



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1162998
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
-----------------------------------	-----------------	---

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: _____



1162998

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No 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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Hartman Oil Co., Inc.
Well Name	WILLIAMS TRUST 1-19
Doc ID	1162998

All Electric Logs Run

Spectral Density Dual spaced Neutron
Borehole compensated Sonic Array
Microlog
Array Compensated True Resistivity
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Hartman Oil Co., Inc.
Well Name	WILLIAMS TRUST 1-19
Doc ID	1162998

Tops

Name	Top	Datum
Topeka	3216	-937
King Hill	3307	-1028
Queen Hill	3365	-1086
Oread	3374	-1095
Heebner	3412	-1133
Toronto	3440	-1161
Lansing -KC	3455	-1176
Base KC	3643	-1364
Arbuckle	3768	-1489
TD	3896	-1617

Form	ACO1 - Well Completion
Operator	Hartman Oil Co., Inc.
Well Name	WILLIAMS TRUST 1-19
Doc ID	1162998

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	332	Class A Common	200	3% cc, 2% gel
Production	7.875	5.5	15.5	3870	Lite	100	1/4 Flo-seal
Production	7.875	5.5	15.5	3870	Common	150	10% salt, 2% gel
production	7.875	5.5	15.5	3870	lite	350	1/4 # Flo-seal

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
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 16, 2013

Justin Trout
Hartman Oil Co., Inc.
10500 E BERKELEY SQ PKWY STE 100
WICHITA, KS 67206

Re: ACO1
API 15-137-20632-00-00
WILLIAMS TRUST 1-19
SE/4 Sec.19-05S-22W
Norton 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,
Justin Trout

PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 137286
Invoice Date: Jul 11, 2013
Page: 1

Bill To:
Hartman Oil Co., Inc.
H2 Drilling & H2 Trucking
3545 W. Jones Avenue
Garden City, KS 67846

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Hart	60344	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Oakley	Jul 11, 2013	8/10/13

Quantity	Item	Description	Unit Price	Amount
		Williams Trust #1-19 <i>81537</i>		
200.00	MAT	Class A Common	17.90	3,580.00
100.00	MAT	Class A Common	17.90	1,790.00
4.00	MAT	Gel	23.40	93.60
7.00	MAT	Chloride	64.00	448.00
3.00	MAT	Chloride	64.00	192.00
105.00	SER	Cubic Feet	2.48	260.40
937.65	SER	Ton Mileage	2.60	2,437.89
216.27	SER	Cubic Feet	2.48	536.35
459.80	SER	Ton Mileage	2.60	1,195.48
1.00	SER	Surface	1,512.25	1,512.25
95.00	SER	Pump Truck Mileage	7.70	731.50
1.00	SER	Manifold Head Rental	275.00	275.00
95.00	SER	Light Vehicle Mileage	4.40	418.00
1.00	EQP	8.5/8 Wooden Plug	107.64	107.64
1.00	CEMENTER	LaRene Wentz		
1.00	EQUIP OPER	Paul Beaver		
1.00	OPER ASSIST	David Scariano		
1.00	CEMENTER	Darren Racette		

Subtotal	13,578.11
Sales Tax	428.58
Total Invoice Amount	14,006.69
Payment/Credit Applied	
TOTAL	14,006.69

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

\$ 3,530.30

ONLY IF PAID ON OR BEFORE
Aug 5, 2013

A. V. Mitchell
7-22-13

**NEW WELL
DRILLED**

ALLIED OIL & GAS SERVICES, LLC 060344

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Oakley, TX
7:30am to 10:00am

DATE <u>2-11-13</u>	SEC. <u>19</u>	TWP. <u>5</u>	RANGE <u>22</u>	CALLED OUT	ON LOCATION <u>1:30am</u>	JOB START <u>7:30am</u>	JOB FINISH <u>10:00am</u>
LEASE <u>Williams Trust</u>	WELL # <u>1-19</u>	LOCATION <u>Hill City 16d to CC,</u>				COUNTY <u>Worth</u>	STATE <u>TX</u>
OLD OR <u>NEW</u> (Circle one)			<u>1 E & 8 into</u>				

CONTRACTOR H2 Rig 1

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 332'

CASING SIZE 8 1/8 DEPTH 330.83

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 20.12661

OWNER Some

CEMENT AMOUNT ORDERED 200sk Cement 3% CC

2% gel

COMMON	<u>200sk</u>	@ <u>17.90</u>	<u>3580.00</u>
POZMIX	<u>100sk</u>	@ <u>17.90</u>	<u>1790.00</u>
GEL	<u>45lb</u>	@ <u>23.40</u>	<u>93.60</u>
CHLORIDE	<u>7sk</u>	@ <u>64.00</u>	<u>448.00</u>
ASE	<u>3sk</u>	@ <u>64.00</u>	<u>192.00</u>

EQUIPMENT

PUMP TRUCK CEMENTER Harone E. Wentz

423/281 HELPER Paul Beaver

BULK TRUCK DRIVER David Scarrano

347

BULK TRUCK DRIVER Darren Racette

540/287

HANDLING	<u>105.873</u>	@ <u>2.48</u>	<u>260.40</u>
MILEAGE	<u>216.27 ft</u>	@ <u>2.48</u>	<u>536.35</u>
	<u>2.82 ton x 95 x 2.60</u>		<u>2432.89</u>
	<u>4.84 ton x 95 x 2.60</u>		<u>2432.89</u>
TOTAL			<u>10533.22</u>

REMARKS:

Mix 200 sks cement

Displace with water

Cement did not circulate

Mix 100 sks cement w/ 1" pipe

to surface.

Cement in collar (4661)

Thank you

SERVICE

DEPTH OF JOB	<u>330.83 ft</u>	
PUMP TRUCK CHARGE		<u>1512.25</u>
EXTRA FOOTAGE	@	
MILEAGE <u>MIHU</u>	<u>95</u>	@ <u>2.70</u> <u>731.50</u>
MANIFOLD <u>head</u>	@	<u>275.00</u>
<u>MILO</u>	<u>95</u>	@ <u>4.40</u> <u>418.00</u>

CHARGE TO: Hartman Oil

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 2936.75

PLUG & FLOAT EQUIPMENT

<u>Wooden plug</u>	@	<u>107.64</u>
	@	
	@	
	@	
	@	
TOTAL		<u>107.64</u>

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 13,578.11

DISCOUNT 3,530.30 IF PAID IN 30 DAYS

10,047.80 Net.

PRINTED NAME _____

SIGNATURE Carlos Lopez



DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co., Inc.**

10500 Berkeley Sq. Pkwy. STE #100
Wichita, KS 67206

ATTN: Derrick Patterson

Williams Trust #1-19

19-5s-22w Norton, KS

Start Date: 2013.07.14 @ 10:30:00

End Date: 2013.07.14 @ 18:42:30

Job Ticket #: 52135 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.07.18 @ 11:18:35



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hartman Oil Co., Inc.

19-5s-22w Norton, KS

10500 Berkeley Sq. Pkw y. STE #100
Wichita, KS 67206

Williams Trust #1-19

Job Ticket: 52135

DST#: 1

ATTN: Derrick Patterson

Test Start: 2013.07.14 @ 10:30:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:38:00

Time Test Ended: 18:42:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 3404.00 ft (KB) To 3454.00 ft (KB) (TVD)

Reference Elevations: 2280.00 ft (KB)

Total Depth: 3454.00 ft (KB) (TVD)

2269.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 259.72 psig @ 3405.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.14

End Date:

2013.07.14

Last Calib.:

2013.07.14

Start Time: 10:40:00

End Time:

18:42:30

Time On Btm:

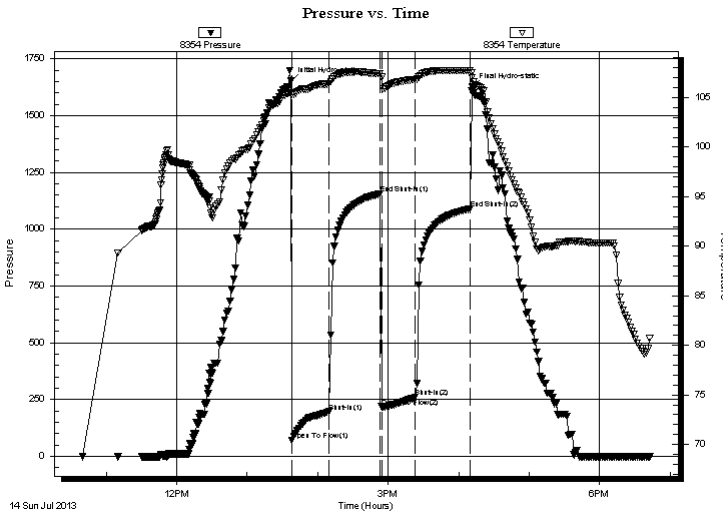
2013.07.14 @ 13:37:00

Time Off Btm:

2013.07.14 @ 16:11:30

TEST COMMENT: 30 - IF- BoB in 7 min.
45 - IS- BoB in 22 min.
30 - FF- BoB in 10 min.
45 - FS- BoB in 25 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1651.27	105.54	Initial Hydro-static
1	71.46	105.30	Open To Flow (1)
33	196.42	106.40	Shut-In(1)
76	1155.39	107.44	End Shut-In(1)
78	218.74	107.08	Open To Flow (2)
106	259.72	106.84	Shut-In(2)
153	1088.56	107.71	End Shut-In(2)
155	1624.64	107.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
92.00	OCM 90M 10o	0.45
184.00	OCM 80M 20o	0.90
184.00	GMCO 5G 10M 850	1.72
188.00	Clean Gassy Oil 10G 90o	2.64
0.00	188 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Co., Inc.

19-5s-22w Norton, KS

10500 Berkeley Sq. Pkw y. STE #100
Wichita, KS 67206

Williams Trust #1-19

Job Ticket: 52135

DST#: 1

ATTN: Derrick Patterson

Test Start: 2013.07.14 @ 10:30:00

Tool Information

Drill Pipe:	Length: 3012.00 ft	Diameter: 3.80 inches	Volume: 42.25 bbl	Tool Weight: 2500.00 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: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 44.07 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3404.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Chased tool approx 10' to bottom. Bled off initial surge.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3377.00	
Shut In Tool	5.00			3382.00	
Hydraulic tool	5.00			3387.00	
Jars	5.00			3392.00	
Safety Joint	3.00			3395.00	
Packer	5.00			3400.00	28.00 Bottom Of Top Packer
Packer	4.00			3404.00	
Stubb	1.00			3405.00	
Recorder	0.00	8354	Inside	3405.00	
Recorder	0.00	8520	Outside	3405.00	
Perforations	10.00			3415.00	
Change Over Sub	1.00			3416.00	
Drill Pipe	32.00			3448.00	
Change Over Sub	1.00			3449.00	
Bullnose	5.00			3454.00	50.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co., Inc.

