

Operator Name: Carrie Exploration and Development Lease Name: Worcester SE Well #: 2
 Sec. 16 Twp. 7 S. R. 22 East West County: Graham

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 copy of all Electric Wireline 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 type="checkbox"/> Yes <input checked="" 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 <i>(Submit Copy)</i> List All E. Logs Run: Dual Induction; Density-Neutron	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1958</td> <td>371</td> </tr> <tr> <td>B/Anhydrite</td> <td>1990</td> <td>339</td> </tr> <tr> <td>Topeka</td> <td>3316</td> <td>-987</td> </tr> <tr> <td>Heebner</td> <td>3519</td> <td>-1190</td> </tr> <tr> <td>Lansing</td> <td>3558</td> <td>-1229</td> </tr> <tr> <td>B/Kansas City</td> <td>3751</td> <td>-1422</td> </tr> <tr> <td>Arbuckle</td> <td>3924</td> <td>-1595</td> </tr> </table>	Name	Top	Datum	Anhydrite	1958	371	B/Anhydrite	1990	339	Topeka	3316	-987	Heebner	3519	-1190	Lansing	3558	-1229	B/Kansas City	3751	-1422	Arbuckle	3924	-1595
Name	Top	Datum																							
Anhydrite	1958	371																							
B/Anhydrite	1990	339																							
Topeka	3316	-987																							
Heebner	3519	-1190																							
Lansing	3558	-1229																							
B/Kansas City	3751	-1422																							
Arbuckle	3924	-1595																							

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	12.25"	8.625"	24#	220.59	Common	158	3% cc; 2% gel

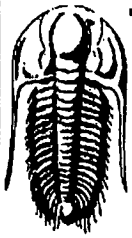
ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	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 (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 <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202



**TRIOLOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carrie Exploration&Develop

Worcester SE #2

1308 Schwaller Ave
Hays, KS 67601

16 7s 22w Graham KS

Job Ticket: 36291

DST#: 1

ATTN: Andy Werth

Test Start: 2009.03.17 @ 14:40:39

GENERAL INFORMATION:

Formation: **Toronto, LKC "A"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 16:17:04

Time Test Ended: 19:09:33

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3511.00 ft (KB) To 3563.00 ft (KB) (TVD)**

Reference Elevations: **2358.00 ft (KB)**

Total Depth: **3563.00 ft (KB) (TVD)**

2350.00 ft (CF)

Hole Diameter: **7.85 inches** Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 8365

Inside

Press@RunDepth: **64.37 psig @ 3527.01 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2009.03.17**

End Date:

2009.03.17

Last Calib.: **2009.03.17**

Start Time: **14:40:39**

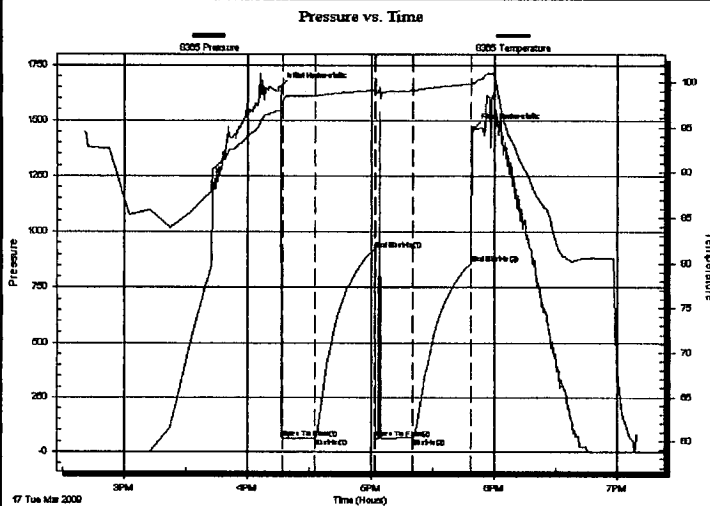
End Time:

19:09:33

Time On Btm: **2009.03.17 @ 16:15:34**

Time Off Btm: **2009.03.17 @ 17:50:04**

TEST COMMENT: FFP-w k bl thru-out 3/4" bl
FFP-no bl, flushed tool, got surge
Times 15-30-15-30
slid tool approx 12' to bottom



