



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1178059  
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
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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: \_\_\_\_\_

1178059

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
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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
<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
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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> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	H & D Exploration LLC
Well Name	Staudinger 1
Doc ID	1178059

Tops

Name	Top	Datum
Anhydrite	758	+1105
Based Anhydrite	787	+1076
Heebner	2924	-1061
Toronto	2941	-1028
Douglas	2953	-1090
Brown Lime	3014	-1151
Lansing	3030	-1167
Base Kansas City	3290	-1427
Comglomerate	3308	-1445
Arbuckle	3352	-1489
RTD	3375	-1512
LTD	3376	-1513



**MORNING DRILLING REPORT**

**SOUTHWIND DRILLING, INC.**

H&D Exploration

RIG No. 8

**Well Name:** Staudinger #1  
**Location:** 330' FSL & 2179' FWL  
**Section:** 25-15S-12W  
**County:** Russell  
**API:** 15-167-23906-00-00

**Elevation:** GL 1854'  
 KB 1863'  
**Est. TD:** 3500'

Rig No. 8 (Pusher Darrell Yott) 620 617-1716  
 Rig No. 8 (Doghouse) 620 566-7052  
 Southwind Drilling Office 620 564-3800



**Surface Casing:** Ran 18 joints of new 23#, 8 5/8" casing, Tally @ 750.73', Set @ 760', used 350 sacks of Common, 3% cc, 2% gel, cement circulated, by Quality (Ticket #7386), plug down @ 12:30 pm on 09.24.13.

**Production Info:** Ran 81 joints of new 15.5#, 5 1/2" casing, Tally @ 3374', Set @ 3374', used 135 sacks of Common, 10% salt, 5% Gilsomite, cemented, by Quality (Ticket #7522), job complete @ 5:45 pm on 09.29.13.

