



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1089131
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1089131

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input 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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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 *(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)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	K & B Norton Oil & Investments, LLC
Well Name	Mollenkamp 1
Doc ID	1089131

All Electric Logs Run

Dual Induction Log
Dual Compensated Porosity Log
Microresistivity Log
Borehole Compensated Sonic Log

Form	ACO1 - Well Completion
Operator	K & B Norton Oil & Investments, LLC
Well Name	Mollenkamp 1
Doc ID	1089131

Tops

Name	Top	Datum
Heebner	-3913	-732
Toronto	-3947	-766
Lansing	-3968	-787
Muncie Creek	-4141	-960
Base KC	-4316	-1135
Marmaton	-4370	-1189
Pawnee	-4438	-1257
Cherokee	-4524	-1343
Johnson	-4585	-1404
Morrow Shale	-4654	-1473
Mississippian	-4731	-1550



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 131459

Invoice Date: Jun 5, 2012

Page: 1



Bill To:
K & B Norton Oil Inv. LLC 1209 W Park Grove Dr Manhattan, KS 66503-2469

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
K&B	Mollenkamp#1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jun 5, 2012	7/5/12

Quantity	Item	Description	Unit Price	Amount
180.00	MAT	Class A Common	16.25	2,925.00
3.00	MAT	Gel	21.25	63.75
7.00	MAT	Chloride	58.20	407.40
1.00	SER	Surface	1,125.00	1,125.00
50.00	SER	Ton Miles	20.87	1,043.40
194.63	SER	Handling	2.10	408.72
50.00	SER	Heavy Vehicle Mileage	7.00	350.00
50.00	SER	Light Vehicle Mileage	4.00	200.00
1.00	EQUIP OPER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Brandon Wilkinson		

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 1304.45

ONLY IF PAID ON OR BEFORE

Jun 30, 2012

Subtotal	6,523.27
Sales Tax	247.92
Total Invoice Amount	6,771.19
Payment/Credit Applied	
TOTAL	6,771.19

ALLIED OIL & GAS SERVICES, LLC 056211

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Oakley
6-6-12 6-6-12

DATE <u>6-5-12</u>	SEC <u>7</u>	TWP. <u>15</u>	RANGE <u>35</u>	CALLED OUT	ON LOCATION <u>12:00 PM</u>	JOB START <u>1:30 AM</u>	JOB FINISH <u>2:00 AM</u>
WELL # <u>1</u>		LOCATION <u>Oakley 235-4 1/2 W 25-W To Rd</u>			COUNTY <u>Logan</u>	STATE <u>Ks.</u>	
LD OR <u>NEW</u> (Circle one)		220 - 1 N - E into					

CONTRACTOR LD

TYPE OF JOB Surface

PIPE SIZE 12 1/4 T.D. 293

ASING SIZE 8 3/8 DEPTH 289

PIPE SIZE DEPTH

RILL PIPE DEPTH

COLL DEPTH

RES. MAX MINIMUM

EAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

DISPLACEMENT 17.45

EQUIPMENT

JMP TRUCK CEMENTER Darren R.

423-281 HELPER Tyler

ULK TRUCK

396-306 DRIVER Brandon

ULK TRUCK DRIVER

OWNER Same

CEMENT

AMOUNT ORDERED 180 SKs Com 3% CC

276 Gel

COMMON	<u>180 SKs @ \$16.25</u>	<u>\$2925.00</u>
POZMIX	@	
GEL	<u>3 SKs @ \$21.25</u>	<u>\$63.75</u>
CHLORIDE	<u>7 SKs @ \$58.20</u>	<u>\$407.40</u>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	<u>194.63 ft @ \$2.10</u>	<u>\$408.72</u>
MILEAGE	<u>8.89 x .50 x \$2.35</u>	<u>\$1043.40</u>
		TOTAL <u>\$4848.27</u>

REMARKS:
Mix 180 SKs Cement
Displace with water
ment Did Circulate

SERVICE

DEPTH OF JOB 289'

PUMP TRUCK CHARGE \$1125.00

EXTRA FOOTAGE @

MILEAGE 50 @ \$7.00 \$350.00

MANIFOLD Swedge @ NC

LU Mileage @ \$4.00 \$200.00

TOTAL \$1675.00

CHARGE TO: K & B Norton oil

ADDRESS

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

I, 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

DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME Richard Wilson

SIGNATURE Rehl W.W.



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 131569
Invoice Date: Jun 16, 2012
Page: 1



Bill To:
K & B Norton Oil Inv. LLC 1209 W Park Grove Dr Manhattan, KS 66503-2469

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
K&B	Mollen Kemp #1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-05	Great Bend	Jun 16, 2012	7/16/12

Quantity	Item	Description	Unit Price	Amount
123.00	MAT	Class A Common	16.25	1,998.75
82.00	MAT	Pozmix	8.50	697.00
7.00	MAT	Gel	21.25	148.75
51.00	MAT	FloSeal	2.70	137.70
220.00	SER	Handling	2.10	462.00
50.00	SER	Ton Miles	21.60	1,079.82
1.00	SER	Rotary Plug	1,250.00	1,250.00
50.00	SER	Heavy Vehicle Mileage	7.00	350.00
50.00	SER	Light Vehicle Mileage	4.00	200.00
1.00	EQUIP OPER	Jonathon Ploutz		
1.00	EQUIP OPER	Dustin Chambers		
1.00	EQUIP OPER	Kevin Eddy		
1.00	OPER ASSIST	Kevin Weighous		

Subtotal	6,324.02
Sales Tax	461.65
Total Invoice Amount	6,785.67
Payment/Credit Applied	
TOTAL	6,785.67

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 1264.81

ONLY IF PAID ON OR BEFORE
Jul 11, 2012

ALLIED OIL & GAS SERVICES, LLC 053629

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Great Bend, KS

DATE <u>6/16/12</u>	SEC. <u>7</u>	TWP. <u>15</u>	RANGE <u>35</u>	CALLED OUT	ON LOCATION	JOB START <u>11:00</u>	JOB FINISH <u>12:00</u>
LEASE <u>Moltenkamp</u>		WELL # <u>1</u>		LOCATION <u>Leoti Rd 25 to Wakarusa Rd 6 E to</u>		COUNTY <u>Logan</u>	STATE <u>KS</u>
OLD OR (NEW) (Circle one)			<u>220 RD IN East into</u>				

CONTRACTOR L D Drilling Rig #1

TYPE OF JOB Katany Plug

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 5/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 2488

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. All

PERFS.

DISPLACEMENT Fresh water

EQUIPMENT

PUMP TRUCK CEMENTER Jon P / Dustin C

3166 HELPER Kevin E

BULK TRUCK

378 DRIVER Kevin W.

BULK TRUCK

DRIVER

OWNER

CEMENT

AMOUNT ORDERED 205x 6.0% class A,
40% por, 4% gel, 1/4 flo seal

COMMON <u>123</u>	@ <u>16.25</u>	<u>1,998.75</u>
POZMIX <u>82</u>	@ <u>8.50</u>	<u>697.00</u>
GEL <u>7</u>	@ <u>21.25</u>	<u>148.75</u>
CHLORIDE	@	
ASC	@	
<u>Flow Seal 51</u>	@ <u>2.70</u>	<u>137.70</u>
	@	
	@	
	@	
	@	
	@	
HANDLING <u>220</u>	@ <u>2.10</u>	<u>462.00</u>
MILEAGE <u>9.19 ton x 50</u>	<u>2.35</u>	<u>1079.82</u>
TOTAL		<u>4,524.02</u>

REMARKS:

Fill Hole with Rig Mud

1st 2488 w/ 25sx

2nd 1999 w/ 100sx

3rd 399 w/ 40sx

4th 40 w/ 30sx

Put hole w/ 30sx

Plug Down

SERVICE

DEPTH OF JOB 2488

PUMP TRUCK CHARGE 1250.00

EXTRA FOOTAGE @

MILEAGE Hum 50 @ 7.00 350.00

MANIFOLD @

hum 50 @ 4.00 200.00

TOTAL 1800.00

CHARGE TO: Karb Oil Investment

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	@	
TOTAL		

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 6,324.02

DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME Richard Wilson

SIGNATURE R Rich Wilson

Thank You !



DRILL STEM TEST REPORT

Prepared For: **K&B Norton Oil & Investment LLC**

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

ATTN: Steve Murphy

Mollencamp #1

7-15s-35w Logan,KS

Start Date: 2012.06.10 @ 23:34:00

End Date: 2012.06.11 @ 05:24:50

Job Ticket #: 46661 DST #: 1

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

Printed: 2012.06.15 @ 15:03:40

K&B Norton Oil & Investment LLC
7-15s-35w Logan,KS
Mollencamp #1
DST # 1
LKC 'A'
2012.06.10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

K&B Norton Oil & Investment LLC

7-15s-35w Logan,KS

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

Mollencamp #1

Job Ticket: 46661

DST#: 1

ATTN: Steve Murphy

Test Start: 2012.06.10 @ 23:34:00

GENERAL INFORMATION:

Formation: **LKC 'A'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:44:00

Time Test Ended: 05:24:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 37

Interval: 3958.00 ft (KB) To 3976.00 ft (KB) (TVD)

Reference Elevations: 3181.00 ft (KB)

Total Depth: 3976.00 ft (KB) (TVD)

3176.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 44.32 psig @ 3959.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.10

End Date:

2012.06.11

Last Calib.:

2012.06.11

Start Time: 23:34:02

End Time:

05:24:49

Time On Btm:

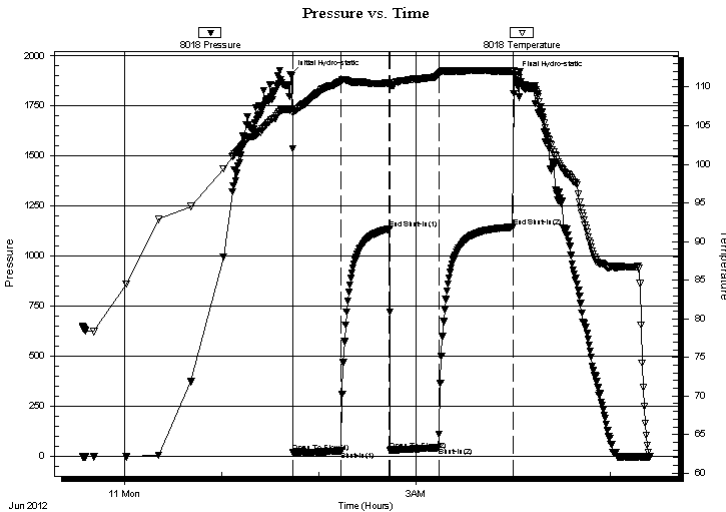
2012.06.11 @ 01:42:30

Time Off Btm:

2012.06.11 @ 04:01:10

TEST COMMENT: 3" Blow
No return
2" Blow
No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1909.10	107.04	Initial Hydro-static
2	21.07	106.63	Open To Flow (1)
32	28.27	110.73	Shut-In(1)
62	1136.73	110.51	End Shut-In(1)
62	31.98	110.00	Open To Flow (2)
92	44.32	111.58	Shut-In(2)
138	1145.50	112.06	End Shut-In(2)
139	1903.52	111.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW 20m 80w	0.91

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K&B Norton Oil & Investment LLC

7-15s-35w Logan,KS

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

Mollencamp #1

Job Ticket: 46661

DST#: 1

ATTN: Steve Murphy

Test Start: 2012.06.10 @ 23:34:00

Tool Information

Drill Pipe:	Length: 3935.00 ft	Diameter: 3.80 inches	Volume: 55.20 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 55.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.50 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3958.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	45.50 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			3931.50	
Shut In Tool	5.00			3936.50	
Hydraulic tool	5.00			3941.50	
Jars	5.00			3946.50	
Safety Joint	2.50			3949.00	
Packer	5.00			3954.00	27.50 Bottom Of Top Packer
Packer	4.00			3958.00	
Stubb	1.00			3959.00	
Recorder	0.00	8018	Inside	3959.00	
Recorder	0.00	6751	Outside	3959.00	
Perforations	14.00			3973.00	
Bullnose	3.00			3976.00	18.00 Bottom Packers & Anchor

Total Tool Length: 45.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

K&B Norton Oil & Investment LLC

7-15s-35w Logan,KS

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

Mollencamp #1

Job Ticket: 46661

DST#: 1

ATTN: Steve Murphy

Test Start: 2012.06.10 @ 23:34:00

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:

30000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	MW 20m 80w	0.912

Total Length: 65.00 ft Total Volume: 0.912 bbl

Num Fluid Samples: 0

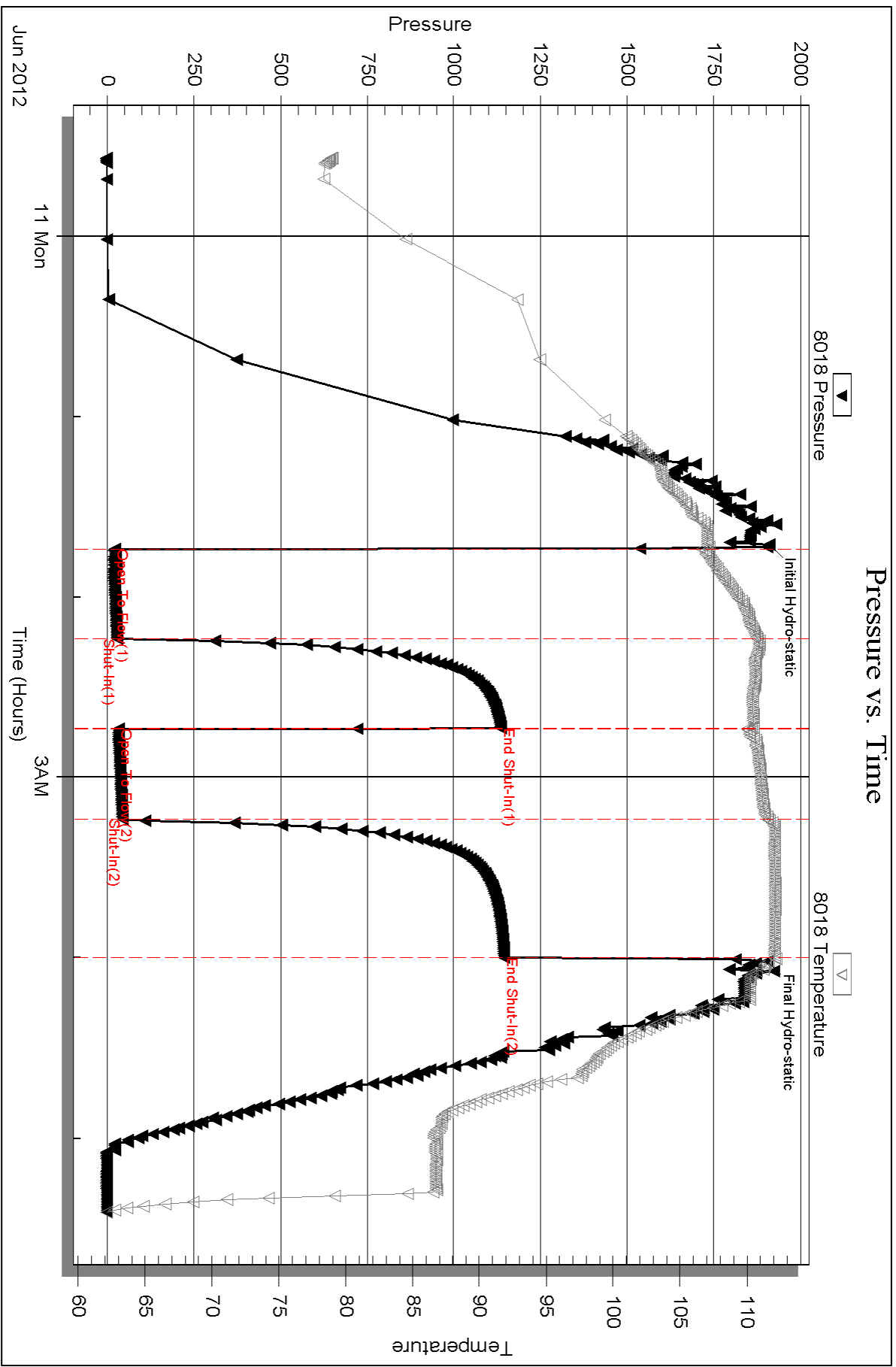
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .330 @ 50 Degrees F = 30000 PPM

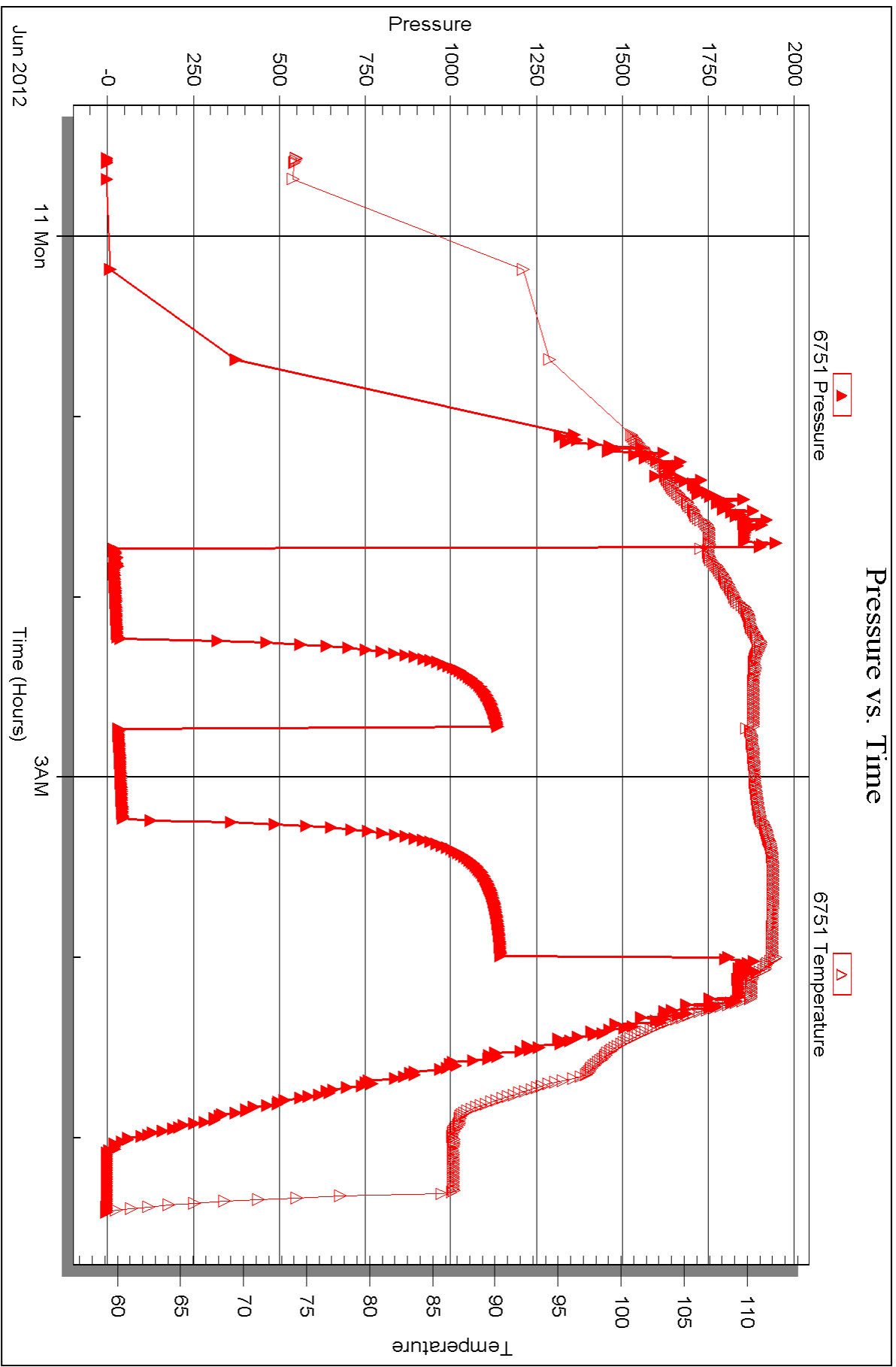


Serial #: 6751

Outside K&B Norton Oil & Investment LLC

Mollencamp #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **K&B Norton Oil & Investment LLC**

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

ATTN: Steve Murphy

Mollencamp #1

7-15s-35w Logan,KS

Start Date: 2012.06.11 @ 14:37:00

End Date: 2012.06.11 @ 21:33:39

Job Ticket #: 46662 DST #: 2

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

Printed: 2012.06.15 @ 15:03:04

K&B Norton Oil & Investment LLC

7-15s-35w Logan,KS

Mollencamp #1

DST # 2

LKC 'C-D'

2012.06.11



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

K&B Norton Oil & Investment LLC

7-15s-35w Logan, KS

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

Mollencamp #1

Job Ticket: 46662

DST#: 2

ATTN: Steve Murphy

Test Start: 2012.06.11 @ 14:37:00

GENERAL INFORMATION:

Formation: **LKC 'C-D'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:11:30
 Time Test Ended: 21:33:39
 Interval: **4004.00 ft (KB) To 4030.00 ft (KB) (TVD)**
 Total Depth: 4030.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 37
 Reference Elevations: 3181.00 ft (KB)
 3176.00 ft (CF)
 KB to GR/CF: 5.00 ft

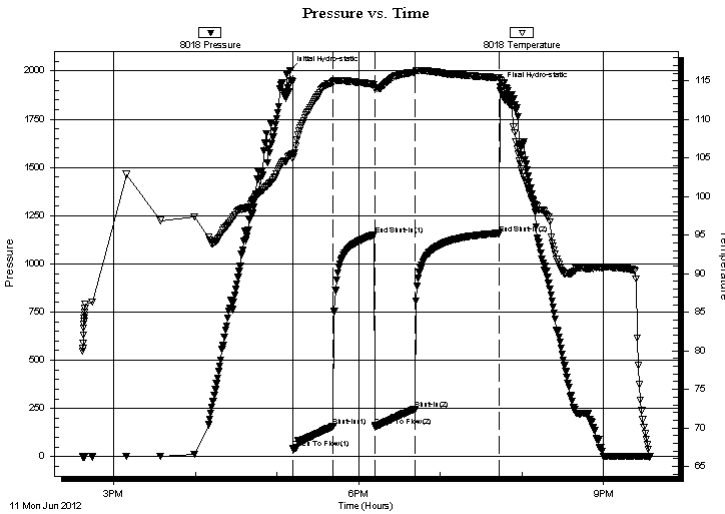
Serial #: 8018

Inside

Press @ Run Depth: 246.22 psig @ 4007.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.11 End Date: 2012.06.11 Last Calib.: 2012.06.11
 Start Time: 14:37:02 End Time: 21:33:40 Time On Btm: 2012.06.11 @ 17:09:30
 Time Off Btm: 2012.06.11 @ 19:43:50

TEST COMMENT: B.O.B. @ 13 min.
 No return.
 B.O.B. @ 16 min.
 No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2003.53	105.30	Initial Hydro-static
2	42.95	104.87	Open To Flow (1)
32	156.94	114.83	Shut-In(1)
62	1151.74	114.54	End Shut-In(1)
63	155.87	113.98	Open To Flow (2)
92	246.22	116.09	Shut-In(2)
154	1157.68	115.41	End Shut-In(2)
155	1918.00	115.17	Final Hydro-static

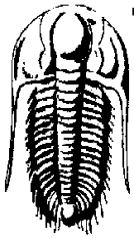
Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .160 @ 70 Degrees F = 48000 PPM	0.00
366.00	W 100w Popping gas	5.13
124.00	MW 40m 60w	1.74

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

K&B Norton Oil & Investment LLC

7-15s-35w Logan,KS

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

Mollencamp #1

Job Ticket: 46662

DST#: 2

ATTN: Steve Murphy

Test Start: 2012.06.11 @ 14:37:00

GENERAL INFORMATION:

Formation: **LKC 'C-D'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:11:30

Time Test Ended: 21:33:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 37

Interval: **4004.00 ft (KB) To 4030.00 ft (KB) (TVD)**

Total Depth: 4030.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3181.00 ft (KB)

3176.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6751 Outside

Press@RunDepth: psig @ 4007.00 ft (KB)

Start Date: 2012.06.11 End Date: 2012.06.11

Start Time: 14:37:02 End Time: 21:33:24

Capacity: 8000.00 psig

Last Calib.: 2012.06.11

Time On Btm:

Time Off Btm:

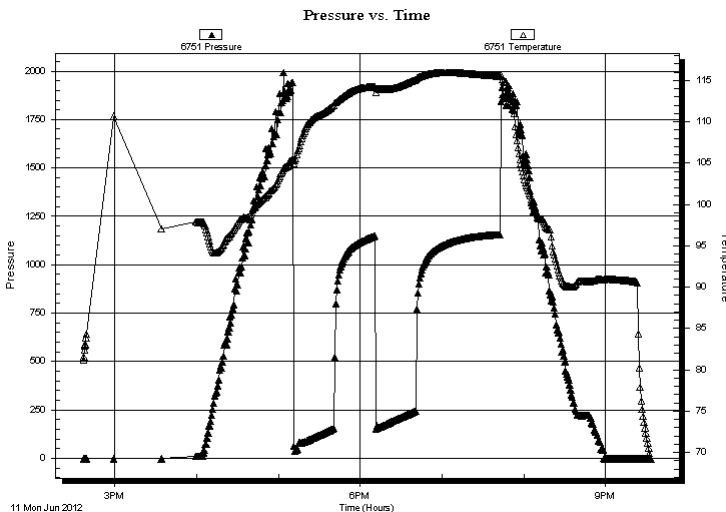
TEST COMMENT: B.O.B. @ 13 min.

No return.

B.O.B. @ 16 min.

