



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1215936
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: _____

1215936

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
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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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Hartman Oil Co., Inc.
Well Name	Heyen 1-2
Doc ID	1215936

All Electric Logs Run

Microlog
Spectral Density Neutron
Compensated Resistivity
Borehole Compensated Sonic

Form	ACO1 - Well Completion
Operator	Hartman Oil Co., Inc.
Well Name	Heyen 1-2
Doc ID	1215936

Tops

Name	Top	Datum
Anhydrite	700	+1158
Topeka	3024	-1116
Heebner	3343	-1435
Toronto	3361	-1453
Lansing	3506	-1598
B/KC	3770	-1862
Mississippi	3804	-1896
Viola	3826	-1918
Arbuckle	4024	-2116
RTD	4090	-2182



INVOICE

P.O. Box 93999
Southlake, TX 76092

Invoice Number: 144099

Invoice Date: Jun 25, 2014

Voice: (817) 546-7282

Page: 1

Fax: (817) 246-3361

Bill To:

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

Customer ID	Field Ticket #	Payment Terms	
Hart	63579	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	Jun 25, 2014	7/25/14

Quantity	Item	Description	Unit Price	Amount
	WELL NAME	Heyen #1-2 <i>81713</i>		
350.00	CEMENT MATERIALS	Class A Common	17.90	6,265.00
658.00	CEMENT MATERIALS	Gel	1.05	690.90
987.00	CEMENT MATERIALS	Chloride	1.10	1,085.70
378.46	CEMENT SERVICE	Cubic Feet Charge	2.48	938.58
345.40	CEMENT SERVICE	Ton Mileage Charge	2.75	949.85
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
20.00	CEMENT SERVICE	Pump Truck Mileage	7.70	154.00
20.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	88.00
1.00	EQUIPMENT SALES	8-5/8 Rubber Plug	131.04	131.04
1.00	CEMENT SUPERVISOR	Charles Kinyon		
1.00	EQUIPMENT OPERATOR	Ben Newell		
1.00	EQUIPMENT OPERATOR	Daniel Casper		
NEW WELL DRILLED				
<i>Dr. Mulet</i>				
<i>7-10-14</i>				

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

\$ 3,308.29

ONLY IF PAID ON OR BEFORE
Jul 25, 2014

Subtotal	11,815.32
Sales Tax	584.34
Total Invoice Amount	12,399.66
Payment/Credit Applied	
TOTAL	12,399.66

ALLIED OIL & GAS SERVICES, LLC 063579

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
great Bend

6-25-14 DATE	SEC. 2	TWP. 24	RANGE 13	CALLED OUT 11:00 am	ON LOCATION 12:00 am	JOB START 3:00 pm	JOB FINISH 4:00 pm
HEGER LEASE		WELL # 1-2		LOCATION St John 1 1/2 E 5 chite		COUNTY <u>Stafford</u>	STATE <u>TX</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR H2 #4

TYPE OF JOB surface

HOLE SIZE 12 1/4 T.D. 356

CASING SIZE 8 3/4 24 DEPTH 356

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT H2O 21.72 BBI

OWNER same

CEMENT AMOUNT ORDERED 350 yd class A

31 cc 27 gel

COMMON	<u>350</u>	@	<u>17.90</u>	<u>6,265.00</u>
POZMIX		@		
GEL	<u>658</u>	@	<u>1.05</u>	<u>690.90</u>
CHLORIDE	<u>987</u>	@	<u>1.10</u>	<u>1,085.70</u>
ASC		@		
			<u>Material @</u>	<u>Total 8,041.60</u>
			<u>Disc 28%</u>	<u>2251.65</u>
			<u>Service</u>	
			@	
			@	
			@	
			@	
HANDLING	<u>378.76</u>	@	<u>2.48</u>	<u>938.58</u>
MILEAGE	<u>17.27 x 204</u>	@	<u>2.75</u>	<u>4749.80</u>

EQUIPMENT

PUMP TRUCK CEMENTER Charles Kinger
398 HELPER Ben Newell

BULK TRUCK # 544-198 DRIVER Dan Carney

BULK TRUCK # _____ DRIVER _____

REMARKS:

Rig Run 356' 8 3/4 csg broke
csg in 1 sec mud hook in
haul 5 BBI H2O run 350 yd
class A 31 cc 27 gel shut down
Release plug displac 21.72 BBI
H2O shut in cement did
circulate

