3841', -1609		3819', -1608	(-1)	3859', -1628	(+19)
Reagon	3857', -1625		3837', -1626	(+1)	3900', -1669	(+44)

Summary

The location for the Befort #6 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two drill stem tests were conducted both of which with negative results. After all gathered data had been examined the decision was made to plug and abandon the Befort #6 well.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Jason Alm", written over the printed name.

Jason Alm
Hard Rock Consulting, Inc.

Federal Tax I.D.# 20-2886107

No. 4724

Date	1-28-11	Sec.	11	Twp.	14	Range	20	County	Ellis	State	KS	On Location		Finish	9:00pm		
Lease	Report	Well No.	6	Location												Colt Course Rd W to 150 Rd NW S into	
Contractor	Di-Scovery #3														Owner		
Type Job	Surface														To Quality Oilwell Cementing, Inc.		
Hole Size	17 1/4														You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
Csg.	8 7/8														Charge To	Certs Oil Operations	
Tbg. Size															Street		
Tool															City	State	
Cement Left in Csg.	15'														The above was done to satisfaction and supervision of owner agent or contractor.		
Meas Line															Cement Amount Ordered	150 Com 3 1/2" 2 1/2" 1	
EQUIPMENT																	
Pumptrk	1	No.	Cement	Craig												Common	150
		No.	Helper	Vente													
Bulktrk		No.	Driver													Poz. Mix	
Bulktrk	8	No.	Driver	Dew												Gel.	3
JOB SERVICES & REMARKS																Calcium	5
Remarks:																Hulls	
Rat Hole																Salt	
Mouse Hole																Flowseal	
Centralizers																Kol-Seal	
Baskets																Mud CLR 48	
D/V or Port Collar																CFL-117 or CD110 CAF 38	
8 7/8 on bottom Est. Circulation.																Sand	
Mix 150 SC & Displace.																Handling	158
Cement Circulated.																Mileage	
																FLOAT EQUIPMENT	
																Guide Shoe	
																Centralizer	
																Baskets	
																AFU Inserts	
																Float Shoe	
																Latch Down	
																Pumptrk Charge	Surface
																Mileage	8
																Tax	
																Discount	
																Total Charge	
Signature																	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 5096

Cell 785-324-1041

Date <u>2-3-11</u>	Sec. <u>11</u>	Twp. <u>14</u>	Range <u>20</u>	County <u>Ellis</u>	State <u>Ks</u>	On Location	Finish <u>6:30 PM</u>
Lease <u>Beafort</u>		Well No. <u>#6</u>		Location <u>Hays, Ks - west of G.C. Rd W to 150'</u>			
Contractor <u>Discovery #3</u>				Owner <u>Ed, W S/into</u>			
Type Job <u>plug</u>				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 <u>7 7/8"</u>		T.D. <u>3861'</u>		Charge To <u>Curt's oil operations</u>			
Csg. <u>4 1/2"</u>		Depth <u>3821'</u>		Street			
Tbg. Size		Depth		City			
Tool		Depth		State			
Cement Left in Csg.		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace <u>1120/mud</u>		Cement Amount Ordered <u>245 sx 60/40 40% Gel 1/4" Flow Seal</u>			

EQUIPMENT

Pumptrk <u>1</u>	No.	Cementor <u>Cisco</u>	Helper	Common
Bulktrk <u>10</u>	No.	Driver <u>Brian F.</u>	Driver	Poz. Mix
Bulktrk <u>10</u>	No.	Driver <u>Rick</u>	Driver	Gel.

JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole <u>30 sx</u>	Hulls
Mouse Hole <u>15 sx</u>	Salt
Centralizers	Flowseal
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
<u>3821' - 25 SX</u>	CFL-117 or CD110 CAF 38
<u>1530' - 25 SX</u>	Sand
<u>775' - 100 SX</u>	Handling
<u>295' - 40 SX</u>	Mileage

FLOAT EQUIPMENT

<u>40' - 10 SX</u>	Guide Shoe
<u>Rathole - 30 SX</u>	Centralizer
<u>Mousehole - 15 SX</u>	Baskets
<u>245 sx 60/40 40% Gel 1/4" Flow Seal</u>	AFU Inserts
<u>Cement did Circulate.</u>	Float Shoe
	Latch Down
	Pumptrk Charge
	Mileage

X Signature <u>John L. Larkin</u>	Tax
	Discount
	Total Charge

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



phone: 316-337-6200
fax: 316-337-6211
<http://kcc.ks.gov/>

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

May 13, 2011

Curtis Hitschmann
Hitschmann, Curtis Lee dba Curt's Oil
Operations
PO 8
GREAT BEND, KS 67530

Re: ACO1
API 15-051-26088-00-00
Before 6
NE/4 Sec.11-14S-20W
Ellis County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Curtis Hitschmann