



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1098848
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: _____



1098848

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

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Hertel Oil Company LLC
Well Name	Legleiter-Stecklein Unit 1
Doc ID	1098848

All Electric Logs Run

Dual Induction Log
Microresistivity Log
Dual Compensated Porosity
Sonic Bond Log

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

October 25, 2012

David Hertel
Hertel Oil Company LLC
704 E 12TH ST
HAYS, KS 67601-3440

Re: ACO1
API 15-051-26364-00-00
Legleiter-Stecklein Unit 1
SW/4 Sec.33-14S-18W
Ellis 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,
David Hertel

OPERATOR

Company: HERTEL OIL COMPANY, LLC
 Address: 704 E 12TH STREET
 HAYS, KANSAS 67601

Contact Geologist: MIKE HERTEL

Contact Phone Nbr:

Well Name: LEGLEITER-STECKLEIN UNIT # 1

Location: SE NW SW Sec.33-14s-18w

Pool: INFIELD

State: KANSAS

API: 15-051-26,364-00-00

Field: ENGEL WEST

Country: USA

Scale 1:240 Imperial

Well Name: LEGLEITER-STECKLEIN UNIT # 1
 Surface Location: SE NW SW Sec.33-14s-18w
 Bottom Location:
 API: 15-051-26,364-00-00
 License Number: 33625
 Spud Date: 8/14/2012 Time: 12:15 PM
 Region: ELLIS COUNTY
 Drilling Completed: 8/21/2012 Time: 3:52 AM
 Surface Coordinates: 1725' FSL & 900' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 2037.00ft
 K.B. Elevation: 2045.00ft
 Logged Interval: 2900.00ft To: 3750.00ft
 Total Depth: 3750.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: FRESH WATER GEL/CHEMICAL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 1725' FSL
 E/W Co-ord: 900' FWL

LOGGED BY

Company: SOLUTIONS CONSULTING
 Address: 108 W 35TH
 HAYS, KS 67601

Phone Nbr: (785) 639-1337

Logged By: Geologist

Name: HERB DEINES

CONTRACTOR

Contractor: DISCOVERY DRILLING, INC.
 Rig #: 4
 Rig Type: MUD ROTARY
 Spud Date: 8/14/2012 Time: 12:15 PM
 TD Date: 8/21/2012 Time: 3:52 AM
 Rig Release: 8/22/2012 Time: 5:00 AM

ELEVATIONS

K.B. Elevation: 2045.00ft Ground Elevation: 2037.00ft
 K.B. to Ground: 8.00ft

NOTES

RECOMMENDATION TO RUN CASING BASED ON HIGH STRUCTURAL POSITION OF WELL TO OFFSET

WELL LOGGED BY PIONEER ENERGY SERVICES. LOGS RAN WERE: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG AND MICRORESISTIVITY LOG

FORMATION TOPS AND CHRONOLOGY OF DAILY ACTIVITY AND DEPTH

LEGLEITER-STECKLEIN UNIT # 1

1725' FSL & 900' FWL, SW/4

Sec.33-14s-18w

2037' GL 2045' KB

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>
Anhydrite	1215+ 830	1220+ 825
B-Anhydrite	1259+ 786	1259+ 786
Topeka	3007- 962	3003- 958
Heebner Shale	3273-1228	3272-1227
Toronto	3291-1246	3293-1248
LKC	3319-1274	3320-1275
BKC	3563-1518	3550-1505
Arbuckle		3655-1610
RTD	3750-1705	
LTD		3751-1706

SUMMARY OF DAILY ACTIVITY

- 8-15-12** RU, spud, set 8 5/8" surface casing to 220' with 150 sacks of common, 2% Gel, 3%CC, plug down 5:50PM, slope ½ degree.
- 8-16-12** 630', drilling
- 8-17-12** 2091', drilling, Anhydrite 1215'-1259'
- 8-18-12** 2792', drilling, finish displacing 2842'
- 8-19-12** 3270', drilling, DST # 1 3306'-3380'
- 8-20-12** 3525', drilling, DST # 2, 3600'-3643'
- 8-21-12** 3750', RTD, logging, DST # 3 straddle test, run production casing
- 8-22-12** 3750', finish cementing bottom and top stages, rig down