**Rotary Total Depth:** 3375'  
**Log Total Depth:** 3376' **Geologist:** Jim Musgrove

**7:00 A.M. Depth:** 3375' **7:00 A.M. Current Operation:** TEAR DOWN

Spud Date & Time:	09/23/13	09/24/13	09/25/13	09/26/13	09/27/13	09/28/13	09/29/13	Total
09/23/2013 @ 7:15 PM	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
Total Depth (7:00am)	0	758	1234	2320	3039	3226	3375	
Daily Progress	758	476	1086	719	187	149		3375
Ft. Per Hr.	89.18	86.55	51.71	36.41	19.18	22.07	#DIV/0!	47.37
Current Operation (7:00am)	Rig Up	Drilling	Drilling	Drilling	Drilling	DST #1	Logging	
Formation	Surface	Lime / Shale	Lime / Shale	Lime / Shale	Lime / Shale	LKC	Arbuckle	
Fuel Used (34.5 Gal / Inch)	207.00	172.50	448.50	448.50	414.00	379.50	172.50	2242.50
Survey (degree & depth)		1° @ 761'			1/2° @ 3226'			
Mud Cost	\$0.00	\$1,056.00	\$0.00	\$4,274.55	\$1,702.75	\$683.45	\$827.55	\$8,544.30
Weight (# / Gal)				8.9	9.1	9.2		
Vis (Funnel)				48	47	47		
Water Loss (cc)				8.0	8.0	8.8		
<b>Bit #1</b>								
Bit Make / Type	Reed RR							
Bit Size	12 1/4							8.50
Bit Hours	8.50							
<b>Bit #2</b>								
Bit Make / Type		JZ	JZ	JZ	JZ	JZ		
Bit Size		7 7/8	7 7/8	7 7/8	7 7/8	7 7/8		
Bit Hours		5.50	21.00	19.75	9.75	6.75		62.75
Bit Cumulative Hours	8.50	5.50	21.00	19.75	9.75	6.75	0.00	71.25
Weight on Bit (WOB)	10,000	15,000	35,000	35,000	35,000	35,000		
RPM	100	80	80	80	80	80		
Pump Pressure	600	650	900	800	800	800		
Drilling (Rotating) Hours	8.50	5.50	21.00	19.75	9.75	6.75	0.00	71.25
<b>Daywork Hrs. (on Operator's time)</b>								
Rat Hole (>.75 Hrs)	1.00							1.00
Wait on Cement		12.00						12.00
Trip		1.50			4.25	4.00	1.25	11.00
Circulate				1.00	7.25	7.50	1.00	16.75
Tool					0.50	0.50		1.00
Testing					1.50	1.50		3.00
Clean Floor after DST								0.00
Logging						2.75	1.00	3.75
LDDP / LDDC							3.00	3.00
Run Casing / Circ / Cement		2.00					3.25	5.25
Plug Well								0.00
Set Slips							0.50	0.50
Nipple Down/Jet Cellar							1.25	1.25
Billable Hours	1.00	15.50	0.00	1.00	13.50	16.25	11.25	58.50
<b>Non-Billable Hours (Southwind's time)</b>								
Rig Up / Tear Down	10.50						4.75	15.25
Drill Rat Hole (<.75 hrs)	0.75							0.75
Drill Plug		0.75						0.75
Circulate / Trip (Surface)		1.00						1.00
Rig Repair				0.75		0.50		1.25
Connections	3.00	0.50	2.00	1.50	0.75	0.50		8.25
Jet/Displace	0.25	0.50	1.00	1.00				2.75
Surveys		0.25						0.25
Riq Check								0.00
Lost Circulation (< 2 hrs)								0.00
Lay Down Kelly / MH & RH								0.00
Non-Billable Hrs.	14.50	3.00	3.00	3.25	0.75	1.00	4.75	30.25
Footage Cost	\$ 10,991.00	\$ 6,902.00	\$ 15,747.00	\$ 10,425.50	\$ 2,711.50	\$ 2,160.50	\$ -	\$ 48,937.50
Daywork Cost	\$ 350.00	\$ 5,425.00	\$ -	\$ 350.00	\$ 4,725.00	\$ 5,687.50	\$ 3,937.50	\$ 20,475.00
Combined Est. Cost*	\$ 11,341.00	\$ 12,327.00	\$ 15,747.00	\$ 10,775.50	\$ 7,436.50	\$ 7,848.00	\$ 3,937.50	\$ 69,412.50

\*Please note that this is estimated footage & daywork cost only. Additional charges will apply on invoice (fuel surcharge, water transfer pump, etc)

**DST #1 Info -**  
 Footage Interval: 3180' - 3226'  
 Recovery: 2400' Gas in Pipe  
 150' Muddy Oil

**DST #2 Info -**  
 Footage Interval:  
 Recovery:



Office (620) 588-4250 212 Main St. • P.O. Box 215 • Clifton, KS 67525 Home (620) 587-3444  
 James C. Musgrove  
 Petroleum Geologist

# GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY H&D Exploration LLC  
 LEASE Staudinger # 1  
 FIELD Driscoll West  
 LOCATION 1/2 Sec. SE-SW (33P, FSL, 2179, F.W.)  
 SEC. 25 TWP. 15S RGE. 12W  
 COUNTY Russell STATE Kansas  
 CONTRACTOR Southwind Drilling (rig #  
 SEND 9/23/13 COMP. 9/29/13  
 RTD 3375 LTD. 3376  
 MUD GP. 2600' TYPE MUD Chemical displaced

SAMPLES SAVED FROM 2700 TO TO  
 DRILLING TIME KEPT FROM 2700 TO TO  
 SAMPLES EXAMINED FROM 2800 TO TO  
 GEOLOGICAL SUPERVISION FROM 2850 TO TO  
 GEOLOGIST ON WELL Jim Musgrove

ELEVATIONS  
 KB 1863  
 DF \_\_\_\_\_  
 GI 1854  
 Measurements Are All From KB

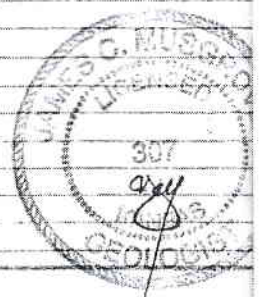
CASING SURFACE 8 5/8" 760  
 PRODUCT ON 5 1/2" 116  
 ELECTRICAL SURVEYS  
 By Primer  
DEL, CUL/CDL, MEL, Sonic

