



KANSAS CORPORATION COMMISSION 1089345
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 8925
Name: Liberty Oper & Compl, Inc
Address 1: 308 W MILL
Address 2: _____
City: PLAINVILLE State: KS Zip: 67663 + 2229
Contact Person: Roger L. Comeau
Phone: (785) 434-4686
CONTRACTOR: License # 34481
Name: Tornado Drilling Company, LLC
Wellsite Geologist: Tony Richardson
Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>3/29/2012</u>	<u>4/6/2012</u>	<u>4/6/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-163-24020-00-00

Spot Description: _____
SE SW SW NW Sec. 28 Twp. 10 S. R. 17 East West
2740 Feet from North / South Line of Section
640 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Rooks

Lease Name: Ganoung A Well #: 3

Field Name: _____

Producing Formation: Arbuckle

Elevation: Ground: 2100 Kelly Bushing: 2101

Total Depth: 3768 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 200 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: 10000 ppm Fluid volume: 100 bbls

Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: Deanna Garrison Date: 08/20/2012



1089345

Operator Name: Liberty Oper & Compl, Inc Lease Name: Ganoung A Well #: 3
 Sec. 28 Twp. 10 S. R. 17 East West County: Rooks

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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

CASING RECORD <input checked="" 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
Surface	12.2500	8.2650	20	229	Common	170	3% cc 2% gel
Production	7.8750	5.5000	15.5000	1800	Common	150	10% salt 2 % gel
Production	7.8750	5.5000	15.5000	3770	Common	425	60/40 poz 6% gel 1/4 lb flow sea

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <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	Liberty Oper & Compl, Inc
Well Name	Ganoung A 3
Doc ID	1089345

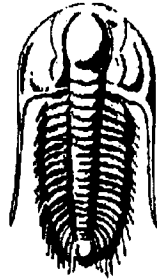
All Electric Logs Run

Dual Induction Log
Compensated Density/Neutron PE Log
Sonic Log
Dual Receiver Cement Bond Log
Geologist's Report

Form	ACO1 - Well Completion
Operator	Liberty Oper & Compl, Inc
Well Name	Ganoung A 3
Doc ID	1089345

Tops

Name	Top	Depth
Anhydrite	1356	+745
Topeka	3069	-968
Heebner	3296	-1195
Toronto	3313	-1212
L/KC A	3337	-1236
Stuck Shale	3530	-1429
b/KC	3586	-1485
Conglomerate	3627	-1526
Arbuckle	3716	-1615



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Liberty Operations & Completions ,Inc.**

308 W Mill
Plainville KS 67663

ATTN: Tony Richardson

Ganoung A#3

28-10s-17w Rooks,KS

Start Date: 2012.04.03 @ 15:40:12

End Date: 2012.04.04 @ 02:17:42

Job Ticket #: 47702 DST #: 1

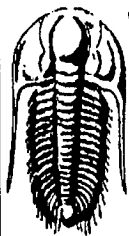
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.12 @ 08:55:22

Liberty Operations & Completions ,Inc. 28-10s-17w Rooks,KS Ganoung A#3 DST # 1 Conglomerate 2012.04.03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Liberty Operations & Completions, Inc.

28-10s-17w Rooks, KS

308 W Mill
Plainville KS 67663

Ganoung A#3

Job Ticket: 47702

DST#: 1

ATTN: Tony Richardson

Test Start: 2012.04.03 @ 15:40:12

GENERAL INFORMATION:

Formation: **Conglomerate**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:26:42

Time Test Ended: 02:17:42

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: **3546.00 ft (KB) To 3667.00 ft (KB) (TVD)**

Reference Elevations: 2101.00 ft (KB)

Total Depth: 3667.00 ft (KB) (TVD)

2093.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press@RunDepth: 62.28 psig @ 3643.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.03

End Date:

2012.04.04

Last Calib.: 2012.04.04

Start Time: 15:40:17

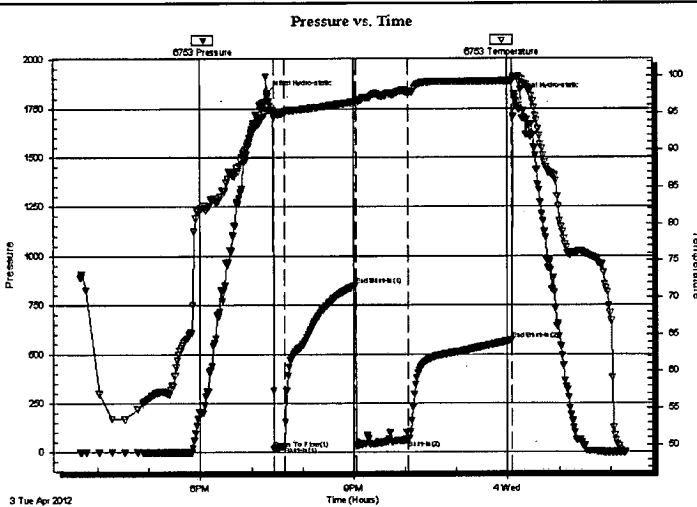
End Time:

02:17:42

Time On Btm: 2012.04.03 @ 19:18:12

Time Off Btm: 2012.04.04 @ 00:08:42

TEST COMMENT: IF-Weak surface blow
IS1-1" blow died back to weak surface
FF-3.5" blow
FS1-2" blow died back to 1"



PRESSURE SUMMARY

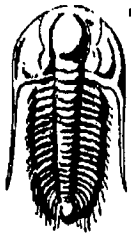
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1824.31	95.26	Initial Hydro-static
9	18.71	95.16	Open To Flow (1)
20	29.73	95.07	Shut-In(1)
104	849.63	96.47	End Shut-In(1)
105	32.19	96.33	Open To Flow (2)
166	62.28	97.81	Shut-In(2)
288	571.76	99.31	End Shut-In(2)
291	1805.25	99.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	SGO 5%G 95%O	0.35
20.00	SOCM 20%O 80%M	0.28
60.00	SOCM 10%O 90%M	0.84
0.00	75' gip	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Liberty Operations & Completions, Inc.

28-10s-17w Rooks,KS

308 W Mill
Plainville KS 67663

Ganoung A#3

Job Ticket: 47702

DST#: 1

ATTN: Tony Richardson

Test Start: 2012.04.03 @ 15:40:12

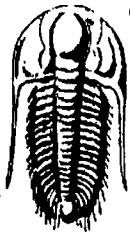
Tool Information

Drill Pipe:	Length: 3540.00 ft	Diameter: 3.80 inches	Volume: 49.66 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: 49.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3546.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	121.00 ft			
Tool Length:	141.00 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			3527.00	
Shut In Tool	5.00			3532.00	
Hydraulic tool	5.00			3537.00	
Packer	4.00			3541.00	20.00 Bottom Of Top Packer
Packer	5.00			3546.00	
Stubb	1.00			3547.00	
Perforations	3.00			3550.00	
Change Over Sub	1.00			3551.00	
Blank Spacing	92.00			3643.00	
Recorder	0.00	8319	Inside	3643.00	
Recorder	0.00	6753	Outside	3643.00	
Change Over Sub	1.00			3644.00	
Perforations	20.00			3664.00	
Bullnose	3.00			3667.00	121.00 Bottom Packers & Anchor

Total Tool Length: 141.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Liberty Operations & Completions ,Inc.

28-10s-17w Rooks,KS

308 W Mill
Plainville KS 67663

Ganoung A#3

Job Ticket: 47702

DST#: 1

ATTN: Tony Richardson

Test Start: 2012.04.03 @ 15:40:12

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:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	SGO 5%G 95%O	0.351
20.00	SOCM 20%O 80%M	0.281
60.00	SOCM 10%O 90%M	0.842
0.00	75' gip	0.000