DST # 1 TEST SUMMARY



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hertel Oil Company LLC

33-14s-18w Ellis

704 E. 12th st
Hays Ks 67601

LegleiterStecklein#1

Job Ticket: 47442 DST#: 1

ATTN: Mike Hertel

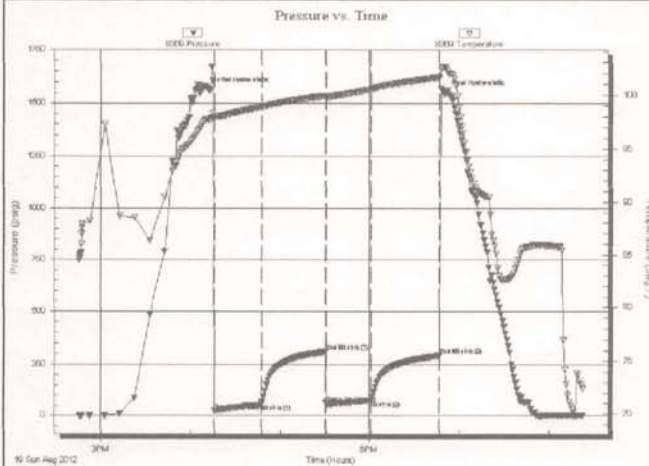
Test Start: 2012.08.19 @ 14:45:36

GENERAL INFORMATION:

Formation: LKC A-D	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Ray Schwager
Time Tool Opened: 16:16:01	Unit No: 42
Time Test Ended: 20:23:30	
Interval: 3306.00 ft (KB) To 3380.00 ft (KB) (TVD)	Reference Elevations: 2044.00 ft (KB)
Total Depth: 3380.00 ft (KB) (TVD)	2036.00 ft (CF)
Hole Diameter: 7.85 inches Hole Condition: Fair	KB to GR/CF: 8.00 ft

Serial #: 8369 Inside	Capacity: 8000.00 psig
Press@RunDepth: 76.85 psig @ 3313.00 ft (KB)	Last Calib.: 2012.08.19
Start Date: 2012.08.19 End Date: 2012.08.19	Time On Btm: 2012.08.19 @ 16:12:01
Start Time: 14:45:36 End Time: 20:23:30	Time Off Btm: 2012.08.19 @ 18:50:31

TEST COMMENT: 30-IFP-w k to strg in 12 min
45-ISIP-no bl
30-FFP-w k to a fr bl surface to 4"bl
45-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1562.76	97.73	Initial Hydro-static
4	24.73	97.94	Open To Flow (1)
36	59.99	98.86	Shut-In(1)
79	310.12	99.94	End Shut-In(1)
79	64.31	99.83	Open To Flow (2)
109	76.85	100.56	Shut-In(2)
155	291.17	101.65	End Shut-In(2)
159	1547.59	102.56	Final Hydro-static


Recovery

Length (ft)	Description	Volume (bbl)
0.00	170'GIP	0.00
40.00	SOCVM 2% O48% W50% M	0.29
90.00	OCM 8% O92% M	1.26

Gas Rates

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

DST # 2 TEST SUMMARY

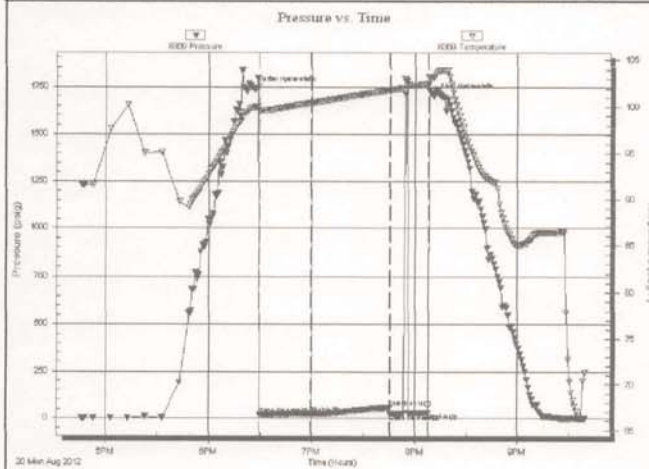
 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT	
	Hertel Oil Company LLC	33-14s-18w Ellis
	704 E. 12th st Hays Ks 67601	LegleiterStecklein#1
ATTN: Mike Hertel	Job Ticket: 47443	DST#: 2
	Test Start: 2012.08.20 @ 16:45:54	

GENERAL INFORMATION:

Formation: Congl sd	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Ray Schwager
Time Tool Opened: 18:29:19	Unit No: 42
Time Test Ended: 21:39:48	Reference Elevations: 2044.00 ft (KB)
Interval: 3600.00 ft (KB) To 3643.00 ft (KB) (TVD)	2036.00 ft (CF)
Total Depth: 3643.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.85 inches Hole Condition: Fair	

Serial #: 8369 Inside	Capacity: 8000.00 psig
Press@RunDepth: 24.58 psig @ 3608.00 ft (KB)	Last Calib.: 2012.08.20
Start Date: 2012.08.20	End Date: 2012.08.20
Start Time: 16:45:54	End Time: 21:39:48
	Time On Btm: 2012.08.20 @ 18:26:49
	Time Off Btm: 2012.08.20 @ 20:10:49

TEST COMMENT: 30-IFP-surface bl , died in 24min
 45-ISIP-no bl
 20-FFP-no bl , flushed tool , pulled tool




PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1734.38	99.99	Initial Hydro-static
3	20.18	99.47	Open To Flow (1)
33	24.58	100.42	Shut-In(1)
79	59.25	101.83	End Shut-In(1)
79	26.48	101.83	Open To Flow (2)
101	29.38	102.52	Shut-In(2)
104	1704.08	103.22	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
20.00	OCM 20%O80%M	0.10

* Recovery from multiple tests

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

DST # 3 STRADDLE TEST SUMMARY

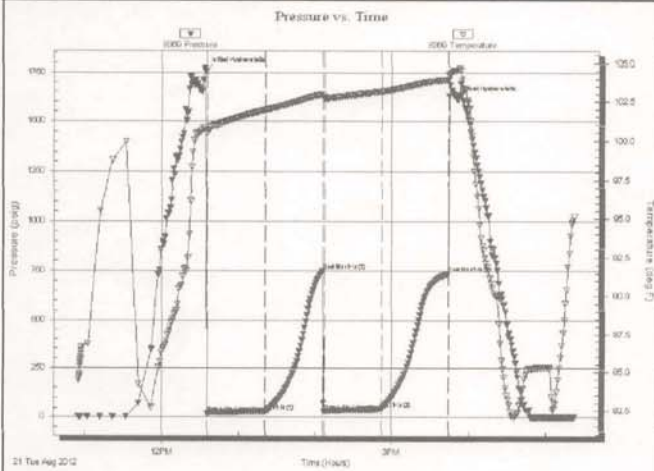
 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Hertel Oil Company LLC 704 E. 12th st Hays Ks 67601 ATTN: Mike Hertel	33-14s-18w Ellis LegleiterStecklein#1 Job Ticket: 47444 DST#: 3 Test Start: 2012.08.21 @ 10:55:16

GENERAL INFORMATION:

Formation: LKC "J"	Test Type: Conventional Straddle (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Ray Schwager
Time Tool Opened: 12:35:41	Unit No: 42
Time Test Ended: 17:22:40	Reference Elevations: 2044.00 ft (KB)
Interval: 3438.00 ft (KB) To 3526.00 ft (KB) (TVD)	2036.00 ft (CF)
Total Depth: 3750.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.85 inches Hole Condition: Fair	

Serial #: 8369	Inside		
Press@RunDepth: 42.35 psig @ 3441.00 ft (KB)	Capacity: 8000.00 psig		
Start Date: 2012.08.21	End Date: 2012.08.21	Last Calib.: 2012.08.21	
Start Time: 10:55:16	End Time: 17:22:40	Time On Btm: 2012.08.21 @ 12:34:11	
		Time Off Btm: 2012.08.21 @ 15:50:40	

TEST COMMENT: 45-IFP-w k to strg in 19min
 45-ISIP-1/4"to surface bl bk
 45-FFP-strg bl thru-out
 45-FSIP-no bl bk



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1758.61	100.81	Initial Hydro-static
2	18.37	100.48	Open To Flow (1)
47	31.34	101.94	Shut-In(1)
92	748.84	103.01	End Shut-In(1)
93	28.73	102.78	Open To Flow (2)
138	42.35	103.17	Shut-In(2)
190	738.49	103.96	End Shut-In(2)
197	1616.61	104.57	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	730'Gip	0.00
60.00	MGO10%M54%G36%O	0.57
10.00	O&GCM 10%G20%O70%M	0.14
5.00	CO	0.07

