



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1073460
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: _____

1073460

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> <input type="checkbox"/> Other <i>(Specify)</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	McDaniel 1
Doc ID	1073460

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	K & B Norton Oil & Investments, LLC
Well Name	McDaniel 1
Doc ID	1073460

Tops

Name	Top	Datum
Anhydrite	2296	+ 610
Heebner	3768	- 862
Lansing	3816	- 910
Base KC	4162	-1256
Marmaton	4204	-1298
Pawnee	4303	-1397
Myrick	4333	-1427
Fort Scott	4350	-1444
Cherokee	4383	-1477
Johnson	4424	-1518

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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

February 06, 2012

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

Re: ACO1
API 15-109-21048-00-00
McDaniel 1
SE/4 Sec.02-15S-34W
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

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: K & B HYDROCARBON SERVICES
LEASE: McDaniel's #1
FIELD: C-1
LOCATION: 2850' FULL 2717 FULL
SEC: 2 TWP: 15S R06 E34W
COUNTY: Logan STATE: KANSAS
CONTRACTOR: L D DRILLING

SPUD: 11-16-11 COMP: 11-26-2011
RTD: 4645 LTD: 4644
MUD UP: 3100 TYPE MUD: MUD-1
SAMPLER: CASCO-301
ELECTRICAL SERVICES: PRODUCTON: MIA

SAMPLES SAVED FROM: 1/1A TO 1/1D
DRILLING TIME KEPT FROM: 3500 TO 1/1D
SAMPLER EXAMINED FROM: 3490 TO 1/1D
GEOLOGICAL SUPERVISION FROM: ANHWYRIZ TO 1/1D
GEOLOGIST ON WELL: CHRIS BEAN

FORMATION TOPS: LOG SAMPLES

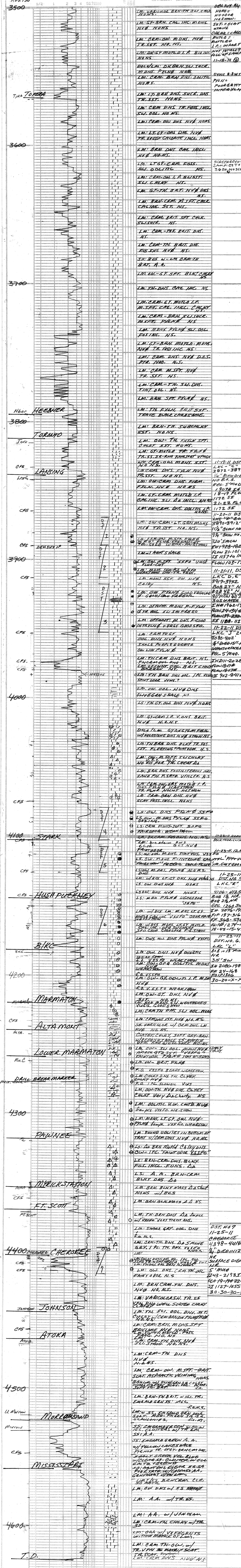
SEE BELOW OFFER FOR HOLE DRILLING IN 1/1A, 1/1B, 1/1C, 1/1D
STEEPENED HOLE TO 2850' BY 2717' TO 2717' TO 2717' TO 2717'
WELL SAMPLES WERE NORMALLY FEEL BELOW
BY HANDS BUT SEEM TO BE EXACTLY AS
PROFIT BY ROCK SAMPLES

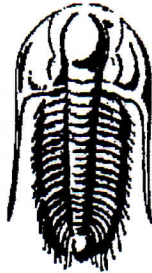
REMARKS: BASED ON DRILL SIGN TESTS, SAMPLES, LOGS IT WAS
AGREED UPON BY ALL PARTIES INVOLVED NOT TO TEST
BEHIND PRODUCTION CASING & PLUG & ABANDON THIS WELL
AT THIS TIME 11-26-11

Chris A. Bean Geologist

Note: Well open to pull twice string weight for 8-10 stands on all
trips out of hole.

Mcdaniel 1	samples	SS	m.d.	e-log	s.s.	Younkin 1	MD	Mcdaniel 1
KB	MD	SS	m.d.	e-log	s.s.	KB	MD	Position +/-
2938	2320	618	2318	620	Anhydrite	2906	2296	610
2938	2338	600	2338	600	Base	2906	2314	592
2938	3796	-858	3793	-855	HBNR	2906	3768	-862
2938			3812	-874	Toronto			
2938	3844	-906	3839	-901	LNSG	2906	3816	-910
2938			4102	-1164	Stark			
2938			4144	-1206	Hushpuckney			
2938	4182	-1244	4180	-1242	BKC	2906	4162	-1256
2938	4225	-1287	4220	-1282	Marmaton	2906	4204	-1298
2938			4240	-1302	Altamont			
2938			4260	-1322	L. Marmaton			
2938	4320	-1382	4318	-1380	PAW	2906	4303	-1397
2938	4354	-1416	4354	-1416	MYRICK	2906	4333	-1427
2938	4372	-1434	4372	-1434	FT.SCT.	2906	4350	-1444
2938	4404	-1466	4403	-1465	CHRK.	2906	4383	-1477
2938	4442	-1504	4444	-1506	JOHNSON.	2906	4424	-1518
2938			4474	-1536	Atoka			
2938			4523	-1585	Morrow Sand			
2938			4559	-1621	Mississippi			





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

1209 W Park Grove Dr
Manhattan, KS 66503-2469

ATTN: Chris Bean

McDaniel #1

2-15s-34w Logan,KS

Start Date: 2011.11.19 @ 13:30:39

End Date: 2011.11.19 @ 20:35:09

Job Ticket #: 45420 DST #: 1

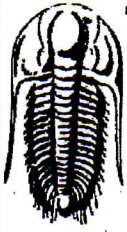
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.07 @ 08:46:09

K&B Norton Oil & Invest LLC
2-15s-34w Logan,KS
McDaniel #1
DST # 1
C
2011.11.19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

K&B Norton Oil & Invest LLC

2-15s-34w Logan, KS

1209 W Park Grove Dr
Manhattan, KS 66503-2469

McDaniel #1

Job Ticket: 45420

DST#: 1

ATTN: Chris Bean

Test Start: 2011.11.19 @ 13:30:39

GENERAL INFORMATION:

Formation: C
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 16:00:39
Time Test Ended: 20:35:09

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane McBride
Unit No: 55

Interval: **3872.00 ft (KB) To 3890.00 ft (KB) (TVD)**
Total Depth: 3890.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2938.00 ft (KB)
2933.00 ft (CF)
KB to GRV/CF: 5.00 ft

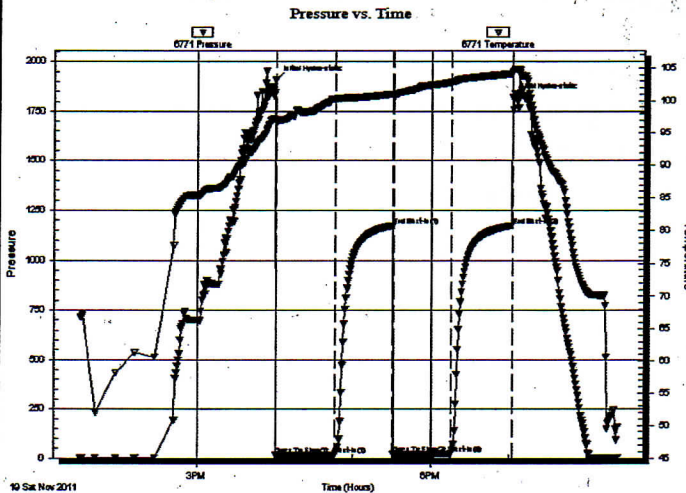
Serial #: 6771

Outside

Press@RunDepth: 22.21 psig @ 3873.00 ft (KB)
Start Date: 2011.11.19 End Date: 2011.11.19
Start Time: 13:30:39 End Time: 20:24:09

Capacity: 8000.00 psig
Last Calib.: 2011.11.19
Time On Btm: 2011.11.19 @ 16:00:24
Time Off Btm: 2011.11.19 @ 19:02:39

TEST COMMENT: 1/4" blow died in 17 min.
No return
No blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1907.80	97.15	Initial Hydro-static
1	18.67	96.72	Open To Flow (1)
46	19.33	100.24	Shut-In(1)
90	1172.73	101.01	End Shut-In(1)
90	21.48	100.77	Open To Flow (2)
135	22.21	102.81	Shut-In(2)
182	1172.62	104.12	End Shut-In(2)
183	1822.25	104.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% _m	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K&B Norton Oil & Invest LLC