DEPTH OF JOB	<u>356</u>		
PUMP TRUCK CHARGE	<u>1512.35</u>		
EXTRA FOOTAGE	@		
MILEAGE <u>Hum 20</u>	@	<u>7.70</u>	<u>154.00</u>
MANIFOLD	@		
<u>Hum 20</u>	@	<u>4.40</u>	<u>88.00</u>
	@		

CHARGE TO: Hartman oil

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 3,642.68
28% 1,019.95

PLUG & FLOAT EQUIPMENT

<u>Rubber plug</u>	<u>131.04</u>		
	@		
	@		
	@		
	@		
	@		
	@		
TOTAL	<u>131.04</u>		
	28%		<u>36.69</u>

Thank you!

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 11,815.32

28% 3,308.29 (28/28/28)

DISCOUNT _____ IF PAID IN 30 DAYS

8,507.03

PRINTED NAME A Gary Axtell

SIGNATURE A Gary Axtell



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 144206
Invoice Date: Jul 4, 2014
Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Hart	63586	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Great Bend	Jul 4, 2014	8/3/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Hegen #1-2 <i>81713</i>		
240.00	CEMENT MATERIALS	Class A Common	17.90	4,296.00
451.00	CEMENT MATERIALS	Gel	1.05	473.55
80.00	CEMENT MATERIALS	65/35/6% Gel	19.88	1,590.40
20.00	CEMENT MATERIALS	Flo Seal	2.97	59.40
1,320.00	CEMENT MATERIALS	Salt	0.68	897.60
1,200.00	CEMENT MATERIALS	Kol Seal	0.98	1,176.00
378.80	CEMENT SERVICE	Cubic Feet Charge	2.48	939.42
333.40	CEMENT SERVICE	Ton Mileage Charge	2.75	916.85
20.00	CEMENT SERVICE	Pump Truck Mileage	7.70	154.00
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
20.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	88.00
	CEMENT SERVICE	Waiting on Location -- No Charge		
10.00	EQUIPMENT SALES	5-1/2 Centralizer	57.00	570.00
2.00	EQUIPMENT SALES	5-1/2 Basket	395.00	790.00
1.00	EQUIPMENT SALES	5-1/2 Latch Down Plug	660.00	660.00
1.00	EQUIPMENT SALES	5-1/2 AFU Float Shoe	545.00	545.00
1.00	EQUIPMENT SALES	5-1/2 D V Tool	5,335.00	5,335.00
1.00	CEMENT SERVICE	Production Casing	2,765.75	2,765.75
1.00	CEMENT SUPERVISOR	Charles Kinyon		
1.00	OPERATOR ASSISTANT	Marlyn Spangenberg		

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

\$ 3,816.95

ONLY IF PAID ON OR BEFORE
Aug 3, 2014

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

Dr. Mitchell
7-14-14



PO Box 93999
 Southlake, TX 76092

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

INVOICE

Invoice Number: 144206
 Invoice Date: Jul 4, 2014
 Page: 2

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

Customer ID	Field Ticket #	Payment Terms	
Hart	63586	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Great Bend	Jul 4, 2014	8/3/14

Quantity	Item	Description	Unit Price	Amount
1.00	EQUIPMENT OPERATOR	Daniel Casper		
1.00	OPERATOR ASSISTANT	Kevin Weighous		

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

\$ 3,816.95

ONLY IF PAID ON OR BEFORE
Aug 3, 2014

Subtotal	21,531.97
Sales Tax	1,172.10
Total Invoice Amount	22,704.07
Payment/Credit Applied	
TOTAL	22,704.07