FORMATION TOPS	LOG	SAMPLES
<u>Anhydrite</u>	<u>758 +1105</u>	
<u>Base anhydrite</u>	<u>787 +1076</u>	
<u>Hebner</u>	<u>2924 -1061</u>	
<u>Toronto</u>	<u>2941 -1078</u>	
<u>Douglas</u>	<u>2959 -1090</u>	
<u>Brown Lime</u>	<u>3014 -1151</u>	
<u>Hansing</u>	<u>3030 -1167</u>	
<u>Base Kansas City</u>	<u>3290 -1427</u>	
<u>Amherst</u>	<u>3308 -1445</u>	
<u>Arbuckle</u>	<u>3352 -1489</u>	
<u>RTD</u>	<u>3375 -1512</u>	
<u>LTD</u>	<u>3376 -1513</u>	

REMARKS

5 1/2" production casing was set on the Staudinger # 1.

Respectfully submitted;  
 James C. Musgrove  
 Petroleum Geologist.



LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carbonaceous
- Limestone
- Oolitic Limestone
- Chert
- Dolomite

DRILLING TIME

ZOLL DOT

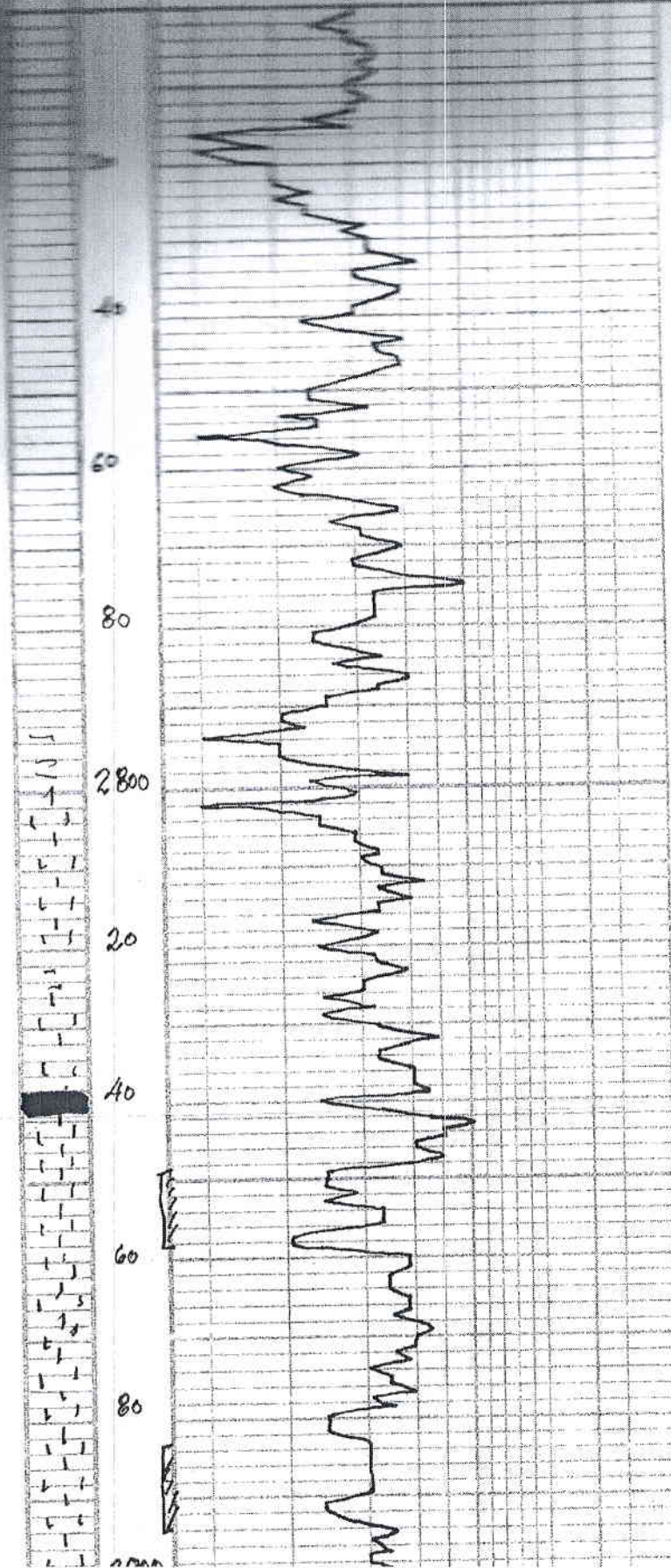
LOG

HI



SAMPLE DESCRIPTIONS

REMARKS



blk carb. sh.

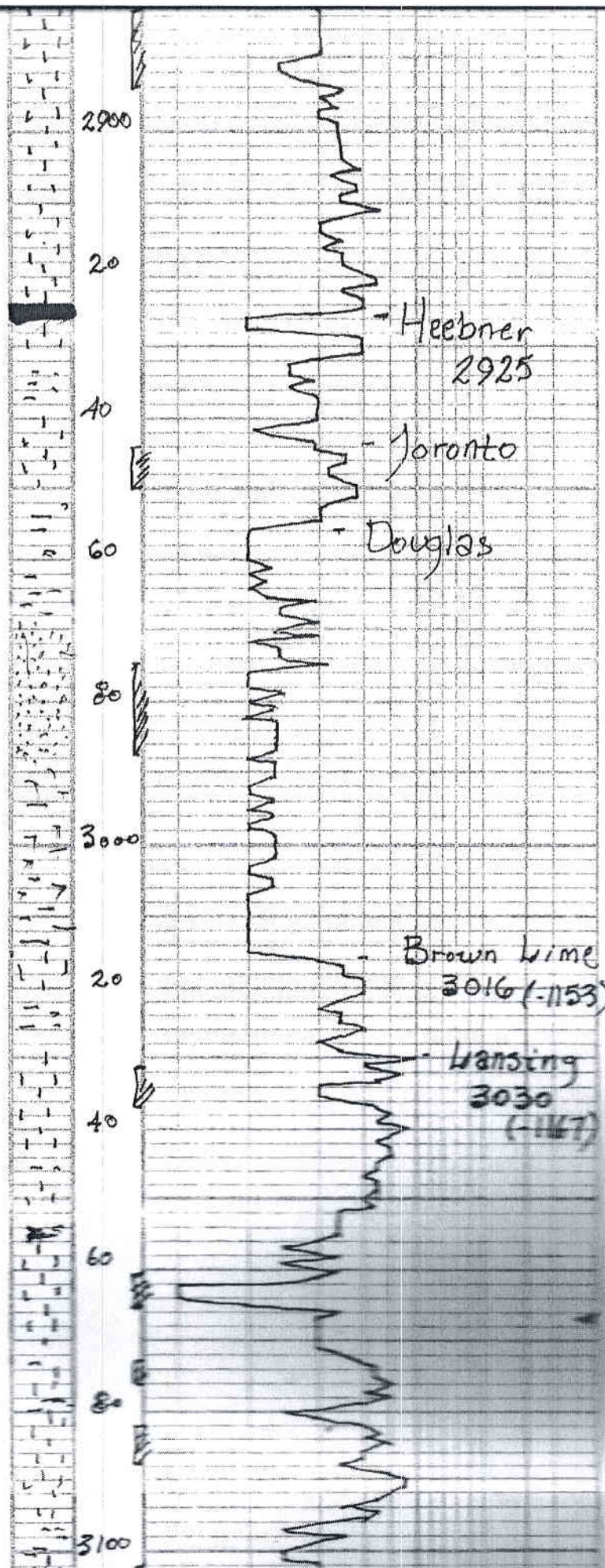
LS, gm; tan, oom, scatt  
 oom, brown stn, wk sfo  
 no edon

LS, gm/wh, fishy  
 cherty

LS, gm/wh, cherty,  
 foss in parts

37





foss in part m/s

~ ~ ~  
 wa; Poor of (dense)