2-15s-34w Logan,KS

1209 W Park Grove Dr
Manhattan, KS 66503-2469

McDaniel #1

Job Ticket: 45420

DST#: 1

ATTN: Chris Bean

Test Start: 2011.11.19 @ 13:30:39

Tool Information

Drill Pipe:	Length: 3872.00 ft	Diameter: 3.80 inches	Volume: 54.31 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: 54.31 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3872.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3846.00	
Shut In Tool	5.00			3851.00	
Hydraulic tool	5.00			3856.00	
Jars	5.00			3861.00	
Safety Joint	2.00			3863.00	
Packer	5.00			3868.00	27.00 Bottom Of Top Packer
Packer	4.00			3872.00	
Stubb	1.00			3873.00	
Recorder	0.00	6771	Outside	3873.00	
Recorder	0.00	6667	Inside	3873.00	
Perforations	12.00			3885.00	
Bullnose	5.00			3890.00	18.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

K&B Norton Oil & Invest LLC

2-15s-34w Logan,KS

1209 W Park Grove Dr
Manhattan, KS 66503-2469

McDaniel #1

Job Ticket: 45420

DST#: 1

ATTN: Chris Bean

Test Start: 2011.11.19 @ 13:30:39

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.91 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

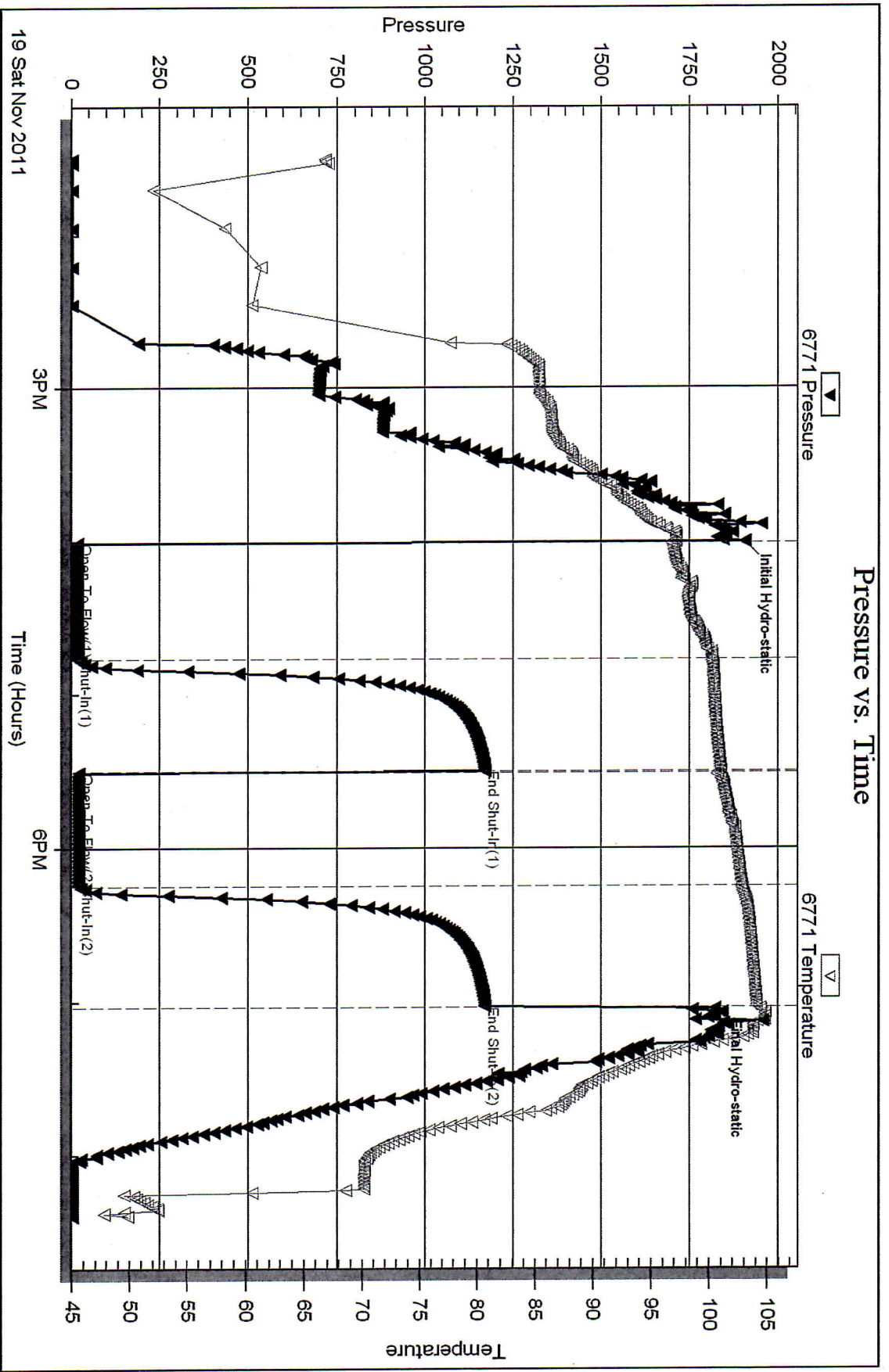
Recovery Comments:

Serial #: 6771

Outside K&B Norton Oil & Invest LLC

McDaniel #1

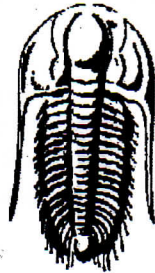
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 45420

Printed: 2011.12.07 @ 08:46:11



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

1209 W Park Grove Dr
Manhattan, KS 66503-2469

ATTN: Chris Bean

McDaniel #1

2-15s-34w Logan,KS

Start Date: 2011.11.20 @ 04:10:50

End Date: 2011.11.20 @ 11:10:35

Job Ticket #: 45421 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.07 @ 08:46:47

K&B Norton Oil & Invest LLC
2-15s-34w Logan,KS
McDaniel #1
DST # 2
D
2011.11.20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

K&B Norton Oil & Invest.LLC

2-15s-34w Logan,KS

1209 W Park Grove Dr
Manhattan, KS 66503-2469

McDaniel #1

Job Ticket: 45421

DST#: 2

ATTN: Chris Bean

Test Start: 2011.11.20 @ 04:10:50

GENERAL INFORMATION:

Formation: **D**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 05:56:05
 Time Test Ended: 11:10:35

Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55

Interval: **3890.00 ft (KB) To 3912.00 ft (KB) (TVD)**
 Total Depth: 3912.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2938.00 ft (KB)
 2933.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6771

Outside

Press@RunDepth: 170.63 psig @ 3891.00 ft (KB)
 Start Date: 2011.11.20 End Date: 2011.11.20
 Start Time: 04:10:50 End Time: 10:55:35

Capacity: 8000.00 psig
 Last Calib.: 2011.11.20
 Time On Btm: 2011.11.20 @ 05:55:50
 Time Off Btm: 2011.11.20 @ 09:01:20

TEST COMMENT: 11 1/2" blow
 No return
 9 1/4" blow
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1928.88	92.78	Initial Hydro-static
1	21.75	91.93	Open To Flow (1)
46	101.42	112.14	Shut-In(1)
92	1157.98	109.43	End Shut-In(1)
92	103.46	108.87	Open To Flow (2)
136	170.63	115.04	Shut-In(2)
185	1149.33	113.27	End Shut-In(2)
186	1823.43	113.31	Final Hydro-static

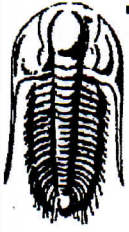
Recovery

Length (ft)	Description	Volume (bbl)
80.00	s m c w 20% m 80% w	1.12
240.00	water 100% w	3.37

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K&B Norton Oil & Invest LLC

2-15s-34w Logan,KS

1209 W Park Grove Dr
Manhattan, KS 66503-2469

McDaniel #1

Job Ticket: 45421

DST#: 2

ATTN: Chris Bean

Test Start: 2011.11.20 @ 04:10:50

Tool Information

Drill Pipe:	Length: 3872.00 ft	Diameter: 3.80 inches	Volume: 54.31 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 54.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3890.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	49.00 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			3864.00	
Shut In Tool	5.00			3869.00	
Hydraulic tool	5.00			3874.00	
Jars	5.00			3879.00	
Safety Joint	2.00			3881.00	
Packer	5.00			3886.00	27.00 Bottom Of Top Packer
Packer	4.00			3890.00	
Stubb	1.00			3891.00	
Recorder	0.00	6771	Outside	3891.00	
Recorder	0.00	6667	Inside	3891.00	
Perforations	16.00			3907.00	
Bullnose	5.00			3912.00	22.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

K&B Norton Oil & Invest LLC

2-15s-34w Logan,KS

1209 W Park Grove Dr
Manhattan, KS 66503-2469

McDaniel #1

Job Ticket: 45421

DST#: 2

ATTN: Chris Bean

Test Start: 2011.11.20 @ 04:10:50

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.89 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	s m c w 20%m 80%w	1.122
240.00	water 100%w	3.367

Total Length: 320.00 ft Total Volume: 4.489 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .251 @ 75*f = 26,000 chlor