Total Length: 105.00 ft

Total Volume: 1.474 bbl

Num Fluid Samples: 0

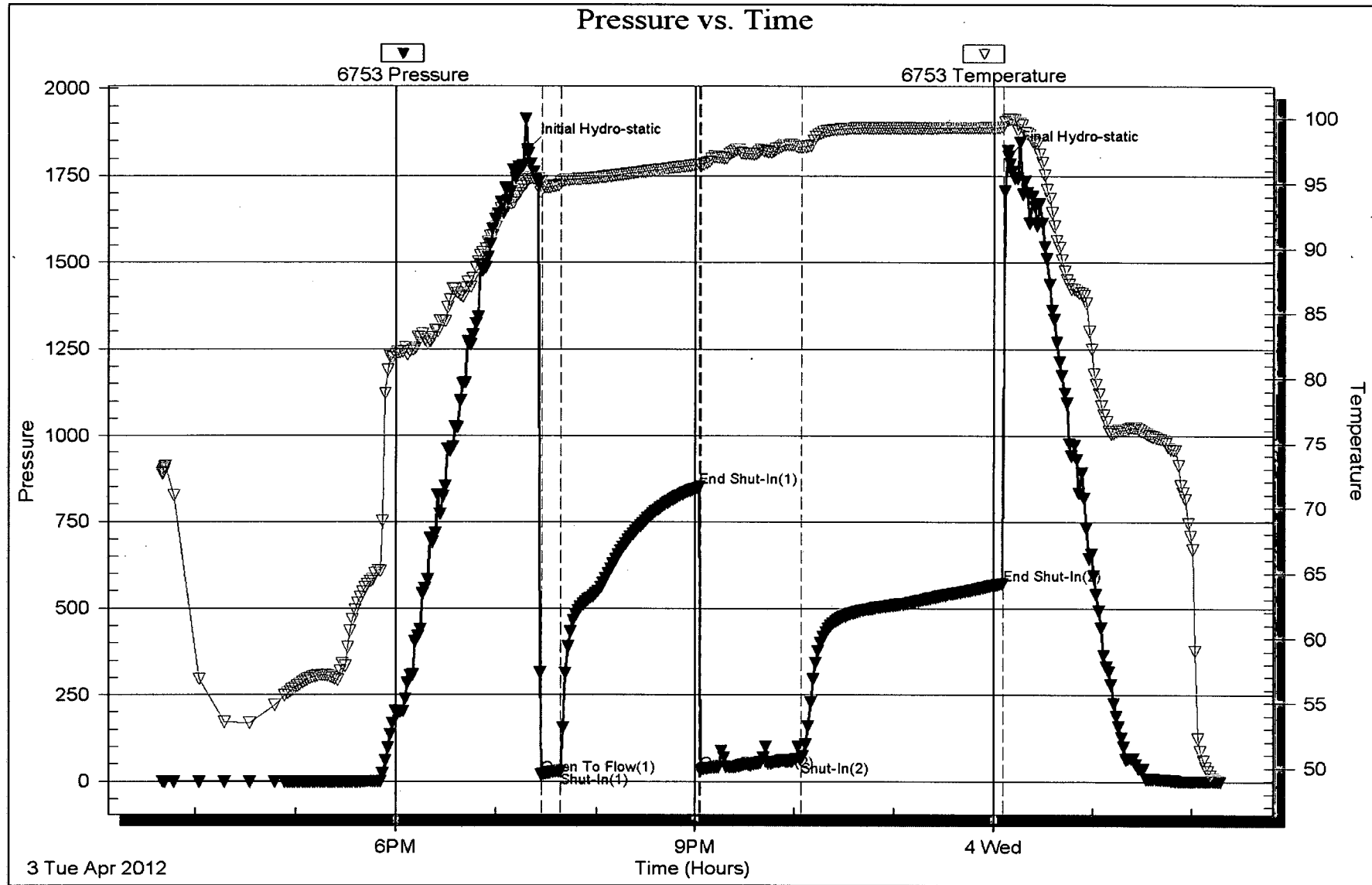
Num Gas Bombs: 0

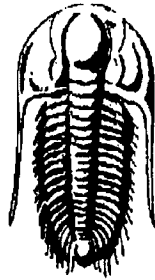
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Liberty Operations & Completions, Inc.**

308 W Mill
Plainville KS 67663

ATTN: Tony Richardson

Ganoung A#3

28-10s-17w Rooks,KS

Start Date: 2012.04.04 @ 16:05:33

End Date: 2012.04.05 @ 02:54:33

Job Ticket #: 47703 DST #: 2

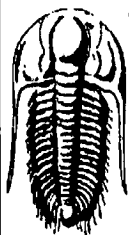
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.12 @ 08:54:37

Liberty Operations & Completions, Inc. 28-10s-17w Rooks,KS Ganoung A#3 DST # 2 Arbuckle 2012.04.04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Liberty Operations & Completions ,inc.