No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .160 @ 70 Degrees F = 48000 PPM	0.00
366.00	W 100w Popping gas	5.13
124.00	MW 40m 60w	1.74

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K&B Norton Oil & Investment LLC

7-15s-35w Logan,KS

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

Mollencamp #1

Job Ticket: 46662

DST#: 2

ATTN: Steve Murphy

Test Start: 2012.06.11 @ 14:37:00

Tool Information

Drill Pipe:	Length: 3998.00 ft	Diameter: 3.80 inches	Volume: 56.08 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 56.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.50 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4004.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	53.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3977.50	
Shut In Tool	5.00			3982.50	
Hydraulic tool	5.00			3987.50	
Jars	5.00			3992.50	
Safety Joint	2.50			3995.00	
Packer	5.00			4000.00	27.50 Bottom Of Top Packer
Packer	4.00			4004.00	
Stubb	1.00			4005.00	
Perforations	2.00			4007.00	
Recorder	0.00	8018	Inside	4007.00	
Recorder	0.00	6751	Outside	4007.00	
Perforations	20.00			4027.00	
Bullnose	3.00			4030.00	26.00 Bottom Packers & Anchor

Total Tool Length: 53.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

K&B Norton Oil & Investment LLC

7-15s-35w Logan,KS

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

Mollencamp #1

Job Ticket: 46662

DST#: 2

ATTN: Steve Murphy

Test Start: 2012.06.11 @ 14:37:00

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:

48000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	RW: .160 @ 70 Degrees F = 48000 PPM	0.000
366.00	W 100w Popping gas	5.134
124.00	MW 40m 60w	1.739

Total Length: 490.00 ft Total Volume: 6.873 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

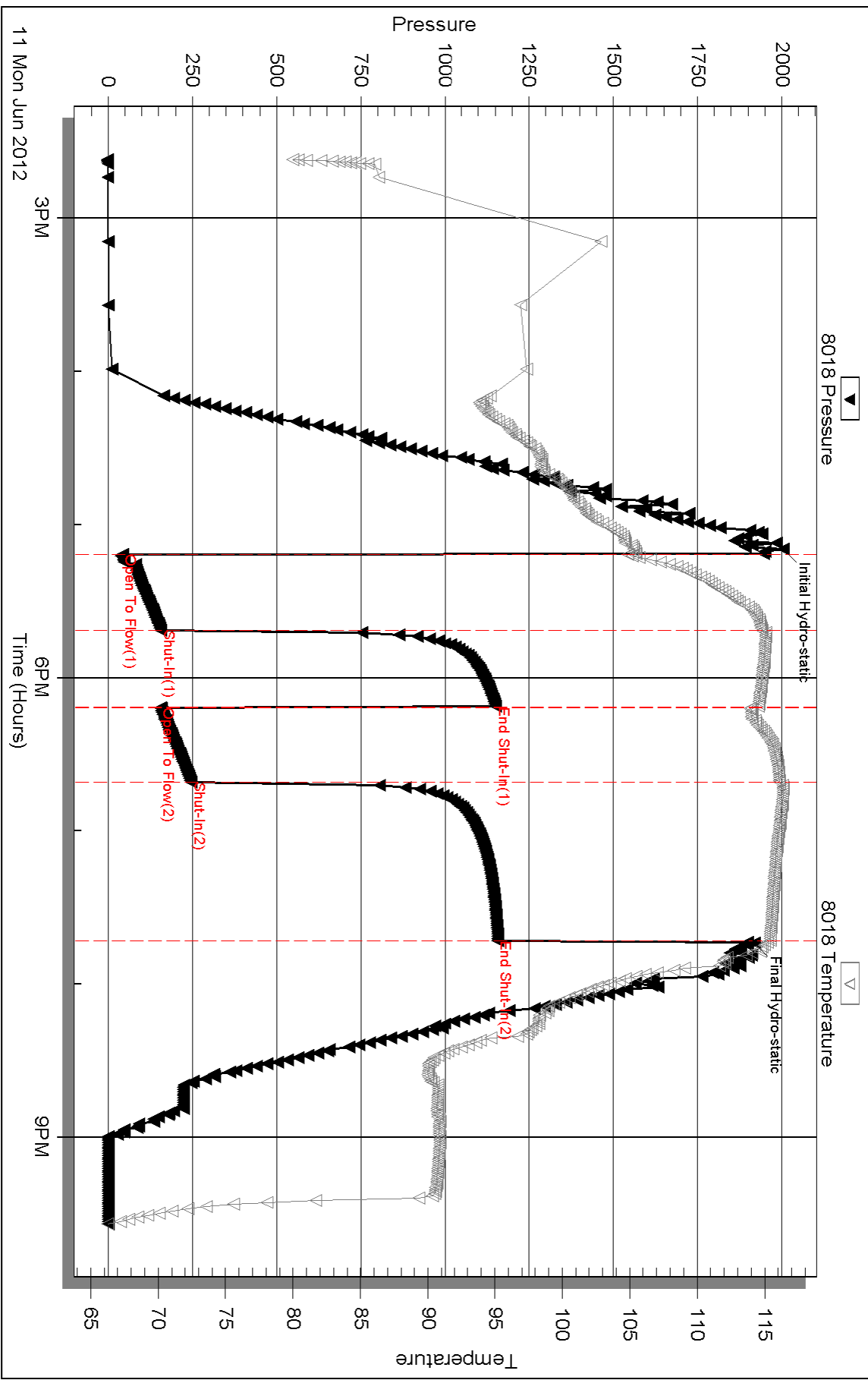
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

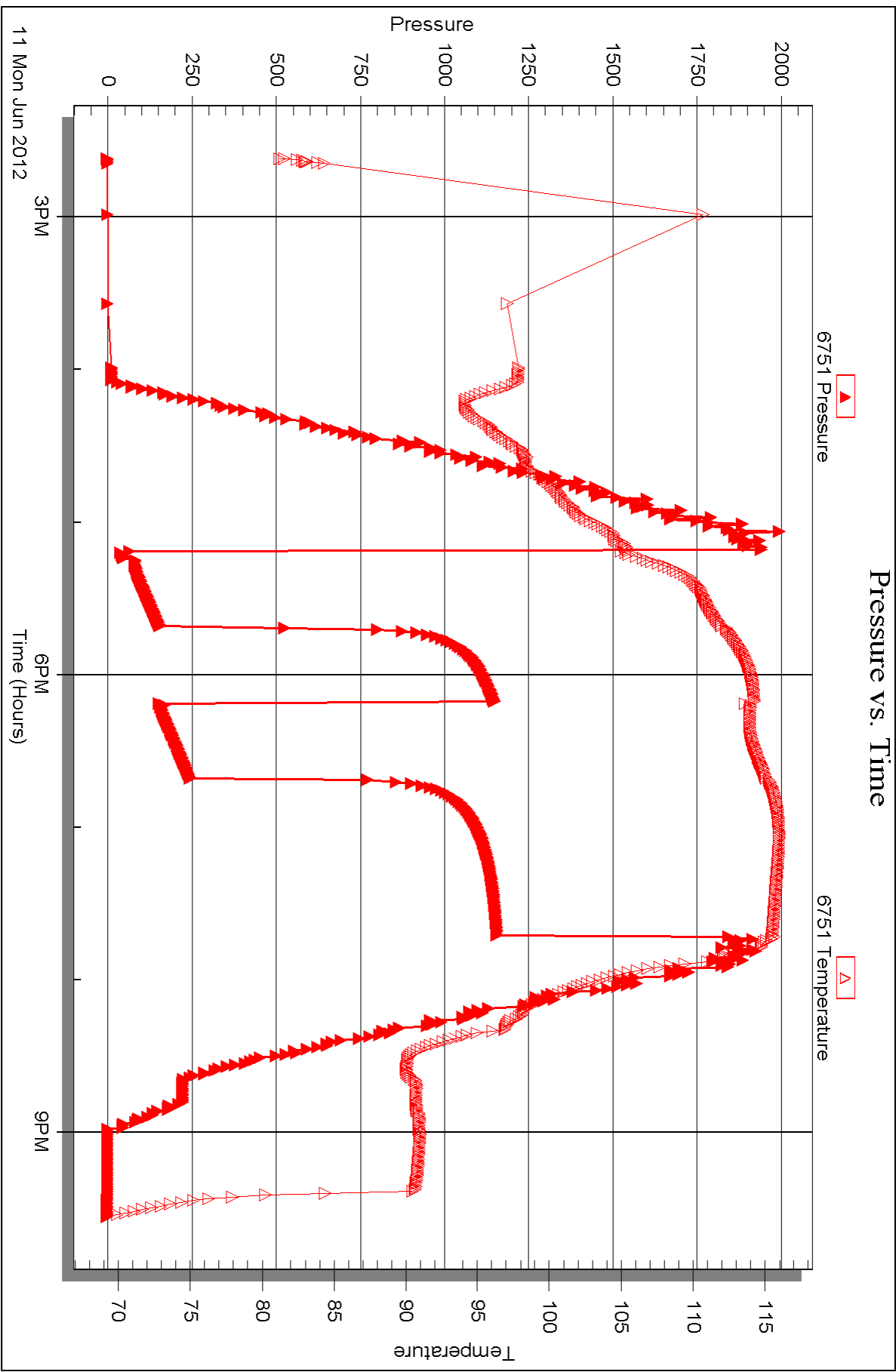


Serial #: 6751

Outside K&B Norton Oil & Investment LLC

Mollencamp #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **K&B Norton Oil & Investment LLC**

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

ATTN: Steve Murphy

Mollencamp #1

7-15s-35w Logan,KS

Start Date: 2012.06.12 @ 12:36:00

End Date: 2012.06.12 @ 18:55:09

Job Ticket #: 46663 DST #: 3

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

Printed: 2012.06.15 @ 15:02:21



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

K&B Norton Oil & Investment LLC

7-15s-35w Logan,KS

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

Mollencamp #1

Job Ticket: 46663

DST#: 3

ATTN: Steve Murphy

Test Start: 2012.06.12 @ 12:36:00

GENERAL INFORMATION:

Formation: **LKC 'I'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:27:20
 Time Test Ended: 18:55:09
 Interval: **4142.00 ft (KB) To 4160.00 ft (KB) (TVD)**
 Total Depth: 4160.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 37
 Reference Elevations: 3181.00 ft (KB)
 3176.00 ft (CF)
 KB to GR/CF: 5.00 ft

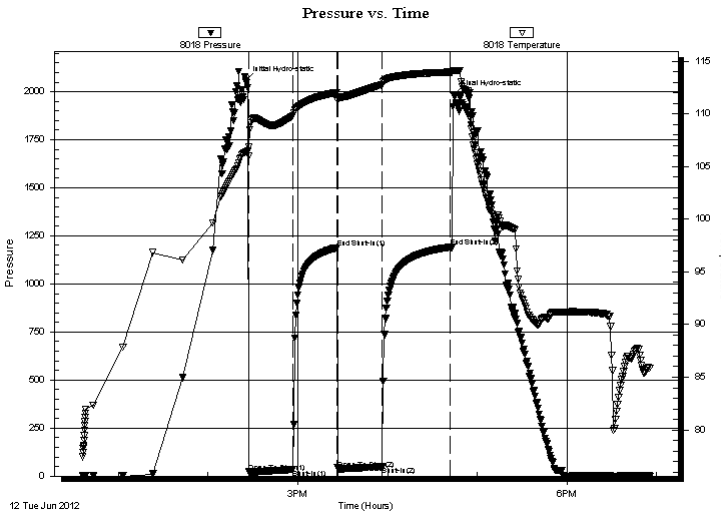
Serial #: 8018

Inside

Press @ Run Depth: 49.41 psig @ 4143.00 ft (KB)
 Start Date: 2012.06.12 End Date: 2012.06.12
 Start Time: 12:36:02 End Time: 18:55:10
 Capacity: 8000.00 psig
 Last Calib.: 2012.06.12
 Time On Btm: 2012.06.12 @ 14:25:00
 Time Off Btm: 2012.06.12 @ 16:44:40

TEST COMMENT: 4" Blow .
 No return.
 3" Blow .
 No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2059.51	106.38	Initial Hydro-static
3	22.28	106.84	Open To Flow (1)
32	34.89	109.83	Shut-In(1)
62	1188.72	112.02	End Shut-In(1)
62	37.77	111.54	Open To Flow (2)
92	49.41	112.77	Shut-In(2)
137	1191.18	113.96	End Shut-In(2)
140	1983.88	114.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	OCMW 10o 40m 50w Emulsified	0.88
15.00	O 100o Emulsified	0.21

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

K&B Norton Oil & Investment LLC

7-15s-35w Logan,KS

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

Mollencamp #1

Job Ticket: 46663

DST#: 3

ATTN: Steve Murphy

Test Start: 2012.06.12 @ 12:36:00

Tool Information

Drill Pipe:	Length: 4126.00 ft	Diameter: 3.80 inches	Volume: 57.88 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 57.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.50 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4142.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	45.50 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			4115.50	
Shut In Tool	5.00			4120.50	
Hydraulic tool	5.00			4125.50	
Jars	5.00			4130.50	
Safety Joint	2.50			4133.00	
Packer	5.00			4138.00	27.50 Bottom Of Top Packer
Packer	4.00			4142.00	
Stubb	1.00			4143.00	
Recorder	0.00	8018	Inside	4143.00	
Recorder	0.00	6751	Outside	4143.00	
Perforations	14.00			4157.00	
Bullnose	3.00			4160.00	18.00 Bottom Packers & Anchor