~ ~ ~  
 Jr. gry. A

- 1863 KB -

~ blk carb sh

ls, wh/erm, fxl, chky;  
 scatt d. (poor) Jr. brown  
 sh, msf, Jr. gas bubbles

~ Jr. sand/gry/gryish green  
 vfg, mica; poorly dev  
 + gry/gryish green silty sh

~ sd, gry, gryish green; vfg  
 mica; Poor vis; ms

~ ~ ~  
 Jr sand / = (vfg)  
 wa

Brown Lime  
 3016 (-1153)

ls tan brown, low  
 slightly arg-d

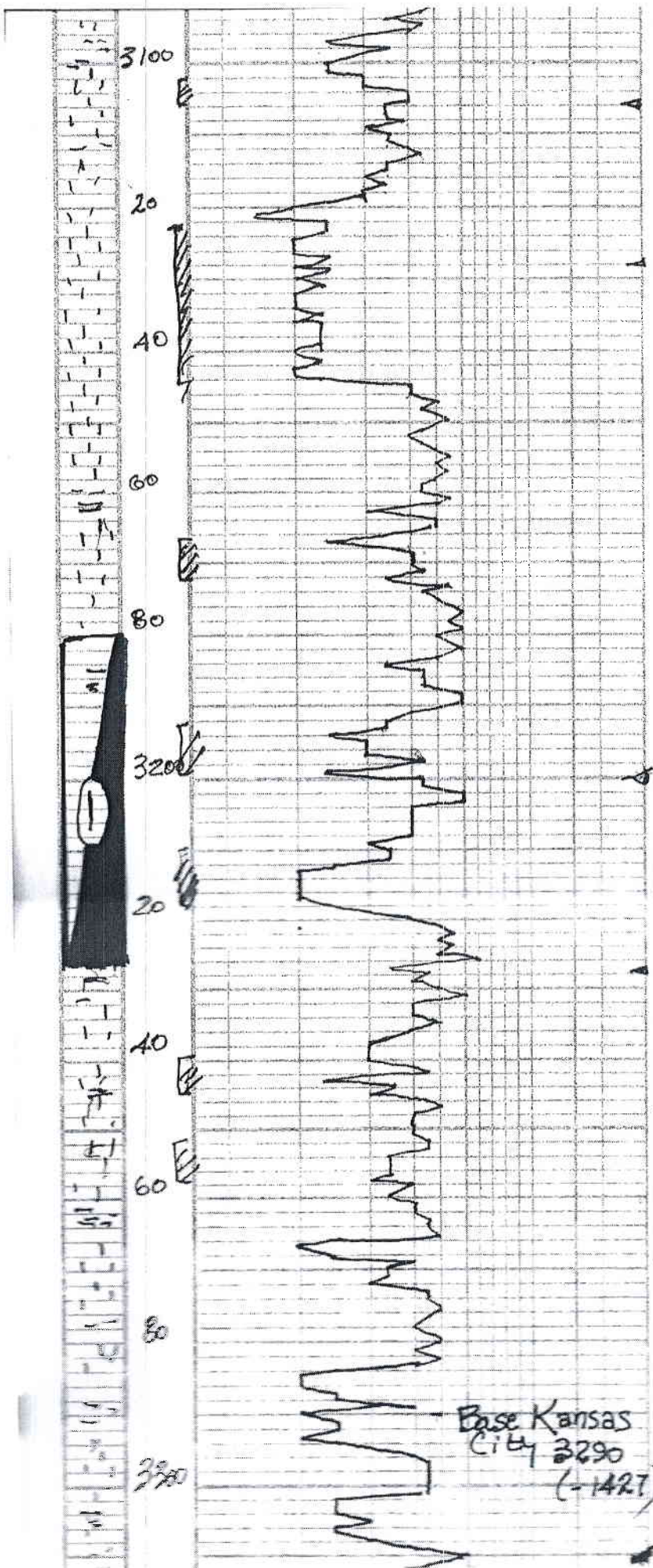
Lansing  
 3030 (-1147)

ls tan, brown, low  
 slightly arg-d

~ ~ ~  
 ls tan, brown, low  
 slightly arg-d

~ ~ ~  
 ls tan, brown, low  
 slightly arg-d





Tr. poor drain / gm stn  
nsfo, no odor

ls, gm / tan, fxh, saw ool,  
chiky, poor stn, nsfo,  
3% odor + Tr. fcs

ls, arm, wh, oom, chiky,  
fr o' (barren)

ls, gm / arm, oom, ool,  
chiky m/s

ls, gm, (fxh) slightly dry  
(else)

blk carb sh.

