



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1171702
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: _____



1171702

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---------------------------------------------------------------------

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: _____ _____
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------

Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	Bentley 36-3
Doc ID	1171702

Tops

Name	Top	Datum
Top Anhydrite	1988	+564
Base Anhydrite	2019	+533
Heebner	3734	-1182
Lansing	3770	-1218
Stark	4025	-1473
BKC	4089	-1537
Fort Scott	4277	-1725
Mississippi	4396	-1844

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

December 05, 2013

Charles Ramsay
H & C Oil Operating Inc.
PO BOX 86
PLAINVILLE, KS 67663-0086

Re: ACO1
API 15-063-22152-00-00
Bentley 36-3
SW/4 Sec.36-15S-28W
Gove 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,
Charles Ramsay

COMPANY: H+C Oil Drilling, Inc.
WELL: Bentley # 34-3
FIELD: Wildcat

LOCATION: 2188 FSL & 1888 FUL
SEC.: 36 **TWP.:** 15S **RGE.:** 28W
COUNTY: Gove
STATE: Kansas

OPERATOR: H+C Oil Drilling, Inc.
CONTRACT NO.: HZ Drilling - Aug #1
COMM.: 11-15-13
COMPL.: 11-21-13

CASING RECORD:
SURF: 458' @ 246' PROD: None
TOTAL DEPTH DRILLERS: 4450
TOTAL DEPTH LOG: 4451

FORMATION TOPS AND STRUCTURAL POSITION:

FORMATION	SHAPE TOP	ELECTRIC LOG TOP	SUB-SEA DRYUM	STRUCTURAL POSITION
Top Anhydrite	1986	1986	+564	-9
Base Anhydrite	2019	2019	+533	-6
Heebner	3133	3134	-1182	+3
Leaning	3770	3770	-1218	+3
Stark	4024	4024	-1413	+3
Fort Scott	4278	4278	-1531	+3
Miss	4394	4394	-1723	-1
			-1844	-21

REFERENCE WELL FOR STRUCTURE: H+C Oil Drilling, Inc.
 Bentley # 34-2 500' FSL & 1780' FUL
 Sec. 36-15S-28W

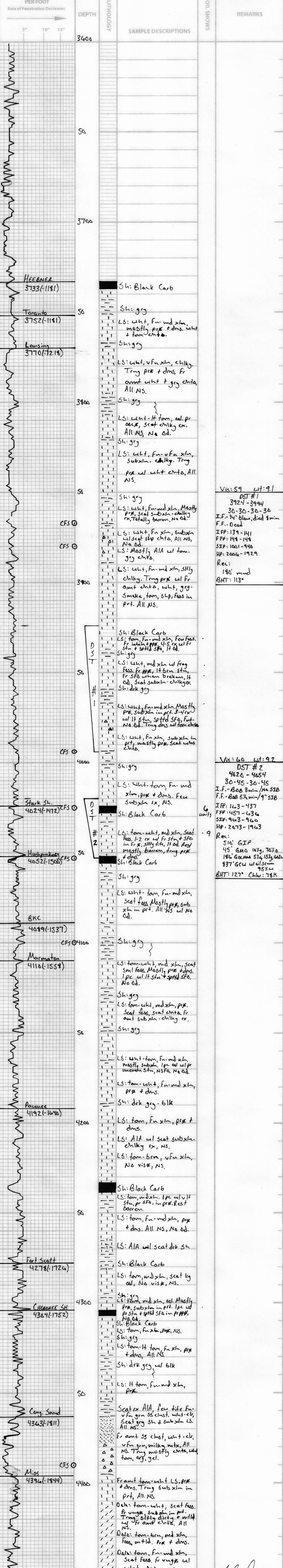
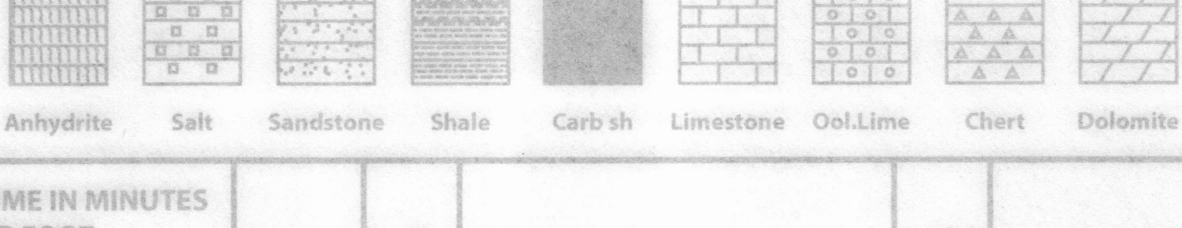
DRILL STEM TESTS

No.	Interval	IPP/Time	ISP/Time	FP/Time	SEP/Time	IPP-RIP	RECOVERY

REMARKS AND RECOMMENDATIONS:
 Due to structural position, DST recovery, & log evaluation, it was decided to plug & abandon the well.