**NEW WELL
 DRILLED**

ALLIED OIL & GAS SERVICES, LLC 063586

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: great Bend

DATE <u>7-4-14</u>	SEC <u>2</u>	TWP <u>24</u>	RANGE <u>13</u>	CALLED OUT <u>11:00 pm</u>	ON LOCATION <u>12:30am</u>	JOB START <u>10:00am</u>	JOB FINISH <u>11:00am</u>
HEGEN LEASE		WELL #1-2		LOCATION <u>St Johns 1 1/4 E Schute</u>		COUNTY <u>Clayton</u>	STATE <u>Ks</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR <u>H-2 #4</u>	OWNER <u>Name</u>
TYPE OF JOB <u>Production</u>	
HOLE SIZE <u>7 7/8</u> T.D. <u>4090</u>	CEMENT
CASING SIZE <u>5 1/2 174</u> DEPTH <u>4081</u>	AMOUNT ORDERED <u>80 x 65135 61 gel</u>
TUBING SIZE _____ DEPTH _____	<u>1/2 flr 240 x class A 10% salt</u>
DRILL PIPE _____ DEPTH _____	<u>5H Kalscal 27 gel</u>
TOOL <u>DV</u> DEPTH <u>1903</u>	
PRES. MAX _____ MINIMUM _____	COMMON <u>240</u> @ <u>17.90</u> <u>4,296.00</u>
MEAS. LINE _____ SHOE JOINT <u>16'</u>	POZMIX _____ @ _____
CEMENT LEFT IN CSG. <u>16'</u>	GEL <u>451</u> @ <u>1.05</u> <u>473.55</u>
PERFS. _____	CHLORIDE _____ @ _____
DISPLACEMENT <u>H2O 50 mud 44.5</u>	ASC _____ @ _____
EQUIPMENT	<u>80 x 65135 46%</u> @ <u>19.88</u> <u>1,590.90</u>
	<u>+ salt 20</u> @ <u>2.97</u> <u>59.40</u>
PUMP TRUCK CEMENTER <u>Charles King</u>	<u>Salt 1320</u> @ <u>.68</u> <u>897.60</u>
# <u>597</u> HELPER <u>Marilyn Spangenberg</u>	<u>Kalscal 1200</u> @ <u>.98</u> <u>1176.00</u>
BULK TRUCK	<u>Materials Total</u> <u>8,492.95</u>
# <u>870-844</u> DRIVER <u>Dan Casper</u>	<u>Disc</u> @ <u>28%</u> <u>2,378.03</u>
BULK TRUCK	<u>Sewer</u>
# <u>599</u> DRIVER <u>Kevin Weighouse</u>	HANDLING <u>378.8</u> @ <u>2.48</u> <u>939.42</u>
	MILEAGE <u>16.67 x 30 x</u> <u>2.75</u> <u>916.85</u>

REMARKS:

Rig Ran 4081' 5 1/2' cap broke circ
w/ rig mud hood to head
pump out ball through @ 1700 psi
pump 5 BBI H2O mix 80 x head
240 x tail shut down Release
plug wash pump + line displac
50 BBI H2O 44.5 mud plug did
hand float did Hold drop
opening tool wait 15 min pump
through circ 3 HPL

DEPTH OF JOB <u>4081</u>	
PUMP TRUCK CHARGE <u>2,765.75</u>	
EXTRA FOOTAGE _____ @ _____	
MILEAGE <u>Hum 20</u> @ <u>7.70</u> <u>154.00</u>	
MANIFOLD _____ @ <u>275.00</u> <u>275.00</u>	
<u>Hum 20</u> @ <u>4.40</u> <u>88.00</u>	
<u>wait Time</u> @ <u>NC</u> _____	

CHARGE TO: Hartman oil

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 5,139.02
28% 1,438.92

PLUG & FLOAT EQUIPMENT

<u>10-centaliggers</u>	<u>57.00</u>	<u>570.00</u>
<u>2 - Baskets</u>	@ <u>395.00</u>	<u>790.00</u>
<u>float down plug</u>	@ <u>660.00</u>	<u>660.00</u>
<u>float shoe APU</u>	@ <u>545.00</u>	<u>545.00</u>
<u>DV - tool</u>	@ <u>5,335.00</u>	<u>5,335.00</u>
	@ _____	_____

TOTAL 7900.00

Thank you!

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 X Kent Strube

SIGNATURE X Kent Strube

SALES TAX (If Any) _____

TOTAL CHARGES 21,531.97

DISCOUNT 3,816.92 (28/28/0)

IF PAID IN 30 DAYS

17,715.02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Co
 10500 E Berkeley Sq Ste 100
 Wichita, KS 67206
 ATTN: Kitt Noah

2-24S-13W Stafford
Heyen 2
 Job Ticket: 59000 **DST#: 1**
 Test Start: 2014.06.28 @ 20:25:10

GENERAL INFORMATION:

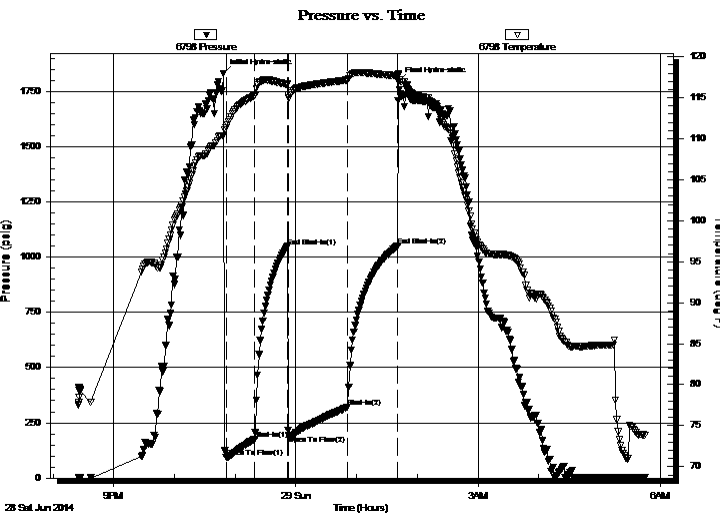
Formation: **LKC "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:50:55
 Time Test Ended: 05:44:40
 Interval: **3631.00 ft (KB) To 3650.00 ft (KB) (TVD)**
 Total Depth: 3650.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 1908.00 ft (KB)
 1900.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 322.11 psig @ 3632.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.28 End Date: 2014.06.29 Last Calib.: 2014.06.29
 Start Time: 20:25:11 End Time: 05:44:40 Time On Btm: 2014.06.28 @ 22:48:25
 Time Off Btm: 2014.06.29 @ 01:41:10

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 19 minutes, TSTM, Caught Sample
 IS: Blow Back Built to BOB in 7 minutes
 FF: Strong Blow , BOB & GTS immediate, TSTM
 FS: 7 inch Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1831.30	110.33	Initial Hydro-static
3	93.87	111.37	Open To Flow (1)
31	177.45	115.24	Shut-In(1)
63	1048.08	116.66	End Shut-In(1)
65	193.64	114.94	Open To Flow (2)
123	322.11	117.15	Shut-In(2)
173	1049.24	117.68	End Shut-In(2)
173	1793.81	117.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2120 GIP	0.00
378.00	GMCO 10%G 30%M 60%O	2.48
1134.00	GCO 20%G 80%O	15.91

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co
10500 E Berkeley Sq Ste 100
Wichita, KS 67206
ATTN: Kitt Noah

2-24S-13W Stafford
Heyen 2
Job Ticket: 59000 **DST#: 1**
Test Start: 2014.06.28 @ 20:25:10

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 30.1 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.99 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7600.00 ppm		
Filter Cake: 0.02 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2120 GIP	0.000
378.00	GMCO 10%G 30%M 60%O	2.478
1134.00	GCO 20%G 80%O	15.907

Total Length: 1512.00 ft Total Volume: 18.385 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity w as 31.2 @ 71 degrees

