

Operator Name: H & C Oil Operating, Inc. Lease Name: Heim Well #: 29-1
 Sec. 29 Twp. 6 S. R. 23 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 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: Microresistivity log, dual compensated porosity log, dual induction log, borehole compensated sonic log	<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:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Top Anhydrite</td> <td>2147</td> <td>+332</td> </tr> <tr> <td>Base Anhydrite</td> <td>2180</td> <td>+299</td> </tr> <tr> <td>Topeka</td> <td>3508</td> <td>-1029</td> </tr> <tr> <td>Heebner</td> <td>3705</td> <td>-1226</td> </tr> <tr> <td>Toronto</td> <td>3730</td> <td>-1251</td> </tr> <tr> <td>LKC</td> <td>3748</td> <td>-1269</td> </tr> <tr> <td>BKC</td> <td>3936</td> <td>-1457</td> </tr> </table>	Name	Top	Datum	Top Anhydrite	2147	+332	Base Anhydrite	2180	+299	Topeka	3508	-1029	Heebner	3705	-1226	Toronto	3730	-1251	LKC	3748	-1269	BKC	3936	-1457
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
surface	12 1/4"	8 5/8"	23	305	common	180	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 <i>(Amount and Kind of Material Used)</i>	Depth

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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 <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Phone 785-483-2025
Cell 785-324-1041

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

No. 4825

Date <u>3-2-11</u>	Sec. <u>29</u>	Twp. <u>6</u>	Range <u>23</u>	County <u>Lawrence</u>	State <u>KS</u>	On Location	Finish <u>5:45 PM</u>
Lease <u>HEM</u>	Well No. <u>29-1</u>	Location <u>Hulk #1 3112W E10</u>					

Contractor <u>American Energy #2</u>	Owner
Type Job <u>Surface</u>	To Quality Oilwell Cementing, Inc.
Hole Size <u>12 1/4</u>	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Csg. <u>8 7/8</u>	Charge To <u>HVC</u>
Tbg. Size	Street
Tool	City
Comment Left in Csg. <u>15'</u>	State
Meas Line	The above was done to satisfaction and supervision of owner agent or contractor.
Displace <u>1.8/23C</u>	Cement Amount Ordered <u>130 lbm 3' 200 2' 100</u>

EQUIPMENT		
Pumptrk <u>9</u>	No.	Cement Helper <u>Chris</u>
Bulktrk	No.	Driver <u>Paul</u>
Bulktrk <u>8</u>	No.	Driver <u>Rocky</u>

Common <u>180</u>
Poz. Mix
Gel. <u>3</u>
Calcium <u>6</u>
Hulls
Salt
Flowseal
Kol-Seat
Mud CLR 48
CFL-117 or CD110 CAF 38
Sand
Handling <u>189</u>
Mileage

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

5 7/8 in. bit line Est. Circulation

Min 180 lbm Displace

Cement Circulation

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge <u>Surface</u>	
Mileage <u>461</u>	

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Signature [Signature]

Tax

Discount

Total Charge

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

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

No. 4769

Date	3-7-11	Sec.	29	Twp.	6	Range	23	County	Graham	State	Ks	On Location		Finish	4:15 AM
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Lease H.M. Well No. 27-1 Location Hill City, Ks - N to P.R.L, 40, 130

Contractor American Engk P&W Owner E/S

Type Job plug 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 7 7/8" T.D. 3980' Charge To H+C oil operations

Csg. 4 1/2" Depth 2165' Street _____ City _____ State _____

Tool _____ Depth _____ City _____ State _____

Cement Left in Csg. _____ Shoe Joint _____ The above was done to satisfaction and supervision of owner agent or contractor

Meas Line _____ Displace H2O/mud Cement Amount Ordered 205 SX 60/40 47 label X.H.F.S.

EQUIPMENT			
Pumptrk	1	No.	Comentor <u>Went</u>
Bulktrk	10	No.	Driver <u>Erico</u>
Bulktrk	p.u.	No.	Driver <u>Rick</u>

JOB SERVICES & REMARKS	
Remarks:	<u>Cement did Circulate.</u>

Rat Hole 30SX

Mouse Hole _____

Centralizers _____

Baskets _____

D/V or Port Collar 2165' - 25 SX

1325' - 100 SX

355' - 40 SX

40' - 10 SX wiper plug

Rollate. 30 SX

205 SX 60/40 47 label X.H.F.S.

1- Dry hole plug

Pumptrk Charge plug

Mileage 44

Tax _____

Discount _____

Total Charge _____

Signature [Handwritten Signature]

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