28-10s-17w Rooks,KS

308 W Mill
Plainville KS 67663

Ganoung A#3

Job Ticket: 47703

DST#: 2

ATTN: Tony Richardson

Test Start: 2012.04.04 @ 16:05:33

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:25:33

Time Test Ended: 02:54:33

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: **3710.00 ft (KB) To 3718.00 ft (KB) (TVD)**

Reference Elevations: 2101.00 ft (KB)

Total Depth: 3718.00 ft (KB) (TVD)

2093.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press@RunDepth: 826.03 psig @ 3715.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.04

End Date: 2012.04.05

Last Calib.: 2012.04.05

Start Time: 16:05:38

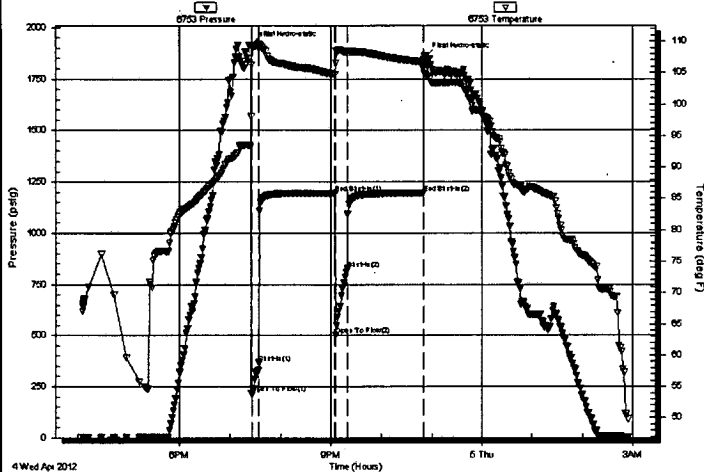
End Time: 02:54:33

Time On Btm: 2012.04.04 @ 19:24:33

Time Off Btm: 2012.04.04 @ 22:52:03

TEST COMMENT: IF-BOB in 1 min
ISI-Very weak surface blow died in 13 min
FF-BOB in 1 min
FSI-No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1914.64	93.27	Initial Hydro-static
1	217.86	98.07	Open To Flow (1)
10	366.49	108.96	Shut-In(1)
101	1195.01	104.75	End Shut-In(1)
101	500.36	106.51	Open To Flow (2)
115	826.03	108.29	Shut-In(2)
205	1194.25	106.66	End Shut-In(2)
208	1855.22	104.71	Final Hydro-static

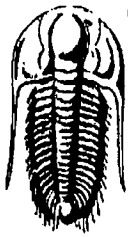
Recovery

Length (ft)	Description	Volume (bbl)
180.00	MCW 60%w 40%m	2.52
1400.00	Water	19.64

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Liberty Operations & Completions ,Inc.

28-10s-17w Rooks,KS

308 W Mill
Plainville KS 67663

Ganoung A#3

Job Ticket: 47703

DST#: 2

ATTN: Tony Richardson

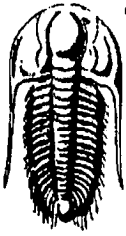
Test Start: 2012.04.04 @ 16:05:33

Tool Information

Drill Pipe:	Length: 3709.00 ft	Diameter: 3.80 inches	Volume: 52.03 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 52.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3710.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	28.00 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			3691.00	
Shut In Tool	5.00			3696.00	
Hydraulic tool	5.00			3701.00	
Packer	4.00			3705.00	20.00 Bottom Of Top Packer
Packer	5.00			3710.00	
Stubb	1.00			3711.00	
Perforations	4.00			3715.00	
Recorder	0.00	8319	Inside	3715.00	
Recorder	0.00	6753	Outside	3715.00	
Bullnose	3.00			3718.00	8.00 Bottom Packers & Anchor
Total Tool Length:	28.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Liberty Operations & Completions, Inc.