PRESSURE SUMMARY

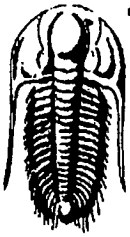
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1648.65	96.84	Initial Hydro-static
2	60.88	97.86	Open To Flow (1)
17	62.36	98.48	Shut-In(1)
46	921.52	99.12	End Shut-In(1)
47	62.68	98.85	Open To Flow (2)
65	64.37	99.08	Shut-In(2)
93	858.43	99.80	End Shut-In(2)
95	1468.09	99.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	mud	0.99

Gas Rates

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



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DRILL STEM TEST REPORT

Carrie Exploration&Develop

Worcester SE #2

1308 Schwaller Ave
Hays, KS 67601

16 7s 22w Graham KS

Job Ticket: 36292

DST#2

ATTN: Andy Werth

Test Start: 2009.03.18 @ 02:35:41

GENERAL INFORMATION:

Formation: **LKC A-C**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 04:09:36

Time Test Ended: 08:51:05

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3548.00 ft (KB) To 3598.00 ft (KB) (TVD)**

Reference Elevations: **2358.00 ft (KB)**

Total Depth: **3598.00 ft (KB) (TVD)**

2350.00 ft (CF)

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

KB to GR/CF: 8.00 ft

Serial #: 8365

Inside

Press@RunDepth: **294.69 psig @ 3562.01 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2009.03.18**

End Date:

2009.03.18

Last Calib.: **2009.03.18**

Start Time: **02:35:41**

End Time:

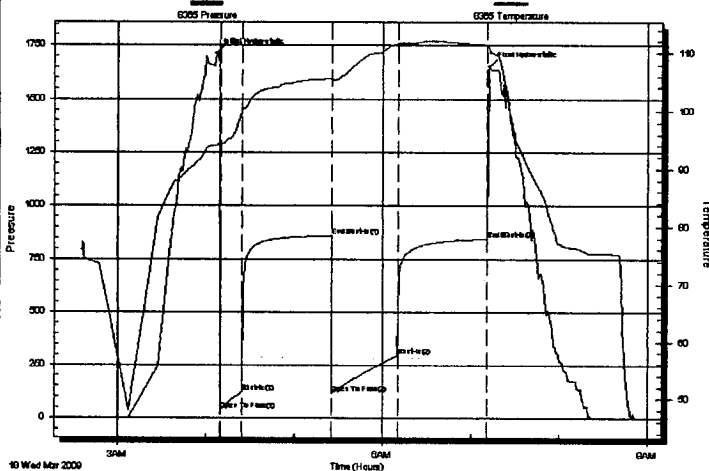
08:51:05

Time On Btrn: **2009.03.18 @ 04:07:06**

Time Off Btrn: **2009.03.18 @ 07:12:35**

TEST COMMENT: FFP-w k to strg in 8 min, slid tool 5' to bottom
FFP-w k to strg in 15 min
Times 15-60-45-60
ISIP-surface bl bk,FSIP-no bl

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1713.13	94.08	Initial Hydro-static
3	38.59	94.22	Open To Flow (1)
18	119.46	99.91	Shut-in(1)
78	860.52	105.56	End Shut-in(1)
79	116.26	105.31	Open To Flow (2)
123	294.69	111.53	Shut-in(2)
184	845.54	111.42	End Shut-in(2)
186	1654.05	110.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	MW w/show of oil 30%M70%W	0.99
500.00	Water	7.01

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carrie Exploration&Develop

Worcester SE #2

1308 Schwaller Ave
Hays, KS 67601

16 7s 22w Graham KS

Job Ticket: 36293

DST#:3

ATTN: Andy Werth

Test Start: 2009.03.18 @ 21:59:57

GENERAL INFORMATION:

Formation: **LKC**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 23:27:22

Time Test Ended: 03:01:51

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3619.00 ft (KB) To 3752.00 ft (KB) (TVD)**

Reference Elevations: **2358.00 ft (KB)**

Total Depth: **3752.00 ft (KB) (TVD)**

2350.00 ft (CF)