Serial #: 6771

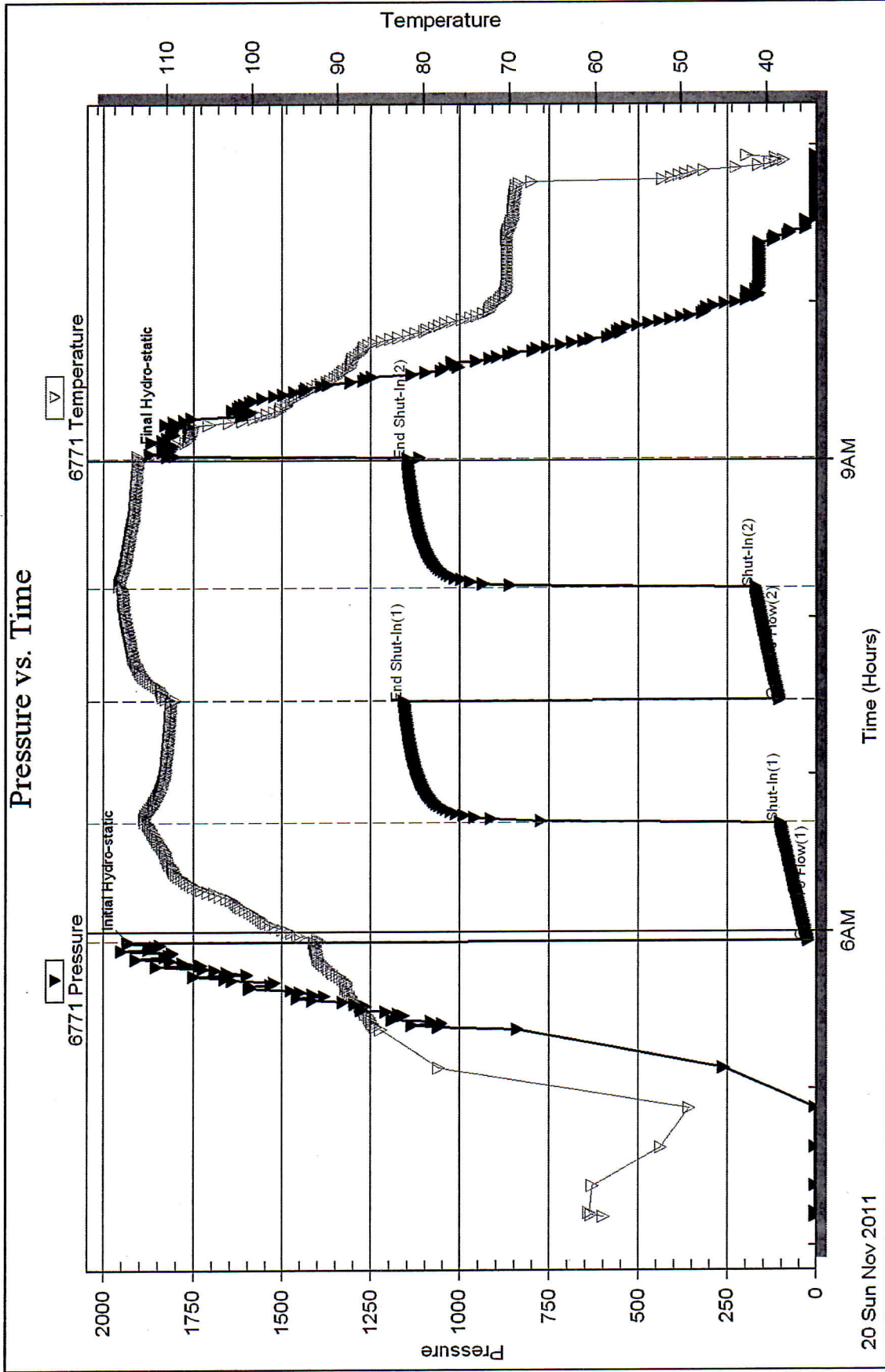
Outside

K&B Norton Oil & Invest LLC

McDaniel #1

DST Test Number: 2

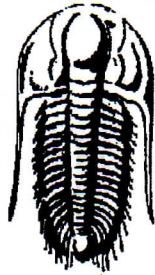
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 45421

Printed: 2011.12.07 @ 08:46:48



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

1209 W Park Grove Dr
Manhattan, KS 66503-2469

ATTN: Chris Bean

McDaniel #1

2-15s-34w Logan,KS

Start Date: 2011.11.20 @ 18:55:23

End Date: 2011.11.21 @ 02:40:08

Job Ticket #: 45422 DST #: 3

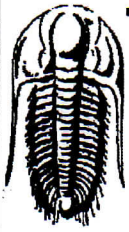
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.07 @ 08:47:06

K&B Norton Oil & Invest LLC 2-15s-34w Logan,KS McDaniel #1 DST # 3 D-E 2011.11.20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

K&B Norton Oil & Invest LLC
1209 W Park Grove Dr
Manhattan, KS 66503-2469
ATTN: Chris Bean

2-15s-34w Logan,KS

McDaniel #1

Job Ticket: 45422

DST#: 3

Test Start: 2011.11.20 @ 18:55:23

GENERAL INFORMATION:

Formation: **D-E**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 20:47:53
Time Test Ended: 02:40:08

Test Type: Conventional Bottom Hole (Reset)
Tester: Shane McBride
Unit No: 55

Interval: **3917.00 ft (KB) To 3952.00 ft (KB) (TVD)**
Total Depth: 3952.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2938.00 ft (KB)
2933.00 ft (CF)
KB to GR/CF: 5.00 ft

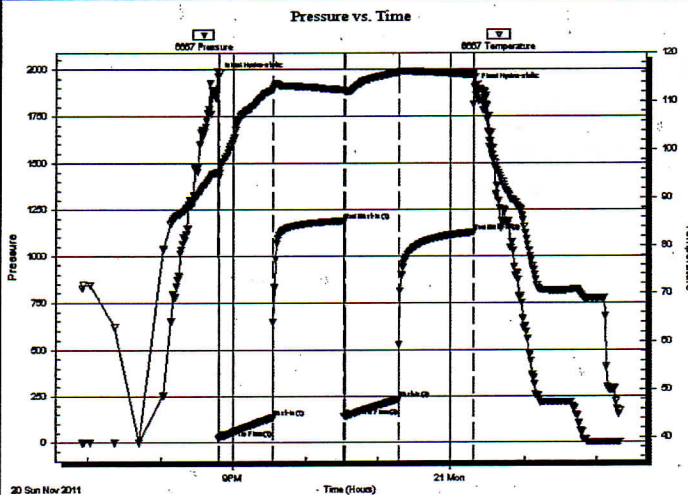
Serial #: 6667

Inside

Press@RunDepth: 232.68 psig @ 3918.00 ft (KB)
Start Date: 2011.11.20 End Date: 2011.11.21
Start Time: 18:55:23 End Time: 02:19:08

Capacity: 8000.00 psig
Last Calib.: 2011.11.21
Time On Btm: 2011.11.20 @ 20:47:38
Time Off Btm: 2011.11.21 @ 00:19:53

TEST COMMENT: B.O.B. in 27 min.
No return
B.O.B. in 42 min
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1962.12	95.32	Initial Hydro-static
1	24.54	94.36	Open To Flow (1)
45	134.39	112.42	Shut-In(1)
104	1188.58	112.37	End Shut-In(1)
105	139.83	112.00	Open To Flow (2)
149	232.68	115.84	Shut-In(2)
211	1127.48	115.40	End Shut-In(2)
213	1904.15	114.94	Final Hydro-static

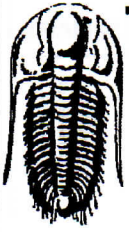
Recovery

Length (ft)	Description	Volume (bbl)
90.00	mc w 30% m 70% w	1.26
60.00	s mc w 10% m 90% w	0.84
305.00	water 100% w	4.28

* 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 & Invest LLC

2-15s-34w Logan,KS

1209 W Park Grove Dr
Manhattan, KS 66503-2469

McDaniel #1

Job Ticket: 45422

DST#: 3

ATTN: Chris Bean

Test Start: 2011.11.20 @ 18:55:23

Tool Information

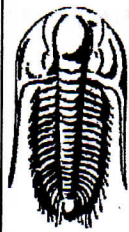
Drill Pipe:	Length: 3902.00 ft	Diameter: 3.80 inches	Volume: 54.73 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 54.73 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3917.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	62.00 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			3891.00	
Shut In Tool	5.00			3896.00	
Hydraulic tool	5.00			3901.00	
Jars	5.00			3906.00	
Safety Joint	2.00			3908.00	
Packer	5.00			3913.00	27.00 Bottom Of Top Packer
Packer	4.00			3917.00	
Stubb	1.00			3918.00	
Recorder	0.00	6771	Outside	3918.00	
Recorder	0.00	6667	Inside	3918.00	
Perforations	29.00			3947.00	
Bullnose	5.00			3952.00	35.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

K&B Norton Oil & Invest LLC

2-15s-34w Logan, KS

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

McDaniel #1

Job Ticket: 45422

DST#: 3

ATTN: Chris Bean

Test Start: 2011.11.20 @ 18:55:23

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

27000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.72 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	m c w 30% m 70% w	1.262
60.00	s m c w 10% m 90% w	0.842
305.00	w ater 100% w	4.278