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

* Recovery from multiple tests

ROCK TYPES



ACCESSORIES

MINERAL

- ∩ Glauconite
- P Pyrite
- Sandy
- △ Chert White
- ◊ Euhed rhombs of dol or i

FOSSIL

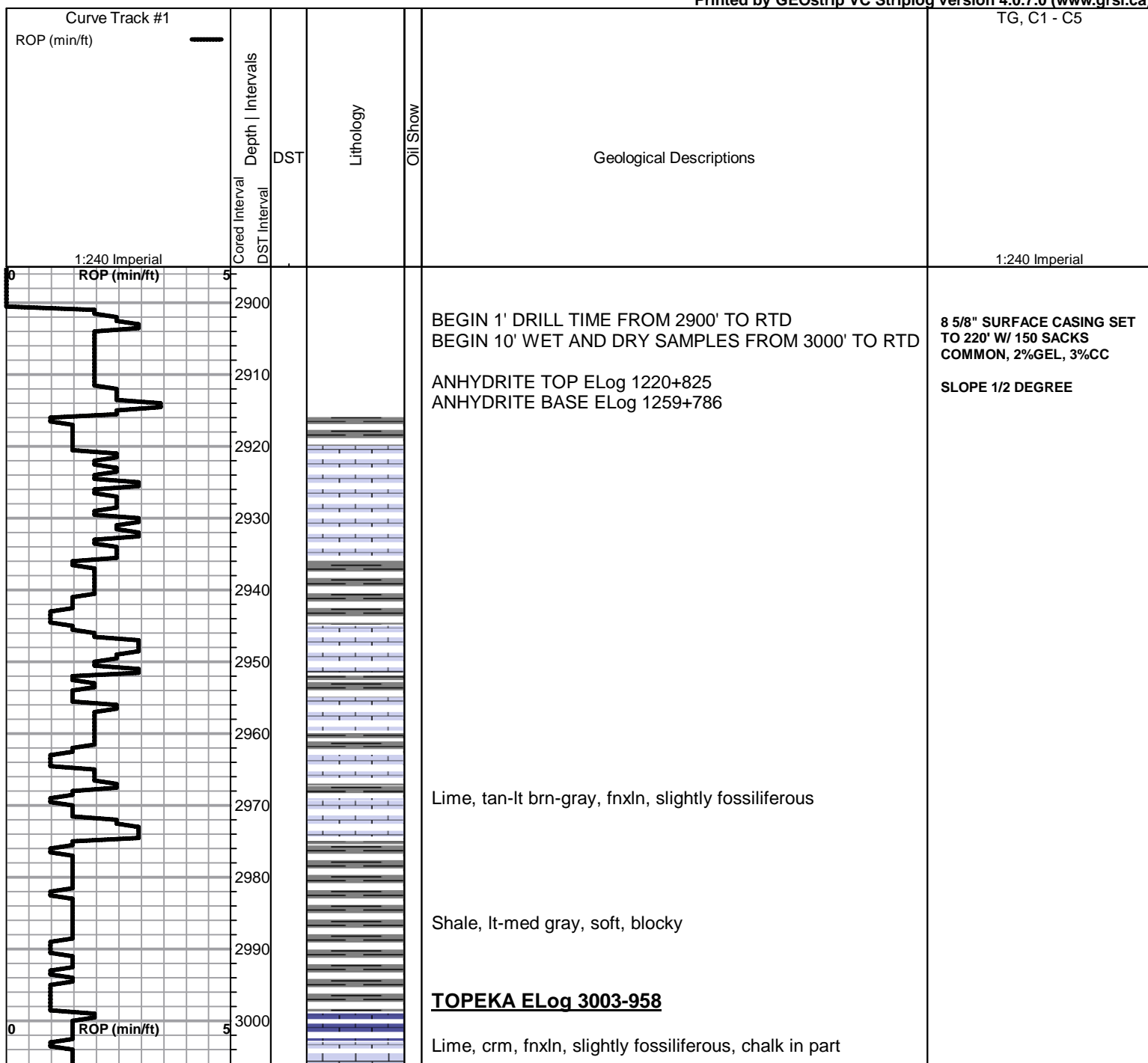
- F Fossils < 20%
- ◊ Oolite
- ☛ Plant Remains
- ☛ Oomoldic