28-10s-17w Rooks, KS

308 W Mill
Plainville KS 67663

Ganoung A#3

Job Ticket: 47703

DST#: 2

ATTN: Tony Richardson

Test Start: 2012.04.04 @ 16:05:33

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:

38000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	MCW 60%w 40%m	2.525
1400.00	Water	19.638

Total Length: 1580.00 ft Total Volume: 22.163 bbl

Num Fluid Samples: 0

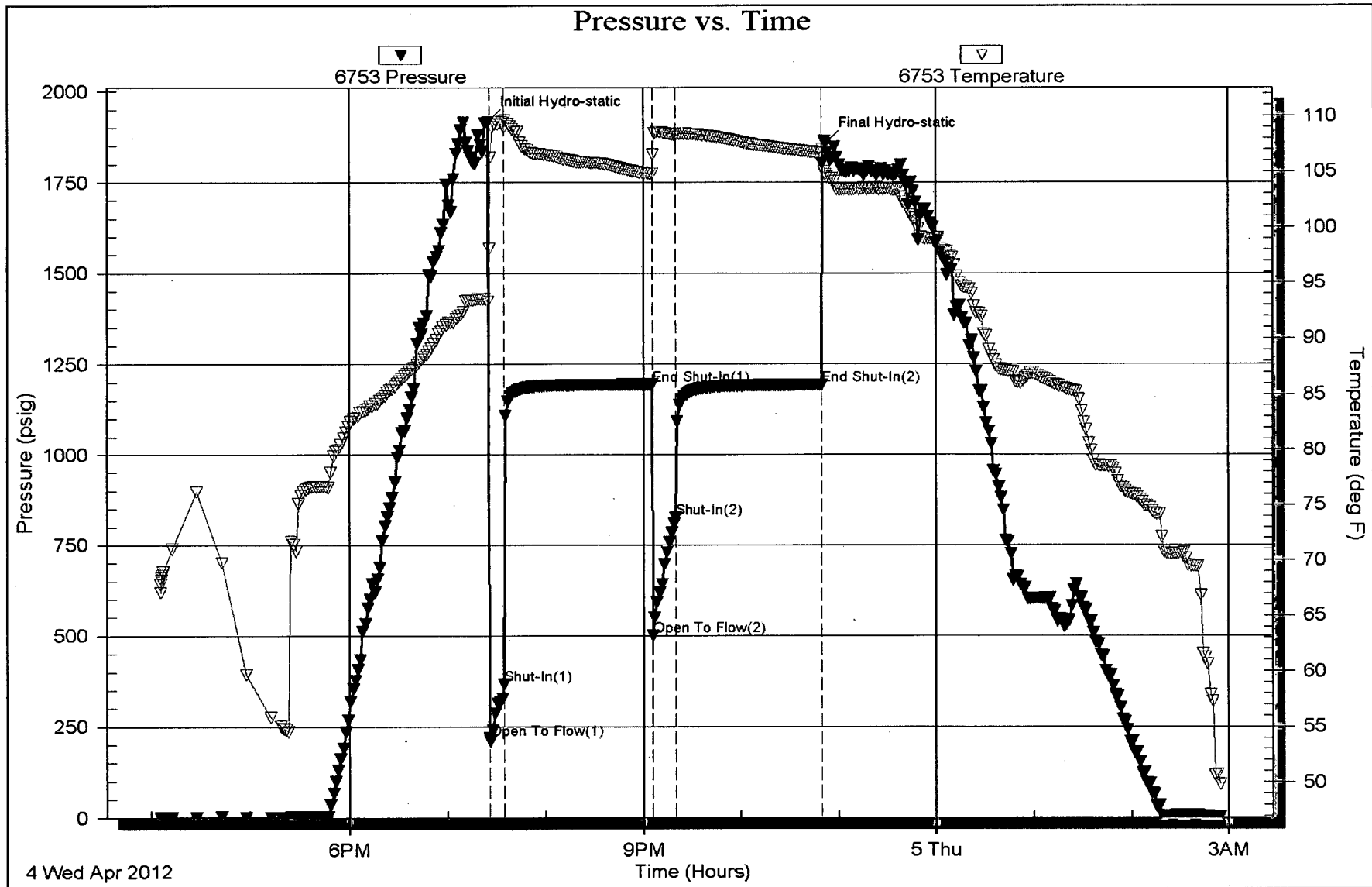
Num Gas Bombs: 0

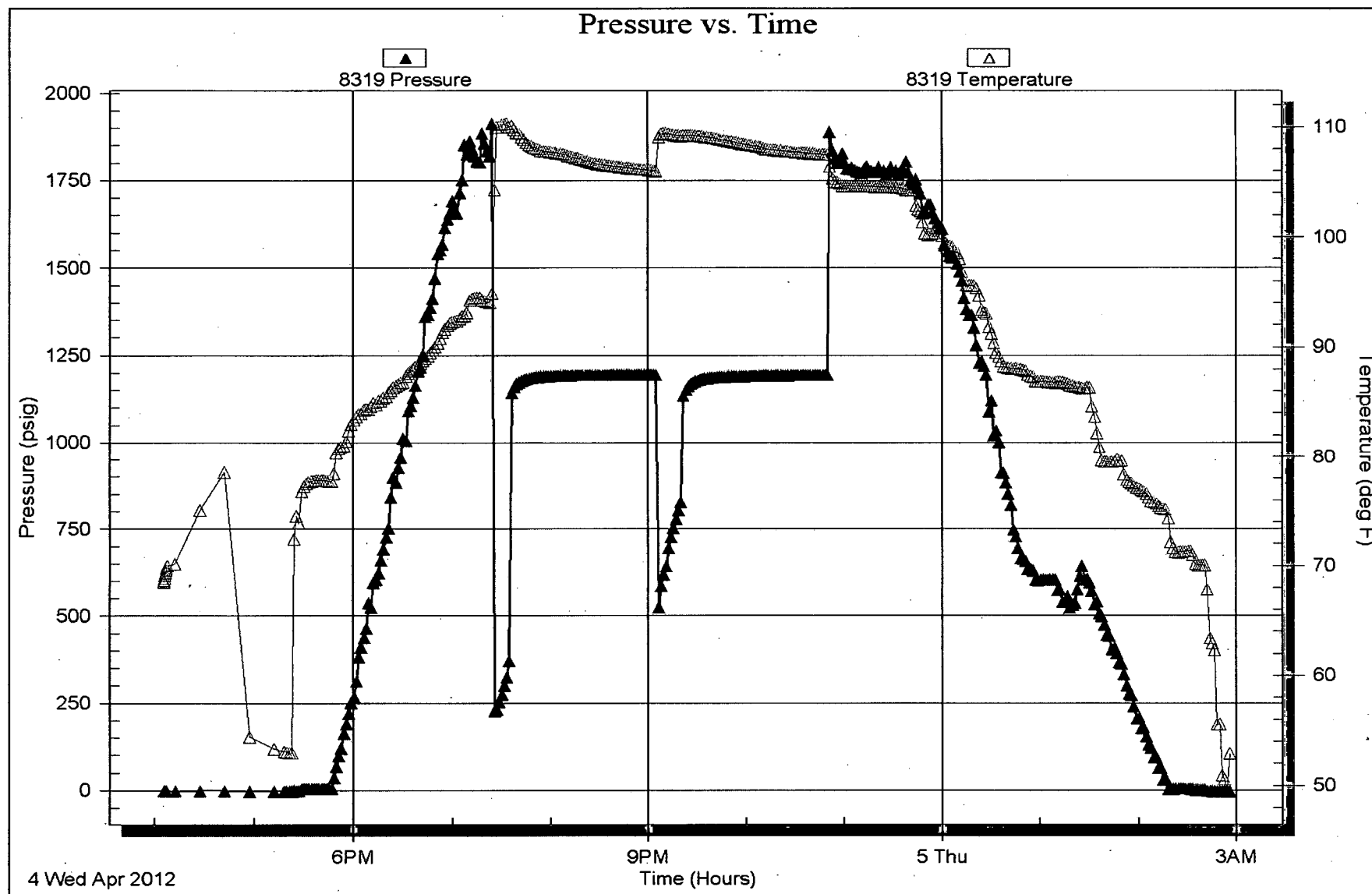
Serial #:

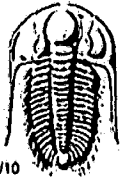
Laboratory Name:

Laboratory Location:

Recovery Comments: RW.28 @50







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 09 2012

Test Ticket

NO. 47702

BY: _____

Well Name & No. Gaming A #3 Test No. 1 Date 4/13/12

Company Liberty Oper & Compl, Inc Elevation 2101 KB 2093 GL

Address 308 W Mill Plainville KS 67663

Co. Rep / Geo. Tom Richardson Rlg Tornado #1

Location: Sec. 28 Twp. 10 Rge. 17 Co. Roots State KS

Interval Tested 3546 - 3667 Zone Tested cong

Anchor Length 121 Drill Pipe Run 3540 Mud Wt. 9

Top Packer Depth 3541 Drill Collars Run _____ Vis 46

Bottom Packer Depth 3546 Wt. Pipe Run _____ WL 9.6

Total Depth 3667 Chlorides 8,000 ppm System LCM 1 1/2

Blow Description IF - near surface blow

ISL - lin blow died back to west surface

FF - 3 1/2 in blow

PSL - 2 in blow died back to lin

Rec	Feet of	%gas	%oil	%water	%mud
25 <u>25</u>	Feet of <u>SGO</u>	<u>5</u>	<u>95</u>		
20 <u>20</u>	Feet of <u>SOCM</u>		<u>20</u>		<u>80</u>
60 <u>60</u>	Feet of <u>SOCM</u>		<u>10</u>		<u>90</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 105 BHT 99 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1824 Test 1125 T-On Location 14:50

(B) First Initial Flow 19 Jars _____ T-Started 15:40

(C) First Final Flow 30 Safety Joint _____ T-Open 19:25

(D) Initial Shut-In 850 Circ Sub _____ T-Pulled 00:05

(E) Second Initial Flow 32 Hourly Standby 25hr 250 T-Out 2:15

(F) Second Final Flow 67 Mileage 30x2 8100 Comments _____

(G) Final Shut-In 572 Sampler _____

(H) Final Hydrostatic 1805 Straddle _____ Ruined Shale Packer _____

Initial Open 10 Shale Packer _____ Ruined Packer _____

Initial Shut-In 90 Extra Packer _____ Extra Copies _____

Final Flow 60 Extra Recorder _____ Sub Total 0

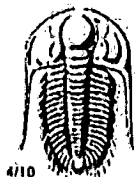
Final Shut-In 120 Day Standby _____ Total 1459

Accessibility _____ MP/DST Disc't _____

Sub Total 1459

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.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 09 2012
BY: _____

Test Ticket

NO. 47703

Well Name & No. Gannong A #3 Test No. 2 Date 4/4/12
 Company Liberty Oper & Compl, Inc Elevation 2101 KB 2095 GL
 Address 308 W Mill Plainville KS 67663
 Co. Rep / Geo. Tony Richardson Rig Tornado #1
 Location: Sec. 28 Twp. 10 Rge. 17 Co. Rooks State KS

Interval Tested 3710 - 3718 Zone Tested Arb
 Anchor Length 8 Drill Pipe Run 3709 Mud Wt. 9
 Top Packer Depth 3705 Drill Collars Run — Vis 46
 Bottom Packer Depth 3710 Wt. Pipe Run — WL 9.6
 Total Depth 3718 Chlorides 8,000 ppm System LCM 1 1/2
 Blow Description FF - BOB in 1 min
F51 - very weak surface blow died in 13 min
FF - BOB in 1 min
F52 - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>MCW</u>		<u>60</u>	<u>40</u>	
<u>1400</u>	<u>water</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1580 BHT 107 Gravity API RW .28 @ 50 °F Chlorides 38,000 ppm
 (A) Initial Hydrostatic 1,915 Test 1125 T-On Location 15:30
 (B) First Initial Flow 218 Jars _____ T-Started 16:05
 (C) First Final Flow 366 Safety Joint _____ T-Open 19:20
 (D) Initial Shut-In 1,193 Circ Sub _____ T-Pulled 22:45
 (E) Second Initial Flow 500 Hourly Standby 2 1/4 hrs 225 T-Out 2:50
 (F) Second Final Flow 826 Mileage 30x2x2 168 Comments _____
 (G) Final Shut-In 1,194 Sampler _____
 (H) Final Hydrostatic 1,853 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1518