Total Length: 455.00 ft Total Volume: 6.382 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

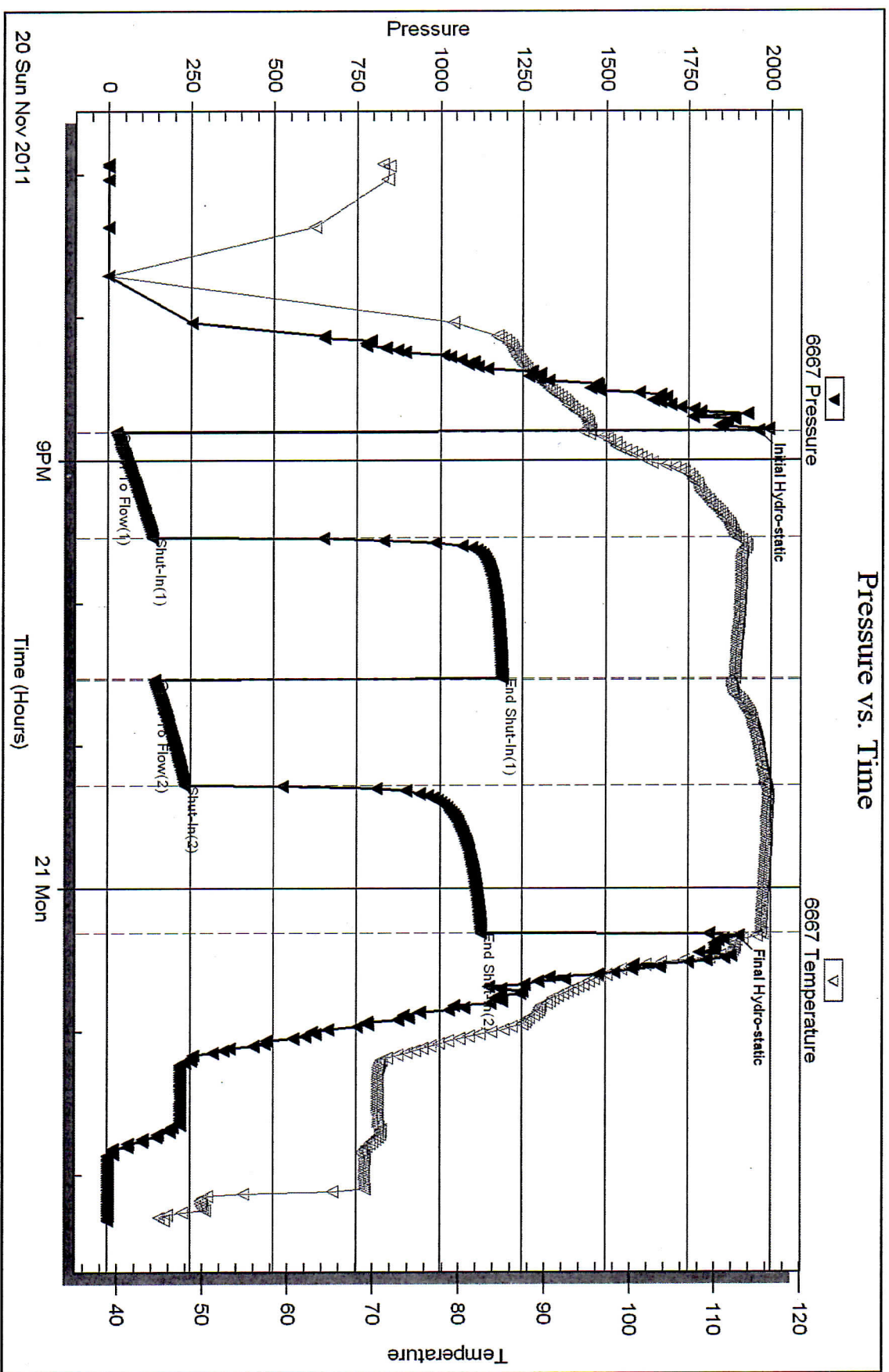
Recovery Comments: rw .331 @ 55*f = 27,000 chlor

Serial #: 6667

Inside K&B Norton Oil & Invest LLC

McDaniel #1

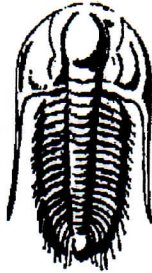
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 45422

Printed: 2011.12.07 @ 08:47:08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

1209 W Park Grove Dr
Manhattan, KS 66503-2469

ATTN: Chris Bean

McDaniel #1

2-15s-34w Logan,KS

Start Date: 2011.11.22 @ 00:00:29

End Date: 2011.11.22 @ 08:25:14

Job Ticket #: 45423 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.07 @ 08:47:23

K&B Norton Oil & Invest LLC
2-15s-34w Logan,KS
McDaniel #1
DST # 4
J
2011.11.22



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

K&B Norton Oil & Invest LLC

2-15s-34w Logan,KS

1209 W Park Grove Dr
Manhattan, KS 66503-2469

McDaniel #1

Job Ticket: 45423

DST#: 4

ATTN: Chris Bean

Test Start: 2011.11.22 @ 00:00:29

GENERAL INFORMATION:

Formation: **J**
 Deviated: **No** Whipstock: **0.00 ft (KB)**
 Time Tool Opened: 02:14:59
 Time Test Ended: 08:25:14

Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Shane McBride**
 Unit No: **55**

Interval: **4080.00 ft (KB) To 4102.00 ft (KB) (TVD)**
 Total Depth: **4102.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2938.00 ft (KB)**
2933.00 ft (CF)
 KB to GR/CF: **5.00 ft**

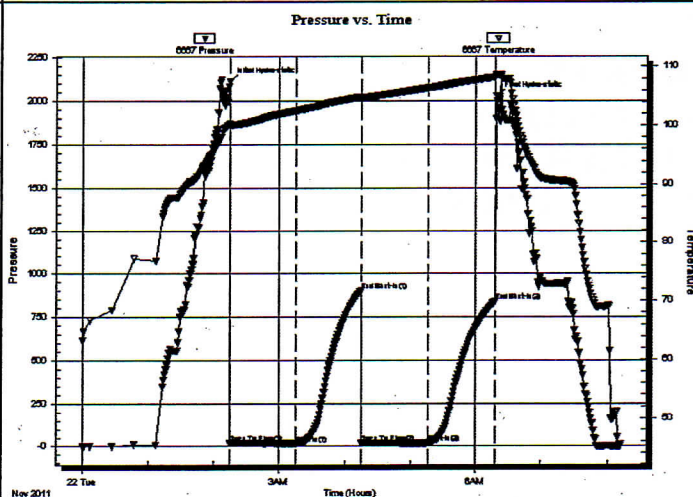
Serial #: 6667

Inside

Press@RunDepth: **17.98 psig @ 4081.00 ft (KB)**
 Start Date: **2011.11.22** End Date:
 Start Time: **00:00:29** End Time:

Capacity: **8000.00 psig**
 Last Calib.: **2011.11.22**
 Time On Btm: **2011.11.22 @ 02:14:29**
 Time Off Btm: **2011.11.22 @ 06:19:29**

TEST COMMENT: **1/4" in blow died in 15 min**
No return
Bubble to open tool, no blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2111.58	100.28	Initial Hydro-static
1	18.14	99.97	Open To Flow (1)
61	16.97	102.47	Shut-In(1)
121	902.27	104.85	End Shut-In(1)
121	18.25	104.47	Open To Flow (2)
182	17.98	106.33	Shut-In(2)
244	841.41	108.17	End Shut-In(2)
245	2028.64	108.61	Final Hydro-static

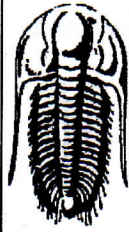
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% _m	0.07

* 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 & Invest LLC

2-15s-34w Logan,KS

1209 W Park Grove Dr
Manhattan, KS 66503-2469

McDaniel #1

Job Ticket: 45423

DST#: 4

ATTN: Chris Bean

Test Start: 2011.11.22 @ 00:00:29

Tool Information

Drill Pipe:	Length: 4062.00 ft	Diameter: 3.80 inches	Volume: 56.98 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: 56.98 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4080.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	49.00 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			4054.00	
Shut In Tool	5.00			4059.00	
Hydraulic tool	5.00			4064.00	
Jars	5.00			4069.00	
Safety Joint	2.00			4071.00	
Packer	5.00			4076.00	27.00 Bottom Of Top Packer
Packer	4.00			4080.00	
Stubb	1.00			4081.00	
Recorder	0.00	6771	Outside	4081.00	
Recorder	0.00	6667	Inside	4081.00	
Perforations	16.00			4097.00	
Bullnose	5.00			4102.00	22.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

K&B Norton Oil & Invest LLC

2-15s-34w Logan,KS

1209 W Park Grove Dr
Manhattan, KS 66503-2469

McDaniel #1

Job Ticket: 45423

DST#: 4

ATTN: Chris Bean

Test Start: 2011.11.22 @ 00:00:29

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.53 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100% _m	0.070