Serial #: 6798

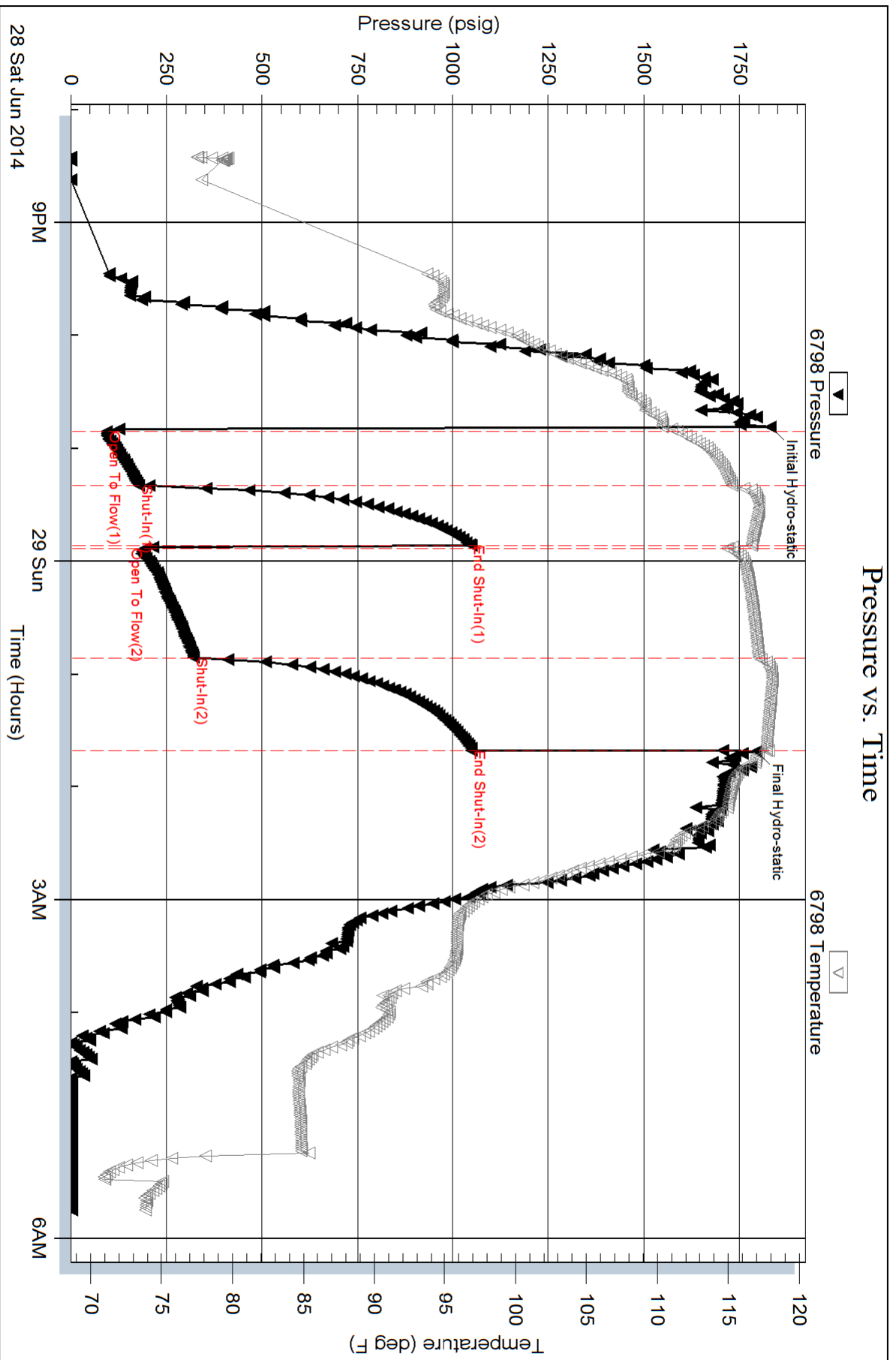
Inside

Hartman Oil Co

Heyen 2

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 59000

Printed: 2014.06.29 @ 07:02:53



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Co
 10500 E Berkeley Sq Ste 100
 Wichita, KS 67206
 ATTN: Kitt Noah

2-24S-13W Stafford
Heyen 2
 Job Ticket: 51801 **DST#: 2**
 Test Start: 2014.06.29 @ 13:12:59

GENERAL INFORMATION:

Formation: **LKC "I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:13:44
 Time Test Ended: 20:12:14
 Interval: **3650.00 ft (KB) To 3664.00 ft (KB) (TVD)**
 Total Depth: 3664.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 1908.00 ft (KB)
 1900.00 ft (CF)
 KB to GR/CF: 8.00 ft