ls, tan, fxh, slightly ool / fcs  
poor vis o' m/s

ls, wh / gm, tan, ool, scatter o'  
brown / golden brown stn,  
sfo, ft. odor

ls, arm / wh, ool, oom,  
fr. oom o', fr. stn / sfo  
sfo odor

ls, wh / gm, ool, chiky,  
poor stn, nsfo,  
ft. odor

slugg / green sh.  
+ blk carb sh.

ls, gm / gm, ool, chiky,  
poor stn, nsfo, odor  
sample  
broken

ls, tan, dry (else)  
interf. zone d

gm / green sh  
+ ls, wh / gm, chiky,  
slugg

Dst # 1 3180 -

30-30-45-60

Bbl, string  
(Bob 5 m

rod  
opening, string  
(Bob 2 m

REC, 2400 gas i

150' muddy

oil  
(1070 gas, 15  
7500 oil)

pressures; Isip

Isip

ILP

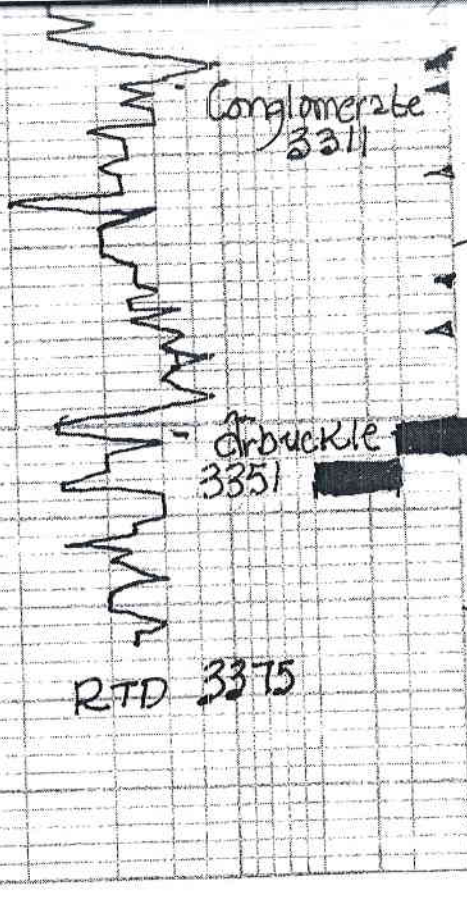
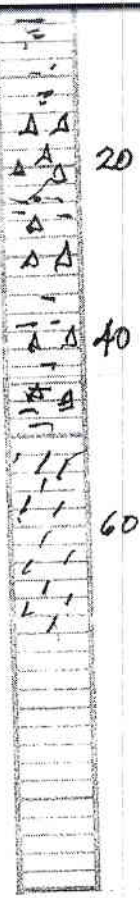
SFP

NSH

155

Base Kansas  
City 3290  
(-1427)





v.c. Δ, scattered gray/wh  
 ss, loose unconsolidated  
 quartz grain  
 gray/wh; ool/opaque Δ  
 aa weathered in part  
 dolomitic  
 dol. wh/crm, med xl, scatt,  
 fr. stn, ss, no odor  
 dol. wh/crm, med xl,  
 scatt fr. k. g., brown/gray  
 stn, ss, fr. k. g. odor  
 aa + fr. k. g.  
 dol. wh/gray; fr. k. slight  
 dry





**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 9/29/2030  
 Invoice # 7522

P.O.#:  
 Due Date: 10/29/2030  
 Division: Russell

# Invoice

Contact:  
 HD EXPLORATION  
 Address/Job Location:  
 HD EXPLORATION  
 P.O. BOX 387  
 HOISINGTON, KS 67544