Hole Diameter: **7.85 inches** Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 8365

Inside

Press@RunDepth: **70.59 psig @ 3625.01 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2009.03.18**

End Date:

2009.03.19

Last Calib.: **2009.03.19**

Start Time: **21:59:57**

End Time:

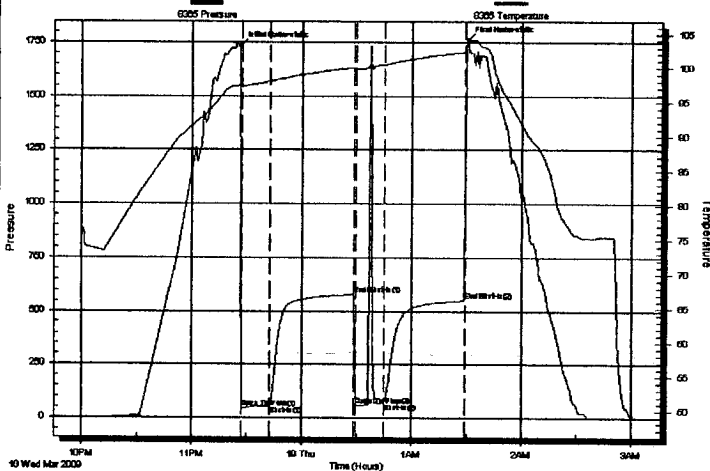
03:01:51

Time On Btm: **2009.03.18 @ 23:26:22**

Time Off Btm: **2009.03.19 @ 01:30:22**

TEST COMMENT: FFP-surface bl thru-out , slid tool 10'to bottom
FFP-no bl , flushed tool , got surface bl died in 7min
Times 15-45-15-45

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1733.19	97.47	Initial Hydro-static
1	45.30	97.19	Open To Flow (1)
17	56.08	98.07	Shut-In (1)
62	581.24	100.10	End Shut-In (1)
63	58.99	99.90	Open To Flow (2)
79	70.59	100.49	Shut-In (2)
123	551.28	102.31	End Shut-In (2)
124	1760.38	103.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	SOCM 5%O95%M	1.41

Gas Rates

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

Quality Oilwell Cementing Inc.

Invoice

740 W WICHITA
 P.O. Box 32
 Russell, KS 67665

Date	Invoice #
3/16/2009	1438

*Paid
 3-24-09
 CC# 4318
 \$2801.68
 Worchester SE #2
 Drilling Exp*

Bill To
WERTH EXPLORATION TRUST 1308 SCHWALLER AVE HAYS KS 67601

P.O. No.	Terms	Project
	Net 30	

Quantity	Description	Rate	Amount
150	common	11.00	1,650.00T
3	GEL	17.00	51.00T
5	Calcium	42.00	210.00T
158	handling	1.75	276.50
6,004	.08 * 158 SACKS * 38 MILES	0.08	480.32
1	surface pipes 0-500ft	500.00	500.00
38	pump truck mileage charge	6.00	228.00
382	discount 20% if paid within 30 days DISCOUNT HAS ALREADY BEEN DEDUCTED	-1.00	-382.00T
297	discount 20% if paid within 30 days DISCOUNT HAS ALREADY BEEN DEDUCTED	-1.00	-297.00
	LEASE: WORCHESTER SE WELL #2 Graham county Sales Tax	5.55%	84.86

RECEIVED
 KANSAS CORPORATION COMMISSIO
 MAR 31 2009
 CONSERVATION DIVISION
 WICHITA, KS

Thank you for your business. Dave	Total	\$2,801.68
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QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 5057