Total Tool Length: 45.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

K&B Norton Oil & Investment LLC

7-15s-35w Logan,KS

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

Mollencamp #1

Job Ticket: 46663

DST#: 3

ATTN: Steve Murphy

Test Start: 2012.06.12 @ 12:36:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

18 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 82000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	OCMW 10o 40m 50w Emulsified	0.884
15.00	O 100o Emulsified	0.210

Total Length: 78.00 ft Total Volume: 1.094 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 20 @ 80 Degrees F = 18. RW: .243 @ 80 Degrees F = 26000 PPM

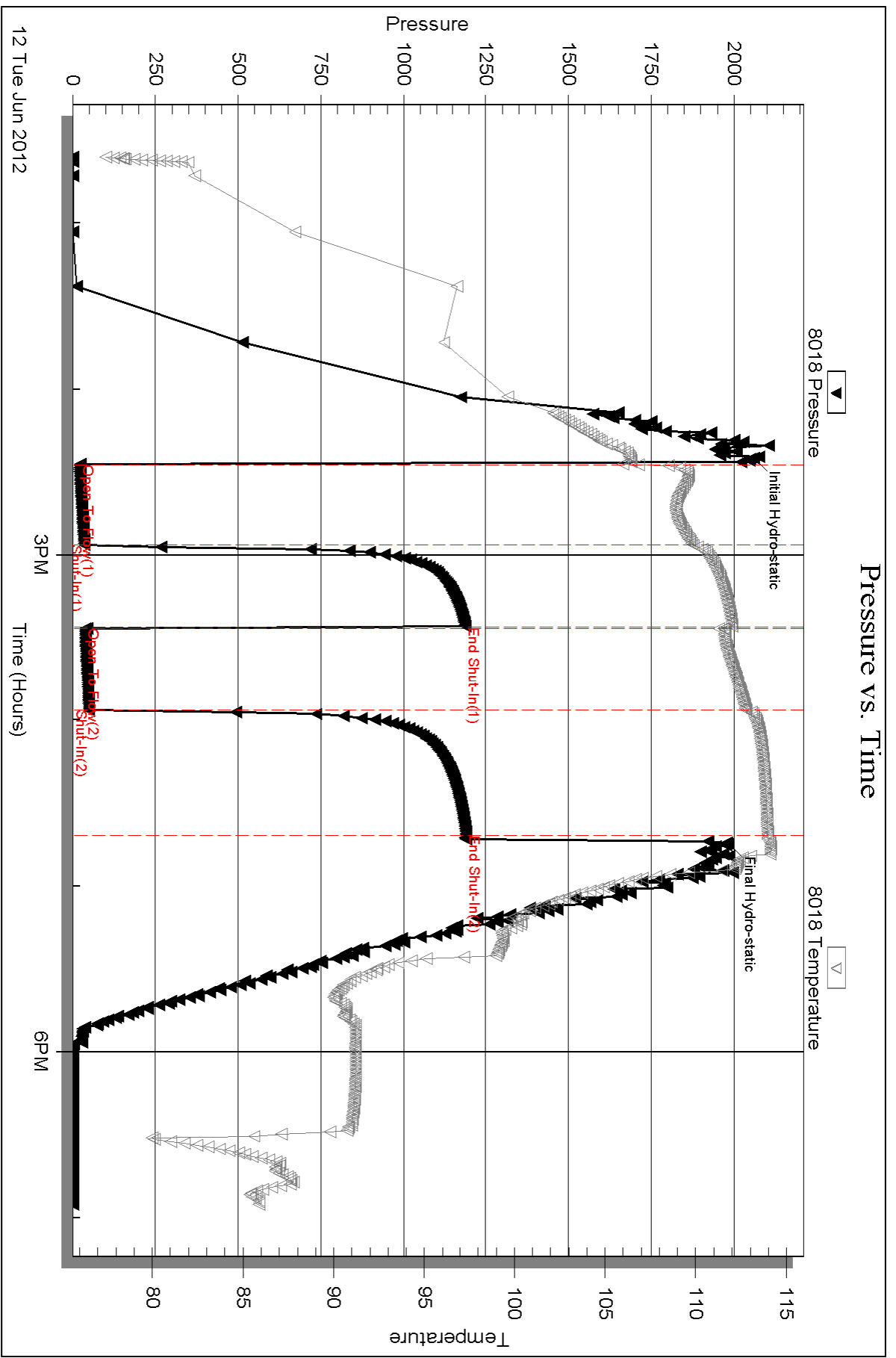
Serial #: 8018

Inside

K&B Norton Oil & Investment LLC

Mollencamp #1

DST Test Number: 3

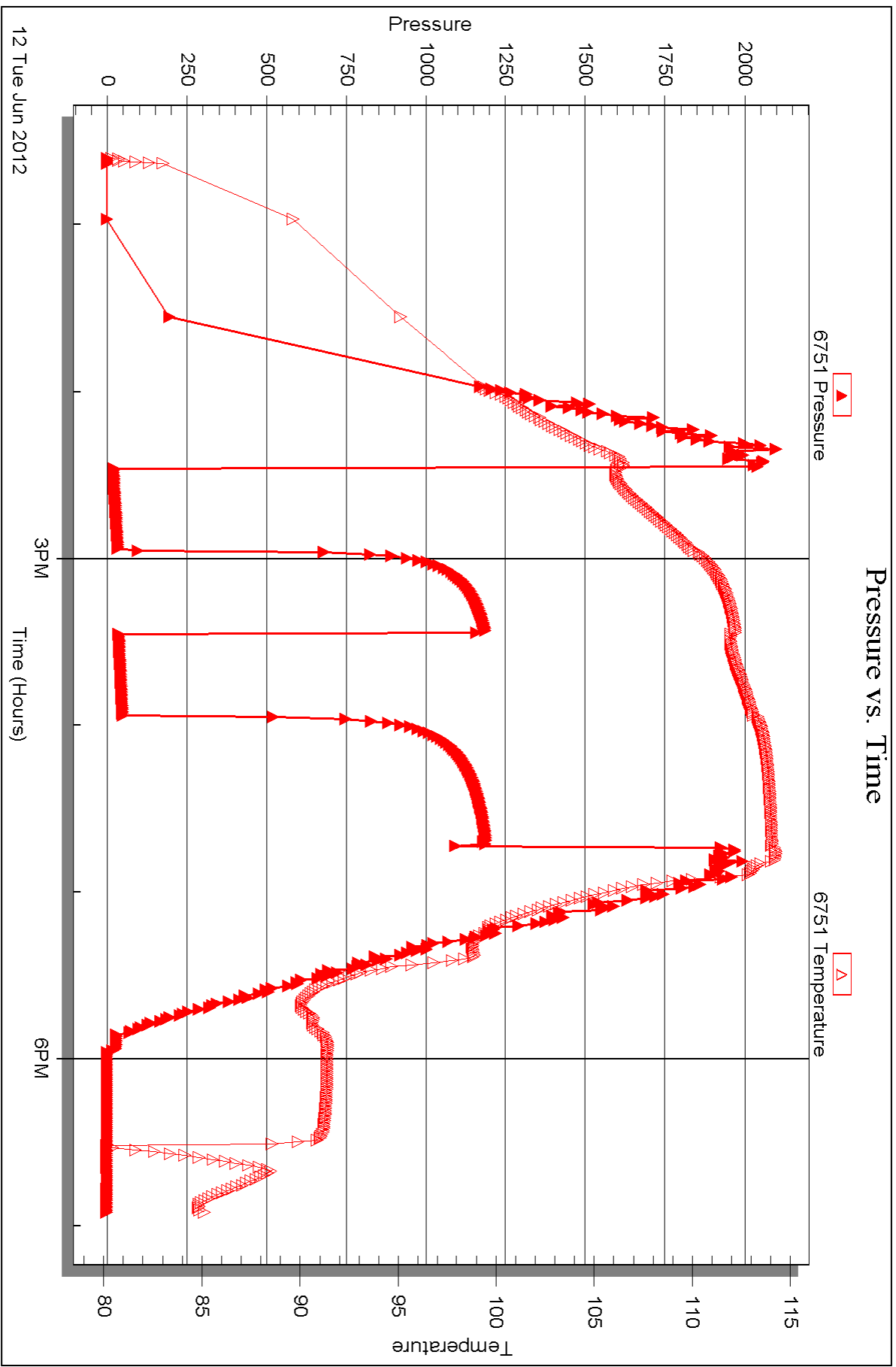


Serial #: 6751

Outside K&B Norton Oil & Investment LLC

Mollencamp #1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **K&B Norton Oil & Investment LLC**

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

ATTN: Steve Murphy

Mollencamp #1

7-15s-35w Logan,KS

Start Date: 2012.06.13 @ 05:40:00

End Date: 2012.06.13 @ 12:25:20

Job Ticket #: 46664 DST #: 4

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

Printed: 2012.06.15 @ 15:01:36



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

K&B Norton Oil & Investment LLC

7-15s-35w Logan,KS

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

Mollencamp #1

Job Ticket: 46664

DST#: 4

ATTN: Steve Murphy

Test Start: 2012.06.13 @ 05:40:00

GENERAL INFORMATION:

Formation: **LKC 'K'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:29:30

Time Test Ended: 12:25:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 37

Interval: 4204.00 ft (KB) To 4220.00 ft (KB) (TVD)

Reference Elevations: 3181.00 ft (KB)

Total Depth: 4220.00 ft (KB) (TVD)

3176.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 40.95 psig @ 4205.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.13

End Date:

2012.06.13

Last Calib.:

2012.06.13

Start Time: 05:40:02

End Time:

12:25:19

Time On Btm:

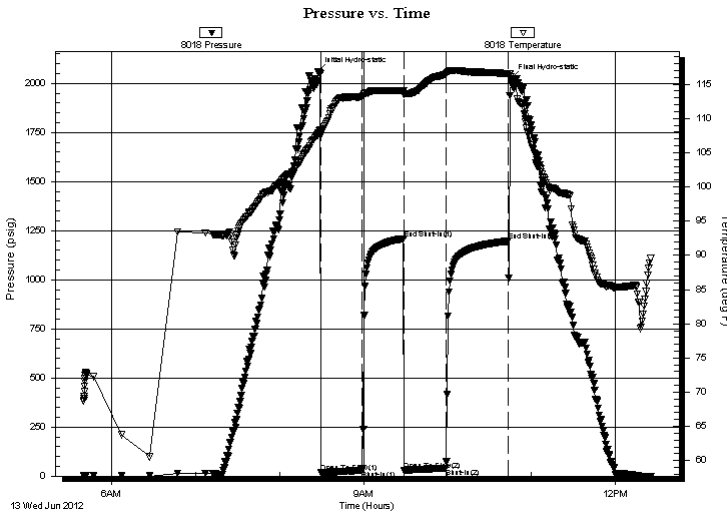
2012.06.13 @ 08:27:40

Time Off Btm:

2012.06.13 @ 10:45:10

TEST COMMENT: 3" Blow .
No return.
2" Blow .
No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2061.57	107.70	Initial Hydro-static
2	18.36	107.44	Open To Flow (1)
32	29.64	113.14	Shut-In(1)
61	1210.20	114.10	End Shut-In(1)
62	30.27	113.44	Open To Flow (2)
91	40.95	116.42	Shut-In(2)
136	1197.31	116.54	End Shut-In(2)
138	2022.51	116.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OSMW	0.84

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

K&B Norton Oil & Investment LLC

7-15s-35w Logan,KS

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

Mollencamp #1

Job Ticket: 46664

DST#: 4

ATTN: Steve Murphy

Test Start: 2012.06.13 @ 05:40:00

GENERAL INFORMATION:

Formation: **LKC 'K'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:29:30

Time Test Ended: 12:25:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 37

Interval: 4204.00 ft (KB) To 4220.00 ft (KB) (TVD)

Reference Elevations: 3181.00 ft (KB)

Total Depth: 4220.00 ft (KB) (TVD)

3176.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6751 Outside

Press @ Run Depth: psig @ 4205.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.13