19-5s-22w Norton, KS

10500 Berkeley Sq. Pkw y. STE #100
Wichita, KS 67206

Williams Trust #1-19

Job Ticket: 52135

DST#: 1

ATTN: Derrick Patterson

Test Start: 2013.07.14 @ 10:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
92.00	OCM 90M 10o	0.452
184.00	OCM 80M 20o	0.905
184.00	GMCO 5G 10M 850	1.716
188.00	Clean Gassy Oil 10G 90o	2.637
0.00	188 GIP	0.000

Total Length: 648.00 ft Total Volume: 5.710 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

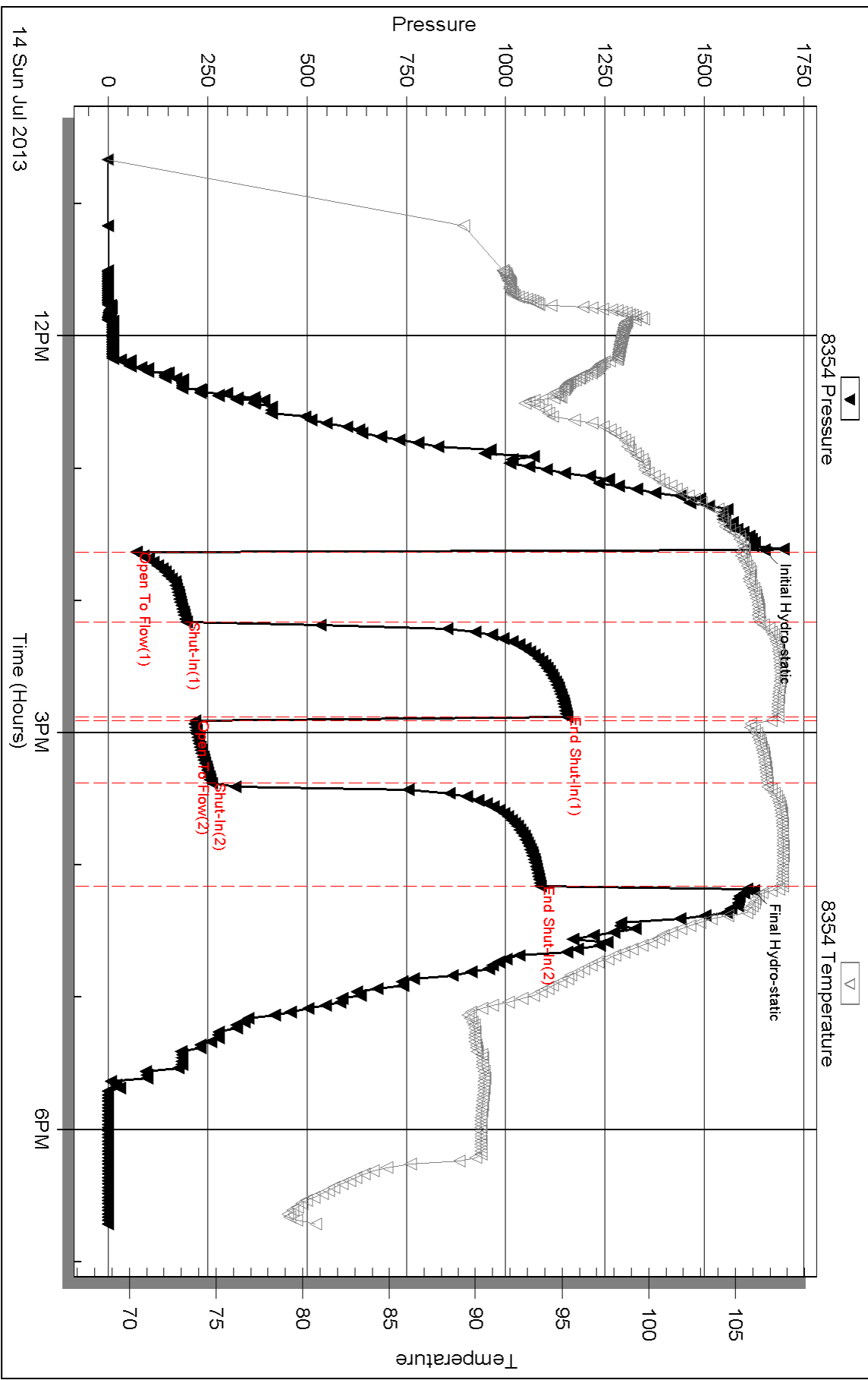
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil Api 32 @ 90 deg = 29

Pressure vs. Time

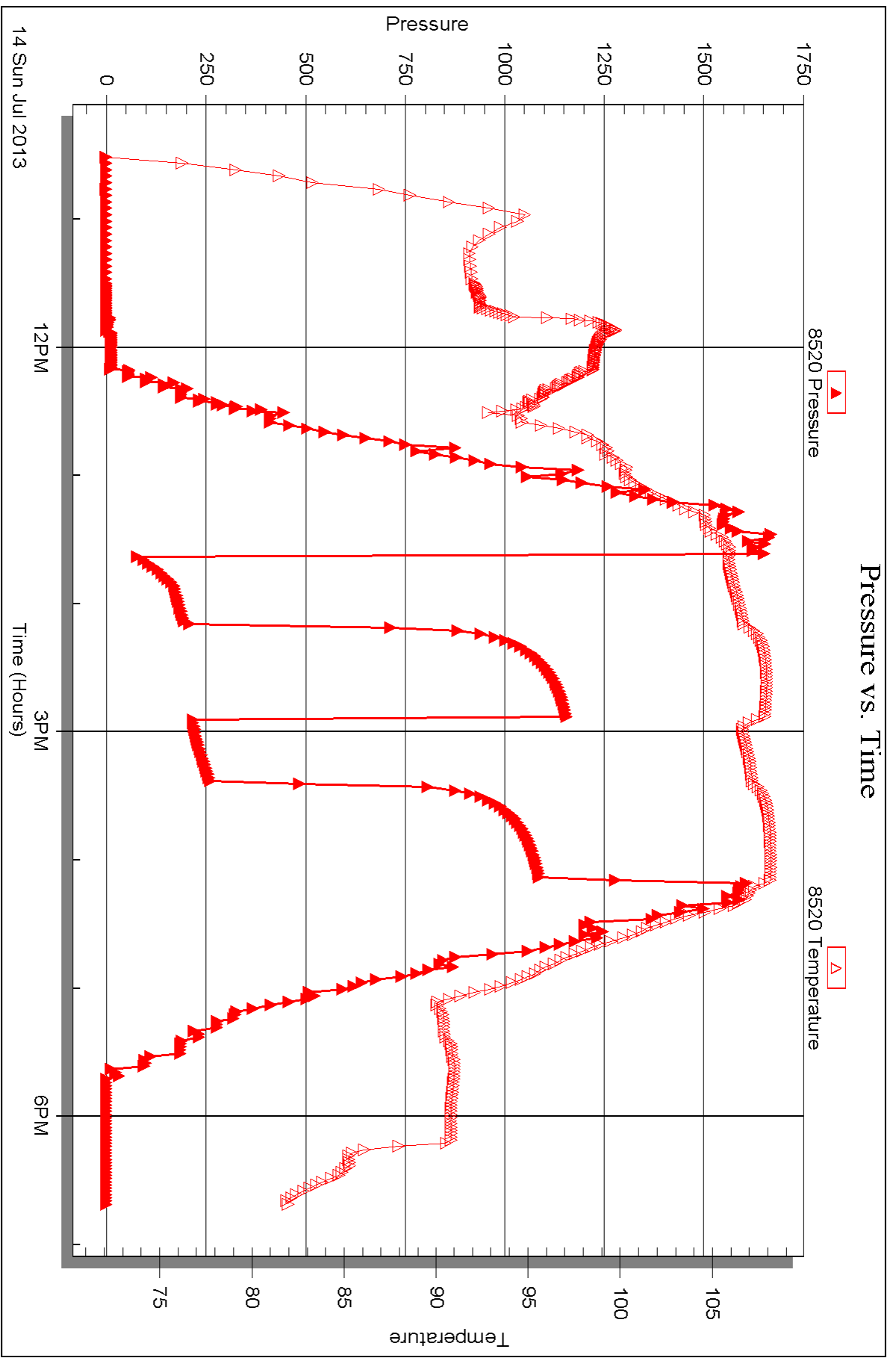


Serial #: 8520

Outside Hartman Oil Co., Inc.

Williams Trust #1-19

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co., Inc.**

10500 Berkeley Sq. Pkwy. STE #100
Wichita, KS 67206

ATTN: Derrick Patterson

Williams Trust #1-19

19-5s-22w Norton, KS

Start Date: 2013.07.15 @ 04:30:00

End Date: 2013.07.15 @ 12:04:30

Job Ticket #: 52136 DST #: 2

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

Printed: 2013.07.18 @ 11:17:55



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hartman Oil Co., Inc.

19-5s-22w Norton, KS

10500 Berkeley Sq. Pkw y. STE #100
Wichita, KS 67206

Williams Trust #1-19

ATTN: Derrick Patterson

Job Ticket: 52136

DST#: 2

Test Start: 2013.07.15 @ 04:30:00

GENERAL INFORMATION:

Formation: **LKC "C-35' Zone"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:33:30

Time Test Ended: 12:04:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 3476.00 ft (KB) To 3498.00 ft (KB) (TVD)

Reference Elevations: 2280.00 ft (KB)

Total Depth: 3498.00 ft (KB) (TVD)

2269.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 93.50 psig @ 3477.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.15

End Date:

2013.07.15

Last Calib.:

2013.07.15

Start Time: 04:40:00

End Time:

12:04:30

Time On Btm:

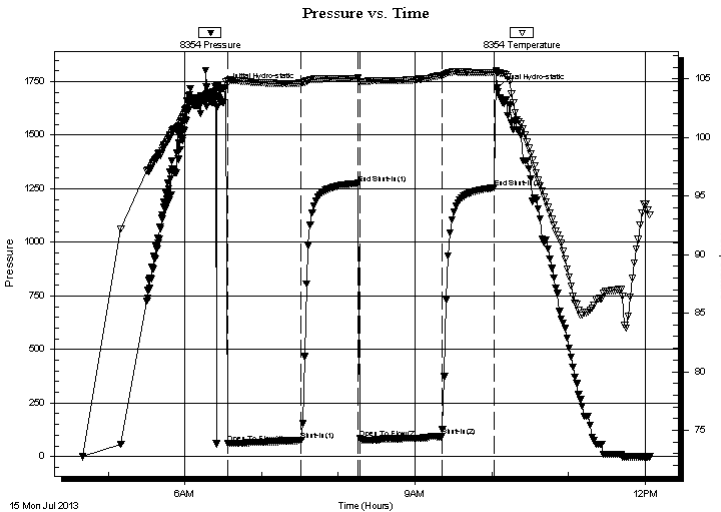
2013.07.15 @ 06:32:00

Time Off Btm:

2013.07.15 @ 10:04:00

TEST COMMENT: 60 - IF- 1/8" Blow built to 4 1/4"
45 - IS- No Return
60 - FF- Blow started at 7 min. Built to 3 1/4"
45 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1721.12	104.73	Initial Hydro-static
2	63.40	104.87	Open To Flow (1)
59	75.25	104.62	Shut-In(1)
104	1275.55	105.05	End Shut-In(1)
105	83.84	104.70	Open To Flow (2)
169	93.50	105.27	Shut-In(2)
210	1254.37	105.54	End Shut-In(2)
212	1718.85	105.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	OCM 20o 80M	0.49
10.00	Free Oil 100o	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Co., Inc.