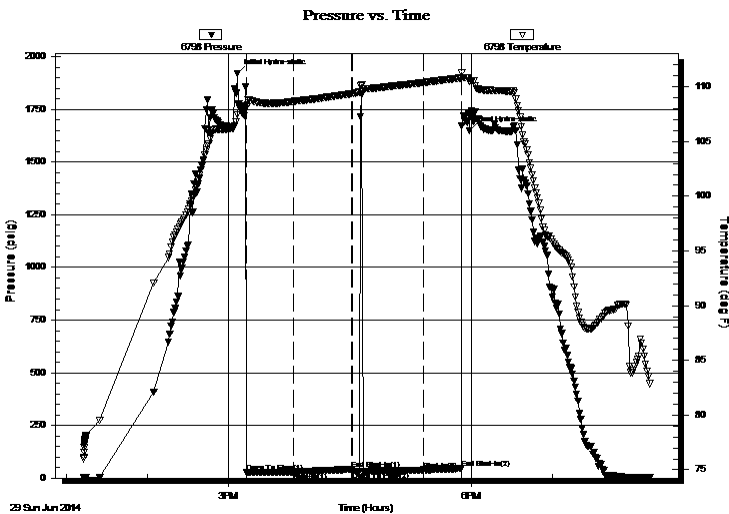
Serial #: 6798

Inside

Press @ Run Depth: 38.88 psig @ 3651.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.29 End Date: 2014.06.29 Last Calib.: 2014.06.29
 Start Time: 13:13:00 End Time: 20:12:14 Time On Btm: 2014.06.29 @ 15:06:44
 Time Off Btm: 2014.06.29 @ 17:58:29

TEST COMMENT: IF: Weak Surface Blow , Dead @ 12 minutes
 IS: No Blow Back
 FF: No Blow , Flushed Tool, No Blow
 FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1920.54	107.46	Initial Hydro-static
7	25.38	108.19	Open To Flow (1)
42	29.06	108.67	Shut-In(1)
85	42.08	109.37	End Shut-In(1)
85	31.70	109.37	Open To Flow (2)
90	32.74	109.50	Flushed Tool
138	38.88	110.39	Shut-In(2)
166	45.98	110.81	End Shut-In(2)
172	1649.93	110.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co
10500 E Berkeley Sq Ste 100
Wichita, KS 67206
ATTN: Kitt Noah

2-24S-13W Stafford
Heyen 2
Job Ticket: 51801 **DST#: 2**
Test Start: 2014.06.29 @ 13:12:59

Mud and Cushion Information

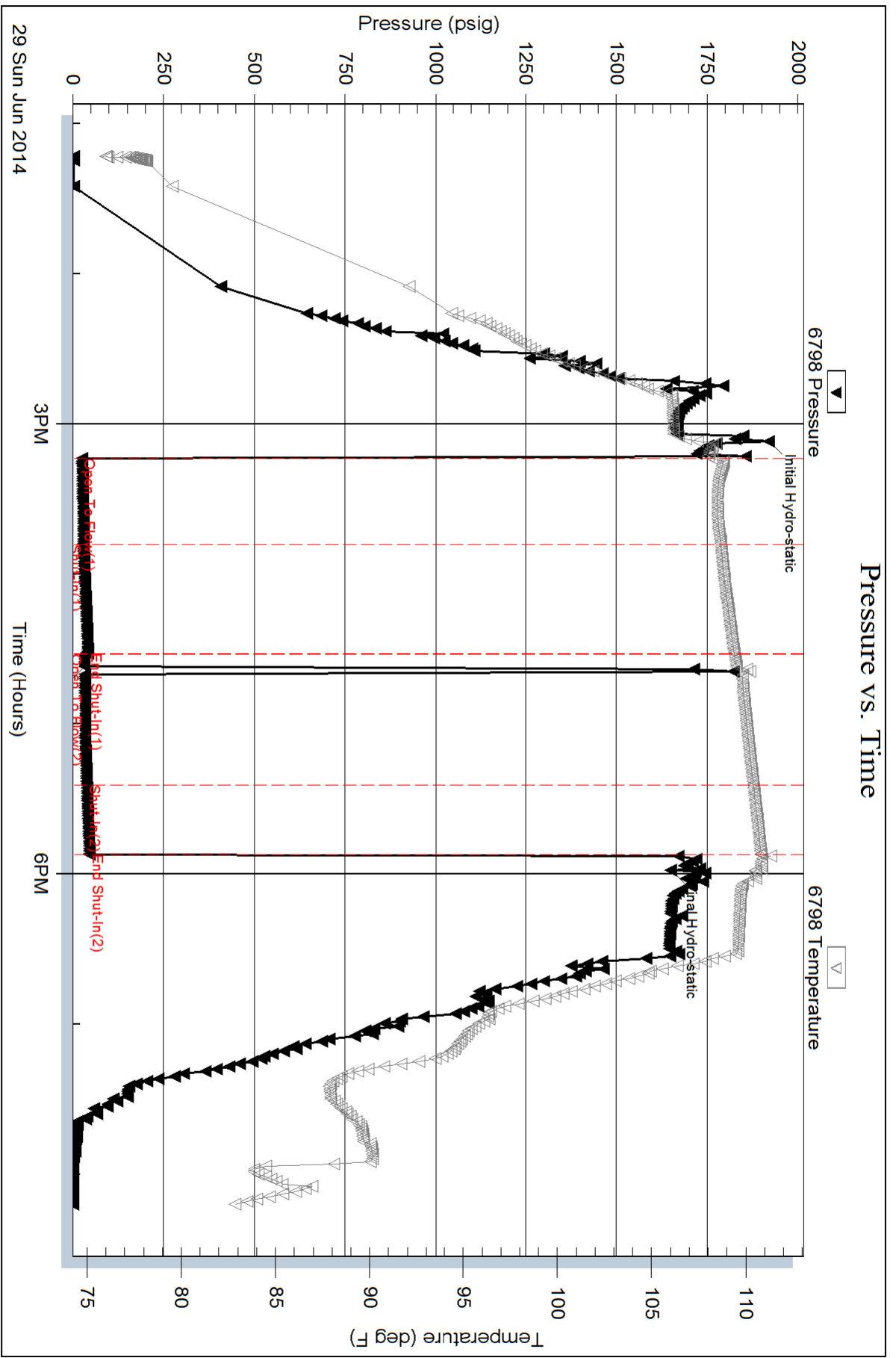
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7600.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hartman Oil Co
10500 E Berkeley Sq Ste 100
Wichita, KS 67206
ATTN: Kitt Noah