Total Length: 5.00ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

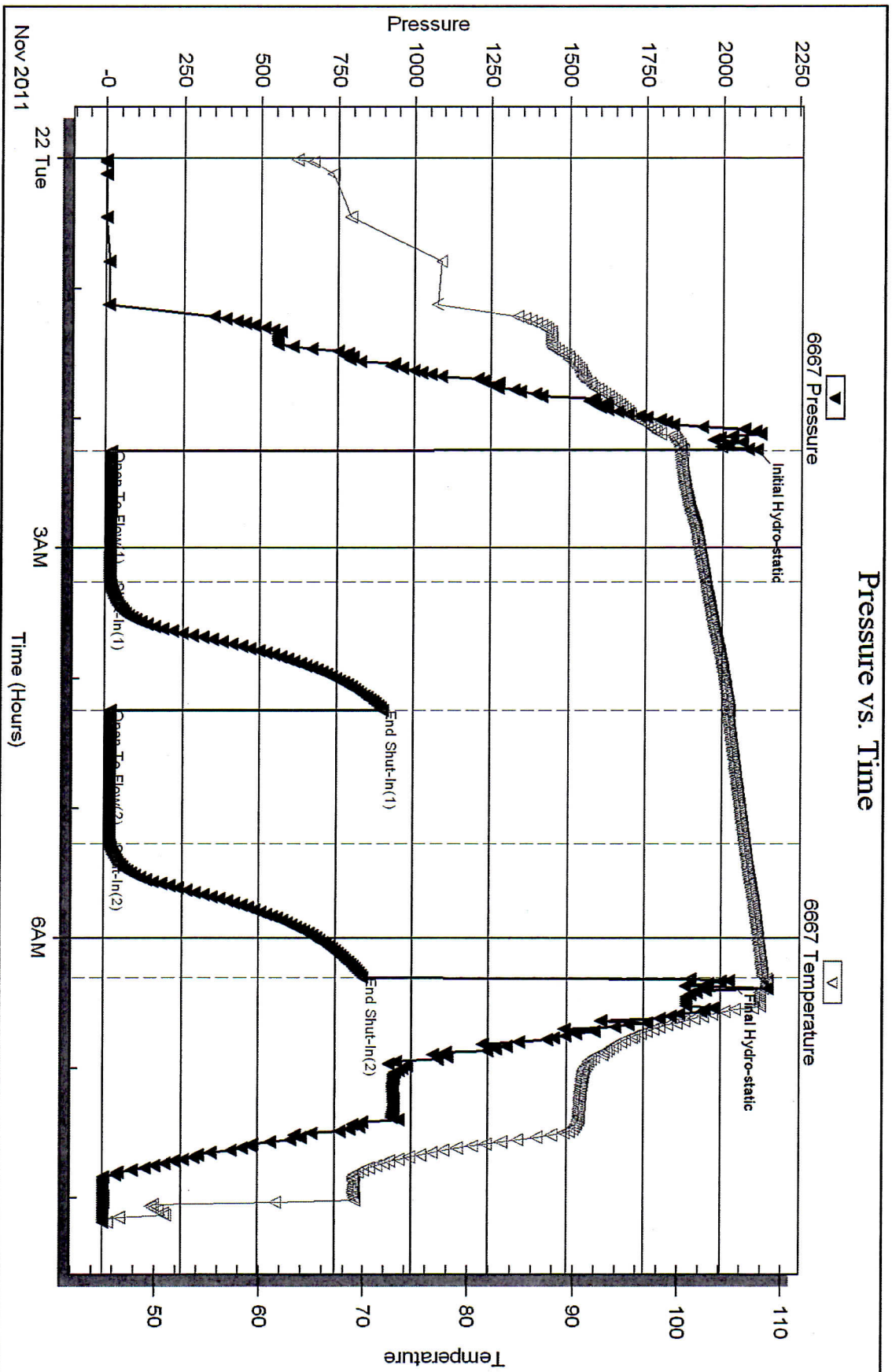
Recovery Comments:

Serial #: 6667

Inside K&B Norton Oil & Invest LLC

McDaniel #1

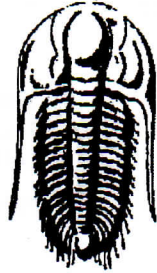
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 45423

Printed: 2011.12.07 @ 08:47:25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

1209 W Park Grove Dr
Manhattan, KS 66503-2469

ATTN: Chris Bean

McDaniel #1

2-15s-34w Logan,KS

Start Date: 2011.11.22 @ 16:25:28

End Date: 2011.11.22 @ 23:00:43

Job Ticket #: 45424 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS.67601

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

Printed: 2011.12.07 @ 08:47:50

K&B Norton Oil & Invest LLC 2-15s-34w Logan,KS McDaniel #1 DST # 5 K 2011.11.22



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

K&B Norton Oil & Invest LLC

2-15s-34w Logan,KS

1209 W Park Grove Dr
Manhattan, KS 66503-2469

McDaniel #1

Job Ticket: 45424

DST#: 5

ATTN: Chris Bean

Test Start: 2011.11.22 @ 16:25:28

GENERAL INFORMATION:

Formation: **K**
 Deviated: **No Whipstock: 0.00 ft (KB)**
 Time Tool Opened: 18:27:58
 Time Test Ended: 23:00:43

Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Shane McBride**
 Unit No: **55**

Interval: **4106.00 ft (KB) To 4125.00 ft (KB) (TVD)**
 Total Depth: **4125.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2938.00 ft (KB)**
2933.00 ft (CF)
 KB to GR/CF: **5.00 ft**

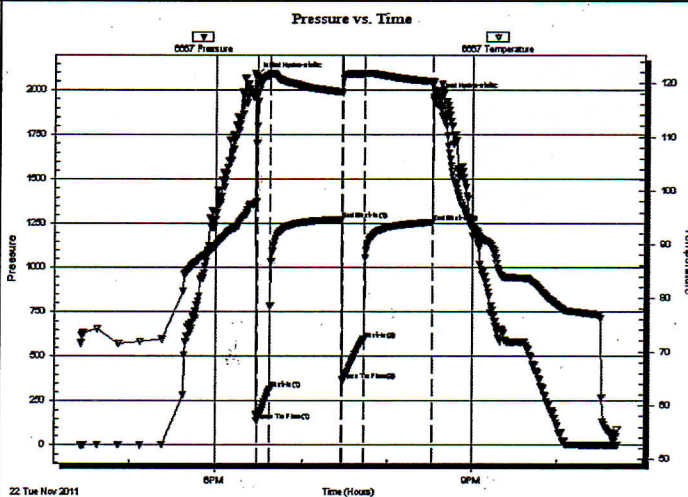
Serial #: 6667

Inside

Press@RunDepth: **596.91 psig @ 4107.00 ft (KB)**
 Start Date: **2011.11.22** End Date: **2011.11.22**
 Start Time: **16:25:28** End Time: **22:41:43**

Capacity: **8000.00 psig**
 Last Calib.: **2011.11.22**
 Time On Btm: **2011.11.22 @ 18:27:13**
 Time Off Btm: **2011.11.22 @ 20:32:13**

TEST COMMENT: **B.O.B. in 1 1/2 min.
 No return
 B.O.B. in 2 1/2 min.
 No return**



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2076.82	97.87	Initial Hydro-static
1	137.20	108.85	Open To Flow (1)
10	316.41	121.42	Shut-In(1)
61	1274.90	118.30	End Shut-In(1)
61	368.48	118.18	Open To Flow (2)
76	596.91	121.65	Shut-In(2)
125	1257.76	120.23	End Shut-In(2)
125	1962.05	120.09	Final Hydro-static

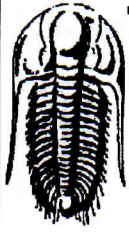
Recovery

Length (ft)	Description	Volume (bbl)
180.00	m c w 15% m 85% w	2.52
1080.00	water 100% w	15.15

* 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 & Invest LLC

2-15s-34w Logan,KS

1209 W Park Grove Dr
Manhattan, KS 66503-2469

McDaniel #1

Job Ticket: 45424

DST#: 5

ATTN: Chris Bean

Test Start: 2011.11.22 @ 16:25:28

Tool Information

Drill Pipe:	Length: 4093.00 ft	Diameter: 3.80 inches	Volume: 57.41 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume:	57.41 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4106.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4080.00	
Shut In Tool	5.00			4085.00	
Hydraulic tool	5.00			4090.00	
Jars	5.00			4095.00	
Safety Joint	2.00			4097.00	
Packer	5.00			4102.00	27.00 Bottom Of Top Packer
Packer	4.00			4106.00	
Stubb	1.00			4107.00	
Recorder	0.00	6771	Outside	4107.00	
Recorder	0.00	6667	Inside	4107.00	
Perforations	13.00			4120.00	
Bullnose	5.00			4125.00	19.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