19-5s-22w Norton, KS

10500 Berkeley Sq. Pkw y. STE #100
Wichita, KS 67206

Williams Trust #1-19

Job Ticket: 52136

DST#: 2

ATTN: Derrick Patterson

Test Start: 2013.07.15 @ 04:30:00

Tool Information

Drill Pipe:	Length: 3109.00 ft	Diameter: 3.80 inches	Volume: 43.61 bbl	Tool Weight: 2500.00 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: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 45.43 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3476.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Tool opened on slide Had to reset tools to add joint of pipe to make bottom. chased tool 10' to bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3449.00	
Shut In Tool	5.00			3454.00	
Hydraulic tool	5.00			3459.00	
Jars	5.00			3464.00	
Safety Joint	3.00			3467.00	
Packer	5.00			3472.00	28.00 Bottom Of Top Packer
Packer	4.00			3476.00	
Stubb	1.00			3477.00	
Recorder	0.00	8354	Inside	3477.00	
Recorder	0.00	8520	Outside	3477.00	
Perforations	16.00			3493.00	
Bullnose	5.00			3498.00	22.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co., Inc.

19-5s-22w Norton, KS

10500 Berkeley Sq. Pkw y. STE #100
Wichita, KS 67206

Williams Trust #1-19

Job Ticket: 52136

DST#: 2

ATTN: Derrick Patterson

Test Start: 2013.07.15 @ 04:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
100.00	OCM 20o 80M	0.492
10.00	Free Oil 100o	0.049

Total Length: 110.00 ft Total Volume: 0.541 bbl

Num Fluid Samples: 0

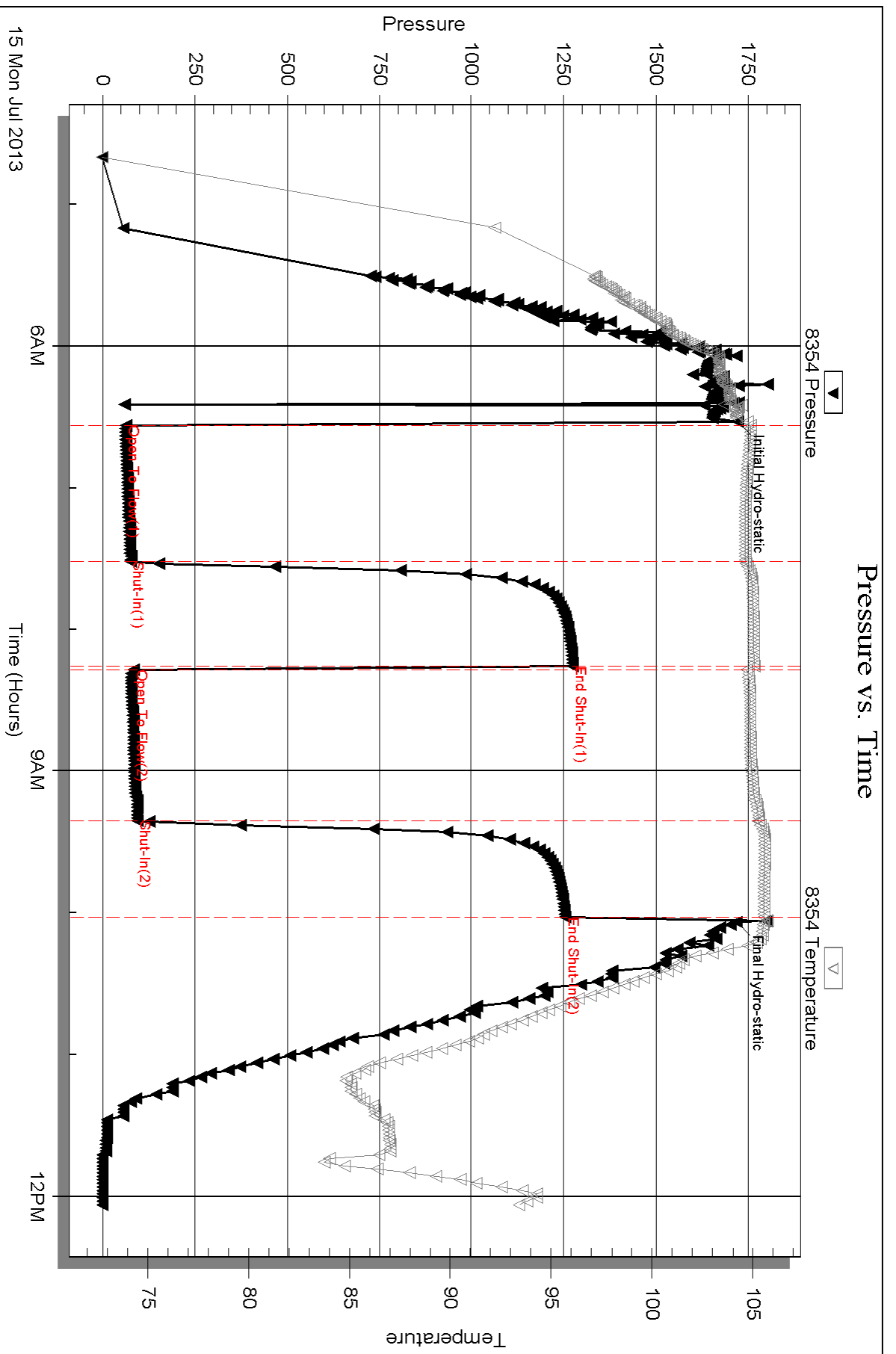
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

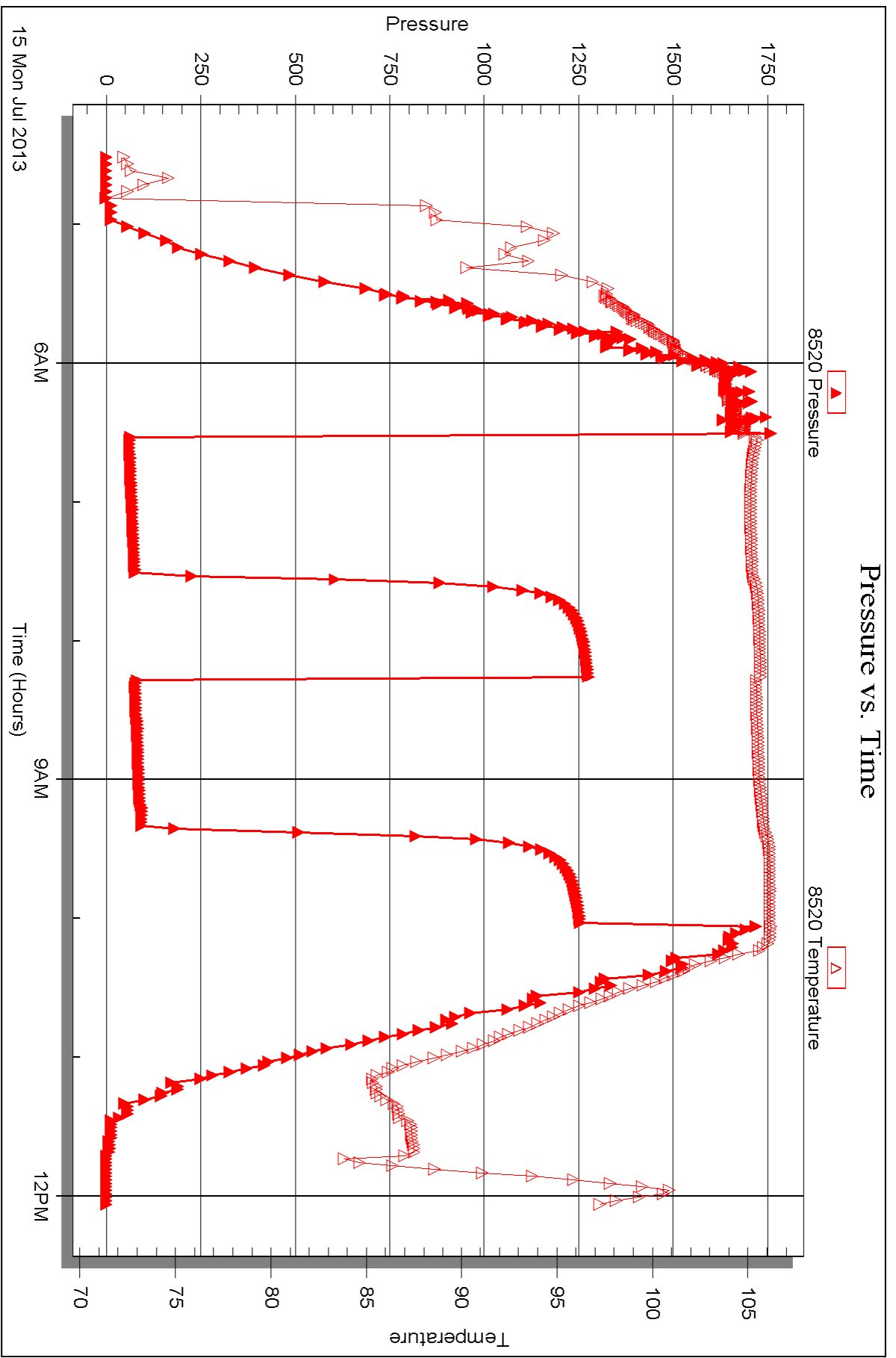


Serial #: 8520

Outside Hartman Oil Co., Inc.

Williams Trust #1-19

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 52136

Printed: 2013.07.18 @ 11:17:58



DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co., Inc.**

10500 Berkeley Sq. Pkwy. STE #100
Wichita, KS 67206

ATTN: Derrick Patterson

Williams Trust #1-19

19-5s-22w Norton, KS

Start Date: 2013.07.15 @ 20:20:00

End Date: 2013.07.16 @ 05:30:30

Job Ticket #: 52137 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.07.18 @ 11:17:23

Hartman Oil Co., Inc.

19-5s-22w Norton, KS

Williams Trust #1-19

DST # 3

LKC "F - 70' Zone"

2013.07.15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hartman Oil Co., Inc.