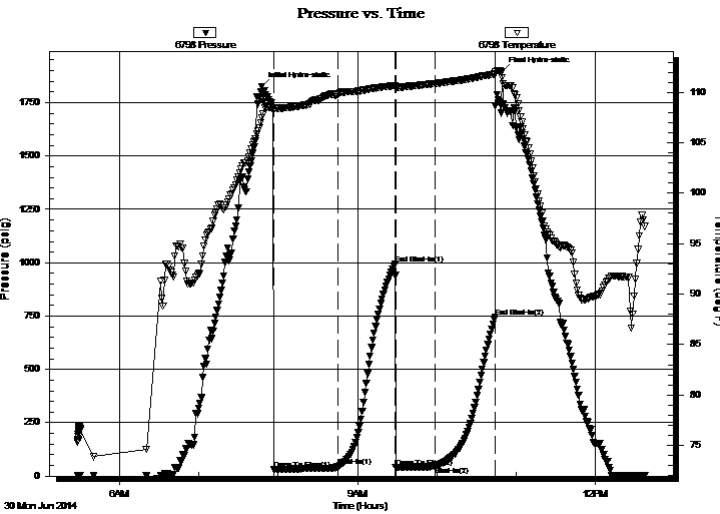
2-24S-13W Stafford
Heyen 2
Job Ticket: 51802 **DST#: 3**
Test Start: 2014.06.30 @ 05:27:53

GENERAL INFORMATION:

Formation: **LKC "J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:56:38
Time Test Ended: 12:38:08
Interval: **3662.00 ft (KB) To 3690.00 ft (KB) (TVD)**
Total Depth: 3690.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 1908.00 ft (KB)
1900.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6798 **Inside**
Press@RunDepth: 46.94 psig @ 3663.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.06.30 End Date: 2014.06.30 Last Calib.: 2014.06.30
Start Time: 05:27:54 End Time: 12:38:08 Time On Btm: 2014.06.30 @ 07:47:38
Time Off Btm: 2014.06.30 @ 10:49:38

TEST COMMENT: IF: Weak 1 inch Blow
IS: No Blow Back
FF: Weak Surface Blow, Dead @ 2 minutes
IS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1825.59	107.47	Initial Hydro-static
9	30.39	108.15	Open To Flow (1)
58	45.21	109.82	Shut-In(1)
101	992.64	110.68	End Shut-In(1)
102	41.32	110.36	Open To Flow (2)
132	46.94	110.86	Shut-In(2)
177	744.59	111.81	End Shut-In(2)
182	1896.89	111.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SGCM 2%G 98%M	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Co
10500 E Berkeley Sq Ste 100
Wichita, KS 67206
ATTN: Kitt Noah

2-24S-13W Stafford
Heyen 2
Job Ticket: 51802 **DST#: 3**
Test Start: 2014.06.30 @ 05:27:53

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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7600.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SGCM 2%G 98%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