K&B Norton Oil & Invest LLC

2-15s-34w Logan,KS

1209 W Park Grove Dr
Manhattan, KS 66503-2469

McDaniel #1

Job Ticket: 45424

DST#: 5

ATTN: Chris Bean

Test Start: 2011.11.22 @ 16:25:28

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

32500 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.33 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	m c w 15% m 85% w	2.525
1080.00	water 100% w	15.150

Total Length: 1260.00 ft Total Volume: 17.675 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .211 @ 70*f = 32,500 chlor

Serial #: 6667

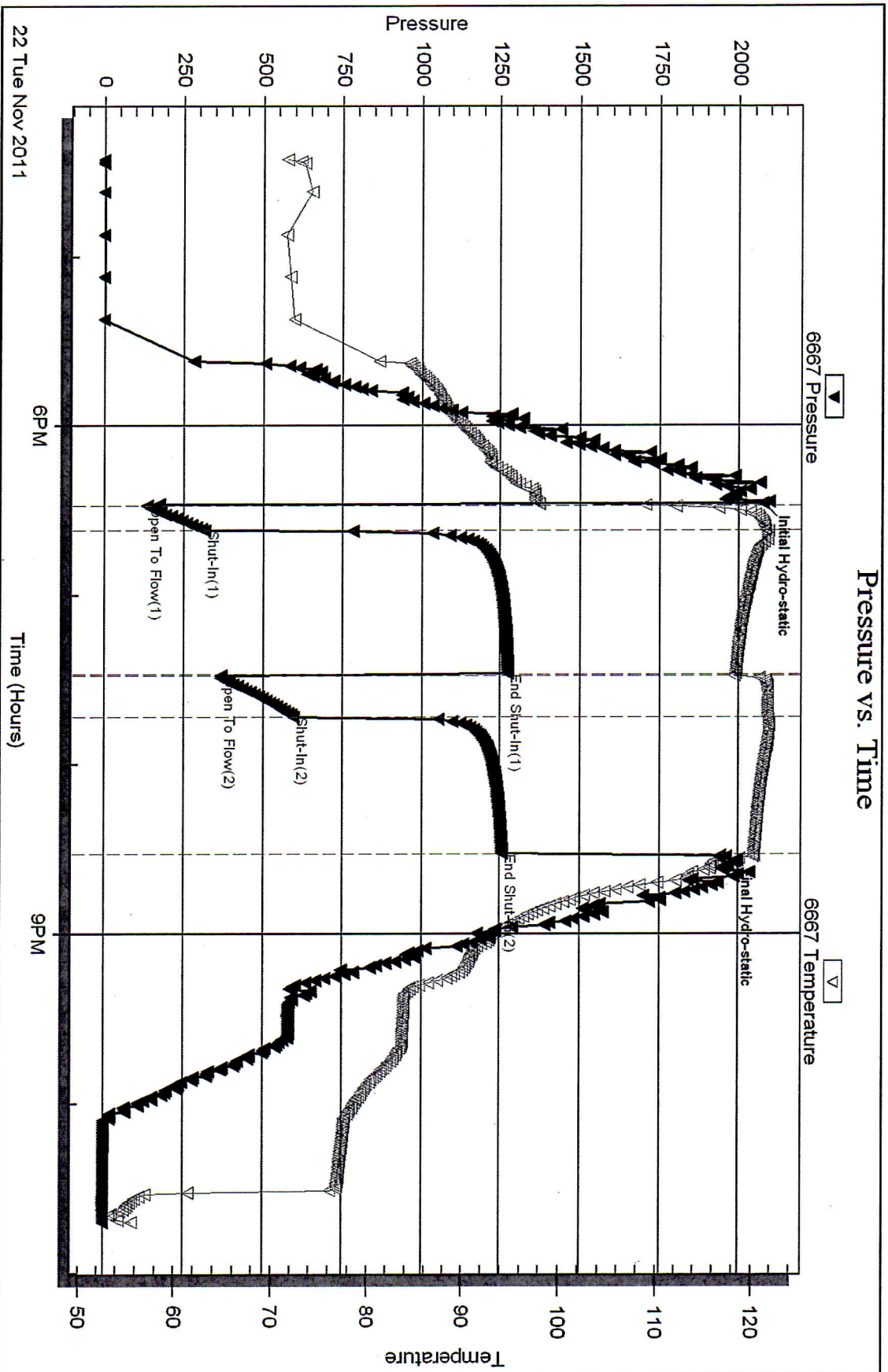
Inside

K&B Norton Oil & Invest LLC

McDaniel #1

DST Test Number: 5

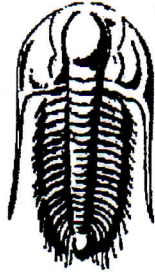
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 45424

Printed: 2011.12.07 @ 08:47:52



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

1209 W Park Grove Dr
Manhattan, KS 66503-2469

ATTN: Chris Bean

McDaniel #1

2-15s-34w Logan,KS

Start Date: 2011.11.23 @ 13:20:51

End Date: 2011.11.23 @ 18:40:51

Job Ticket #: 45425 DST #: 6

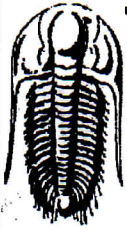
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.07 @ 08:50:01

K&B Norton Oil & Invest LLC
2-15s-34w Logan,KS
McDaniel #1
DST # 6
L
2011.11.23



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

K&B Norton Oil & Invest LLC

2-15s-34w Logan,KS

1209 W Park Grove Dr
Manhattan, KS 66503-2469

McDaniel #1

Job Ticket: 45425

DST#: 6

ATTN: Chris Bean

Test Start: 2011.11.23 @ 13:20:51

GENERAL INFORMATION:

Formation: **L**
 Deviated: **No** Whipstock: **0.00 ft (KB)**
 Time Tool Opened: 15:23:36
 Time Test Ended: 18:40:51

Test Type: **Conventional Straddle (Reset)**
 Tester: **Shane McBride**
 Unit No: **55**

Interval: **4150.00 ft (KB) To 4170.00 ft (KB) (TVD)**
 Total Depth: **4233.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2938.00 ft (KB)**
2933.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 6667

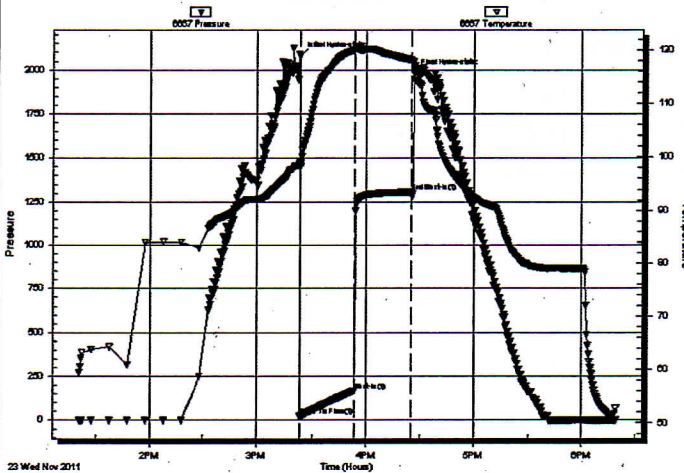
Inside

Press@RunDepth: **168.99 psig @ 4151.00 ft (KB)**
 Start Date: **2011.11.23** End Date: **2011.11.23**
 Start Time: **13:20:51** End Time: **18:18:51**

Capacity: **8000.00 psig**
 Last Calib.: **2011.11.23**
 Time On Btm: **2011.11.23 @ 15:23:21**
 Time Off Btm: **2011.11.23 @ 16:25:51**

TEST COMMENT: **B.O.B. in 13 min.**
No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2080.87	99.12	Initial Hydro-static
1	24.23	98.28	Open To Flow (1)
30	168.99	119.98	Shut-In(1)
61	1306.85	118.14	End Shut-In(1)
63	1982.77	117.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	mc w 20% m 80% w	1.05
60.00	s mc w 10% m 90% w	0.84
180.00	water 100% w	2.52

* 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 & Invest LLC

2-15s-34w Logan, KS

1209 W Park Grove Dr
Manhattan, KS 66503-2469

McDaniel #1

Job Ticket: 45425

DST#: 6

ATTN: Chris Bean

Test Start: 2011.11.23 @ 13:20:51

Tool Information

Drill Pipe:	Length: 4128.00 ft	Diameter: 3.80 inches	Volume: 57.90 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4150.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	4170.00 ft			
Interval between Packers:	20.00 ft			
Tool Length:	110.00 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			4124.00	
Shut In Tool	5.00			4129.00	
Hydraulic tool	5.00			4134.00	
Jars	5.00			4139.00	
Safety Joint	2.00			4141.00	
Packer	5.00			4146.00	27.00 Bottom Of Top Packer
Packer	4.00			4150.00	
Stubb	1.00			4151.00	
Recorder	0.00	6771	Outside	4151.00	
Recorder	0.00	6667	Inside	4151.00	
Perforations	15.00			4166.00	
Blank Off Sub	1.00			4167.00	
Top of straddle Packer	3.00			4170.00	20.00 Tool Interval
Packer	0.00			4170.00	
Stubb	1.00			4171.00	
Recorder	0.00	8368	Below	4171.00	
Change Over Sub	1.00			4172.00	
Drill Pipe	61.00			4233.00	63.00 Bottom Packers & Anchor
Total Tool Length:	110.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