Reference:  
 SRAUDINGER 1

Description of Work:  
 PROD LONG STRING

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	23	\$150.12	No
Common-Class A	180	\$ 3,017.65	Yes				
Gilsonite	900	\$ 1,508.82	Yes				
5 1/2" Basket	2	\$ 768.94	Yes				
5 1/2" Turbolizer	8	\$ 518.59	Yes				
Mud Clear	500	\$ 413.53	Yes				
Bulk Truck Mat-Material Service Charge	195	\$ 435.88	No				
Auto Fill Float Shoe, 5 1/2"	1	\$ 342.00	Yes				
Latch Down Plug & Baffle, 5 1/2"	1	\$ 250.35	Yes				
Salt (Fine)	16	\$ 249.64	Yes				
Pump Truck Mileage-Job to Nearest Camp	23	\$ 256.54	No				

**Invoice Terms:**

Net 30

SubTotal: \$ 8,932.62  
 Discount Available ONLY if Invoice is Paid & Received  
 within listed terms of invoice: \$ (1,339.89)

SubTotal for Taxable Items: \$ 6,009.09

SubTotal for Non-Taxable Items: \$ 1,583.63

Total: \$ 7,592.73

Tax: \$ 489.74

Amount Due: \$ 8,082.47

Applied Payments:

Balance Due: \$ 8,082.47

8.15% Russell County Sales Tax

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
 ©2008-2013 Straker Investments, LLC. All rights reserved.

*pd 3/1/1*

# QUALITY OILWELL CEMENTING, INC.

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

Federal Tax I.D.# 20-2886107  
Home Office P.O. Box 32 Russell, KS 67665

No. 7522

Date	9-29-13	Sec.	25	Twp.	15	Range	12	County	Russell	State	KS	On Location		Finish	5:45 PM
------	---------	------	----	------	----	-------	----	--------	---------	-------	----	-------------	--	--------	---------

Lease Staudinger Well No. # 1 Location Dubucsee 1N 1/2 E 1W 100 Owner To Quality Oilwell Cementing, Inc.

Contractor Southwind #8 Type Job Production String Charge To H+D Exploration

Hole Size 7 7/8 T.D. 3375' Csg. 5 1/2 Depth 3375' Street \_\_\_\_\_

Tbg. Size \_\_\_\_\_ Depth \_\_\_\_\_ Tool \_\_\_\_\_ Depth \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

Cement Left in Csg. \_\_\_\_\_ Shoe Joint 19.55 The above was done to satisfaction and supervision of owner agent or contractor. Cement Amount Ordered 180 sk Com 10% Salt 5%

Meas Line \_\_\_\_\_ Displace 79 3/4 bbl \_\_\_\_\_ 6/15/13

**EQUIPMENT**

Pumptrk	15	No.	Cementer		Common	<u>180</u>
			Helper	<u>Nick</u>	Poz. Mix	
Bulktrk	3	No.	Driver	<u>Lannie M</u>	Gel.	
			Driver	<u>Brett</u>	Calcium	
Bulktrk	PU	No.	Driver		Hulls	
			Driver		Salt	<u>16</u>

**JOB SERVICES & REMARKS**

Remarks:		Flowseal	
Rat Hole	<u>30" x</u>	Koi-Seal	<u>900#</u>
Mouse Hole	<u>15" x</u>	Mud CLR 48	<u>- 500 gal</u>
Centralizers	<u>1, 3, 5, 7, 9, 11, 13, 15</u>	<del>CFL 117 or CB110 CAF 38</del>	<u>KCL - 20 bbl</u>
Baskets	<u>2 + 8</u>	Sand	
D/V or Port Collar		Handling	<u>195</u>

Ran 500 gal Mud Flush  
Plug Rat & Mouse hole  
Mix 135 sk down 5 1/2"  
First 20 bbl of displace KCL  
Total displacement 79 3/4 bbl