Melan Downing

LEGEND





DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating ,Inc**

PO Box 86
Plainville ,KS 67663

ATTN: Marc Downing

Bentley #36-3

36-15s-28w Gove,KS

Start Date: 2013.11.18 @ 20:35:50

End Date: 2013.11.19 @ 03:15:50

Job Ticket #: 54664 DST #: 1

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

Printed: 2013.11.22 @ 09:48:51



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating ,Inc

36-15s-28w Gove,KS

PO Box 86
Plainville ,KS 67663

Bentley #36-3

Job Ticket: 54664

DST#: 1

ATTN: Marc Downing

Test Start: 2013.11.18 @ 20:35:50

GENERAL INFORMATION:

Formation: **H-I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:30:20
 Time Test Ended: 03:15:50
 Interval: **3924.00 ft (KB) To 3994.00 ft (KB) (TVD)**
 Total Depth: 3994.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2552.00 ft (KB)
 2541.00 ft (CF)
 KB to GR/CF: 11.00 ft

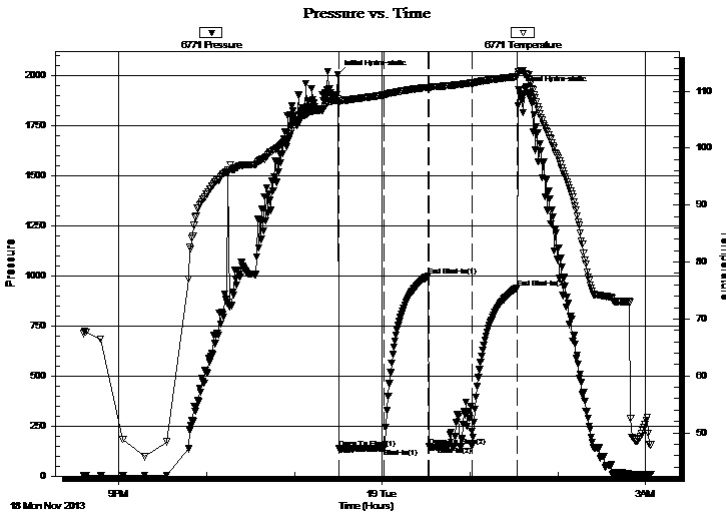
Serial #: 6771

Inside

Press@RunDepth: 148.58 psig @ 3925.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.18 End Date: 2013.11.19 Last Calib.: 2013.11.19
 Start Time: 20:35:50 End Time: 03:03:50 Time On Btm: 2013.11.18 @ 23:29:35
 Time Off Btm: 2013.11.19 @ 01:33:05

TEST COMMENT: 1/4" blow died in 8 min. hole sticky betw een 1345-1550
 No return
 No blow
 No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2006.77	108.59	Initial Hydro-static
1	139.09	107.87	Open To Flow (1)
32	141.15	109.34	Shut-In(1)
62	1001.69	110.70	End Shut-In(1)
63	148.22	110.47	Open To Flow (2)
92	148.58	111.36	Shut-In(2)
123	940.81	112.54	End Shut-In(2)
124	1929.23	113.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	mud	0.89

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

H&C Oil Operating ,Inc

36-15s-28w Gove,KS

PO Box 86
Plainville ,KS 67663

Bentley #36-3

Job Ticket: 54664

DST#: 1

ATTN: Marc Downing

Test Start: 2013.11.18 @ 20:35:50

GENERAL INFORMATION:

Formation: **H-I**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: **23:30:20**
 Time Test Ended: **03:15:50**
Interval: 3924.00 ft (KB) To 3994.00 ft (KB) (TVD)
 Total Depth: **3994.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches**Hole Condition: Fair

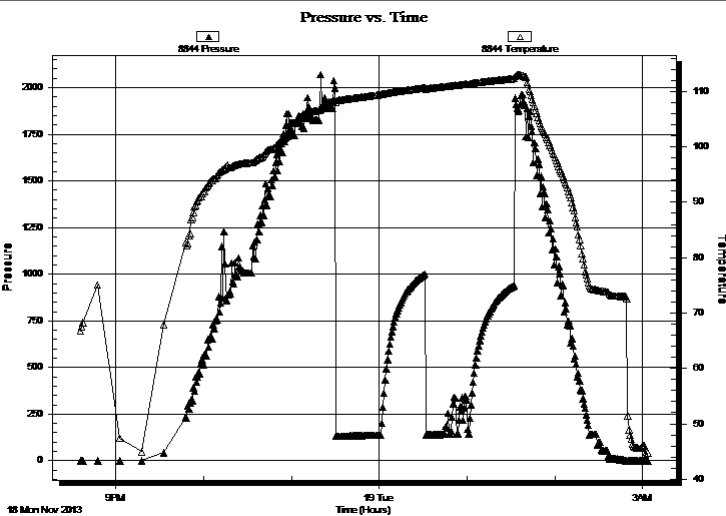
Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Shane McBride**
 Unit No: **55**
 Reference Elevations: **2552.00 ft (KB)**
2541.00 ft (CF)
 KB to GR/CF: **11.00 ft**

Serial #: 8844

Outside

Press@RunDepth: psig @ 3925.00 ft (KB)
 Start Date: 2013.11.18 End Date: 2013.11.19
 Start Time: 20:35:54 End Time: 03:03:39
 Capacity: 8000.00 psig
 Last Calib.: 2013.11.19
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 1/4" blow died in 8 min. hole sticky betw een 1345-1550
 No return
 No blow
 No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
180.00	mud	0.89

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating ,Inc

36-15s-28w Gove,KS

PO Box 86
Plainville ,KS 67663

Bentley #36-3

Job Ticket: 54664

DST#: 1

ATTN: Marc Downing

Test Start: 2013.11.18 @ 20:35:50

Tool Information

Drill Pipe:	Length: 3648.00 ft	Diameter: 3.80 inches	Volume: 51.17 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 275.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 52.52 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	61000.00 lb
Depth to Top Packer:	3924.00 ft			Final	61000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	70.00 ft				
Tool Length:	90.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3905.00	
Shut In Tool	5.00			3910.00	
Hydraulic tool	5.00			3915.00	
Packer	5.00			3920.00	20.00 Bottom Of Top Packer
Packer	4.00			3924.00	
Stubb	1.00			3925.00	
Recorder	0.00	6771	Inside	3925.00	
Recorder	0.00	8844	Outside	3925.00	
Perforations	30.00			3955.00	
Change Over Sub	1.00			3956.00	
Drill Pipe	32.00			3988.00	
Change Over Sub	1.00			3989.00	
Bullnose	5.00			3994.00	70.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating ,Inc