K&B Norton Oil & Invest LLC

2-15s-34w Logan,KS

1209 W Park Grove Dr
Manhattan, KS 66503-2469

McDaniel #1

Job Ticket: 45425

DST#: 6

ATTN: Chris Bean

Test Start: 2011.11.23 @ 13:20:51

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

28500 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	m c w 20% m 80% w	1.052
60.00	s m c w 10% m 90% w	0.842
180.00	water 100% w	2.525

Total Length: 315.00 ft Total Volume: 4.419 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: nw .287 @ 60*f = 28,500 chlor

Serial #: 6667

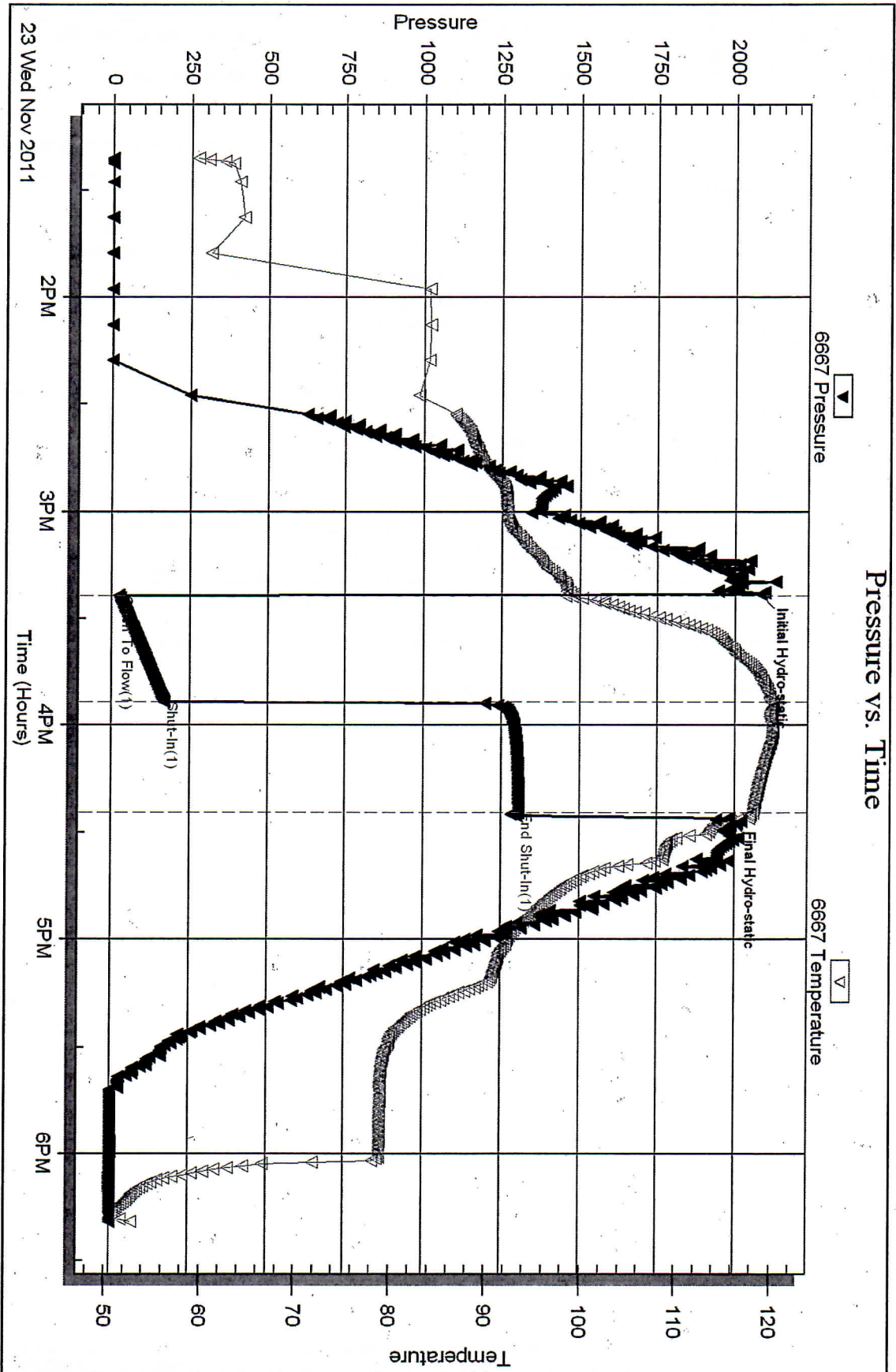
Inside

K&B Norton Oil & Invest LLC

McDaniel #1

DST Test Number: 6

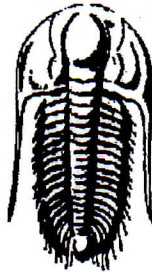
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 45425

Printed: 2011.12.07 @ 08:50:03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

1209 W Park Grove Dr
Manhattan, KS 66503-2469

ATTN: Chris Bean

McDaniel #1

2-15s-34w Logan,KS

Start Date: 2011.11.24 @ 19:50:15

End Date: 2011.11.25 @ 01:40:15

Job Ticket #: 44399 DST #: 7

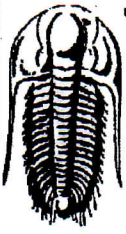
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.12.07 @ 08:50:25

K&B Norton Oil & Invest LLC 2-15s-34w Logan,KS McDaniel #1 DST # 7 Cherokee 2011.11.24



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

K&B Norton Oil & Invest LLC
 1209 W Park Grove Dr
 Manhattan, KS 66503-2469
 ATTN: Chris Bean

2-15s-34w Logan,KS
McDaniel #1
 Job Ticket: 44399 **DST#: 7**
 Test Start: 2011.11.24 @ 19:50:15

GENERAL INFORMATION:

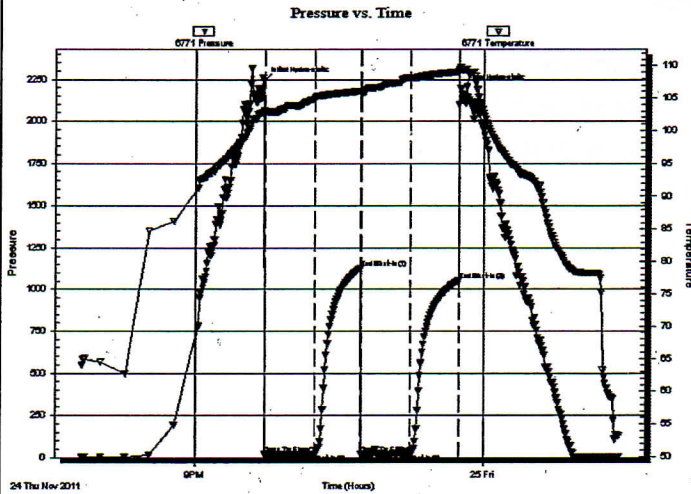
Formation: **Cherokee**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 21:43:45
 Time Test Ended: 01:40:15
 Interval: **4398.00 ft (KB) To 4416.00 ft (KB) (TVD)**
 Total Depth: 4416.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2938.00 ft (KB)
 2933.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6771

Outside

Press@RunDepth: 22.39 psig @ 4399.00 ft (KB)
 Start Date: 2011.11.24 End Date: 2011.11.25
 Start Time: 19:50:15 End Time: 01:24:15
 Capacity: 8000.00 psig
 Last Calib.: 2011.11.25
 Time On Btm: 2011.11.24 @ 21:43:30
 Time Off Btm: 2011.11.24 @ 23:45:30

TEST COMMENT: 1/4" blow died in 12 min.
 No return
 Bubble to open tool, no blow
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2243.94	103.10	Initial Hydro-static
1	19.36	102.45	Open To Flow (1)
32	19.93	105.01	Shut-In(1)
60	1127.72	106.08	End Shut-In(1)
61	22.05	105.76	Open To Flow (2)
91	22.39	108.10	Shut-In(2)
121	1055.19	109.07	End Shut-In(2)
122	2193.01	109.77	Final Hydro-static

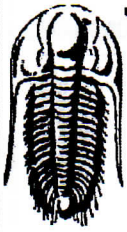
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% _m	0.07

* 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 & Invest LLC

2-15s-34w Logan,KS

1209 W Park Grove Dr
Manhattan, KS 66503-2469

McDaniel #1

Job Ticket: 44399

DST#: 7

ATTN: Chris Bean

Test Start: 2011.11.24 @ 19:50:15

Tool Information

Drill Pipe:	Length: 4378.00 ft	Diameter: 3.80 inches	Volume: 61.41 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4398.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	45.00 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			4372.00	
Shut In Tool	5.00			4377.00	
Hydraulic tool	5.00			4382.00	
Jars	5.00			4387.00	
Safety Joint	2.00			4389.00	
Packer	5.00			4394.00	27.00 Bottom Of Top Packer
Packer	4.00			4398.00	
Stubb	1.00			4399.00	
Recorder	0.00	6771	Outside	4399.00	
Recorder	0.00	6667	Inside	4399.00	
Perforations	12.00			4411.00	
Bullnose	5.00			4416.00	18.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