**FLOAT EQUIPMENT**

Mileage	<u>5 1/2</u>	Guide Shoe	
		Centralizer	<u>- 8</u>
		Baskets	<u>- 2</u>
		AFU Inserts	
		Float Shoe	<u>- 1</u>
		Latch Down	<u>- 1</u>
		Rubber Plug	<u>- 1</u>

Pumptrk Charge prod Long String Mileage 23

X Signature G. Achatz

Tax	
Discount	
Total Charge	





**QUALITY OILWELL CEMENTING, INC.**

PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 9/24/2013  
 Invoice # 7385

P.O.#:

Due Date: 10/24/2013

Division: Russell

# Invoice

**Contact:**

HD EXPLORATION  
 Address/Job Location:  
 HD EXPLORATION  
 P.O. BOX 387  
 HOISINGTON, KS 67544

**Reference:**

STAUDINGER 1

**Description of Work:**

LONG SURFACE JOB

**Services / Items Included:**

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	No				
Common-Class A	350	\$ 5,867.65	Yes				
Bulk Truck Matl-Material Service Charge	370	\$ 827.06	No				
Calcium Chloride	13	\$ 692.47	Yes				
Pump Truck Mileage-Job to Nearest Camp	23	\$ 256.54	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	23	\$ 150.12	No				
Premium Gel (Bentonite)	7	\$ 127.37	Yes				
8 5/8" Top Rubber Plug	1	\$ 118.47	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 100.59	Yes				

*Pd 3048*

**Invoice Terms:**

Net 30

	SubTotal:	\$ 9,160.82
	<i>Discount Available ONLY if Invoice is Paid &amp; Received within listed terms of invoice:</i>	\$ (1,374.12)
<hr/>		
	SubTotal for Taxable Items:	\$ 5,870.56
	SubTotal for Non-Taxable Items:	\$ 1,916.13
<hr/>		
	Total:	\$ 7,786.70
	Tax:	\$ 478.45
<hr/>		
	<b>Amount Due:</b>	<b>\$ 8,265.15</b>
	<b>Applied Payments:</b>	
	<b>Balance Due:</b>	<b>\$ 8,265.15</b>

8.15% Russell County Sales Tax

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# 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. 7385

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-24-13				Russell	KS		12:30 p.m.
Location <u>Debugue LN BE N into</u>							
Lease <u>Standing R</u>		Well No. <u>1</u>		Owner			
Contractor <u>Smith Ind #8</u>				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.			
Type Job <u>Surface</u>				Charge To <u>H x I</u>			
Hole Size <u>12 1/4</u>		T.D. <u>761</u>		Street			
Csg. <u>8 5/8</u>		Depth <u>761</u>		City			
Tbg. Size		Depth		State			
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg. <u>38'</u>		Shoe Joint <u>38'</u>		Cement Amount Ordered <u>350 com 31-CL 21-GEL</u>			
Meas Line		Displace <u>46BL</u>		Common <u>350</u>			
<b>EQUIPMENT</b>							
Pumptrk <u>17</u>	No.	Cementer <u>Shane</u>	Helper				
Bulktrk	No.	Driver <u>Walt</u>	Driver				
Bulktrk <u>12</u>	No.	Driver <u>Clayton</u>	Driver				
<b>JOB SERVICES &amp; REMARKS</b>							
Remarks:		Hulls					
Rat Hole		Salt					
Mouse Hole		Flowseal					
Centralizers		Kol-Seal					
Baskets		Mud CLR 48					
D/V or Port Collar		CFL-117 or CD110 CAF 38					
<u>8 5/8 on bottom Est Circulation</u>		Sand					
<u>Mix 350 SKN Displace Plug</u>		Handling <u>370</u>					
<u>Cement Circulated</u>		Mileage					
<b>FLOAT EQUIPMENT</b>							
		Guide Shoe <u>8 5/8</u>					
		Centralizer <u>Rubber Plug</u>					
		Baskets <u>Baffle Plate</u>					
		AFU Inserts					
		Float Shoe					
		Latch Down					
		Pumptrk Charge <u>Long Surface</u>					
		Mileage <u>23</u>					
		Tax					
		Discount					
		Total Charge					
Signature <u>G. Peckatz</u>							