36-15s-28w Gove,KS

PO Box 86
Plainville ,KS 67663

Bentley #36-3

Job Ticket: 54664

DST#: 1

ATTN: Marc Downing

Test Start: 2013.11.18 @ 20:35:50

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	mud	0.885

Total Length: 180.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 0

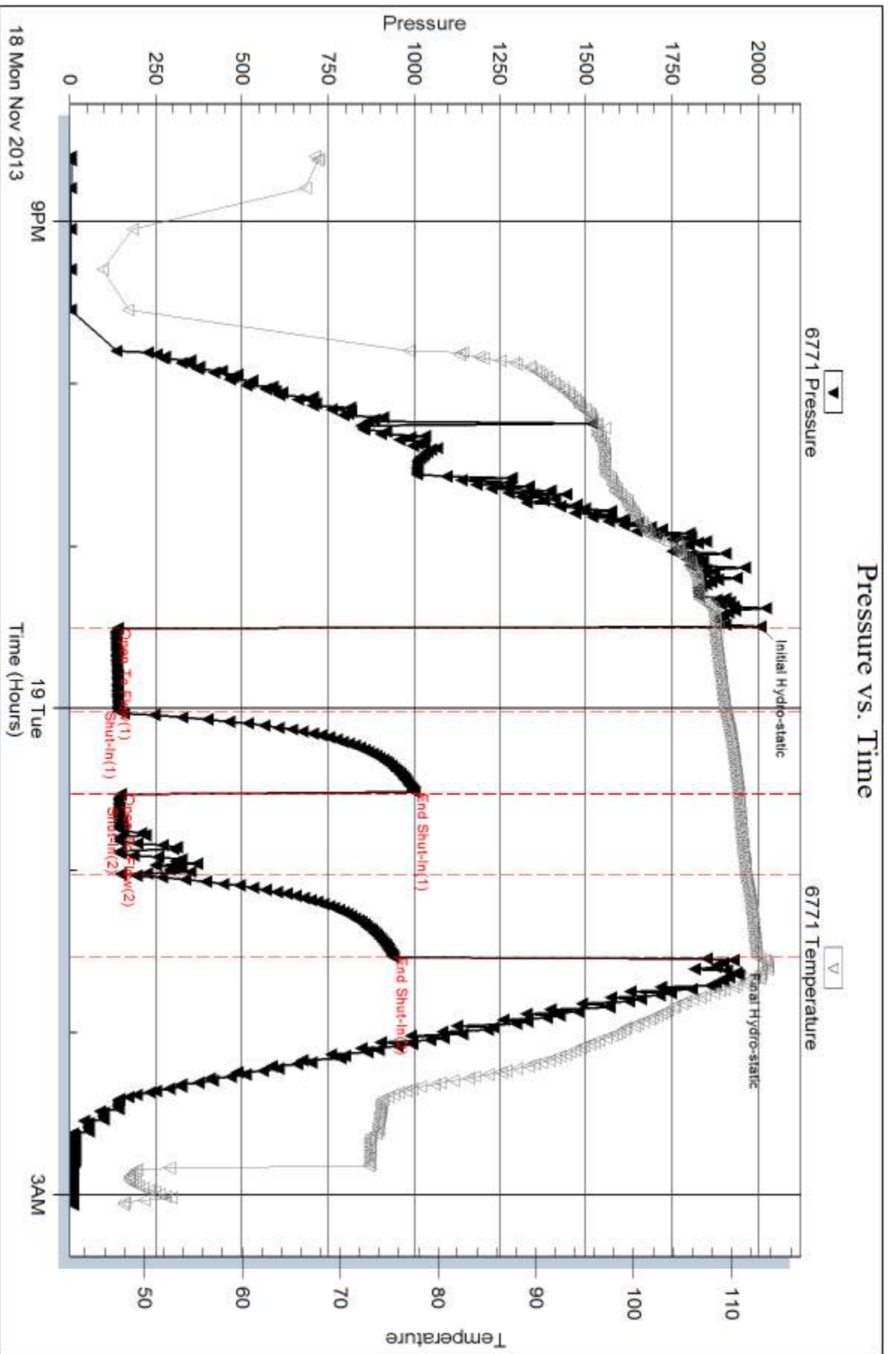
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: hole sticky betw een 1345- 1550