End Date: 2012.06.13

Last Calib.: 1899.12.30

Start Time: 05:40:02

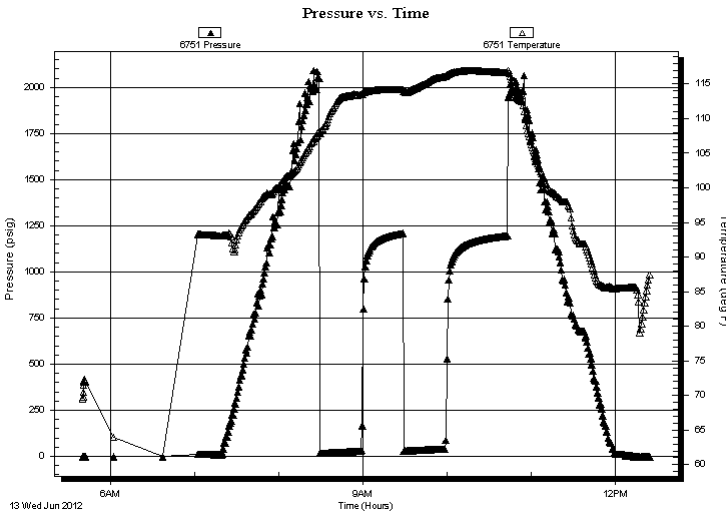
End Time: 12:25:24

Time On Btm:

Time Off Btm:

TEST COMMENT: 3" Blow .
No return.
2" Blow .
No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OSMW	0.84

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K&B Norton Oil & Investment LLC

7-15s-35w Logan,KS

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

Mollencamp #1

Job Ticket: 46664

DST#: 4

ATTN: Steve Murphy

Test Start: 2012.06.13 @ 05:40:00

Tool Information

Drill Pipe:	Length: 4189.00 ft	Diameter: 3.80 inches	Volume: 58.76 bbl	Tool Weight:	2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 58.76 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.50 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4204.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	16.00 ft				
Tool Length:	43.50 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4177.50	
Shut In Tool	5.00			4182.50	
Hydraulic tool	5.00			4187.50	
Jars	5.00			4192.50	
Safety Joint	2.50			4195.00	
Packer	5.00			4200.00	27.50 Bottom Of Top Packer
Packer	4.00			4204.00	
Stubb	1.00			4205.00	
Recorder	0.00	8018	Inside	4205.00	
Recorder	0.00	6751	Outside	4205.00	
Perforations	12.00			4217.00	
Bullnose	3.00			4220.00	16.00 Bottom Packers & Anchor

Total Tool Length: 43.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

K&B Norton Oil & Investment LLC

7-15s-35w Logan,KS

1209 W. Park Grove Dr.
Manhattan, KS 66503-2469

Mollencamp #1

Job Ticket: 46664

DST#: 4

ATTN: Steve Murphy

Test Start: 2012.06.13 @ 05:40:00

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:

19000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OSMW	0.842

Total Length: 60.00 ft Total Volume: 0.842 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

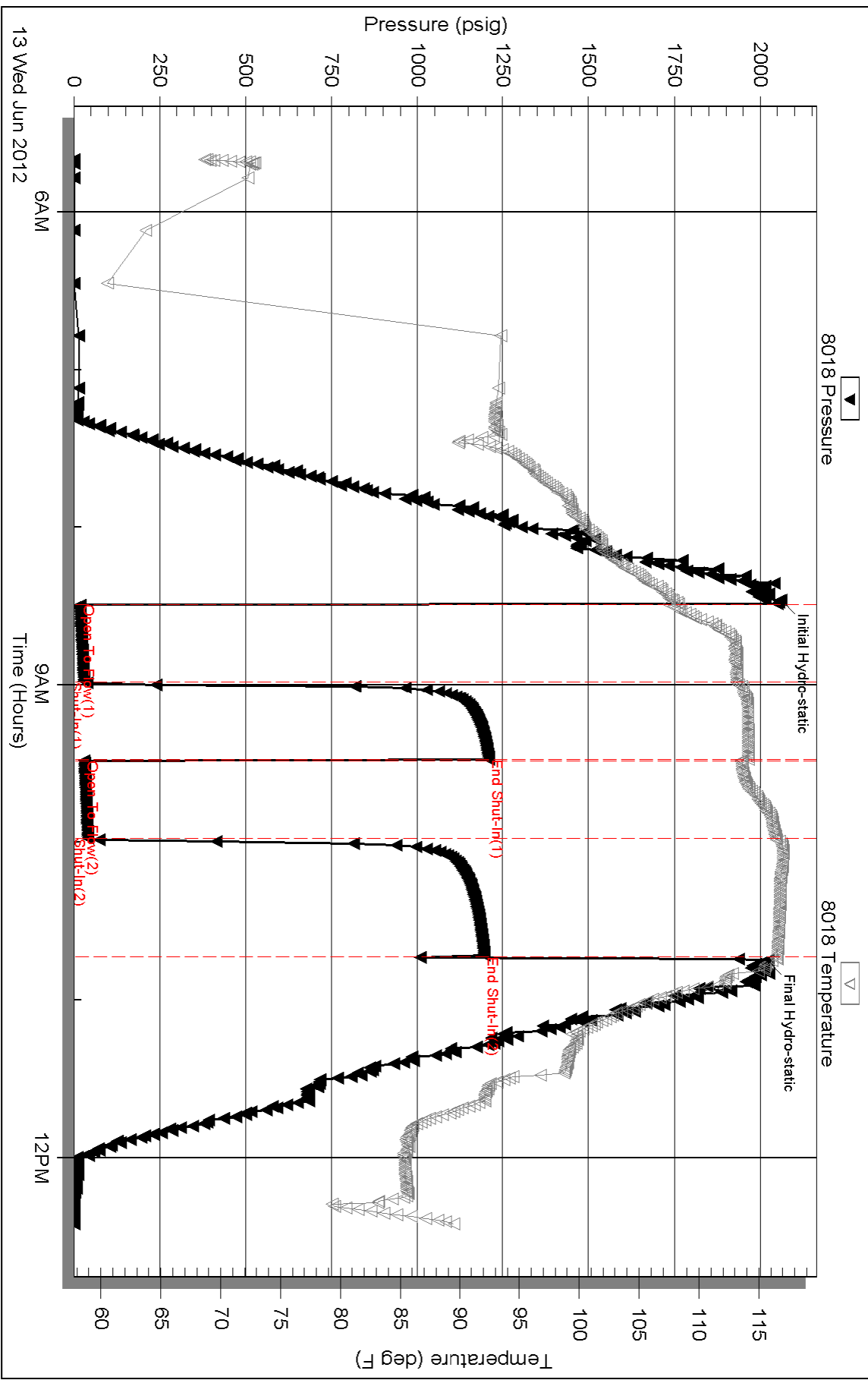
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .320 @ 82 Degrees F = 19000 PPM

Pressure vs. Time

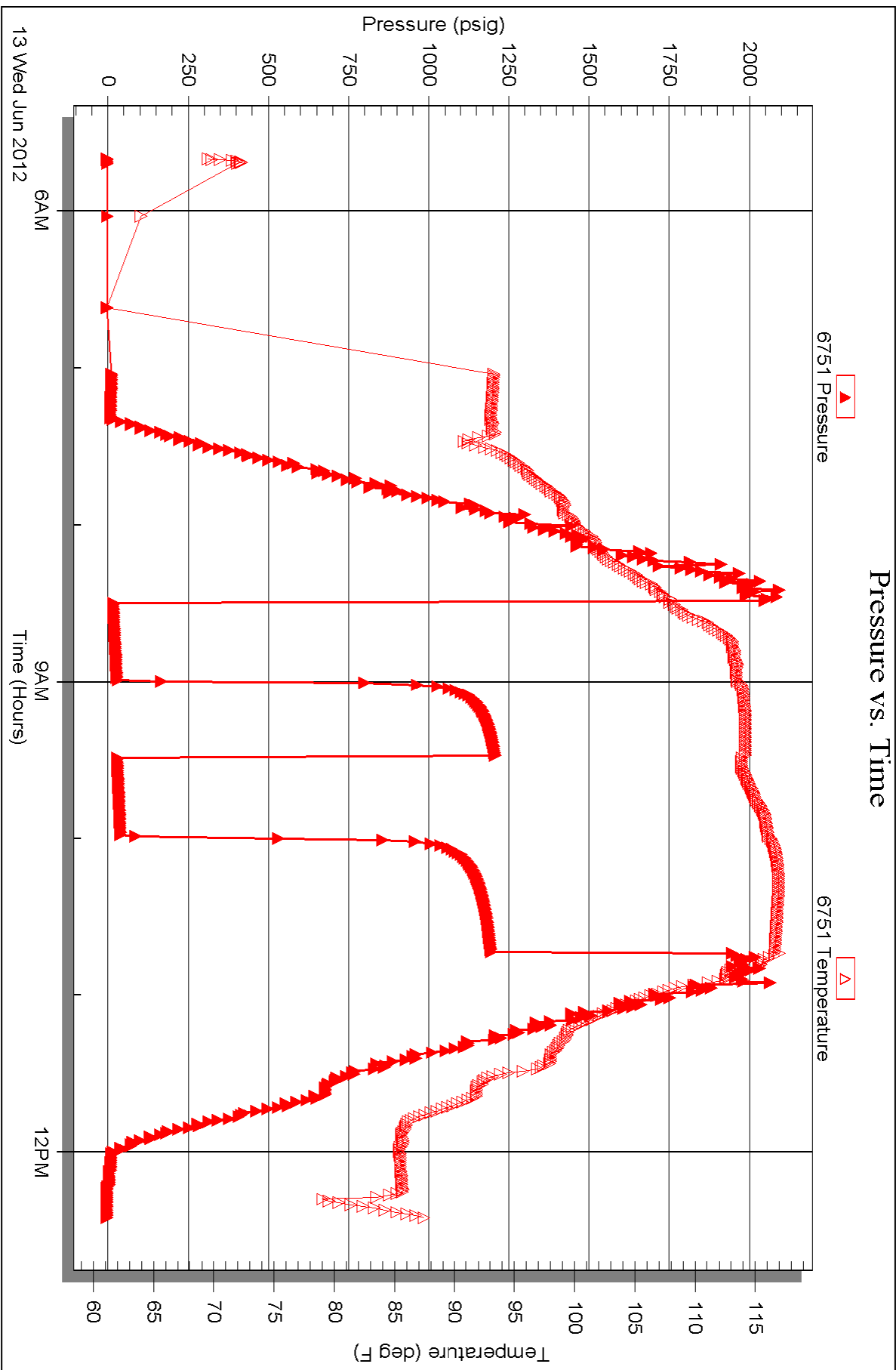


Serial #: 6751

Outside K&B Norton Oil & Investment LLC

Mollencamp #1

DST Test Number: 4





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46661

Well Name & No. Mollencamp #1 Test No. 1 Date 6-10-12
 Company K+B Norton Oil Elevation 3181 KB 3176 GL
 Address 1209 W. Park Grove Dr. Manhattan, KS 66503-2469
 Co. Rep / Geo. Steve Murphy Rig L.D.
 Location: Sec. 7 Twp. 15s Rge. 35w Co. Logan State KS

Interval Tested 3958-3976 Zone Tested LKC A
 Anchor Length 18 Drill Pipe Run 3935 Mud Wt. 9.1
 Top Packer Depth 3954 Drill Collars Run 0 Vis 51
 Bottom Packer Depth 3958 Wt. Pipe Run 0 WL 12.
 Total Depth 3976 Chlorides 6000 ppm System LCM 1/2
 Blow Description 3" Blow.
No return.
2" Blow
No return.

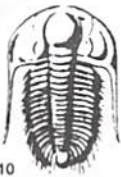
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>65</u>	Feet of <u>MW</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 65 BHT 112 Gravity - API RW .330 @ 50 °F Chlorides 30,000 ppm

(A) Initial Hydrostatic <u>1909</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>22:45</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>23:34</u>
(C) First Final Flow <u>28</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1:44</u>
(D) Initial Shut-In <u>1137</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>4:00</u>
(E) Second Initial Flow <u>32</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>5:25</u>
(F) Second Final Flow <u>44</u>	<input checked="" type="checkbox"/> Mileage <u>82RT</u> 127.10	Comments
(G) Final Shut-In <u>1146</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1904</u>	<input type="checkbox"/> Straddle	
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1852.10</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1852.10</u>	

Approved By _____ Our Representative Chuck Smith

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. **46662**

4/10

Well Name & No. Mollencamp #1 Test No. 2 Date 6-11-12
 Company K+B Norton Oil Elevation 3181 KB 3176 GL
 Address 1209 W. Park Grove Dr. Manhattan, Ks 66503-2469
 Co. Rep / Geo. Steve Murphy Rig L.D.
 Location: Sec. 7 Twp. 1.5s Rge. 35w Co. Logan State Ks

Interval Tested 4004-4030 Zone Tested LKC 'C-D'
 Anchor Length 26 Drill Pipe Run 3998 Mud Wt. 9.1
 Top Packer Depth 4000 Drill Collars Run 0 Vis .50
 Bottom Packer Depth 4030 4004 Wt. Pipe Run 0 WL 12.0
 Total Depth 4030 Chlorides 8000 ppm System LCM 1
 Blow Description B.O.B. @ 13 min.
No return.
B.O.B. @ 16 min.
No return.