19-5s-22w Norton, KS

10500 Berkeley Sq. Pkw y. STE #100
Wichita, KS 67206

Williams Trust #1-19

ATTN: Derrick Patterson

Job Ticket: 52137

DST#: 3

Test Start: 2013.07.15 @ 20:20:00

GENERAL INFORMATION:

Formation: **LKC "F - 70" Zone"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:35:30

Time Test Ended: 05:30:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 3514.00 ft (KB) To 3530.00 ft (KB) (TVD)

Reference Elevations: 2280.00 ft (KB)

Total Depth: 3530.00 ft (KB) (TVD)

2269.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8520 Outside

Press @ Run Depth: 309.20 psig @ 3515.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.15

End Date:

2013.07.16

Last Calib.:

2013.07.16

Start Time: 20:21:00

End Time:

05:30:30

Time On Btm:

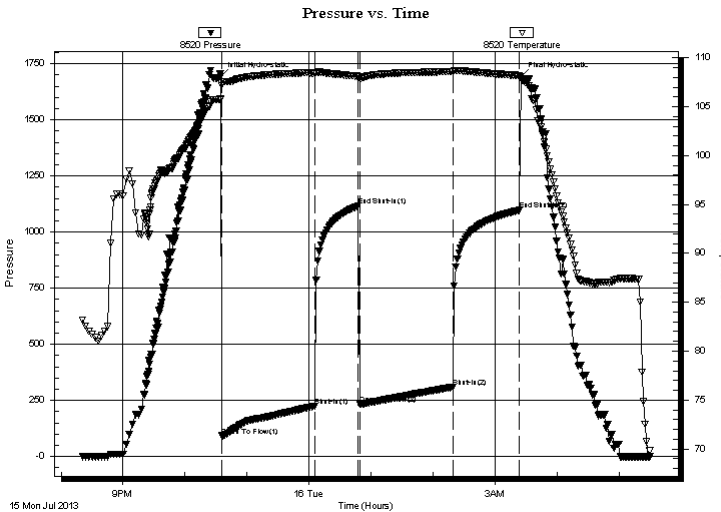
2013.07.15 @ 22:34:30

Time Off Btm:

2013.07.16 @ 03:25:00

TEST COMMENT: 90 - IF- BoB in 17 min.
45 - IS- Weak Surface Return built to 4"
90 - FF- BoB in 18 min.
60 - FS- Weak Surface Return built to 8"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.81	105.74	Initial Hydro-static
1	92.49	107.13	Open To Flow (1)
91	225.02	108.36	Shut-In(1)
133	1116.14	108.11	End Shut-In(1)
135	234.95	107.85	Open To Flow (2)
225	309.20	108.58	Shut-In(2)
289	1097.43	108.19	End Shut-In(2)
291	1691.77	108.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
184.00	OCM 40o 60M	0.90
659.00	Clean Gassy Oil 20G 80o	7.54
0.00	150' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Co., Inc.

19-5s-22w Norton, KS

10500 Berkeley Sq. Pkw y. STE #100
Wichita, KS 67206

Williams Trust #1-19

Job Ticket: 52137

DST#: 3

ATTN: Derrick Patterson

Test Start: 2013.07.15 @ 20:20:00

Tool Information

Drill Pipe:	Length: 3143.00 ft	Diameter: 3.80 inches	Volume: 44.09 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 2500.00 lb
Drill Collar:	Length: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 45.91 bbl</u>	Tool Chased 15.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3514.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: tool opened on slide and had to be chased approx 15' to bottom.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3487.00	
Shut In Tool	5.00			3492.00	
Hydraulic tool	5.00			3497.00	
Jars	5.00			3502.00	
Safety Joint	3.00			3505.00	
Packer	5.00			3510.00	28.00 Bottom Of Top Packer
Packer	4.00			3514.00	
Stubb	1.00			3515.00	
Recorder	0.00	8354	Inside	3515.00	
Recorder	0.00	8520	Outside	3515.00	
Perforations	10.00			3525.00	
Bullnose	5.00			3530.00	16.00 Bottom Packers & Anchor

Total Tool Length: 44.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co., Inc.

19-5s-22w Norton, KS

10500 Berkeley Sq. Pkw y. STE #100
Wichita, KS 67206

Williams Trust #1-19

Job Ticket: 52137

DST#: 3

ATTN: Derrick Patterson

Test Start: 2013.07.15 @ 20:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
184.00	OCM 40o 60M	0.905
659.00	Clean Gassy Oil 20G 80o	7.541
0.00	150' GIP	0.000

Total Length: 843.00 ft Total Volume: 8.446 bbl

Num Fluid Samples: 0

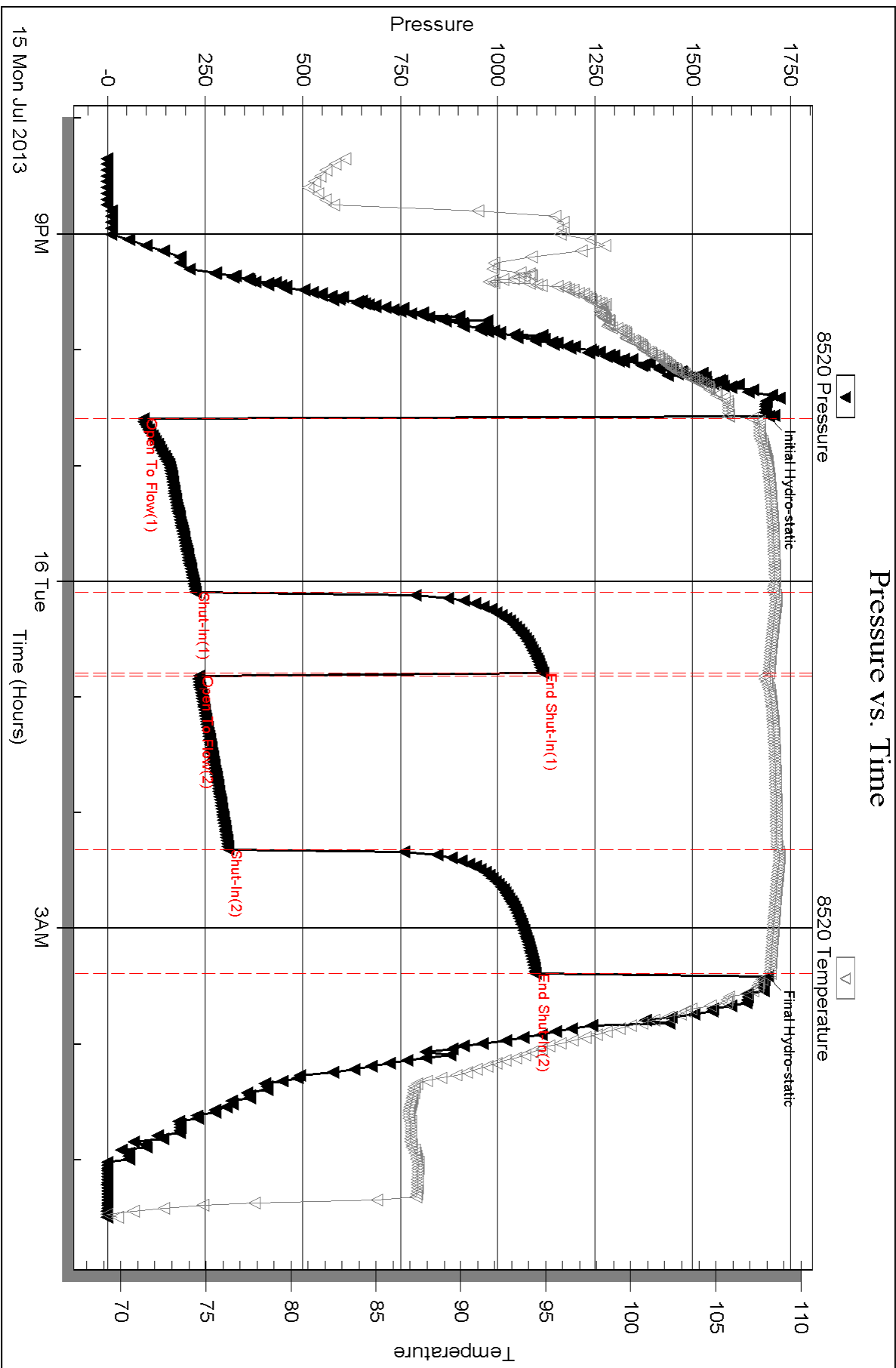
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 32 @ 80 deg = 30 cor



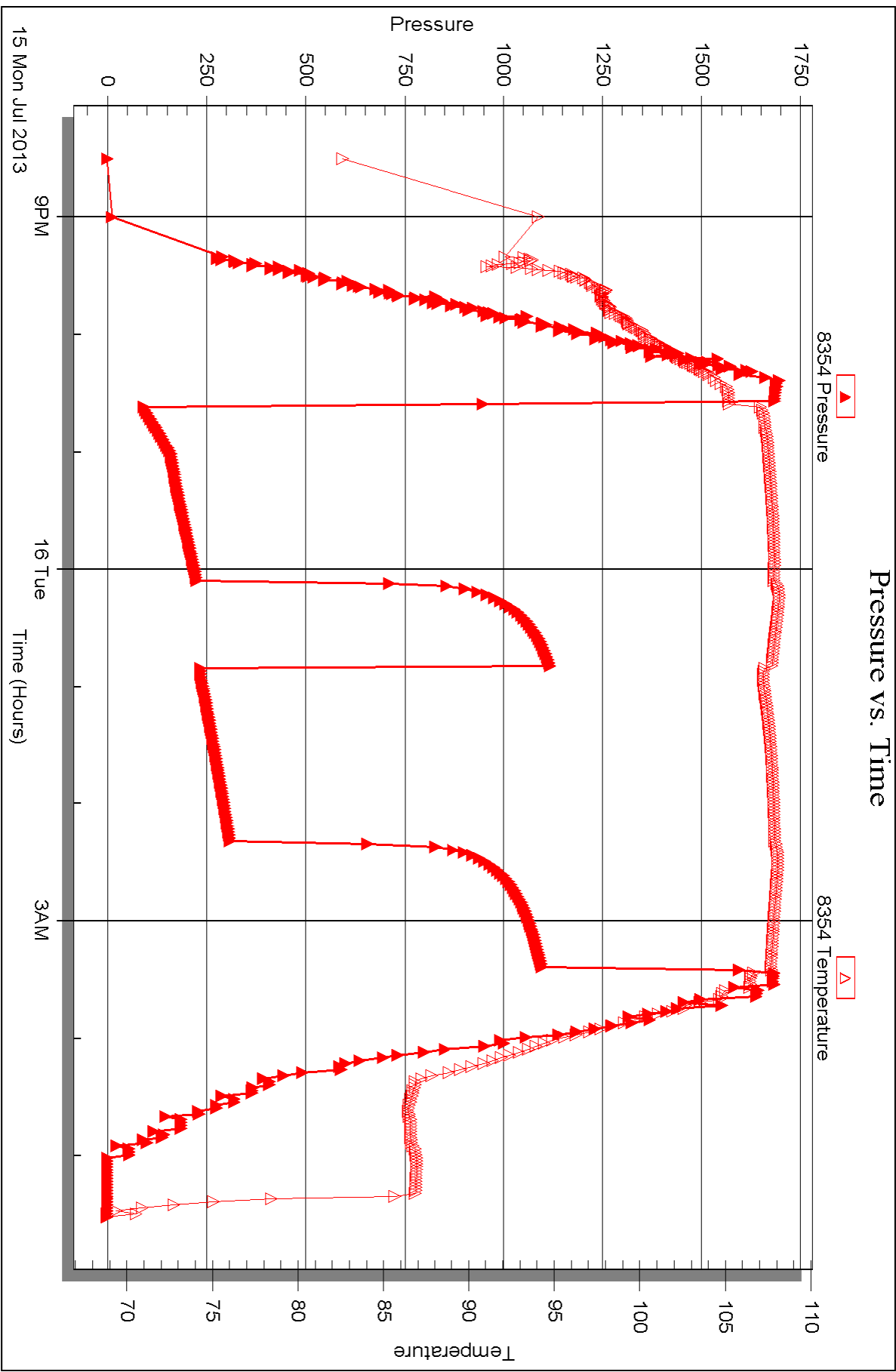
Serial #: 8354

Inside

Hartman Oil Co., Inc.