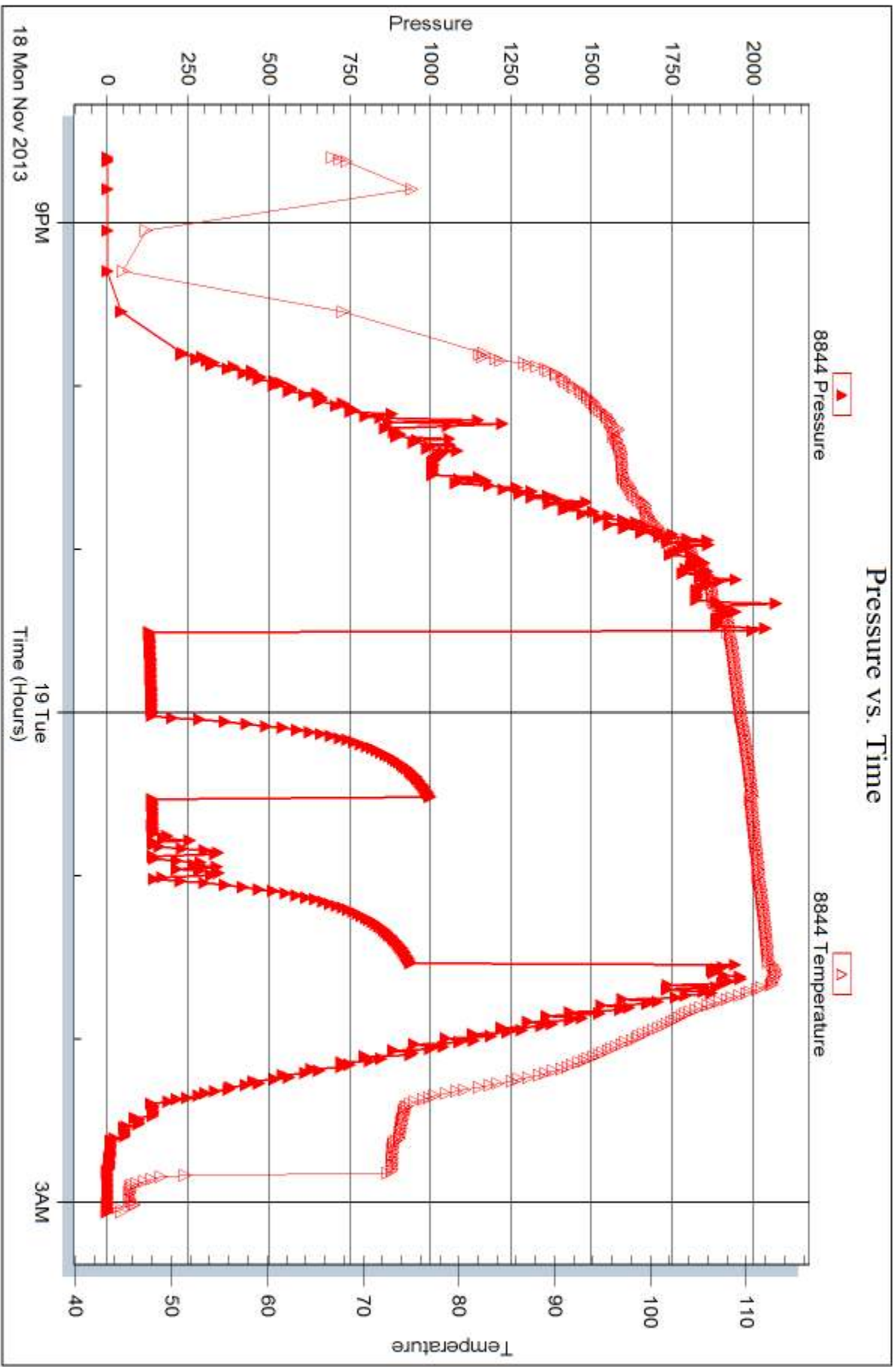


Serial #: 8844

Outside H&C Oil Operating, Inc

Bentley #36-3

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 54664

Printed: 2013.11.22 @ 09:48:54



DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating ,Inc**

PO Box 86
Plainville ,KS 67663

ATTN: Marc Downing

Bentley #36-3

36-15s-28w Gove,KS

Start Date: 2013.11.19 @ 14:05:51

End Date: 2013.11.19 @ 21:40:21

Job Ticket #: 54665 DST #: 2

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

Printed: 2013.11.22 @ 09:48:13



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H&C Oil Operating ,Inc

36-15s-28w Gove,KS

PO Box 86
Plainville ,KS 67663

Bentley #36-3

Job Ticket: 54665

DST#: 2

ATTN: Marc Downing

Test Start: 2013.11.19 @ 14:05:51

GENERAL INFORMATION:

Formation: **K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:21:36
 Time Test Ended: 21:40:21
 Interval: **4020.00 ft (KB) To 4054.00 ft (KB) (TVD)**
 Total Depth: 4054.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2552.00 ft (KB)
 2541.00 ft (CF)
 KB to GR/CF: 11.00 ft

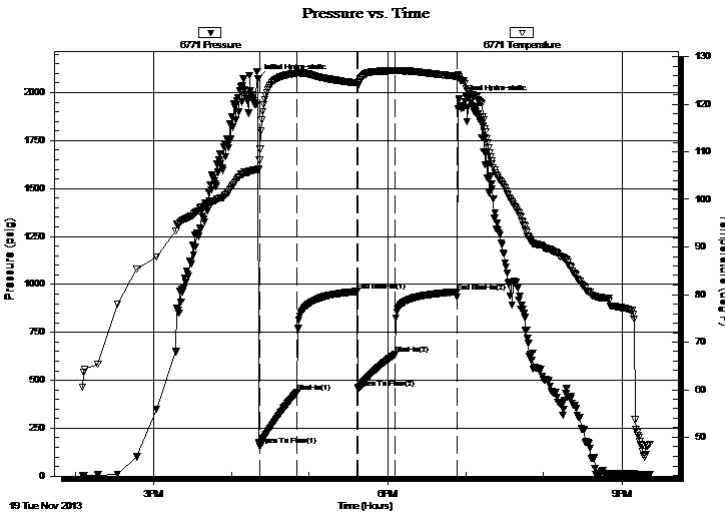
Serial #: 6771

Inside

Press@RunDepth: 636.07 psig @ 4021.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.19 End Date: 2013.11.19 Last Calib.: 2013.11.19
 Start Time: 14:05:51 End Time: 21:21:21 Time On Btm: 2013.11.19 @ 16:20:36
 Time Off Btm: 2013.11.19 @ 18:54:51