Date	3-14-09	Sec.	16	Twp.	7	Range	22	County	Cherokee	State	KS	On Location		Finish	5:48 PM
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Lease		Well No.	2	Location	Wagon 22 4th W
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Contractor	D. W. ...	Owner	
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Type Job: *Surface*
To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size	12 1/4	T.D.	221	Charge To	Carroll Ex. ...
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Csg.	8 5/8 2415	Depth	210.59	Street	
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Tbg. Size		Depth		City		State	
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Drill Pipe		Depth		The above was done to satisfaction and supervision of owner agent or contractor.		
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Tool		Depth		CEMENT		
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Cement Left in Csg.	10-156	Shoe Joint		Amount Ordered	5000
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Press Max.		Minimum		Common	130 @ 110
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Meas Line		Displace	3665	Poz. Mix		1650.00
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Perf.		EQUIPMENT		Gel.	3 @ 17	51.00
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Pumptrk	1	No.		Cementer	B. ...	
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Bulktrk	10	No.		Helper		
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Bulktrk	20	No.		Driver	P. ...	
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Bulktrk	20	No.		Driver	JAN	
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JOB SERVICES & REMARKS				Calcium	5 @ 42	210.00
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Pumptrk Charge	Surface	500.00	Flowseal			
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Mileage	38 @ 6.00	228.00	Handling	158 @ 1.25	276.50	
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Footage			Mileage	58 @ 8.00	480.00	
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			Pump Truck Charge	725.00	725.00	
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		Total	725.00			
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Remarks: *Concrete Dr. ...*

FLOAT EQUIPMENT						
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Guide Shoe						
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Centralizer						
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Baskets						
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AFU Inserts						
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X Signature: *[Handwritten Signature]*

Tax 84.86
20% Discount (679.00)
Total Charge 2501.68

Russell, KS 67665
 Russell, KS 67665

Invoice

DATE	
AMOUNT	

Bill To WERTH EXPLORATION TRUST 1308 SCHWALLER AVE HAYS KS 67601
--

Paid
 3-24-09
 CK# 4321
 \$ 3696.46
 Worcester SE#2
 Plugging Exp

P.O. No.	Terms	Project
	Net 30	

Quantity	Description	Rate	Amount
147	common	10.00	1,470.00T
98	POZ	6.00	588.00T
9	GEL	17.00	153.00T
60	Celloscal	2.00	120.00T
254	handling	1.75	444.50T
9,652	.08 * 254 SACKS * 38 MILES	0.08	772.16T
1	dry hole plug	45.00	45.00T
1	pump truck charge plugging ARBUCKLE	500.00	500.00T
38	pump truck mileage charge	6.00	228.00T
864	discount 20% if paid within 30 days DISCOUNT HAS ALREADY BEEN DEDUCTED	-1.00	-864.00
	LEASE: WORCESTER SE WELL#2 Graham county Sales Tax	5.55%	239.80

RECEIVED
 KANSAS CORPORATION COMMISSION
 MAR 31 2009
 CONSERVATION DIVISION
 WICHITA KS

Thank you for your business. Dave	Total	\$3,696.46
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QUALITY OILWELL CEMENTING, INC.

785-483-2025
785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. _____

Date	Sec.	Twp.	Range	County	State	On Location	Finish
Lease	Well No.	Location					
Contractor	Owner			To Quality Oilwell Cementing, Inc.			
Type Job	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Hole Size	T.D.	Charge To					
Csg.	Depth	Street					
Tbg. Size	Depth	City		State			
Drill Pipe	Depth	The above was done to satisfaction and supervision of owner agent or contractor.					
Tool	Depth						
Cement Left in Csg.	Shoe Joint	CEMENT					
Press Max.	Minimum	Amount Ordered					
Meas Line	Displace	Common		147.00		1470.00	
Perf.		Poz. Mix		98.00		588.00	
EQUIPMENT		Gel.		9.00		153.00	
Pumptrk No.	Cementor Helper	Calcium					
Bulktrk No.	Driver	Mills					
Bulktrk No.	Driver	Salt					
JOB SERVICES & REMARKS		Flowseal		60.00		120.00	
Pumptrk Charge	500.00	Handling		754.00		444.50	
Mileage	228.00	Mileage		54.00		772.50	
Footage		Pump Truck Charge		700.00			
Total		788.00					
REMARKS:		FLOAT EQUIPMENT					
		Guide Shoe					
		Centralizer					
		Baskets					
		AFU Inserts		45.00			
		Rotating Head					
		Squeez Mainfold					
Signature		Tax		239.80			
		20% Discount		(864.00)			
		Total Charge		3696.46			