Williams Trust #1-19

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co., Inc.**

10500 Berkeley Sq. Pkwy. STE #100
Wichita, KS 67206

ATTN: Derrick Patterson

Williams Trust #1-19

19-5s-22w Norton, KS

Start Date: 2013.07.16 @ 14:28:08

End Date: 2013.07.17 @ 07:18:08

Job Ticket #: 52138 DST #: 4

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

Printed: 2013.07.18 @ 11:16:46



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Co., Inc.
 10500 Berkeley Sq. Pkw y. STE #100
 Wichita, KS 67206
 ATTN: Derrick Patterson

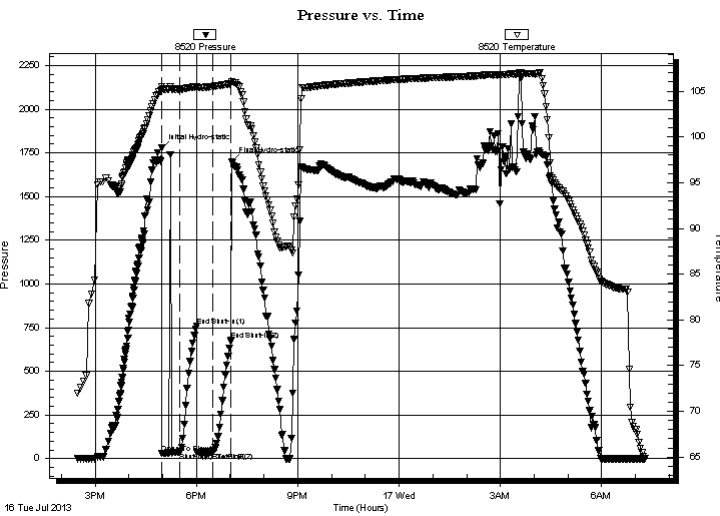
19-5s-22w Norton, KS
Williams Trust #1-19
 Job Ticket: 52138 **DST#: 4**
 Test Start: 2013.07.16 @ 14:28:08

GENERAL INFORMATION:

Formation: **LKC "H - 140' Zone"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:58:38
 Time Test Ended: 07:18:08
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 66
 Interval: **3554.00 ft (KB) To 3584.00 ft (KB) (TVD)**
 Total Depth: 3584.00 ft (KB) (TVD)
 Reference Elevations: 2280.00 ft (KB)
 2269.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 11.00 ft

Serial #: 8520 Outside
 Press @ Run Depth: 39.26 psig @ 3555.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.16 End Date: 2013.07.17 Last Calib.: 2013.07.17
 Start Time: 14:29:08 End Time: 07:18:08 Time On Btm: 2013.07.16 @ 16:58:08
 Time Off Btm: 2013.07.16 @ 19:03:08

TEST COMMENT: 30 - IF- No Blow - Flushed tool at 10 min - No Blow .
 30 - IS- No Return
 30 - FF- No Blow
 30 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1776.59	105.49	Initial Hydro-static
1	30.00	105.21	Open To Flow (1)
32	35.80	105.22	Shut-In(1)
62	759.90	105.51	End Shut-In(1)
63	36.89	105.39	Open To Flow (2)
92	39.26	105.51	Shut-In(2)
124	677.19	105.82	End Shut-In(2)
125	1698.58	106.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OSM 100M (oil spots)	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Co., Inc.

19-5s-22w Norton, KS

10500 Berkeley Sq. Pkw y. STE #100
Wichita, KS 67206

Williams Trust #1-19

Job Ticket: 52138

DST#: 4

ATTN: Derrick Patterson

Test Start: 2013.07.16 @ 14:28:08

Tool Information

Drill Pipe:	Length: 3170.00 ft	Diameter: 3.80 inches	Volume: 44.47 bbl	Tool Weight: 2500.00 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: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 46.29 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3554.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: tool slid approx 5' before opening. Then chased tool another 5' to bottom. Bled off initial surge from tool opening. Tool was parted at hydraulic, went to get fishing tools to retrieve rest of tool.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3527.00	
Shut In Tool	5.00			3532.00	
Hydraulic tool	5.00			3537.00	
Jars	5.00			3542.00	
Safety Joint	3.00			3545.00	
Packer	5.00			3550.00	28.00 Bottom Of Top Packer
Packer	4.00			3554.00	
Stubb	1.00			3555.00	
Recorder	0.00	8354	Inside	3555.00	
Recorder	0.00	8520	Outside	3555.00	
Perforations	24.00			3579.00	
Bullnose	5.00			3584.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co., Inc.

19-5s-22w Norton, KS

10500 Berkeley Sq. Pkw y. STE #100
Wichita, KS 67206

Williams Trust #1-19

Job Ticket: 52138

DST#: 4

ATTN: Derrick Patterson

Test Start: 2013.07.16 @ 14:28:08

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OSM 100M (oil spots)	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

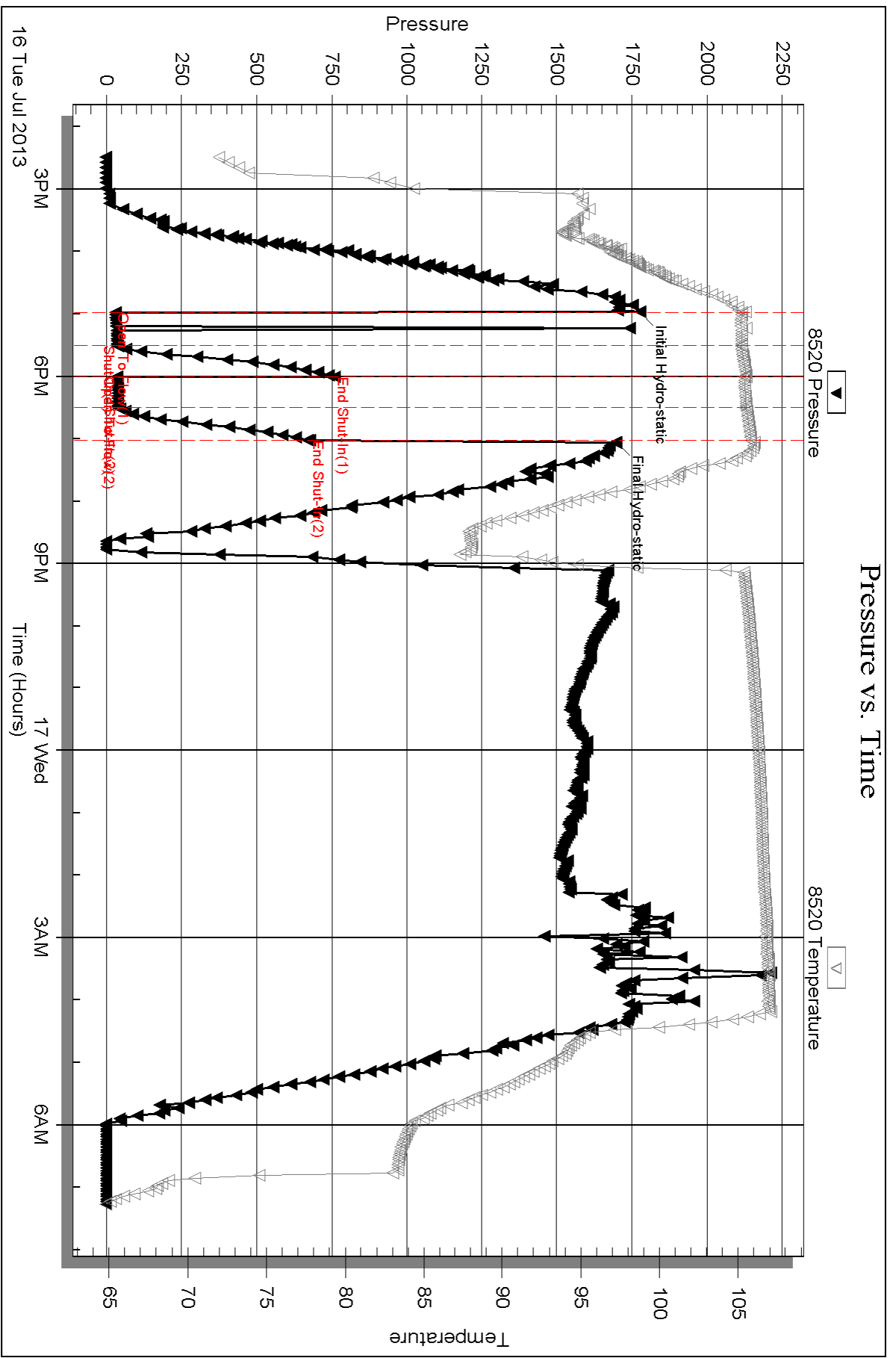
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