TEST COMMENT: B.O.B. in 3 min.
 No return
 B.O.B. in 5 1/2 min
 9" return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2073.62	106.30	Initial Hydro-static
1	163.61	108.20	Open To Flow (1)
30	437.14	126.48	Shut-In(1)
76	963.39	124.44	End Shut-In(1)
77	457.39	124.06	Open To Flow (2)
106	636.07	127.02	Shut-In(2)
153	960.40	125.89	End Shut-In(2)
155	1963.62	125.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
837.00	s g w w/oil scum 5g 95w	9.24
186.00	g s o c m w 15g 5o 20m 60w	2.61
45.00	g m c o 10g 20m 70o	0.63
0.00	510' gas in pipe	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

H&C Oil Operating ,Inc

36-15s-28w Gove,KS

PO Box 86
Plainville ,KS 67663

Bentley #36-3

Job Ticket: 54665

DST#: 2

ATTN: Marc Downing

Test Start: 2013.11.19 @ 14:05:51

GENERAL INFORMATION:

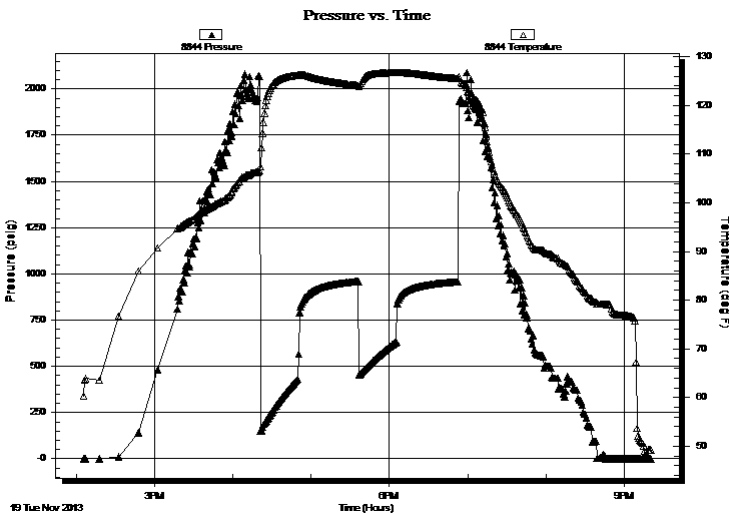
Formation: **K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:21:36
 Time Test Ended: 21:40:21
 Interval: **4020.00 ft (KB) To 4054.00 ft (KB) (TVD)**
 Total Depth: 4054.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 2552.00 ft (KB)
 2541.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8844 Outside

Press@RunDepth: psig @ 4021.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.19 End Date: 2013.11.19 Last Calib.: 2013.11.19
 Start Time: 14:05:34 End Time: 21:20:49 Time On Btm:
 Time Off Btm:

TEST COMMENT: B.O.B. in 3 min.
 No return
 B.O.B. in 5 1/2 min
 9" return blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
837.00	s g w w/oil scum 5g 95w	9.24
186.00	g s o c m w 15g 5o 20m 60w	2.61
45.00	g m c o 10g 20m 70o	0.63
0.00	510' gas in pipe	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating ,Inc

36-15s-28w Gove,KS

PO Box 86
Plainville ,KS 67663

Bentley #36-3

Job Ticket: 54665

DST#: 2

ATTN: Marc Downing

Test Start: 2013.11.19 @ 14:05:51

Tool Information

Drill Pipe:	Length: 3747.00 ft	Diameter: 3.80 inches	Volume: 52.56 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 275.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 53.91 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	4020.00 ft			Final	69000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 ft				
Tool Length:	54.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4001.00	
Shut In Tool	5.00			4006.00	
Hydraulic tool	5.00			4011.00	
Packer	5.00			4016.00	20.00 Bottom Of Top Packer
Packer	4.00			4020.00	
Stubb	1.00			4021.00	
Recorder	0.00	6771	Inside	4021.00	
Recorder	0.00	8844	Outside	4021.00	
Perforations	28.00			4049.00	
Bullnose	5.00			4054.00	34.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating ,Inc

36-15s-28w Gove,KS

PO Box 86
Plainville ,KS 67663

Bentley #36-3

Job Ticket: 54665

DST#: 2

ATTN: Marc Downing

Test Start: 2013.11.19 @ 14:05:51

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

78000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
837.00	s g w w /oil scum 5g 95w	9.236
186.00	g s o c m w 15g 5o 20m 60w	2.609
45.00	g m c o 10g 20m 70o	0.631
0.00	510' gas in pipe	0.000

Total Length: 1068.00 ft Total Volume: 12.476 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