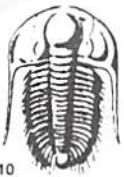
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>124</u>	Feet of <u>MW</u>	%gas	%oil	<u>60</u> %water	<u>40</u> %mud
Rec <u>366</u>	Feet of <u>W Popping gas</u>	%gas	%oil	<u>100</u> %water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 490 BHT 115 Gravity - API RW @ - °F Chlorides 48,000 ppm

(A) Initial Hydrostatic <u>2004</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>14:30</u>
(B) First Initial Flow <u>43</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:37</u>
(C) First Final Flow <u>157</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>17:12</u>
(D) Initial Shut-In <u>1152</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>19:43</u>
(E) Second Initial Flow <u>156</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>21:34</u>
(F) Second Final Flow <u>246</u>	<input checked="" type="checkbox"/> Mileage <u>82RT</u> 127.10	Comments
(G) Final Shut-In <u>1158</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1918</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1852.10</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1852.10</u>	

Approved By _____ Our Representative Chuck Smith

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46663

4/10

Well Name & No. Mollencamp #1 Test No. 3 Date 6-12-12
 Company K+B Norton Oil Elevation 3181 KB 3176 GL
 Address 1209 W. Park Grove Dr. Manhattan, KS 66503-2469
 Co. Rep / Geo. Steve Murphy Rig L.D.
 Location: Sec. 7 Twp. 15s Rge. 35w Co. Logan State KS

Interval Tested 4142-4160 Zone Tested LKC 'I'
 Anchor Length 18 Drill Pipe Run 4126 Mud Wt. 9.1
 Top Packer Depth 4138 Drill Collars Run 0 Vis 60
 Bottom Packer Depth 4142 Wt. Pipe Run 0 WL 10.4
 Total Depth 4160 Chlorides 8200 ppm System LCM 1
 Blow Description 4" Blow
No return.
3" Blow.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>15</u>	Feet of <u>0 Emulsified</u>	%gas <u>100</u>	%oil	%water	%mud
Rec <u>63</u>	Feet of <u>OCMW Emulsified</u>	%gas <u>10</u>	%oil <u>50</u>	%water <u>40</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 78 BHT 114 Gravity 10.5 API RW .234 @ 80 °F Chlorides 26000 ppm

(A) Initial Hydrostatic 2060 Test 1250 T-On Location 12:45
 (B) First Initial Flow 22 Jars 250 T-Started 12:36
 (C) First Final Flow 35 Safety Joint 75 T-Open 14:27
 (D) Initial Shut-In 1189 Circ Sub NK T-Pulled 16:42
 (E) Second Initial Flow 38 Hourly Standby T-Out 18:55
 (F) Second Final Flow 49 Mileage 82 RT 127.10 Comments
 (G) Final Shut-In 1191 Sampler
 (H) Final Hydrostatic 1984 Straddle Ruined Shale Packer
 Shale Packer 250 Ruined Packer
 Initial Open 30 Extra Packer Extra Copies
 Initial Shut-In 30 Extra Recorder Sub Total 0
 Final Flow 30 Day Standby Total 1852.10
 Final Shut-In 45 Accessibility MP/DST Disc't
 Sub Total 1852.10

Approved By _____ Our Representative Chuck Smith

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46664

4/10

Well Name & No. Mollencamp #1 Test No. 4 Date 6-13-12
 Company K+B Norton Oil Elevation 3181 KB 3176 GL
 Address 1209 W. Park Grove Dr. Manhattan, KS 66503-2469
 Co. Rep / Geo. Steve Murphy Rig L.D.
 Location: Sec. 7 Twp. 15s Rge. 35w Co. Logan State KS

Interval Tested 4204 - 4220 Zone Tested LKC 'K'
 Anchor Length 16 Drill Pipe Run 4189 Mud Wt. 9.1
 Top Packer Depth 4200 Drill Collars Run 0 Vis 49
 Bottom Packer Depth 4204 Wt. Pipe Run 0 WL 8.8
 Total Depth 4220 Chlorides 6000 ppm System LCM 2nd
 Blow Description 3" Blow.
No return.
2" Blow.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>60</u>	Feet of <u>OSMW</u>	%gas	%oil <u>60</u>	%water	%mud <u>40</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60 BHT 117 Gravity - API RW .320 @ 82 °F Chlorides 19000 ppm

(A) Initial Hydrostatic <u>2062</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>5:40</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>5:40</u>
(C) First Final Flow <u>30</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>8:30</u>
(D) Initial Shut-In <u>1210</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>10:44</u>
(E) Second Initial Flow <u>30</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:25</u>
(F) Second Final Flow <u>41</u>	<input checked="" type="checkbox"/> Mileage <u>82RT</u> <u>127.10</u>	Comments
(G) Final Shut-In <u>1197</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2023</u>	<input type="checkbox"/> Straddle	
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1852.10</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1852.10</u>	

Approved By _____

Our Representative Chuck Smith

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STEVEN P. MURPHY, P.G.

Petroleum Geologist (KS #228)

Cell 620.639.3030

Fax 785.387.2400

RR#1, Box 69

Otis, Kansas 67565

geomurphy@gbta.net

**Scale 1:240 (5"=100') Imperial
Measured Depth Log**

Well Name: Mollencamp #1

Location: Logan County

License Number: API # 15-109-21,102-00-00

Region: Kansas

Spud Date: 6/4/12

Drilling Completed: 6/16/12

Surface Coordinates: 1020' FSL & 400' FEL (Approx. NW NE SE SE)

Section 7-T15S-R35W

Bottom Hole Coordinates: Same as above (Vertical well w/minimum deviation)

Ground Elevation (ft): 3176'

K.B. Elevation (ft): 3181'

Logged Interval (ft): 3600'

To: TD

Total Depth (ft): RTD-4875' LTD-4872'

Formation: Topeka through Mississippian

Type of Drilling Fluid: Chemical (Mudco - Reid Atkins Mud Engineer)

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: K&B Norton Oil Investments, LLS

Address:

GEOLOGIST

Name: Steven P. Murphy, PG (KS License #228)