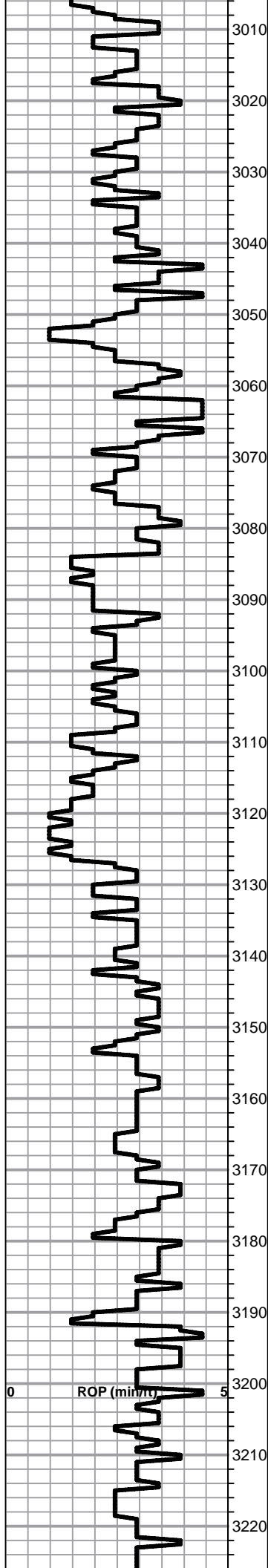
OTHER SYMBOLS

DST

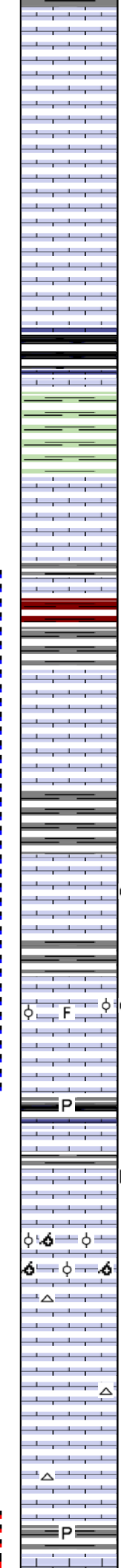
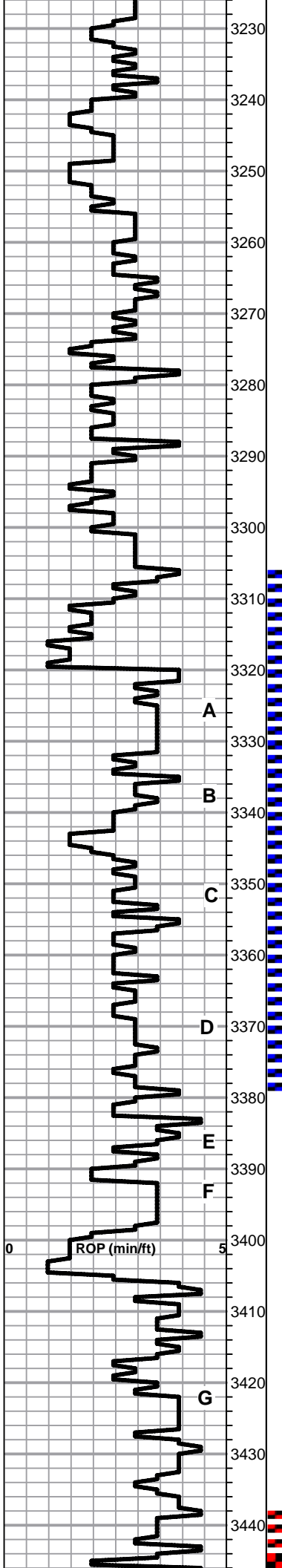
- DST Int
- DST alt
- Core

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





- 3010 Lime, med brn, fnxln, fossiliferous
- 3020 Lime, crm-lt brn-gray, fnxln
- 3030 Lime, crm-lt brn-gray, fnxln, fossil casts
- 3040 Lime, crm-brn, fnxln
- 3050 Lime, crm-med brn, fnxln-granular, NS
- 3060 Lime, crm-brn, fnxln with gray speckling, chalk in part
- 3070 Shale, med-dark gray, blocky
- 3080 Lime, tan-lt gray, fnxln
- 3090 Lime, lt-med brn, fnxln, chalky in part
- 3100 Lime, tan-med brn, fnxln, slightly fossiliferous
- 3110 Lime, tan-lt brn-gray, fnxln, hard on break
- 3120 Lime, tan-brn, fnxln
- 3130 Shale, gray-black carbonaceous
- 3140 Lime, tan-med brn, fnxln, fossiliferous-fusulinids, chalky
- 3150 Lime, tan-lt brn, fnxln, fossiliferous-fusulinids, chalky in part
- 3160 Lime, offwhite, fnxln, hard on break
- 3170 Lime, crm, fnxln, chalk in part, very clean looking lime
- 3180 Lime, crm-lt brn, fnxln
- 3190 Shale, gray-black carbonaceous, blocky
- 3200 Lime, offwhite, fnxln, organic residue
- 3210 Lime, crm-lt brn, fnxln, hard on break
- 3220 Lime, crm-lt tan-med brn, fnxln, slightly fossiliferous



Shale, med gray, soft blocky

Lime, crm-lt brn, fnxln

Lime, crm-lt tan, fnxln

Lime, lt tan, fnxln-granular in part

Lime, lt tan-offwhite, fnxln-granular in part

HEEBNER SHALE ELog 3272-1227

Shale, black carbonaceous, fissile, blocky
Lime, lt-med brn, vfxln

Shale, lime green, soft

TORONTO ELog 3293-1248

Lime, crm, fnxln, chalk in part, NS

Lime, crm-tan, fnxln, hard on break

LKC ELog 3320-1275

Lime, lt-med brn, fnxln, zone appears tight on microlog

Lime, lt-med brn, fnxln

Shale, gray, maroon, soft blocky

Lime, lt brn, medxln with vuggy porosity with scattered staining, very light odor with NFO

Lime, lt brn, fnxln, oolitic with fossil fragments with scattered vuggy porosity with scattered staining, good odor