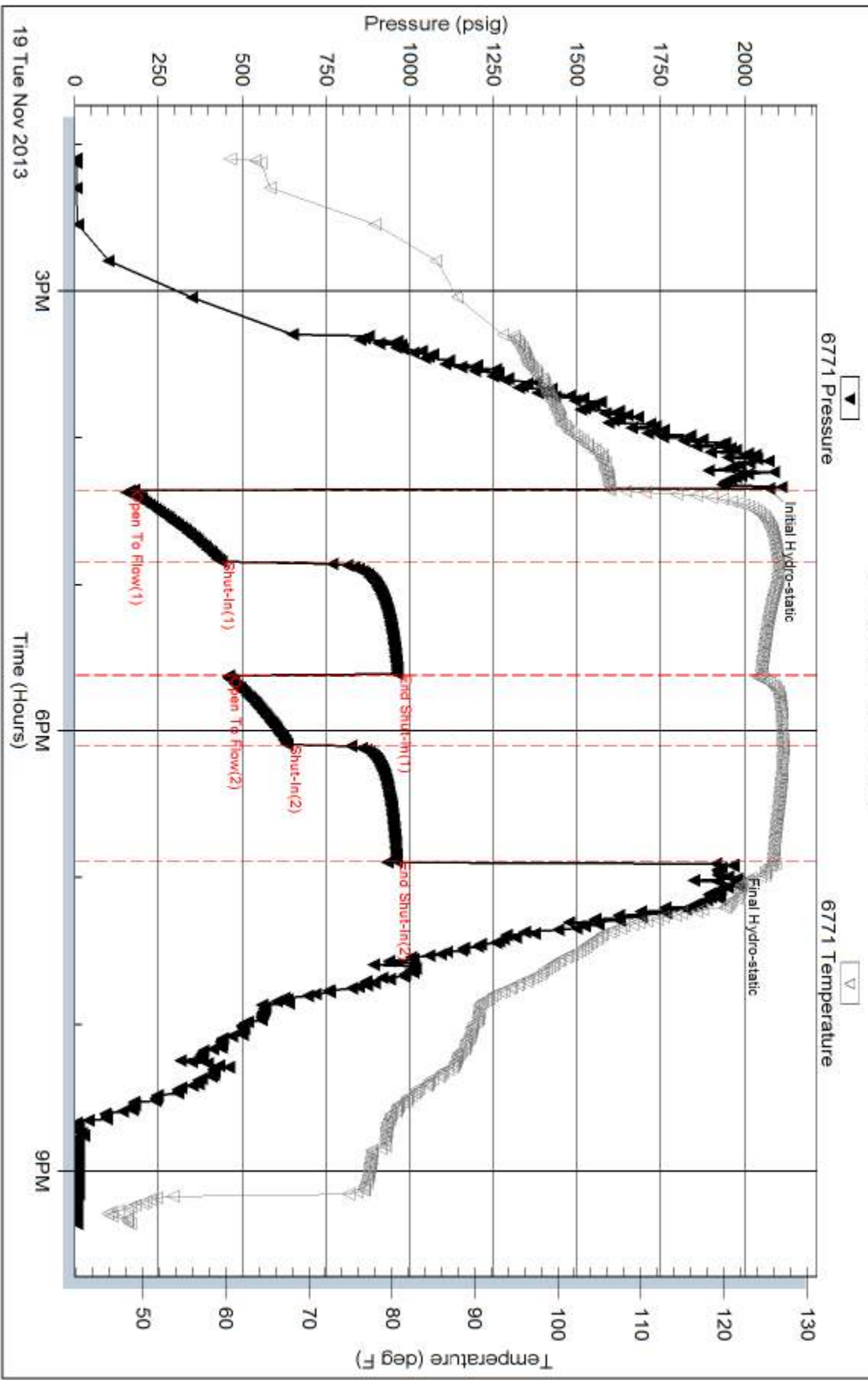
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .120 @ 57*f = 78,000 chlor