Initial Open 10
 Initial Shut-In 90
 Final Flow 15
 Final Shut-In 90

Sub Total 0
 Total 1518
 MP/DST Disc'l _____

Approved By _____

Our Representative Butt

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.

ALLIED OIL & GAS SERVICES, LLC 056378

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

SERVICE POINT: Ducell

DATE <u>4-6-2012</u>	SEC <u>28</u>	TWP. <u>10S</u>	RANGE <u>17W</u>	CALLED OUT	ON LOCATION	JOB START <u>3:30 AM</u>	JOB FINISH <u>5:30 PM</u>
LEASE <u>Sanco #110</u>	WELL # <u>A-3</u>	LOCATION <u>Plainville, KS 3N3E22S</u>			COUNTY <u>ROCKS</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Townsend Rig #1
 TYPE OF JOB Production String (D-V)
 HOLE SIZE T.D.
 CASING SIZE 5 1/2 A DEPTH 3770
 TUBING SIZE 1 5/8 REG DEPTH 3770
 DRILL PIPE 2 3/8 Surface 221 DEPTH
 TOOL DV Tool DEPTH 12 @ 1300
 PRES. MAX/ATCH Down Plug MINIMUM 3770
 MEAS. LINE
 CEMENT LEFT IN CSG. 23 SHOE JOINT 23
 PERFS.
 DISPLACEMENT 89 1/2 BBL 28 1/2 BBL

OWNER
 CEMENT
 AMOUNT ORDERED 150 ex Cem, 100 Salt 28 BBL
425 SX 5/8 1 1/2 Gel 4" F10 Sool
500 Gal. WFR 2" mud flush
 COMMON 50 + 255 (405) @ 16.25
 POZMIX 170 @ 8.50
 GEL 2 + 22 (24) @ 21.25
 CHLORIDE @
 ASC @
 F10 Sool 100 LBS @ 2.70
 SALT 16 SX @ 23.95

EQUIPMENT
 PUMP TRUCK CEMENTER Glenn G.
 # 417 HELPER Robert Y.
 BULK TRUCK
 # 410 DRIVER Chris G.
 BULK TRUCK
 # 473 DRIVER Cody H.

HANDLING TOTAL SX @ 2.25
 MILEAGE 55 Tru Mile @ 11.4
 TOTAL

REMARKS: DV Tool on #61
Run 89 joints of Hard 5 1/2 S&S. of Shoe JT. 23.64
Set @ 3770 Running Production Pipe 1 HR
Pump Flush Cemented 150 ex Class Line Release
1 1/2" DV Plug + Displace 29 BBL. Land 1900'
PROP DORT. 20" DV Tool Joint. Circ. 1/2 HR. Mix
40 SX 5/8. Release EP Plug. + Displace
28 1/2 BBL. Land @ 2000' to close DV Tool.
Cement did circulate to
SURFACE

SERVICE
 DEPTH OF JOB
 PUMP TRUCK CHARGE
 EXTRA FOOTAGE @
 MILEAGE 55 H Y ME @
 MANIFOLD @
55 L Y ME @

CHARGE TO: Liberty Oil Operations
 STREET
 CITY STATE ZIP

TOTAL

Cement did circulate to surface!
 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.

PLUG & FLOAT EQUIPMENT
 W 1- Guide Shoe @
 W 2- Basket @
 W 5- Centralizers @
 FR 1- DV Tool @
 IR 1- Latch Down Aug Assy @
 TOTAL

PRINTED NAME
 SIGNATURE Ryan Klein

SALES TAX (if Any)
 TOTAL CHARGES
 DISCOUNT IF PAID IN 30 DAYS