K&B Norton Oil & Invest LLC
1209 W Park Grove Dr
Manhattan, KS 66503-2469
ATTN: Chris Bean

2-15s-34w Logan, KS
McDaniel #1
Job Ticket: 44399 **DST#: 7**
Test Start: 2011.11.24 @ 19:50:15

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 8.78 in³
Resistivity: 0.00 ohm.m
Salinity: 8200.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 0 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

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

Laboratory Name: Laboratory Location:

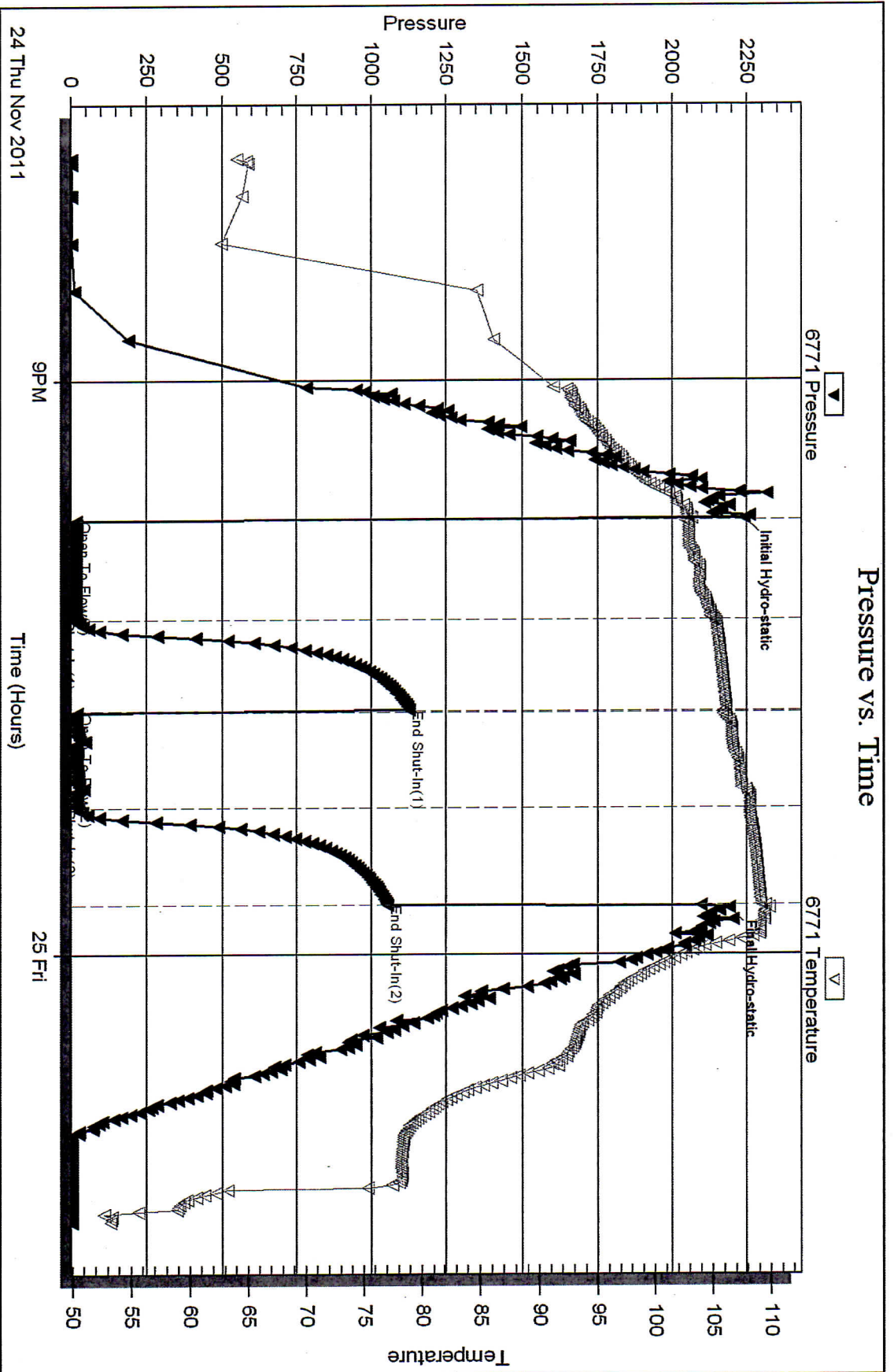
Recovery Comments:

Serial #: 6771

Outside K&B Norton Oil & Invest LLC

McDaniel #1

DST Test Number: 7



ALLIED CEMENTING CO., LLC. 036110

Federal Tax I.D.# 20-6975804

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

SERVICE POINT:
Dakla, KS
11-15-11

DATE <u>11-14-11</u>	SEC. <u>2</u>	TWP. <u>15</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>7:30pm</u>	JOB START <u>12:20am</u>	JOB FINISH <u>12:30am</u>
LEASE <u>McDaniel</u>	WELL # <u>1</u>	LOCATION <u>Dakla, 235.4W, 25.4N,</u>			COUNTY <u>Logan</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>15, 2W, 28W E 1/4</u>			<u>KS1-01 M+E</u>		

CONTRACTOR L.D. Drilling OWNER Same

TYPE OF JOB Surface

HOLE SIZE 12.75" T.D.

CASING SIZE 8.75" DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15 ft

PERFS.

DISPLACEMENT 18.8

EQUIPMENT

PUMP TRUCK CEMENTER Lakene ①

431 HELPER Darren ②

BULK TRUCK

347 DRIVER Jerry ②

BULK TRUCK

DRIVER

CEMENT AMOUNT ORDERED 190 sks com 3% gel

COMMON	<u>190 sks @ 16.25</u>	<u>3087.50</u>
POZMIX	@	
GEL	<u>45 lb @ 21.25</u>	<u>95.63</u>
CHLORIDE	<u>75 lb @ 58.20</u>	<u>4365.00</u>
ASC	@	
HANDLING	<u>201 sks @ 2.25</u>	<u>452.25</u>
MILBAGG	<u>118 sks/mile</u>	<u>884.90</u>
TOTAL		<u>4966.55</u>

REMARKS:

Mix 190 sks down casing.

Displace with water

Cement did circulate

Thank You

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 1250.00

EXTRA FOOTAGE @

MILBAGG 4.0 x 2 @ 7.00 560.00

MANIFOLD head @ 200.00

light vehicle @ 4.00 320.00

TOTAL 2930.00

CHARGE TO: K&B Norton Oil & Investments Inc

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

8 3/8 wooden plug @ 92.00

TOTAL 92.00

To Allied Cementing Co., 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) 261.33

TOTAL CHARGES 7213.55

DISCOUNT 20% IF PAID IN 30 DAYS

PRINTED NAME Richard Wilson

SIGNATURE Rhd W. l

D 1442, TV

36512

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

SERVICE POINT:
Liberal KS.

DATE 11-26-11	SEC. 2	TWP 15s	RANGE 34w	CALLED OUT	ON LOCATION	JOB START 10:00 AM	JOB FINISH 11:02 AM
LEASE McDaniel		WELL # 1	LOCATION Vec Okley KS.		COUNTY Logan	STATE KS	
OLD OR NEW (Circle one)							

KS1-03taxall
7.3%

CONTRACTOR L.D. Drining

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D.

CASING SIZE 8 5/8 DEPTH 305

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER

CEMENT

AMOUNT ORDERED 20.5 SK 60/40/40

gel 1/4# Flocal

EQUIPMENT

PUMP TRUCK CEMENTER Kenney

470-484 HELPER Joe

BULK TRUCK

477-467 DRIVER Lenny

BULK TRUCK

DRIVER

Light Weight	205	@ 14.50	2972.50
Flocal	51.25	@ 2.70	138.38
HANDLING	207	@ 2.25	465.75
MILEAGE			910.80
TOTAL			4487.43

REMARKS:

SERVICE

DEPTH OF JOB	2332 ft	
PUMP TRUCK CHARGE	1250.00	
EXTRA FOOTAGE	@	
MILEAGE	80 @ 7.00	560.00
MANIFOLD	80 @ 4.00	320.00
TOTAL		2130.00

THANK you!!

CHARGE TO: Ka. Norton Dile Int

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

Wooden Plug	@ 92.00	92.00
	@	
	@	
	@	
	@	
TOTAL		92.00

To Allied Cementing Co., 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) 489.79

TOTAL CHARGES \$6709.43

DISCOUNT 20% IF PAID IN 30 DAYS

PRINTED NAME

SIGNATURE Paul White

D1341.89