Pressure vs. Time

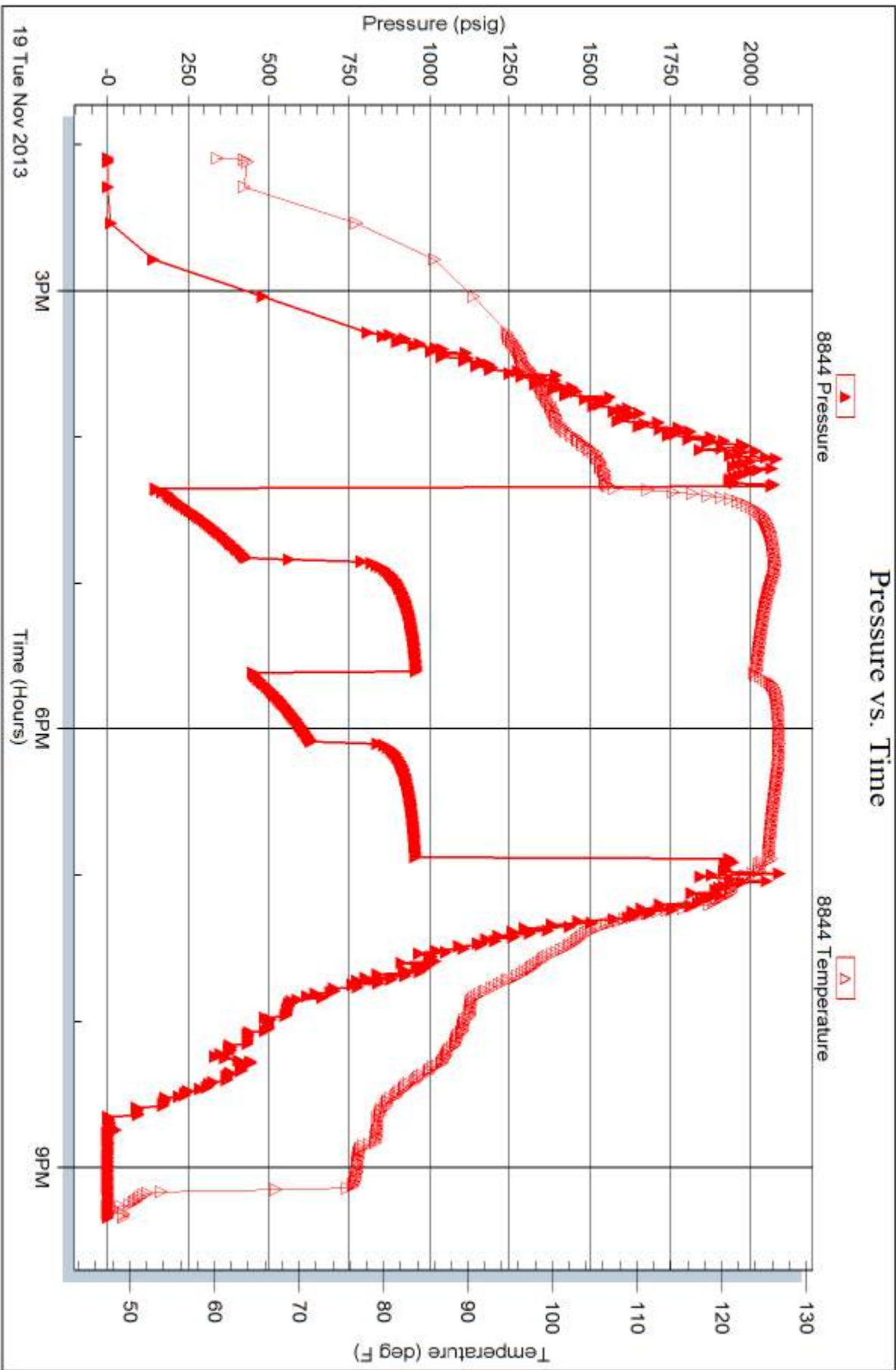


Serial #: 8844

Outside H&C Oil Operating, Inc

Bentley #36-3

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 54665

Printed: 2013.11.22 @ 09:48:15



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54664

Well Name & No. Bentley #36-3 Test No. #1 Date 11/19/13
 Company H3 C Oil Operating Inc. Elevation 2552 KB 2541 GL
 Address P.O. Box 86 Plainsville, Ks 67463
 Co. Rep / Geo. Marc Downing Rig H2 #1
 Location: Sec. 36 Twp. 15S Rge. 28W Co. Gove State Ks

Interval Tested 3924 3994 Zone Tested H-I
 Anchor Length 70 Drill Pipe Run 3048' Mud Wt. 9.1
 Top Packer Depth 3919 Drill Collars Run 275' Vis 59
 Bottom Packer Depth 3924 Wt. Pipe Run --- WL 7.2
 Total Depth 3994 Chlorides 3000 ppm System LCM #2

Blow Description 1/4" blow died in 8 min
No return
No blow
No return
Hole Sticky Between 1345' - 1550'

Rec	Feet of	%gas	%oil	%water	%mud
<u>180'</u>	<u>Mud</u>			<u>100</u>	

Rec Total 180' BHT 113° Gravity --- API RW --- @ ---° F Chlorides --- ppm

(A) Initial Hydrostatic 2006 Test 1150 T-On Location 19:45
 (B) First Initial Flow 139 Jars _____ T-Started 20:35
 (C) First Final Flow 141 Safety Joint _____ T-Open 23:30
 (D) Initial Shut-In 1001 Circ Sub n/c T-Pulled 01:30
 (E) Second Initial Flow 148 Hourly Standby _____ T-Out 03:15
 (F) Second Final Flow 148 Mileage 92RT 142.60
 (G) Final Shut-In 940 Sampler _____
 (H) Final Hydrostatic 1929 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1442.60
 Final Shut-In 30 Accessibility 150.00 MP/DST Disc't _____
 Sub Total 1442.60

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. **54665**

Well Name & No. Bentley #36-3 Test No. #2 Date 11/19/13
 Company H3C Oil Operating Inc Elevation 2552 KB 2541 GL
 Address P.O. Box 86 Plainsville, Ks 67663
 Co. Rep / Geol Mark Downing Rig H2 #1
 Location: Sec. 36 Twp. 13S Rge. 28W Co. Gove State Ks

Interval Tested 4020 4054 Zone Tested K
 Anchor Length 34 Drill Pipe Run 3747' Mud Wt. 9.2
 Top Packer Depth 4015 Drill Collars Run 275' Vis 60
 Bottom Packer Depth 4020 Wt. Pipe Run — WL 8.0
 Total Depth 4054 Chlorides 3000 ppm System #1 1/2

Blow Description B.O.B. in 3min
No return
B.O.B. in 5 1/2 min.
9" in Return blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>gmco</u>	<u>10</u>	<u>70</u>	<u>20</u>	<u>—</u>
<u>186</u>	<u>gsocmw</u>	<u>15</u>	<u>5</u>	<u>60</u>	<u>20</u>
<u>837</u>	<u>sgw w/oilscum</u>	<u>5</u>	<u>scum</u>	<u>9.5</u>	<u>—</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>510' gas in pipe</u>	%gas	%oil	%water	%mud

Rec Total 1068' BHT 127° Gravity — API RW .120 @ 57° F Chlorides 78,000 ppm

(A) Initial Hydrostatic <u>2073</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>13:45</u>
(B) First Initial Flow <u>1163</u>	<input type="checkbox"/> Jars	T-Started <u>14:05</u>
(C) First Final Flow <u>437</u>	<input type="checkbox"/> Safety Joint	T-Open <u>14:20</u>
(D) Initial Shut-In <u>963</u>	<input checked="" type="checkbox"/> Circ Sub <u>n/c</u>	T-Pulled <u>18:50</u>
(E) Second Initial Flow <u>457</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>21:40</u>
(F) Second Final Flow <u>636</u>	<input checked="" type="checkbox"/> Mileage <u>92RT</u> <u>142.60</u>	Comments
(G) Final Shut-In <u>960</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1963</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies

Initial Open 30
 Initial Shut-In 45
 Final Flow 20
 Final Shut-In 45

Sub Total 1600
 Total 3142.60
 MP/DST Disc't

Sub Total 1542.60

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.