Lime, crm-lt brn, fnxln

Shale, gray-black carbonaceous, pyritic

Lime, crm-lt gray, fnxln

Lime, crm, fnxln, fossiliferous, oolitic in part, gilsonitic stain

Lime, crm, fnxln-granular, oomoldic in part with chalk, NS

Lime, crm, fnxln, scattered white chert

Lime, crm, fnxln

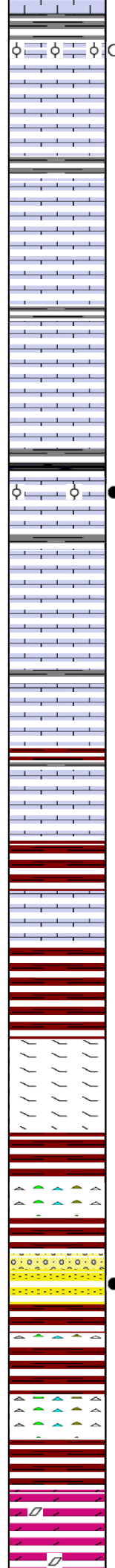
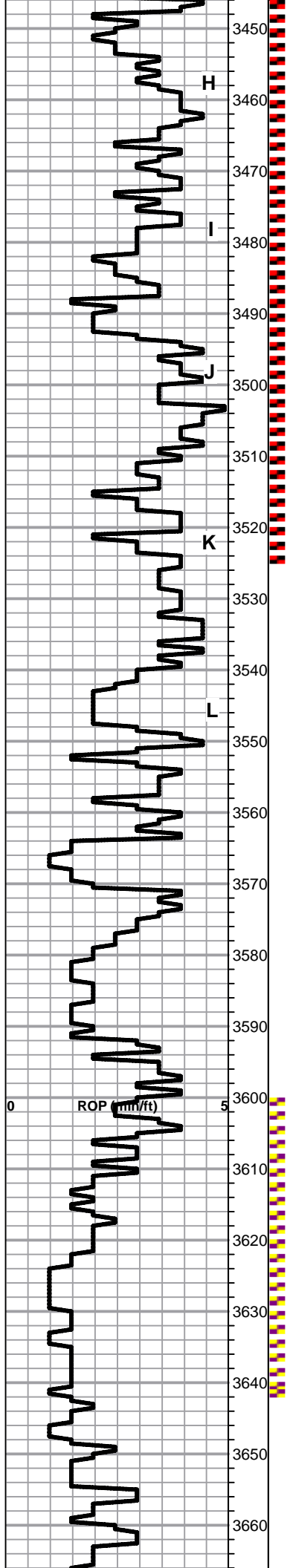
Lime, crm, fnxln

Lime, crm, fnxln
Shale, med gray, pyritic

DST # 1 3306'-3380'
SEE HEADER FOR TEST SUMMARY

ZONE SHOULD BE PERFORATED FROM 3350'-3356' AND TESTED PRIOR TO ABANDONMENT OF WELL. ZONE MAY BE DEPLETED FROM AREA PRODUCTION IN SAME ZONE

ZONE PRODUCTIVE IN AREA WELLS BUT MAY BE DEPLETED AND ACT AS A THIEF ZONE. PRIOR TO ABANDONMENT OF WELL, PERFORATE 3366-69 AND TEST FOR PRODUCTION



Lime, crm, fnxln with scattered oolitic with lt staining with very light odor
 Lime, crm, fnxln
 Lime, crm, fnxln, NS
 Lime, crm, fnxln, NS
 Lime, crm, fnxln, chalky in part
 Lime, crm, fnxln
 Lime, crm, mostly fnxln with oolitic in part with saturated staining, lt odor and SFO
 Lime, crm-tan, fnxln, slightly fossiliferous
 Lime, crm-tan, fnxln
 Lime, crm-tan, fnxln-granular, chalk in part
BKC ELog 3550-1505
 Lime, crm, fnxln
 Shale, reddish brn, soft with light red wash
 Lime, crm, fnxln, scattered pyrite clusters.
 Shale, reddish brn, soft
MARMATON MARKER ELog 3591-1546
 Lime, crm-lt brn, dolomitic, fnxln with scattered chert
 Shale, reddish brn, vari colored shales in mix
 Chert, vari colored
 Sandstone, friable, oil saturated, vlt odor, well sorted, angular-subrounded.
 Mix of reddish brn and vari colored shales and cherts
 Chert, vari colored
ARBUCKLE ELog 3655-1610
 Dolomite, crm, fnxln-granular

