



KANSAS CORPORATION COMMISSION 1153117
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 # _____

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ 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: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Hupfer Operating, Inc.
Well Name	Heine A-1
Doc ID	1153117

Tops

Name	Top	Datum
Anhydrite	378	+1357
Topeka	2528	-793
Heebner	2800	-1065
Toronto	2822	-1087
Douglas	2880	-1095
Brown Lime	2927	-1192
Lansing	2956	-1221
Arbuckle	3278	-1543
RTD	3284	-1549



Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

DRILLER'S LOG

Operator: Hupfer Operating, Inc. Lic# 30380 Contractor: Discovery Drilling Co., Inc. LIC#31548
P.O. Box 3912 PO Box 763
Shawnee, KS 66203-0912 Hays, KS 67601

Lease: Heine "A" # 1 Location: 550 FSL & 1490 FEL
SW/SE/SE
Section 25/ 19S/ 10W
Rice County, KS

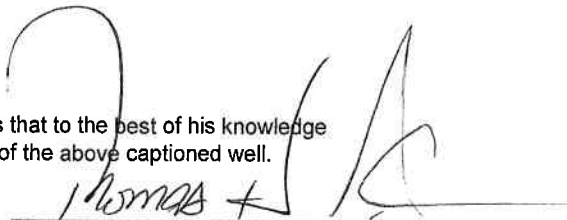
Loggers Total Depth: 3283' API#15- 159-22,737-00-00
Rotary Total Depth: 3284' Elevation: 1727 GL / 1735 KB
Commenced: 5/17/2013 Completed: 5/13/2013
Casing: 8 5/8" @ 262'W/200sks Status: Oilwell
5 1/2" @ 3278'W/100sks

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>397'</u>
Dakota Sand	<u>115'</u>	Shale & Lime	<u>1192'</u>
Shale	<u>194'</u>	Shale	<u>1502'</u>
Cedar Hill Sand	<u>281'</u>	Shale & Lime	<u>1933'</u>
Red Bed Shale	<u>313'</u>	Lime & Shale	<u>2958'</u>
Anhydrite	<u>385'</u>	RTD	<u>3284'</u>
Base Anhydrite	<u>397'</u>		

STATE OF KANSAS)
) ss
COUNTY OF ELLIS)

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

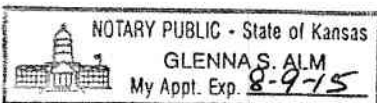

Thomas H. Alm

Subscribed and sworn to before me on 5-29-13

My Commission expires: 8-9-15

(Place stamp or seal below)


Notary Public



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 6815

Phone 785-483-2025
Well 785-324-1041

Date	5-17-13	Sec.	25	Twp.	19	Range	10	County	Rice	State	Ks	On Location		Finish	5:30pm
Location													Chase, Ks - 2W, 100, 1/2 E, 1/2 into		

Lease	Heine		Well No.	A-1		Owner	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.								
Contractor	Discovery		#2			Charge To	Hupfer operating								
Type Job	Surface				T.D.	262'									
Hole Size	12 1/4"				Depth	262'									
Csg.	8 5/8"				Depth										
Tbg. Size					Depth										
Tool					Depth			The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.					Shoe Joint	15'		Cement Amount Ordered 200 sx Common 3% CC							
Meas Line					Displace	15 1/2 BLS		2% Gel 1/4" Flo-seal							

EQUIPMENT

Pumptrk	15	No.	Cementer	Nick
			Helper	
Bulktrk	1	No.	Driver	Billy
			Driver	
Bulktrk	PIW	No.	Driver	Rick
			Driver	

Common	200
Poz. Mix	
Gel.	4
Calcium	7

JOB SERVICES & REMARKS

Remarks: Cement did Circulate

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Hulls

Salt

Flowseal 50#

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling 211

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge Surface

Mileage 21

Tax

Discount

Total Charge

X Signature *[Signature]*

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 6933

Date	5-22-13	Sec.	25	Twp.	19	Range	10	County	Rice	State	KS	On Location	6:00 AM	Finish	9:00 AM
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Lease Heine Well No. A-1 Location Chase, 2W 1N 42 E N170

Contractor	<u>Discovey 2</u>	Owner	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.
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Type Job	<u>pipe job</u>	Charge To	<u>Huptek operating</u>
Hole Size	<u>7 7/8</u>	Street	
Csg.	<u>5 1/2</u>	City	
Tbg. Size		State	

Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	<u>35.28</u>	Shoe Joint	<u>35.28</u>	Cement Amount Ordered <u>10% Salt</u>
Meas Line		Displace	<u>7 1/4 BBL</u>	<u>5% gillite 150 Com</u>

EQUIPMENT

Pumptrk	<u>5</u>	No.		Cementer	<u>Matt</u>	Helper	
Bulktrk	<u>14</u>	No.		Driver	<u>Brett</u>	Driver	
Bulktrk	<u>pa</u>	No.		Driver	<u>Lornte</u>	Driver	<u>M</u>

JOB SERVICES & REMARKS

Remarks:
 Rat Hole 30 SHS
 Mouse Hole 20 SHS
 Centralizers 24 8 10
 Baskets 6
 D/V or Port Collar
Circulate 10 min @ Deeped
Ball Set Packer Shoe
Circulate 30 min
plus 1 Rat and Mouse
Note mixed 100 SHS
down hole displace
float held
Raised down

Common	<u>150</u>
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	<u>13</u>
Flowseal	<u>75</u>
Kol-Seal	<u>750A</u>
Mud CLR 48	<u>50 gal</u>
CFL-117 or CD110 CAF 38	
Sand	
Handling	<u>170</u>
Mileage	<u>5 1/2</u>

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	<u>Turbos 4</u>
Baskets	<u>1 1/2</u>
AFU Inserts	
Float Shoe	
Latch Down	<u>5 1/2</u>
Packer Shoe	
Pumptrk Charge	<u>prod Long string</u>
Mileage	<u>21</u>

X Signature [Handwritten Signature]

Tax	
Discount	
Total Charge	

HUPFER OPERATING, INC.

HEINE A-1

SE/4 Sec 25-19-10W, Rice Co.

DST #1: Arbuckle - 3210' to 3284' - 30-30-30-30. Strong blow. Recovered 780'
gas oil cut mud, 40% oil, 420' gas mud cut oil, 70% oil. ISIP 1172, FSIP 1123,
IFP 251-571, FFP 345-927.