ALLIED OIL & GAS SERVICES, LLC

061063

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 95999

SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Green Bay, TX

DATE	11-22-13	SEC	36	TWP	15	RANGE	28N	LOC	11W	41K	ON LOCATION	10:00pm	JOB START	3:10	JOB FINISH	11-22-13
LEASE	Ben HV Well # 3-36		LOCATION		11W 41K		COUNTY		Greene		STATE		TX			
OLD OR NEW	(Circle one)															

CONTRACTOR H2 Drilling #1 OWNER _____

TYPE OF JOB Rotary Plug

CEMENT
 AMOUNT ORDERED 225 KS 60% Class A
434ppm. 4.79 gal in flo

HOLE SIZE	T.D.	COMMON	135	@	17.90	2416.50
CASING SIZE	DEPTH	POZMIX	90	@	9.35	841.50
TUBING SIZE	DEPTH	GEL	8	@	23.90	192.20
DRILL PIPE	DEPTH	CHLORIDE		@		
TOOL	DEPTH	ASC	<u>Flo Seal</u>	@	<u>56.25</u>	<u>2.97</u>
PRES. MAX	MINIMUM			@		
MEAS. LINE	SHOE JOINT			@		
CEMENT LEFT IN CSG.	All			@		
PERFS.				@		
DISPLACEMENT	<u>fresh air</u>			@		

EQUIPMENT

PUMP TRUCK	CEMENTER	<u>Devin Chambers</u>
#	HELPER	<u>Mr. [unclear] 507 horn</u>
BULK TRUCK	DRIVER	<u>Tony Yojena</u>
#	DRIVER	

REMARKS:

Fill hole with Big Pump
1. 2010-25 SKS
2. 950-100 SKS
3. 320-40 SKS
4. 40-10 SKS
5. RH-30 SKS
6. MH-20 SKS
plug down 4:00 AA

CHARGE TO: HRC oil co

STREET _____ CITY _____ STATE _____ ZIP _____

DEPTH OF JOB	2010
PUMP TRUCK CHARGE	2483.59
EXTRA FOOTAGE	@
MILEAGE	HVM 40 @ 7.70 = 308.00
MANIFOLD	LVM 40 @ 4.40 = 176.00
TOTAL	5263.02

PLUG & FLOAT EQUIPMENT	
	@
	@
	@
	@
TOTAL	

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME X Carlos Fabella

SIGNATURE X Carlos Fabella
Thank You!!

SALES TAX (If Any)	
TOTAL CHARGES	<u>5230.01</u>
DISCOUNT	<u>-1046.12</u>
	<u>\$4,183.89</u>

IF PAID IN 30 DAYS

ALLIED OIL & GAS SERVICES, LLC 061959

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Crown Beach

DATE	11-14-13	SEC#	36	TWP.	15	RANGE	28	CALLED OUT		ON LOCATION		JOB START		JOB FINISH	
LEASE	Bentley	WELL #	36-3	LOCATION	11/12 EST water	1 1/2 W, NW						COUNTY	Polk	STATE	IA
OLD OR NEW	(Circle one)														

CONTRACTOR HZ OWNER _____
 TYPE OF JOB Surface
 HOLE SIZE 2 1/8 I.D. _____
 CASING SIZE 8 3/8 DEPTH 2657.91
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 2 1/2 DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15 FF
 PERFS. _____
 DISPLACEMENT 15.92

CEMENT
 AMOUNT ORDERED 160 SK Class A
3 SK Class B
 COMMON 160 @ 17.90 2.864.00
 POZMIX _____ @ _____
 GEL 3 @ 23.40 70.20
 CHLORIDE 451 @ .80 360.80
 ASC _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING 172.99 @ 2.48 429.91
 MILEAGE 7.87 X 30 X 2.60 615.42
 TOTAL 4.337.42

EQUIPMENT
 PUMP TRUCK CEMENTER & helper
 # 306 HELPER Ben Moore
 BULK TRUCK
 # 610-241 DRIVER Jimmy Tijerina
 BULK TRUCK DRIVER

REMARKS:
Am 8/8 Casdag
Pre-circulation w/ Pig and
Pump 5 bbl Restwater
Pump 160 SK Class A Cement
Displace 15.92 bbl Freshwater
Substit
Cement did circulate
Pig down

SERVICE
 DEPTH OF JOB 265.91
 PUMP TRUCK CHARGE 1512.35
 EXTRA FOOTAGE @ _____
 MILEAGE Hum 30 @ 7.70 231.00
 MANIFOLD Lum 30 @ 4.40 132.00
 _____ @ _____
 _____ @ _____
 TOTAL 1.875.25

CHARGE TO: HFL Oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL _____

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) _____
 TOTAL CHARGES 6.214.68
 DISCOUNT 1.740.11 IF PAID IN 30 DAYS
4.474.56

PRINTED NAME X Carlos Fabela
 SIGNATURE X Carlos Fabela
Thane 1/0/14