ZONE ISN'T WELL DEVELOPED BUT SHOULD BE PERFORATED FROM 3452'-56 AND TESTED PRIOR TO ABANDONMENT OF WELL

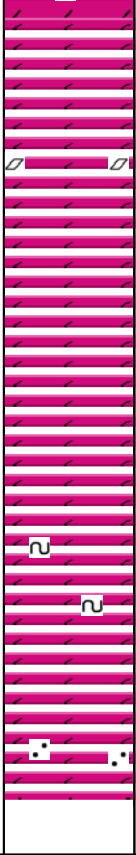
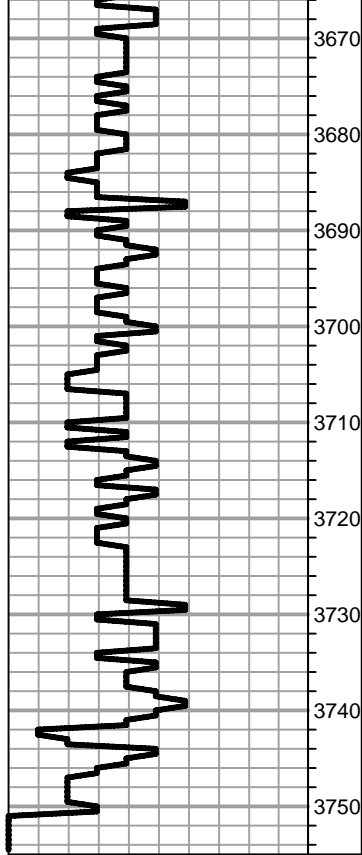
DST # 3 STRADDLE TEST 3438'-3526' SEE HEADER FOR TEST SUMMARY

ZONE SHOULD BE PERFORATED FROM 3514-16, ACIDIZED AND TESTED

DST # 2 3600'-3643' SEE HEADER FOR TEST SUMMARY

WHILE GOOD SHOWS OF OIL WERE NOTED IN SAND, THE TEST INDICATED ZONE HAD VERY LITTLE REMAINING PRESSURE. THE ZONE SHOULD BE PERFORATED PRIOR TO WELL ABANDONMENT FROM 3624'-28 AND TESTED TO CONFIRM POTENTIAL IF ANY

ARBUCKLE NOT PRODUCTIVE AT THIS MINUS IN AREA



Dolomite, crm, fn-medxln, euhedral crystal development

Dolomite, crm, fn-cxln, granular and sucrosic

Dolomite, crm-ivory, fn-cxln

Dolomite, ivory, fn-cxln

Dolomite, ivory, fn-med xln, sticky white clay in part

Dolomite, ivory, fn-medxln, scattered specks of glauconite

Dolomite, ivory-crm, fn-mdxln, scattered quartz grain inclusions

RTD 3750-1705 LTD 3751-1706



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
8/22/2012	23214

BILL TO
Hertel Oil Company, LLC 704 East 12th Street Hays, KS 67601

- Acidizing
 - Cement
 - Tool Rental
- RECEIVED**
OCT 22 2012

KCC WICHITA

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Légleiter-Ste...	Ellis	Discovery Drilling...	Oil	Development	Two-Stage Ceme...	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				10	Miles	6.00	60.00
579D	Pump Charge - Two-Stage				1	Job	1,850.00	1,850.00
402-5	5 1/2" Centralizer				7	Each	70.00	490.00T
403-5	5 1/2" Cement Basket				2	Each	250.00	500.00T
408-5	5 1/2" D.V. Tool & Plug Set				1	Each	3,000.00	3,000.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	350.00	350.00T
417-5	5 1/2" D.V. Latch Down Plug & Baffle				1	Each	200.00	200.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
330	Swift Multi-Density Standard (MIDCON II)				175	Sacks	16.50	2,887.50T
325	Standard Cement				150	Sacks	13.50	2,025.00T
284	Calseal				7	Sack(s)	35.00	245.00T
283	Salt				750	Lb(s)	0.20	150.00T
285	CFR-1				75	Lb(s)	4.00	300.00T
276	Flocele				100	Lb(s)	2.00	200.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
290	D-Air				3	Gallon(s)	35.00	105.00T
581D	Service Charge Cement				325	Sacks	2.00	650.00
583D	Drayage				661.79	Ton Miles	1.00	661.79
	Subtotal							14,599.29
	Sales Tax Ellis County						6.30%	716.78
We Appreciate Your Business!							Total	\$15,316.07



CHARGE TO: Hotel D.O.J
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET N° 23214

PAGE 1 OF 2

WELL/PROJECT NO. #1
 LEASE: loglebe-Stedden unit COUNTY/PARISH: KS CITY: Hays DATE: 02 AVE 12 OWNER:
 TICKET TYPE: SERVICE SALES CONTRACTOR: WET ORDER NO.:
 WELL TYPE: oil WELL CATEGORY: Development JOB PURPOSE: 2 stage cement plug long string DELIVERED TO: location WELL LOCATION: 33-14-18
 INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	UM	CITY	UM	UNIT PRICE	AMOUNT
		LOC	ACCT							
575		1		MILEAGE TRK 114	10	mi			6.00	60.00
579		1		Pump Charge	1	ea			1850.00	1850.00
402		1		Centralize	53	in		7 ea	70.00	490.00
403		1		Cement basket	53	in		2 ea	250.00	500.00
408		1		DV tool	53	in		1 ea	3000.00	3000.00
407		1		Floater shoe w AUTO FILE	53	in		1 ea	350.00	350.00
417		1		DV latch down plug & baffle	53	in		1 ea	200.00	200.00
419		1		Rotating head rental	53	in		1 ea	200.00	200.00
									RECEIVED	
									OCT 22 2012	

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: _____ TIME SIGNED: 5:00 P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY: AGREED DISAGREED UNDECIDED
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO
 WE UNDERSTOOD AND MET YOUR NEEDS? YES NO
 EQUIPMENT WITHOUT DELAY? YES NO

SWIFT OPERATOR: Aguyal

TOTAL 15,316.07

JOB LOG

SWIFT Services, Inc.