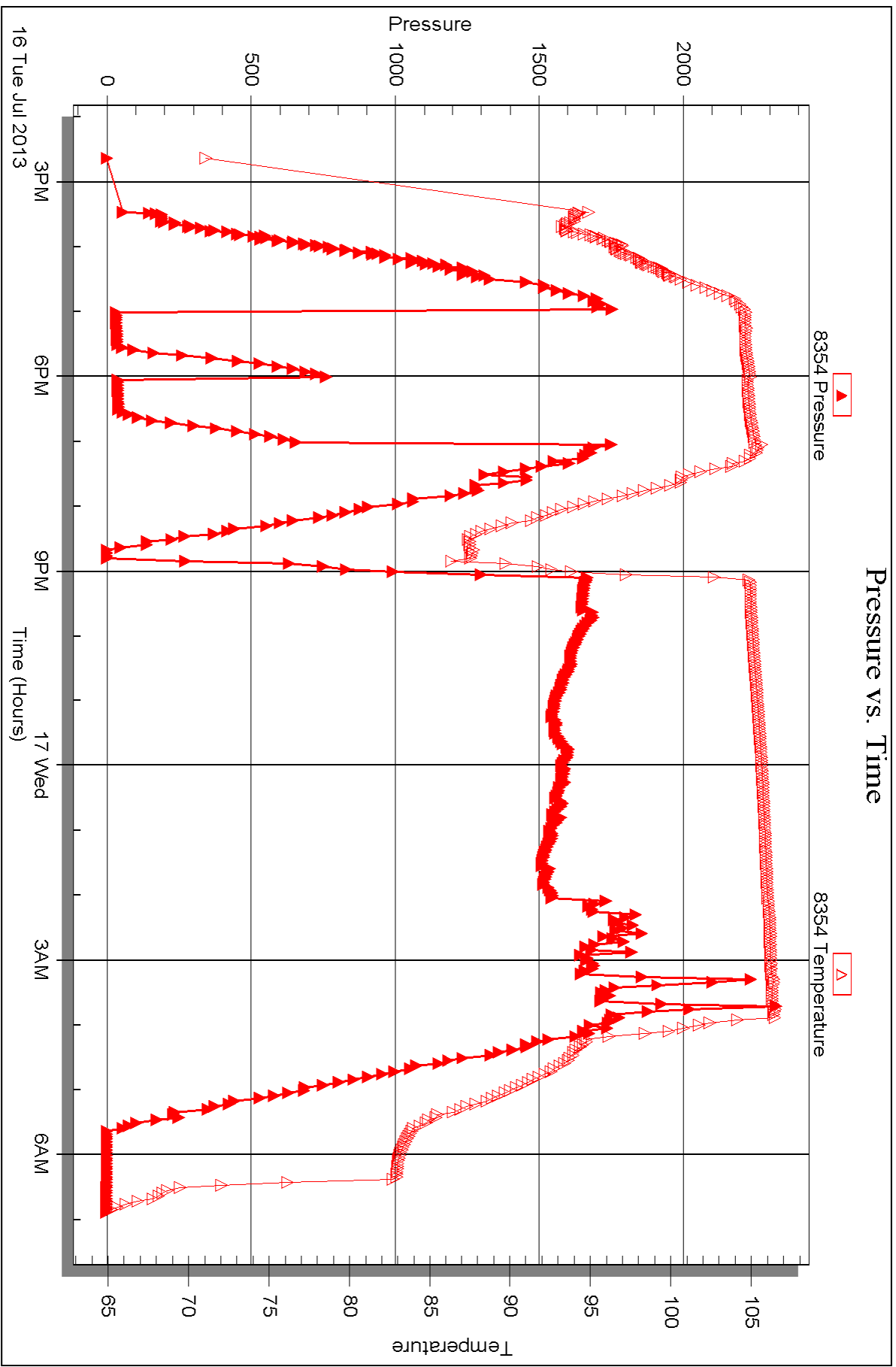
Serial #: 8354

Inside

Hartman Oil Co., Inc.

Williams Trust #1-19

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co., Inc.**

10500 Berkeley Sq. Pkwy. STE #100
Wichita, KS 67206

ATTN: Derrick Patterson

Williams Trust #1-19

19-5s-22w Norton, KS

Start Date: 2013.07.17 @ 17:05:00

End Date: 2013.07.17 @ 23:04:30

Job Ticket #: 52139 DST #: 5

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

Printed: 2013.07.18 @ 11:16:00

Hartman Oil Co., Inc.

19-5s-22w Norton, KS

Williams Trust #1-19

DST # 5

LKC "J - 180' Zone"

2013.07.17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Co., Inc.
 10500 Berkeley Sq. Pkw y. STE #100
 Wichita, KS 67206
 ATTN: Derrick Patterson

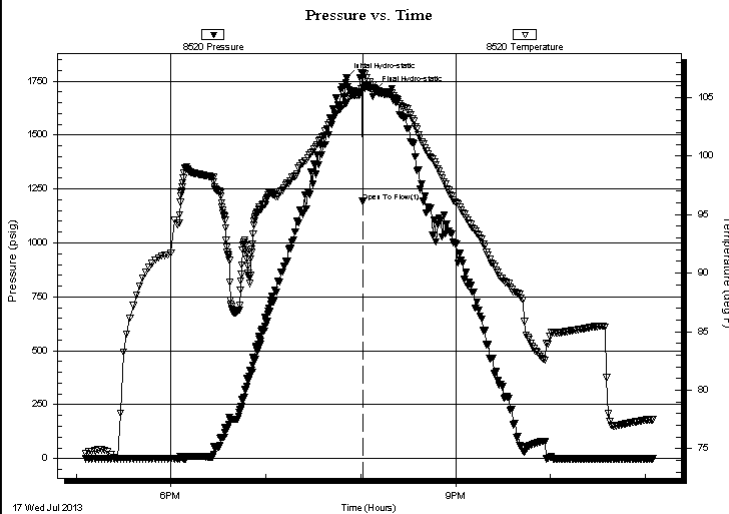
19-5s-22w Norton, KS
Williams Trust #1-19
 Job Ticket: 52139 **DST#: 5**
 Test Start: 2013.07.17 @ 17:05:00

GENERAL INFORMATION:

Formation: **LKC "J - 180' Zone"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 20:01:00 Tester: Kevin Mack
 Time Test Ended: 23:04:30 Unit No: 66
 Interval: **3596.00 ft (KB) To 3622.00 ft (KB) (TVD)** Reference Elevations: 2280.00 ft (KB)
 Total Depth: 3622.00 ft (KB) (TVD) 2269.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8520 Outside
 Press @ Run Depth: psig @ 3597.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.17 End Date: 2013.07.17 Last Calib.: 2013.07.17
 Start Time: 17:06:00 End Time: 23:04:30 Time On Btm: 2013.07.17 @ 19:51:00
 Time Off Btm: 2013.07.17 @ 20:09:00

TEST COMMENT: Packer Failure... Tried to set packers three times before tripping out of hole.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1764.59	104.59	Initial Hydro-static
10	1192.70	106.99	Open To Flow (1)
18	1705.63	105.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
400.00	Mud 100M	2.23

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Co., Inc.

19-5s-22w Norton, KS

10500 Berkeley Sq. Pkw y. STE #100
Wichita, KS 67206

Williams Trust #1-19

Job Ticket: 52139

DST#: 5

ATTN: Derrick Patterson

Test Start: 2013.07.17 @ 17:05:00

Tool Information

Drill Pipe:	Length: 3207.00 ft	Diameter: 3.80 inches	Volume: 44.99 bbl	Tool Weight: 2500.00 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: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 46.81 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3596.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	54.00 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			3569.00	
Shut In Tool	5.00			3574.00	
Hydraulic tool	5.00			3579.00	
Jars	5.00			3584.00	
Safety Joint	3.00			3587.00	
Packer	5.00			3592.00	28.00 Bottom Of Top Packer
Packer	4.00			3596.00	
Stubb	1.00			3597.00	
Recorder	0.00	8354	Inside	3597.00	
Recorder	0.00	8520	Outside	3597.00	
Perforations	20.00			3617.00	
Bullnose	5.00			3622.00	26.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co., Inc.

19-5s-22w Norton, KS

10500 Berkeley Sq. Pkw y. STE #100
Wichita, KS 67206

Williams Trust #1-19

Job Ticket: 52139

DST#: 5

ATTN: Derrick Patterson

Test Start: 2013.07.17 @ 17:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
400.00	Mud 100M	2.231

Total Length: 400.00 ft Total Volume: 2.231 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

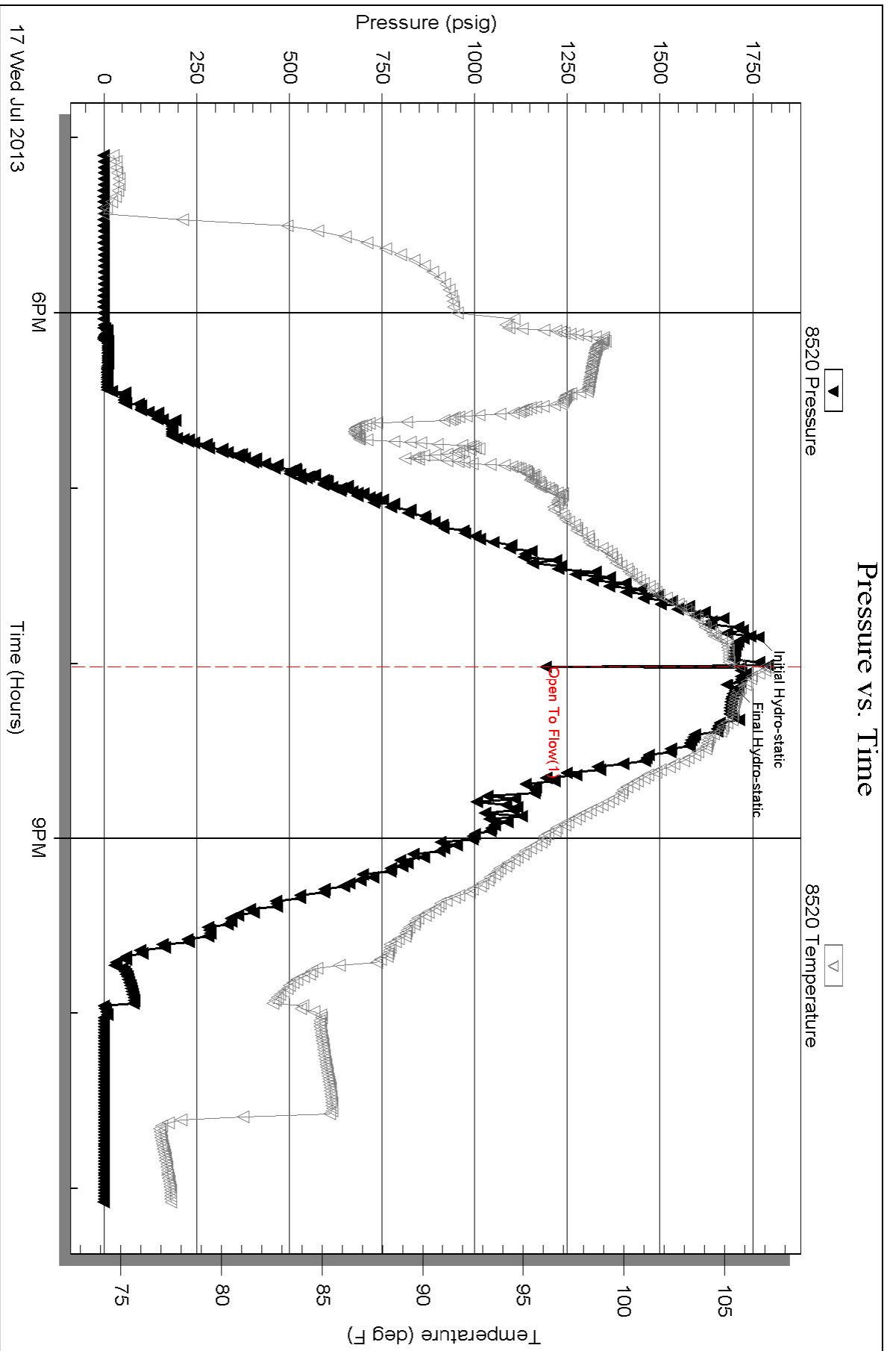
Recovery Comments:

Serial #: 8520

Outside Hartman Oil Co., Inc.