Company: Consulting Petroleum Geologist

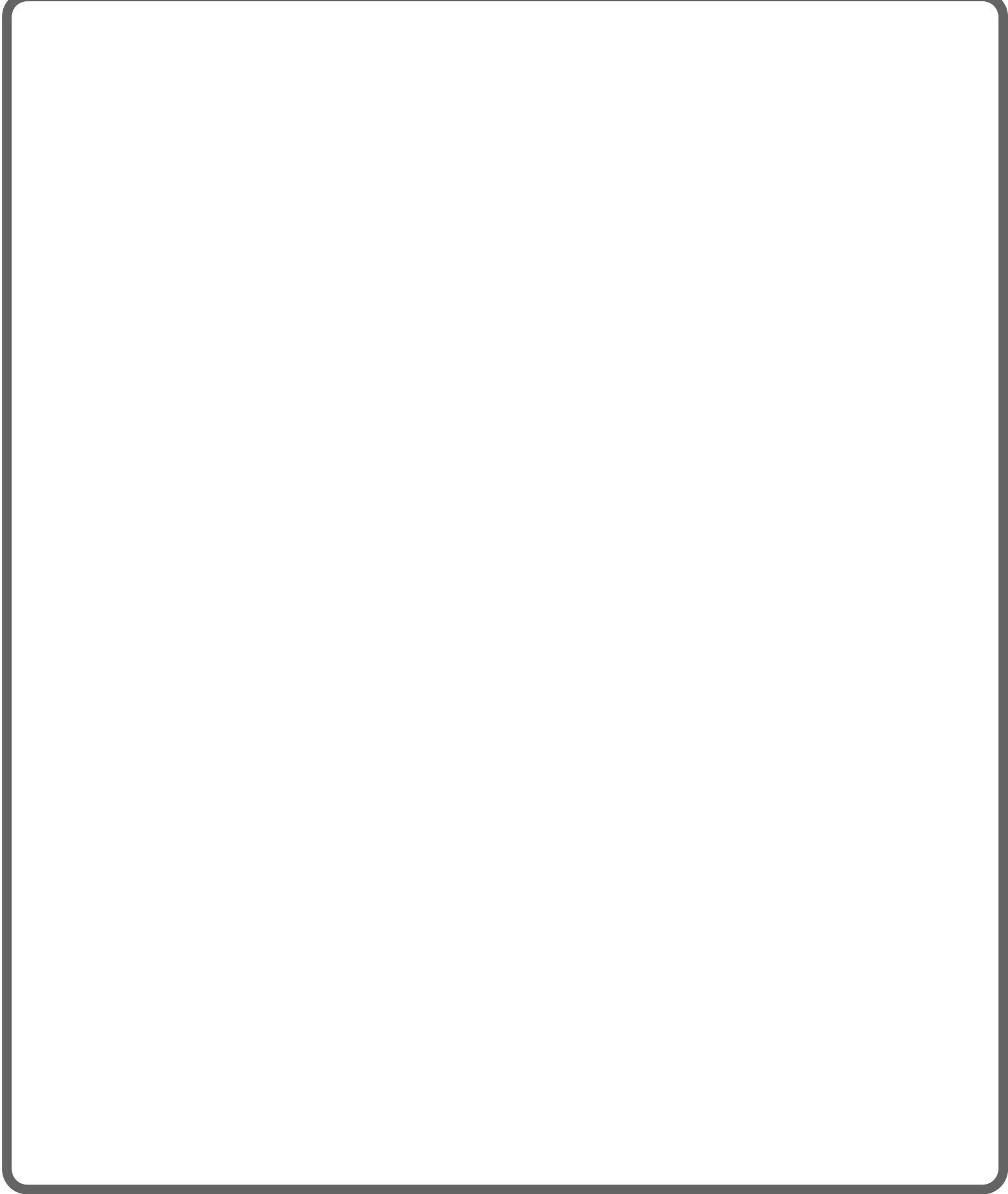
Address: 3365 CR 390

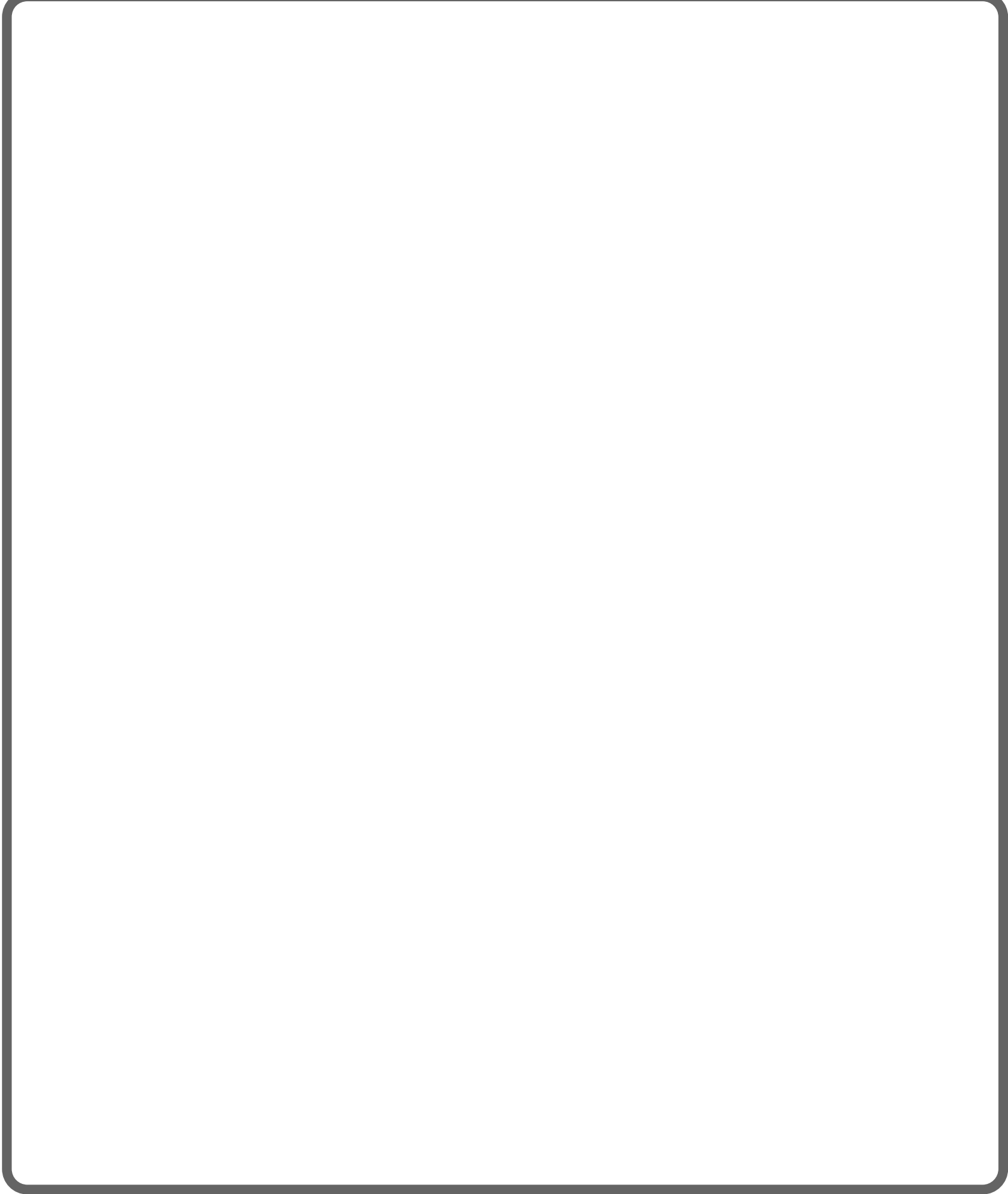
Otis, KS 67565

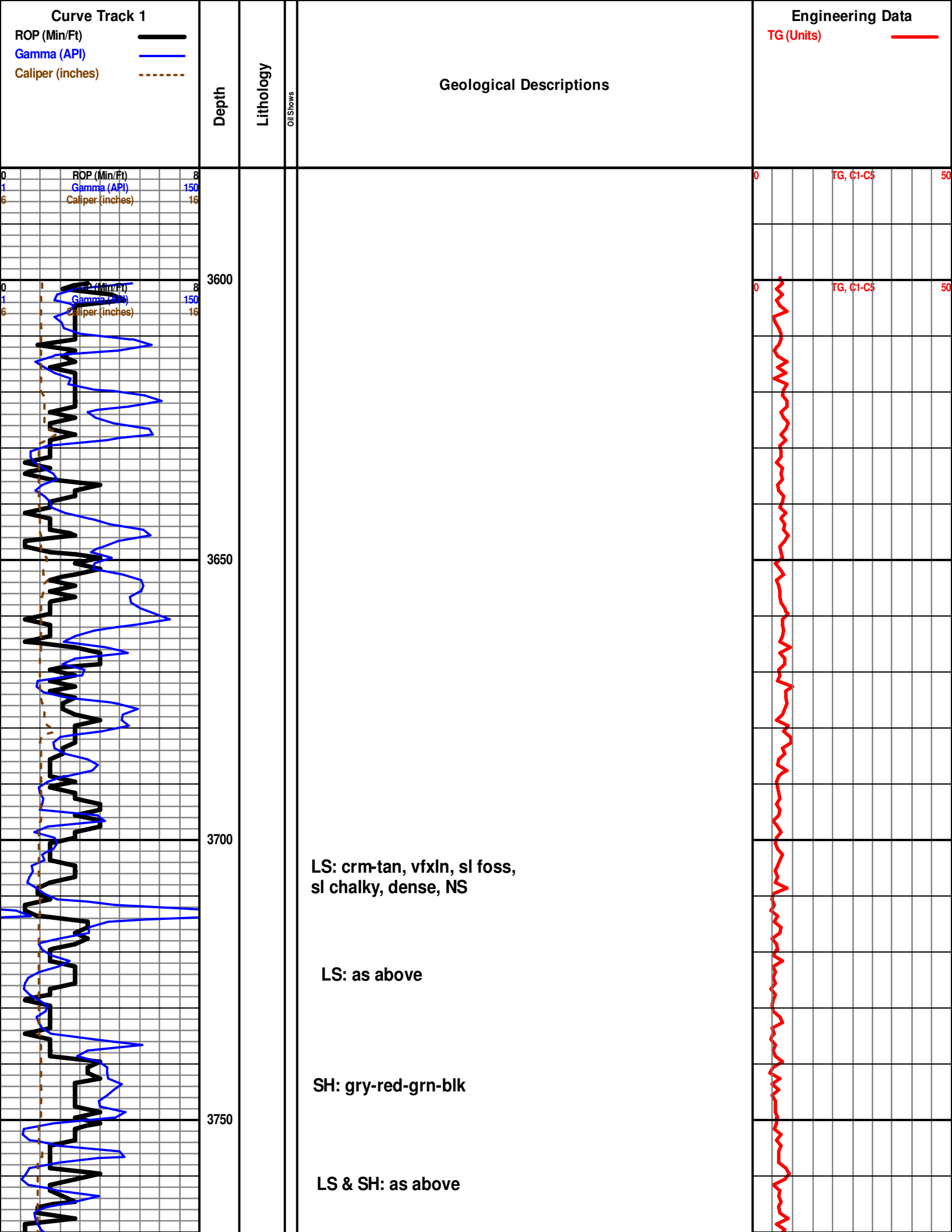
REMARKS

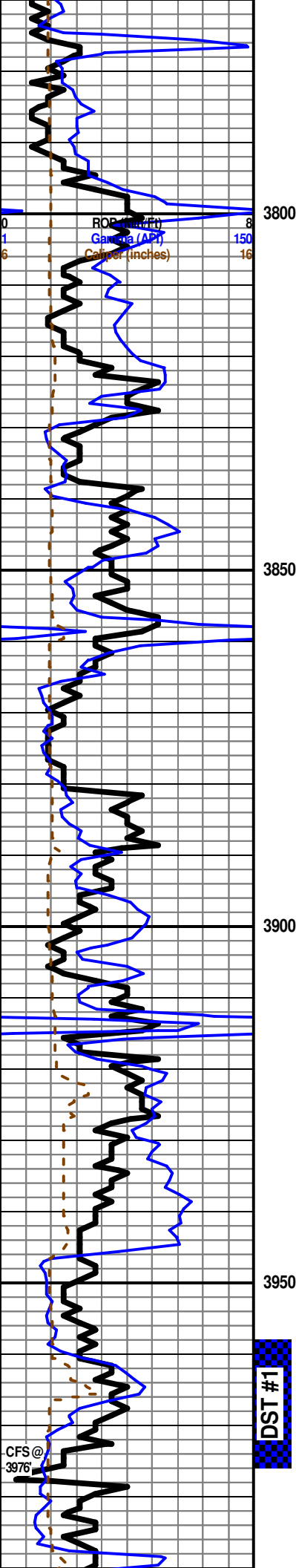
An open-hole logging program including Compensated Neutron/Density, Sonic, Dual Induction & Microlog was completed by Log-Tech (Hays, KS). The following are formation tops from the logs with associated datums:

Top Anhydrite - 2476 (+705)
Base Anhydrite - 2494 (+687)
Heebner - 3913 (-732)
Toronto - 3947 (-766)
Lansing -3968 (-787)
Muncie Creek -4141 (-960)
Stark - 4224 (-1043)
Hushpuckney - 4270 (-1089)
Base KC - 4316 (-1135)
Marmaton -4370 (-1189)
Pawnee - 4438 (-1257)
Myrick Station - 4477 (-1296)
Fort Scott - 4496 (-1315)
Cherokee - 4524 (-1343)
Johnson - 4585 (-1404)
Morrow Sh - 4654 (-1473)
Morrow Sst - 4717 (-1536)
Mississippian - 4731 (-1550)









LS: crm-tan-gry, vfxln, foss,
sl oolic, chalky, NS

SH: gry-blk-grn-red

LS: wht-tan, fxlN, oolic, fr
oomold por, NS

SH: gry-grn

LS & SH: as above

LS: crm-tan, fxlN, pr inxln
por, chalky, NS

LS: wht-tan, fxlN, oolic, fr
inter-ool & vug por, ssfo, fr
stn, sl odor

SH: gry-grn-brn

LS: crm-tan-gry, vfxln,
dense, sl foss, sl chalky,
cherty, NS

Gas Detector Test

SH: blk, carb HEEBNER 3915 (-734)

SH: gry-grn-brn

SH: gry-grn-rust

TORONTO 3949 (-768)

LS: wht-tan-gry, vfxln, sl
foss, cherty, chalky, dense,
NS

SH: gry-grn-rust

LANSING 3969 (-788)

LS: wht-crm, fxlN, oolic,
fr-gd vug por, fsfo, sat stn,
sl odor

DST#1 3958-3976 (LKC "A")

30:30:30:45

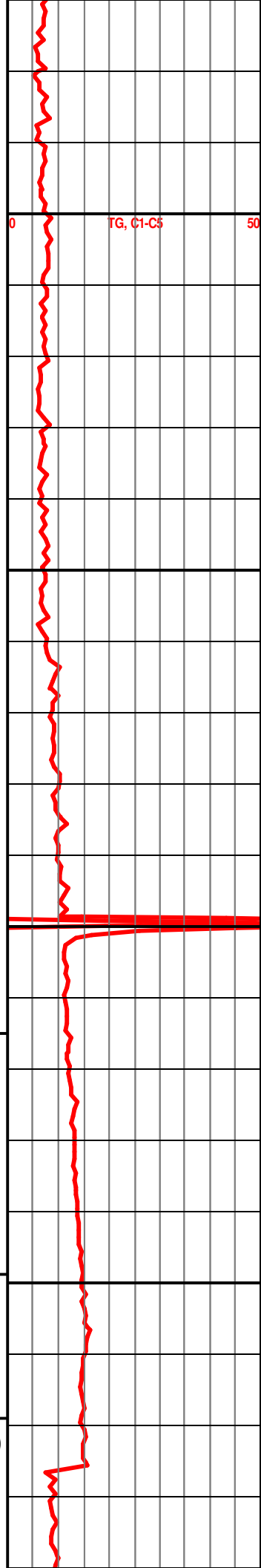
IF: 3" blow, no return

FF: 2" blow, no return

Recovery: 65' MW

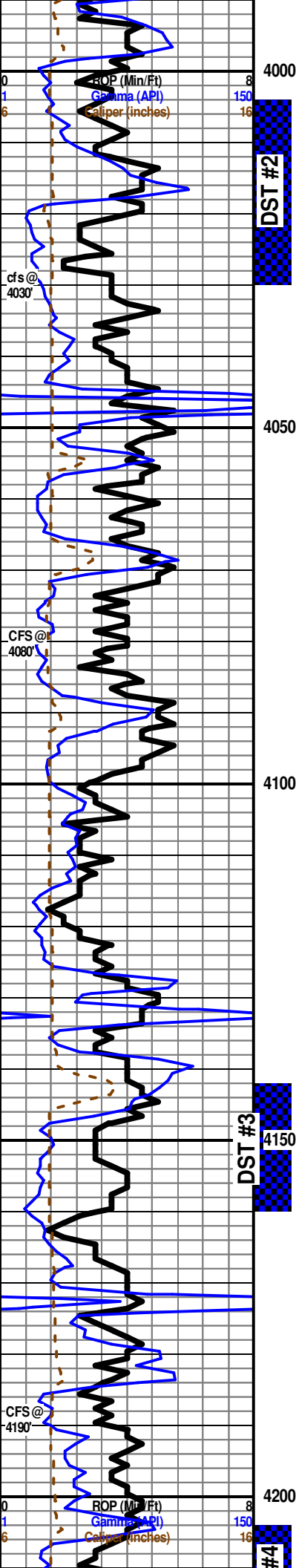
ILR: 1000 FLR: 1004

LS: as above



CFS@
3976

DST #1



SH: gry-grn-brn-rust

IHP: 1909 FHP: 1904
IFP: 21-28 ISIP: 1137
FFP: 32-44 FSIP: 1146
BHT - 112 F
Chlorides - 30,000 ppm

LS: wht-tan, fxlN, oolic, fr vug por, fsfo, sat stn, str odor

DST #2 4004-4030 (LKC C-D)
30:30:30:60

LS: as above w/incr in por and show (gsy)
SH: grn-red-rust-blk

IF: BOB13 min, no return
FF: BOB 16 min, no return
Recovery: 124' MW,
366' W w/popping gas
IHP: 2004 FHP: 1918
IFP: 43-157 ISIP: 1152
FF: 156-246 FSIP: 1158
BHT - 115 F
Chlorides - 48,000 ppm

LS: wht-crm-gry, fxlN, gd ppt & vug por, gsfo, sat stn, str odor

LS: wht-crm, vfxln, oolitic, pr int-ool por, nsfo, v spotty stn, sl odor

SH: gry-blk-grn

LS: wht-tan, f-vfxln, mostly dense, rare pr inxln por, vssfo on brk, spotty stn, sl odor

LS: crm-tan, f-vfxln, mostly dense, rare pr ppt por, vssfo, spotty to fr stn, sl odor

SH: gry-grn-brn-blk

LS: crm-tan-gry, vfxln, sl chalky, dense, ssfo, spotty stn, no odor

DST #3 4142-4160 (LKC H)
30:30:30 45
IF: 4" blow, no return
FF: 3" blow, no return
Recovery: 15' Oil,
63' OCMW (10% O,
50% W, 40% M)
IHP: 2060 FHP: 1984
IFP: 22-35 ISIP: 1189
FFP: 38-49 FSIP: 1191
BHT - 114 F
Chlorides - 26,000 ppm

LS: as above, mostly dense w/some fr inxln & vug por, sl incr in show

SH: grn-blk-brn-gry

MUNCIE CRK 4146 (-965)

SH: blk-gry

LS: wht, oolic, fr-gd vug por, fsfo, fr sat stn, str odor

LS: wht-tan-gry, fxlN, fr vug por, ssfo, spotty stn, fr odor

DST #4 4204-4220 (LKC J)
30:30:30:45
IF: 3" blow, no return
FF: 2" blow, no return
Recovery: 30' Oil
spotted
Muddy Wtr