DATE 22 AUG 12 PAGE NO. 7

CUSTOMER Reed OT WELL NO. #1 LEASE Lambert - Skelton JOB TYPE 2 stage TICKET NO. 23214

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 SK 3M0 150 SK EA-2 RTD 3700' 89jt 5 1/2 14" casing 50e jt 42' 3747 total pipe Cent 1,3,5,7,9, 11/62 Bst 4,63 DV tool #63 1188'
0015	1215							on loc TRK 114 start 5 1/2" 14" casing in well Drop ball - circulate - ROTATE
0105								Drop ball - circulate - ROTATE
0235		4 3/4	12				200	Pump 500gal mud flush
		4 3/4	20				200	Pump 20 bbl KCL flush
0314		4 3/4	36				200	MIX EA-2 150 SK @ 19.3 ppg Drop 1st stage plug wash out pump & line Displace plug
0400		6 3/4					200	Displace plug
		6 3/4	78				800	
0415		6 3/4	90				1550	Land plug - Release pressure to truck Drop Bomb
0425							1700	Open DV tool
0430			7					Plug RH - MH 305kg - 205kg
0445		9 3/4	90				300	MIX 3M0 cement 1255kg @ 11.2 ppg Drop 2nd stage plug
0455		4					300	Displace plug
		4	14				450	- cement to surface <u>500 to 514</u>
0530		3	29				2000	Land plug - close DV tool Release pressure to truck - dried up
0635								wash truck Rack up
0650								job complete TJ, Dave Koon, Blaine

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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: 8/20/2012
 Invoice # 826

P.O.#:

Due Date: 9/19/2012

Division: Russell

Invoice

Contact:

Hertel Oil Company
 Address/Job Location:
 Hertel Oil Company
 704 E 12th
 Hays Ks 67601

Reference:

LEGLEITER-STECKLEN 1

Description of Work:

SURFACE JOB

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	No				
Common-Class A	150	\$ 2,045.29	Yes				
Bulk Truck Mat-Material Service Charge	158	\$ 353.18	No				
Calcium Chloride	5	\$ 266.34	Yes				
Pump Truck Mileage-Job to Nearest Camp	7	\$ 78.08	No				
Premium Gel (Bentonite)	3	\$ 54.59	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	7	\$ 45.69	No				

Invoice Terms:

Net 30

SubTotal: \$ 3,863.71

Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (579.56)

SubTotal for Taxable Items: \$ 2,011.28

SubTotal for Non-Taxable Items: \$ 1,272.87

Total: \$ 3,284.15

Tax: \$ 126.71

6.30% Ellis County Sales Tax

Amount Due: \$ 3,410.86

Applied Payments:

Balance Due: \$ 3,410.86

Thank You For Your Business!

Post 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 785-833-2025
Cell 785-833-1041

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

No. 826

Date	Sec	Twp	Range	County	State	On Location	Finish
8-16-12	33	14	18	ELLIS	KANSAS		5:50 PM
Lease #	Well No. #1	Location 183# Antoinette Rd. - 1/2 W. N/INTO					
Contract #4	Owner HERTEL OIL COMPANY LLC			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.				Charge To HERTEL OIL COMPANY L.L.C.			
Hole Size 12 1/4"	T.D. 221'	Street 704 E. 12TH STREET					
CSG	Depth 220'	City HAYS				State KS, 67601	
ITBg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.					
Tool	Shoe Joint 15'	Cement Amount Ordered 150 com - 3cc - 2 gal					
Meas Line	Displace 1335	EQUIPMENT					
				Common 150			
				Poz. Mix			
				Gel. 3			
				Calcium 5			
				Hulls			
				Salt			
				Flowseal			
				Kol-Seal			
				Mud CLR 48			
				CFL-117 or CD110 CAF 38			
				Sand			
				Handling 28			
				Mileage			
				Guide Shoe			
				Centralizer			
				Basket			
				AFU inserts			
				Floor Shoe			
				Latch Down			
				Pumpjack Chords 500 ft			
				Mileage 7			
THANK YOU!				RECEIVED			
Signature: <i>Willie D. Wilson</i>				OCT 22 2012			
				Tax			
				Discount			
				Total Charge			

KCC WICHITA