Williams Trust #1-19

DST Test Number: 5



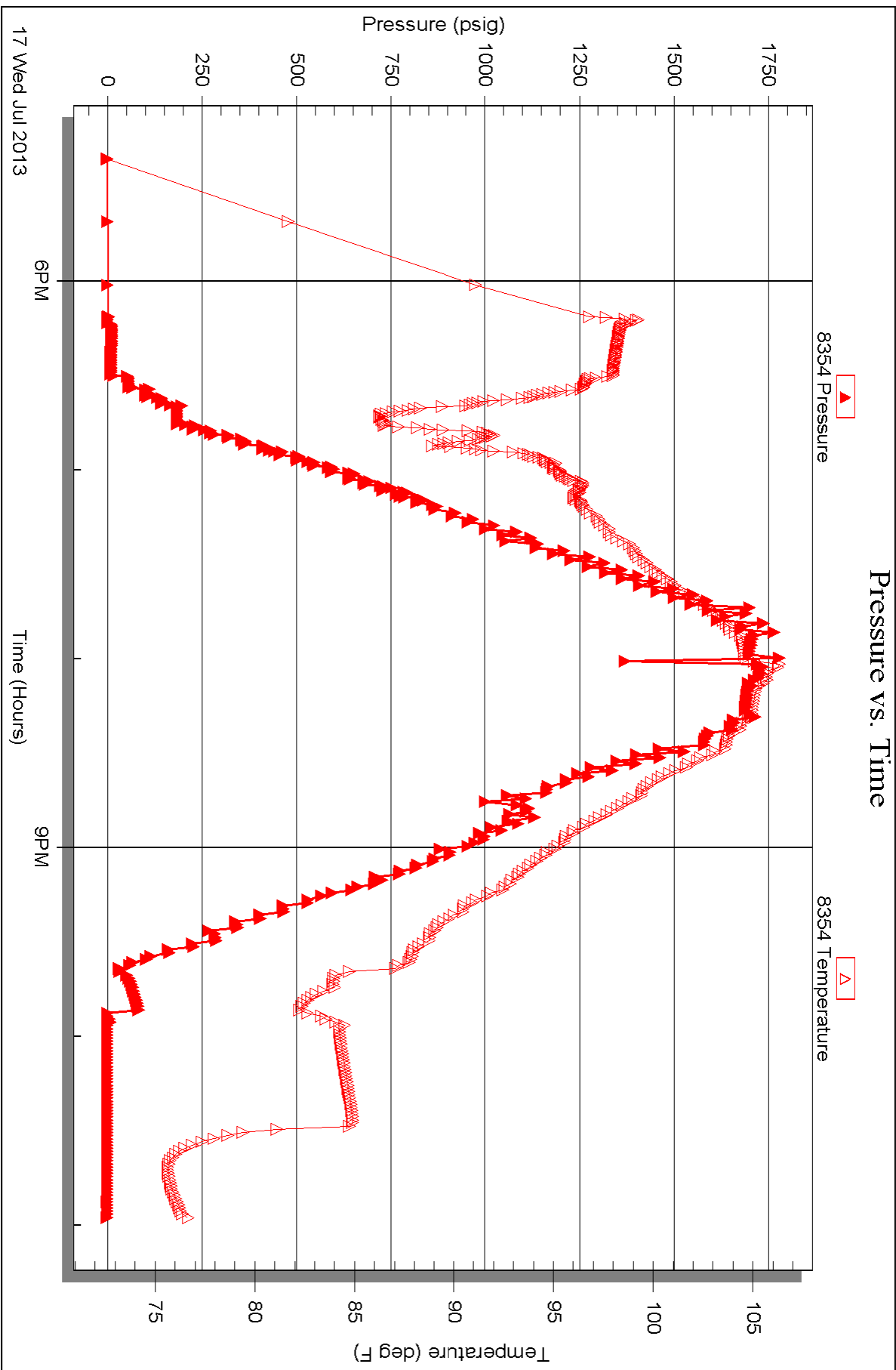
Serial #: 8354

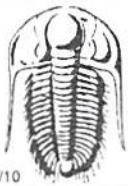
Inside

Hartman Oil Co., Inc.

Williams Trust #1-19

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52135

Well Name & No. Williams Trust #1-19 Test No. 1 Date 7-14-13
 Company Hartman Oil Co., Inc. Elevation 2280 KB 2270 GL
 Address 10500 Berkeley Sq Pkwy. STE#1000 Wichita, KS 67206
 Co. Rep / Geo. Derrick Patterson Rig H2 #1
 Location: Sec. 19 Twp. 05S Rge. 22W Co. Norton State KS

Interval Tested 3404-3454 Zone Tested Toronto
 Anchor Length 50' Drill Pipe Run 3012 Mud Wt. 8.9
 Top Packer Depth 3400 Drill Collars Run 371' Vis 58
 Bottom Packer Depth 3404 Wt. Pipe Run Ø WL 6.2
 Total Depth 3454 Chlorides 400 ppm System LCM 2#

Blow Description IF - BoB in 7 min.
ISF - BoB in 22 min.
AF - BoB in 18 min.
FST - BoB in 25 min.

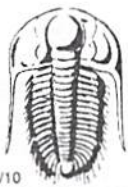
Rec	Feet of	%gas	%oil	%water	%mud
188	clean oil (gassy)	100	90		
184	6 MCO	5	85	10	
184	OCM		20	80	
92	OCM		10	90	
0	188' GIP	100			

Rec Total 648 BHT 1088 Gravity 29 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1651 Test 1150 T-On Location 9:20 Am
 (B) First Initial Flow 71 Jars 250 T-Started 10:30 Am
 (C) First Final Flow 196 Safety Joint 75 T-Open 1:40 PM
 (D) Initial Shut-In 1155 Circ Sub N/C T-Pulled 4:10 PM
 (E) Second Initial Flow 218 Hourly Standby T-Out 7:00 PM
 (F) Second Final Flow 259 Mileage 108 RT 167.40 Comments Tool slid approx
 (G) Final Shut-In 1088 Sampler 10' to Bottom
 (H) Final Hydrostatic 1624 Straddle Bled GIP initial surge.
 Ruined Shale Packer
 Shale Packer
 Ruined Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility 150 Sub Total 0
 Sub Total 1792.40 Total 1792.40 MP/DST Disc't

Approved By Our Representative *[Signature]*

TriLOBITE Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52136

Well Name & No. Williams Trust #1-19 Test No. 2 Date 7-15-13
 Company Hartman Oil Co., Inc. Elevation 2280 KB 2270 GL
 Address 10500 Berkeley Sq. Pkwy. STE #1000 Wichita, KS 67206
 Co. Rep / Geo. Derrick Patterson Rig H2 #1
 Location: Sec. 19 Twp. 05S Rge. 22W Co. Norton State KS


Interval Tested 3476-3498 Zone Tested LKC "C-35' zone"
 Anchor Length 22' Drill Pipe Run 3109 Mud Wt. 8.9
 Top Packer Depth 3472 Drill Collars Run 371' Vis 58
 Bottom Packer Depth 3476 Wt. Pipe Run 0 WL 6.2
 Total Depth 3498 Chlorides 400 ppm System LCM 2#

Blow Description IF - 1/8" Blow built to 4 1/4
ISI - NO Return
FB - Blow started at 7 min. Built to 3 1/4"
FSL - NO Return

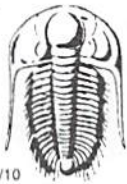
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Free Oil</u>	<u>1000</u>			
<u>100</u>	<u>OCM</u>	<u>20</u>		<u>80</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 110 BHT 106' Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic	<u>1721</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>4:25 AM</u>
(B) First Initial Flow	<u>63</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>4:30 AM</u>
(C) First Final Flow	<u>75</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>6:30 AM</u>
(D) Initial Shut-In	<u>1275</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>10:00 AM</u>
(E) Second Initial Flow	<u>83</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>12:10 PM</u>
(F) Second Final Flow	<u>93</u>	<input checked="" type="checkbox"/> Mileage	<u>108 RT</u> 167.40	Comments <u>Tool opened after 10' early and we made another connection to make bottom</u>	
(G) Final Shut-In	<u>1954</u>	<input type="checkbox"/> Sampler		<input type="checkbox"/> Ruined Shale Packer	
(H) Final Hydrostatic	<u>1718</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Packer	
Initial Open	<u>4560</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Extra Copies	
Initial Shut-In	<u>45</u>	<input type="checkbox"/> Extra Packer		Sub Total	<u>0</u>
Final Flow	<u>60</u>	<input type="checkbox"/> Extra Recorder		Total	<u>1792.40</u>
Final Shut-In	<u>45</u>	<input type="checkbox"/> Day Standby		MP/DST Disc't	
		<input checked="" type="checkbox"/> Accessibility	<u>150</u>		
		Sub Total	<u>1792.40</u>		

Approved By _____ Our Representative 

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52137

Well Name & No. Williams Trust #1-19 Test No. 3 Date 7-15-13
 Company Hartman Oil Co., Inc Elevation 2280 KB 2269 GL
 Address 10500 Berkeley Sq. Pkwy. STE #1000 Wichita, KS 67206
 Co. Rep / Geo. Derrick Patterson Rig H2 #1
 Location: Sec. 19 Twp. 055 Rge. 22 W Co. Norton State KS

Interval Tested 3514-3530 Zone Tested LKC "F-70' zone"
 Anchor Length 16' Drill Pipe Run 3143 Mud Wt. 9.1
 Top Packer Depth 3510 Drill Collars Run 371' Vis 58
 Bottom Packer Depth 3514 Wt. Pipe Run 0 WL 5.8
 Total Depth 3530 Chlorides 5000 ppm System LCM 2#

Blow Description IF - BoB in 17 min.
ISI - Weak Surface Return built to 4"
FF - BoB in 18 min
FSI - Weak Surface Return built to 8"

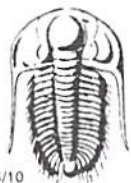
Rec	Feet of	%gas	%oil	%water	%mud
<u>659</u>	<u>Clean Gassy Oil</u>	<u>200</u>	<u>80</u>		
<u>184</u>	<u>OCM</u>	<u>40</u>		<u>60</u>	
<u>150</u>	<u>GIP</u>	<u>100</u>			

Rec Total 843 BHT 108 Gravity 30 API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic	<u>1693</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>7:50 PM</u>
(B) First Initial Flow	<u>92</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>8:20 PM</u>
(C) First Final Flow	<u>225</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>10:35 PM</u>
(D) Initial Shut-In	<u>1116</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>3:20 AM</u>
(E) Second Initial Flow	<u>234</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>5:45 AM</u>
(F) Second Final Flow	<u>309</u>	<input checked="" type="checkbox"/> Mileage	<u>108 RT</u> 167.40	Comments	<u>Tool opened early and had to be chased approx 15' to bottom.</u>
(G) Final Shut-In	<u>1097</u>	<input type="checkbox"/> Sampler		<input type="checkbox"/> Ruined Shale Packer	
(H) Final Hydrostatic	<u>1691</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Packer	
Initial Open	<u>90</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Extra Copies	
Initial Shut-In	<u>45</u>	<input type="checkbox"/> Extra Packer		Sub Total	<u>0</u>
Final Flow	<u>90</u>	<input type="checkbox"/> Extra Recorder		Total	<u>1792.40</u>
Final Shut-In	<u>60</u>	<input type="checkbox"/> Day Standby		MP/DST Disc't	
		<input checked="" type="checkbox"/> Accessibility	<u>150</u>		
		Sub Total	<u>1792.40</u>		