SH: blk

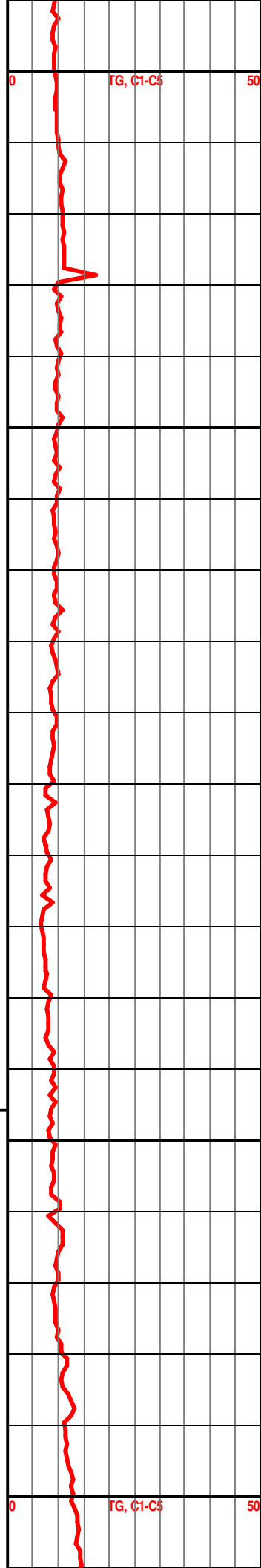
LS: crm-brn-gry, vfxln, sl chalky, dense, NS (w/abund grn gummy SH)

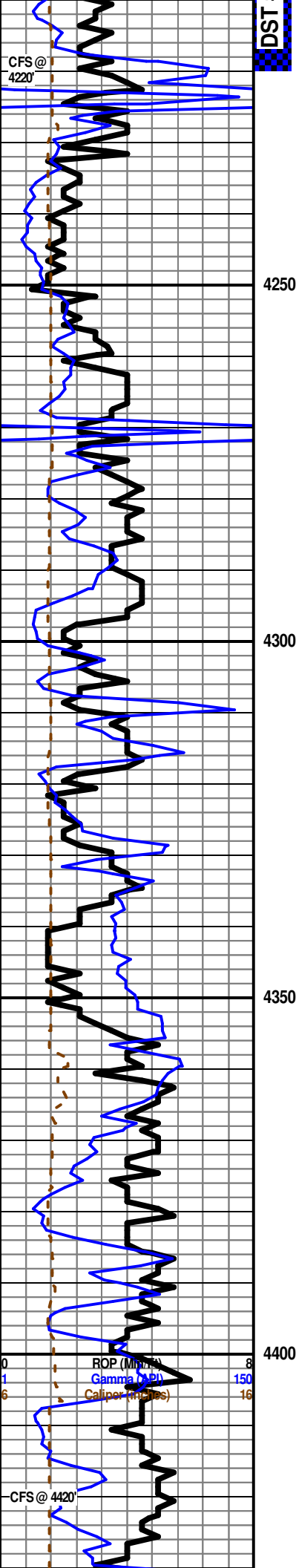
SH: gry-grn-blk

SH: gry-grn

LS: wht-crm-tan, fxlN, sl foss, sl chalky, fr-gd ppt &

IHP: 2062 FHP: 2023
IFP: 18-30 ISIP: 1210
FFP: 30-41 FSIP: 1197
BHT - 117 F





LS: crm-tan, vfxln, sl
vug por, fsfo, fr sat stn, str
odor Chlorides - 19,000 ppm

STARK 4224 (-1043)

SH: blk, carb

LS: as above w/tr dead oil
stn, nsfo, no odor (cherty)

LS: crm-tan, vfxln, sl
chalky, dense, NS

LS: tan-brn, vfxln, oolitic,
dense, sl chalky, NS

HUSHPUCKNEY 4268 (-1087)

SH: gry-grn-brn-blk

LS: crm-brn-gry, vfxln,
pelletal, dense, NS

LS: crm-tan-brn, vfxln, sl
foss, dense, NS

LS: as above

LS: as above w/abund
multic shales

BKC 4318 (-1137)

SH: gry-gry-blk-red

LS: crm-tan-brn, fxln, v.
foss, chalky, fr inxln por,
NS

SH: red-grn-gry (gummy)

MARMATON 4363 (-1182)

LS: crm-tan, vfxln, dense,
pelletal in pt, oolic in pt
w/pr int-ool por, vssfo
(tarry), pr spotty stn, no
odor

LS: crm-tan-gry, vfxln, sl
chalky, dense, NS

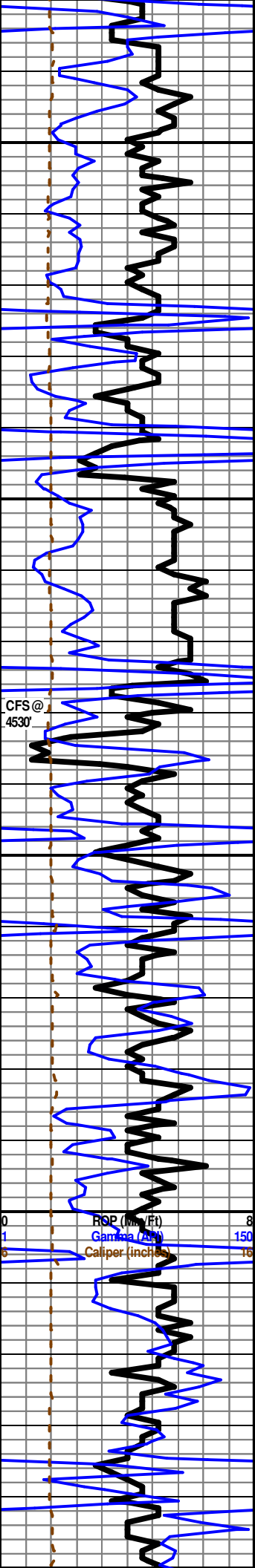
SH: gry-grn-red

SH: gry-grn-red

LS: crm-gry, vfxln, sl
oolitic, tight-nvp, minor
edge stn, nsfo, no odor

LS: as above, NS

0 16 TG, C1-C5 50



4450
4500
4550
4600
4650

SH: blk, carb PAWNEE 4433 (-1252)

LS: crm-brn-gry, vfxln, foss, pelletal, dense, NS

LS: as above, cherty, NS

LS: crm-brn-gry, vfxln, sl foss, v. dense, minor cht, NS

SH: blk-dk gry

MYR STATION 4479 (-1298)

LS: crm-brn-gry, vfxln, foss, pelletal, bioclastic, dense, NS

SH: blk, carb

FT SCOTT 4498 (-1317)

LS: crm-tan-brn, vfxln, foss, dense, NS

LS: as above w/minor cht

CHEROKEE 4526 (-1345)

SH: blk, carb
LS: crm-tan-gry, vfxln, pelletal, bioclastic, foss, sl chalky, dense, NS

LS: as above w/abund blk shale

LS: as above w/abund blk shale

JOHNSON 4566 (-1385)

LS: crm-brn-gry, vfxln, dense, abund chert, abund gry-blk shale, NS

LS-SH-CHT: as above

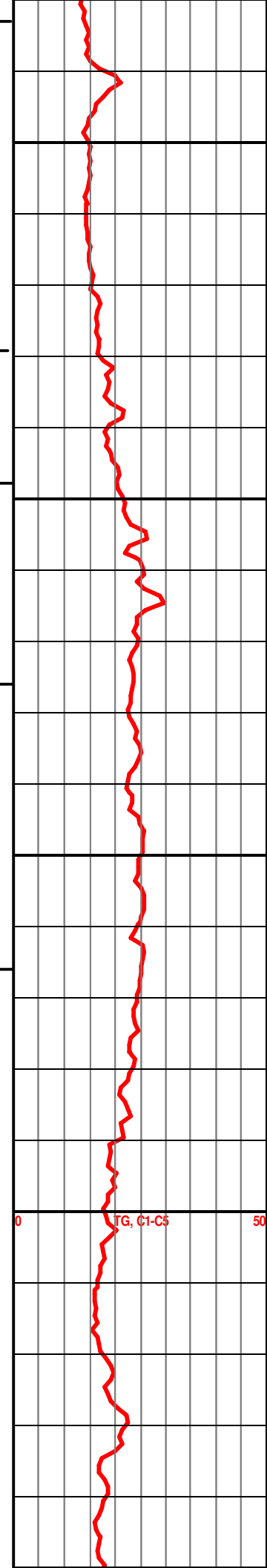
LS: tan-brn-gry, vfxln, v. dense, cherty, NS

LS: crm-brn-gry, vfxln, v. dense, NS

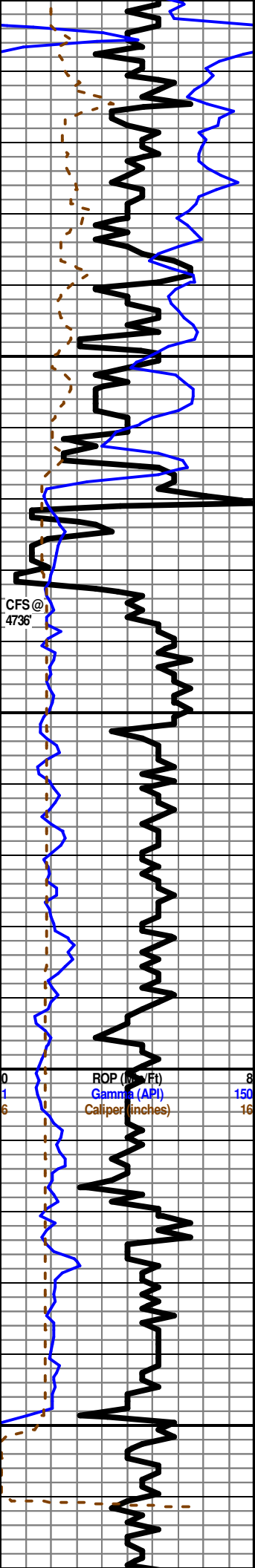
SH: grn-blk-gry w/tr vfg sst

SH: gry-grn-blk

LS: crm-tan-dk gry, vfxln, v. dense, shaley, NS



0 TG, C1-C5 50

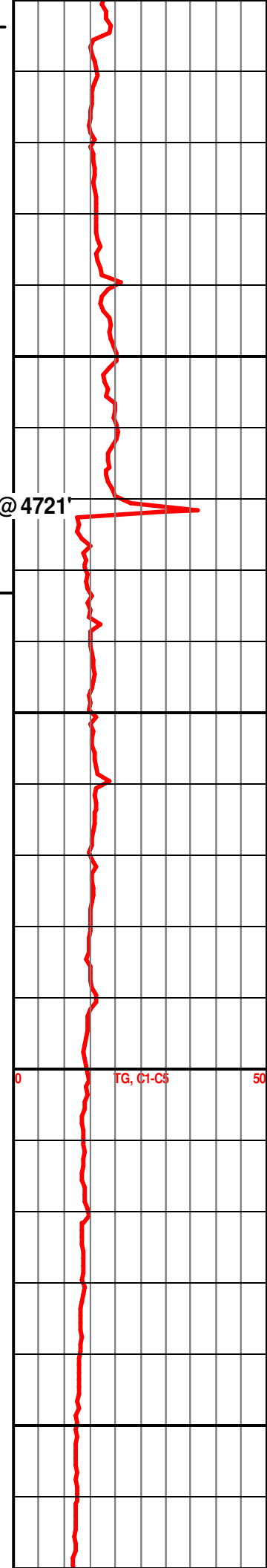


4700
4750
4800
4850

MORROW SH 4654 (-1473)
 SH: blk-gry-grn w/minor wht-grn vfg sst, NS
 LS: crm-tan-gry, vfxln, v. dense, abund shale, NS
 SH: multic w/minor amts wht-grn vfg shaley Sst, NS
 SH: gry-grn-blk-yell (gummy clay balls)
 SH: as above w/minor amt of Sst: clr-grn, f-cgr, prly std, sub-ang, glauconitic, min pyrite, NS
 SST & SH: as above
 Shale/clay balls, very poor sample quality!

MRW SST 4721 (-1540) — BIT TRIP @ 4721'
 SST: f-cgr clusters, prly std, sub-rd, gd por, sl glauc, NS

MISS 4733 (-1552)
 LS: wht-tan-brn, vfxln, pelletal, sl foss, sl chalky, v dense, NS
 SH: multic w/pelletal wht-tan LS, as above
 LS: wht-gry-grn, pelletal, vfxln, chalky, dense, NS
 LS: as above
 LS: crm-gry, vfxln, pelletal, sandy w/chalky matrix, dense, NS
 LS: as above
 LS: tan-gry, vfxln, v dense, sl chalky, NS
 LS: as above
 LS: tan-brn, micro-xln, v dense, NS



CFS @ 4736'

ROP (ft) 8
 Gamma (API) 150
 Caliper (inches) 16

0 TG, C1-C5 50

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/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 31, 2012

Ken Norton
K & B Norton Oil & Investments, LLC
1209 W. Park Grove Dr.
MANHATTAN, KS 66503

Re: ACO1
API 15-109-21102-00-00
Mollenkamp 1
SE/4 Sec.07-15S-35W
Logan 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,
Ken Norton