Approved By _____ Our Representative [Signature]

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52138

Well Name & No. Williams trust #1-19 Test No. 4 Date 7-16-13
 Company Hartman Oil Co., Inc. Elevation 2280 KB 2269 GL
 Address 10500 Berkeley Sq. Pkwy. STE # 1008 Wichita, KS 67208
 Co. Rep / Geo. Derrick Patterson Rig #2 #1
 Location: Sec. 19 Twp. 055 Rge. 22W Co. Norton State KS

Interval Tested 3554-3584 Zone Tested LKL'H-140' zone "
 Anchor Length 30' Drill Pipe Run 3170 Mud Wt. 9.1
 Top Packer Depth 3550 Drill Collars Run 371 Vis 60
 Bottom Packer Depth 3554 Wt. Pipe Run 0 WL 5.4
 Total Depth 3584 Chlorides 600 ppm System LCM 2#

Blow Description IF- NO Blow - Flushed tool at 10 min. - NO Blow
ISI- NO Return
FF- NO Blow
FSI- NO Return

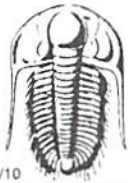
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>OSM</u>	<u>spots</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 108 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1776</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2:25 PM</u>
(B) First Initial Flow <u>30</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2:28 PM</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>5:00 PM</u>
(D) Initial Shut-In <u>759</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>7:00 PM</u>
(E) Second Initial Flow <u>36</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>7:30 AM 7-17-13</u>
(F) Second Final Flow <u>39</u>	<input checked="" type="checkbox"/> Mileage <u>167.40</u> <u>1008 RT#120</u>	Comments <u>Tool slid approx 5'</u>
(G) Final Shut-In <u>677</u>	<input type="checkbox"/> Sampler	<u>before opening - Chased top</u>
(H) Final Hydrostatic <u>1698</u>	<input type="checkbox"/> Straddle	<u>another 5' after opening</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<u>Tool parted and had to</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<u>be fished out of hole.</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Shale Packer
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	<input type="checkbox"/> Ruined Packer
	<input checked="" type="checkbox"/> Accessibility <u>150</u>	<input type="checkbox"/> Extra Copies
	Sub Total <u>1792.40</u>	Sub Total <u>0</u>

Approved By _____ Our Representative

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52139

Well Name & No. Williams Trust #1-19 Test No. 5 Date 7-17-13
 Company Hartman Oil Co., Inc. Elevation ~~22000~~ 2279 KB 2268 GL
 Address 10500 Berkeley Sq. Pkwy STE #1000 Wichita, KS 67206
 Co. Rep / Geo. Derrick Patterson Rig H2 #1
 Location: Sec. 19 Twp. 05S Rge. 22W Co. Norton State KS

Interval Tested 3596-3622 Zone Tested LKC "J-180' zone"
 Anchor Length 26' Drill Pipe Run 3207 Mud Wt. 9.1
 Top Packer Depth 3592 Drill Collars Run 371 Vis 48
 Bottom Packer Depth 3596 Wt. Pipe Run 0 WL 5.8
 Total Depth 3622 Chlorides 600 ppm System LCM 2#

Blow Description IF- Packer Failure
ISI- Tried to set packers three times before
FF- tripping out of hole.
FST-

Rec	Feet of	%gas	%oil	%water	%mud
<u>400</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 400 BHT 107 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1764 Test 950 T-On Location 4:45 PM
 (B) First Initial Flow 1192 Jars 250 T-Started 5:05 PM
 (C) First Final Flow - Safety Joint 75 T-Open 8:00 PM
 (D) Initial Shut-In - Circ Sub NIL T-Pulled 8:15 PM
 (E) Second Initial Flow - Hourly Standby T-Out 11:10 PM
 (F) Second Final Flow - Mileage 1008 RT 167.40 Comments _____
 (G) Final Shut-In - Sampler _____
 (H) Final Hydrostatic 1705 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____

Initial Open _____ Extra Packer _____
 Initial Shut-In _____ Extra Recorder _____
 Final Flow _____ Day Standby _____
 Final Shut-In _____ Accessibility 150
 Sub Total 1592.40
 Sub Total 1592.40
 Sub Total 0
 Total 1592.40
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss incurred or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

PO Box 93999
Southlake, TX 76092

Invoice Number: 137432
Invoice Date: Jul 19, 2013
Page: 1

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

Bill To:
Hartman Oil Co., Inc. H2 Drilling & H2 Trucking 3545 W. Jones Avenue Garden City, KS 67846

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Hart	60347	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Oakley	Jul 19, 2013	8/18/13

Quantity	Item	Description	Unit Price	Amount
200.00	MAT	Williams Trust #1-19 Class A Common	17.90	3,580.00
3.00	MAT	Gel	23.40	70.20
450.00	MAT	Lightweight	15.95	7,177.75
16.00	MAT	Salt	26.35	421.60
500.00	MAT	Gilsonite	0.98	490.00
125.00	MAT	Flo Seal	2.97	371.25
797.65	SER	Cubic Feet	2.48	1,978.17
2,511.00	SER	Ton Mileage	2.60	6,528.60
1.00	SER	Production -- Bottom State	2,558.75	2,558.75
1.00	SER	Production -- Top Stage	2,406.25	2,406.25
75.00	SER	Pump Truck Mileage	7.70	577.50
1.00	SER	Manifold Head Rental	275.00	275.00
75.00	SER	Light Vehicle Mileage	4.40	330.00
1.00	EQP	5.5 D V Tool	5,335.26	5,335.26
1.00	EQP	5.5 Latch Down Plug	324.09	324.09
1.00	EQP	5.5 AFU Float Shoe	334.62	334.62
10.00	EQP	5.5 Centralizer	57.33	573.30
2.00	EQP	5.5 Basket	394.29	788.58
1.00	CEMENTER	LaRene Wentz		
1.00	CEMENTER	Andrew Forslund		

81537

07/13
A05500
180402

Subtotal	Continued
Sales Tax	Continued
Total Invoice Amount	Continued
Payment/Credit Applied	
TOTAL	Continued

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

\$ 8,871.43

ONLY IF PAID ON OR BEFORE
Aug 13, 2013

35,464.12
<8,871.43>
26,592.69

PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 137432
Invoice Date: Jul 19, 2013
Page: 2

Bill To:
Hartman Oil Co., Inc. H2 Drilling & H2 Trucking 3545 W. Jones Avenue Garden City, KS 67846

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Hart	60347	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Oakley	Jul 19, 2013	8/18/13

Quantity	Item	Description	Unit Price	Amount
1.00	OPER ASSIST	David Scariano		

Subtotal	34,120.92
Sales Tax	1,343.20
Total Invoice Amount	35,464.12
Payment/Credit Applied	
TOTAL	35,464.12

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

\$ 8,871.43

ONLY IF PAID ON OR BEFORE
Aug 13, 2013

Dr. Mitchell
7-29-13

**NEW WELL
DRILLED**

ALLIED OIL & GAS SERVICES, LLC

060347

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Oakley, TX

DATE <u>7-19-13</u>	SEC. <u>19</u>	TWP. <u>5</u>	RANGE <u>22</u>	CALLED OUT	ON LOCATION <u>7:00am</u>	JOB START <u>2:30pm</u>	JOB FINISH <u>4:30pm</u>
LEASE <u>Williams Trust</u>				WELL # <u>1-17</u>	LOCATION <u>Hill City No. 1 Ed. Unit</u>	COUNTY <u>Horton</u>	STATE <u>TX</u>
OLD OR NEW (Circle one)							

CONTRACTOR H₂ Rig #1

TYPE OF JOB Production Stage

HOLE SIZE 7 7/8 T.D. 3900

CASING SIZE 5 1/2 DEPTH 3880.61

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DU 7261 DEPTH 1895.55

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 15-11

CEMENT LEFT IN CSG. 15-11

PERFS.

DISPLACEMENT

OWNER same

CEMENT

AMOUNT ORDERED 100sk Lito 5# flo seal
150sk com 1020 salt 2 Regal 400sk Lito
4# flo seal 30sk com

COMMON	<u>200sk @ 17.90</u>	<u>3580.00</u>
POZMIX	@	
GEL	<u>38ks @ 23.40</u>	<u>70.20</u>
CHLORIDE	@	
<u>100 Lito</u>	<u>4500sk @ 15.95</u>	<u>59775.00</u>
	@	<u>717.75</u>
<u>salt</u>	<u>16sk @ 26.35</u>	<u>421.60</u>
	@	
<u>gilsonite</u>	<u>500 # @ 98</u>	<u>490.00</u>
	@	
<u>flo seal</u>	<u>125 # @ 2.97</u>	<u>371.25</u>
	@	
	@	
HANDLING	<u>79265843 @ 2.48</u>	<u>1978.17</u>
MILEAGE	<u>33.48 hrs X 75 X 2.60</u>	<u>6528.60</u>

EQUIPMENT

PUMP TRUCK CEMENTER L Renee E. Wentz

423/281 HELPER Andrew Forstlund

BULK TRUCK

386/310 DRIVER David Scario

BULK TRUCK

396/306 DRIVER Alvaro Cadena

REMARKS:

Mix 100sk Lito, mix 150sk com 1020 salt,
Displace with water mud hand plug 1100
Open DU tool, 200#. Circulate
Mix 400sk Lito, mix 50sk com.
Displace with water.
hand plug 200#. Float held.
Cement did not circulate
Thank you

TOTAL 20617.57

SERVICE

DEPTH OF JOB	<u>3880.61'</u>	
PUMP TRUCK CHARGE		<u>2558.75</u>
EXTRA FOOTAGE <u>Top stage</u>	@	<u>2406.25</u>
MILEAGE <u>MHU 45</u>	@ <u>7.70</u>	<u>577.50</u>
MANIFOLD <u>head</u>	@	<u>295.00</u>
<u>MHU 75</u>	@ <u>4.40</u>	<u>334.00</u>
	@	

TOTAL 6147.50

PLUG & FLOAT EQUIPMENT

<u>DU Tool</u>		<u>5335.26</u>
<u>Latchdown Plug</u>	@	<u>324.89</u>
<u>APU Float Shoe</u>	@	<u>339.62</u>
<u>10 Centralizers</u>	@ <u>58.33</u>	<u>583.30</u>
<u>2 Baskets</u>	@ <u>394.29</u>	<u>788.58</u>
	@	

TOTAL 7355.85

CHARGE TO: Hortman Oil

STREET _____

CITY _____ STATE _____ ZIP _____

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.

PRINTED NAME Justin Trout

SIGNATURE Justin Trout

SALES TAX (If Any) _____

TOTAL CHARGES 34,120.92

DISCOUNT 2,871.43 IF PAID IN 30 DAYS

25,249.48 Net.