



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1165696
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: _____



1165696

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> _____	PRODUCTION INTERVAL: _____ _____
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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. 7282

Date	8-7-13	Sec.	14	Twp.	15	Range	19	County	Ellis	State	KS	On Location		Finish	11:30 PM
Lease								Location				Antonino 35 1/4 W N Into			
Well No. #2								Owner							
Contractor Discovery #3								To Quality Oilwell Cementing, Inc.							
Type Job Plug								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 1/4				T.D. 3616				Charge To Hertel Oil							
Csg. Drill Pipe				Depth				Street							
Tbg. Size				Depth				City				State			
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.				Shoe Joint				Cement Amount Ordered 17.5 6% gel 4% gel 1/4 flow							
Meas Line								Displace							
EQUIPMENT															
Pumptrk 5				No. Cementer Helper David				Common 105							
Bulktrk 12				No. Driver Lonnie M				Poz. Mix 70							
Bulktrk PU				No. Driver Brett				Gel. 6							
								Calcium							
JOB SERVICES & REMARKS															
Remarks: Werth-pfannenstiel #2								Hulls							
Rat Hole 30 sk								Salt							
Mouse Hole 15 sk								Flowseal 50#							
Centralizers								Kol-Seal							
Baskets								Mud CLR 48							
D/V or Port Collar								CFL-117 or CD110 CAF 38							
								Sand							
								Handling 183							
1st plug @ 1250 - 40 sk								Mileage							
2nd plug @ 450 - 80 sk								8% FLOAT EQUIPMENT							
3rd plug @ 40 - 10 sk								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Wood Plug-1							
								Pumptrk Charge plug							
								Mileage 14							
								Tax							
								Discount							
								Total Charge							
Signature <i>Adam Jaseber</i>															

OPERATOR

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

Contact Geologist: MIKE HERTEL
 Contact Phone Nbr: 785-628-2445
 Well Name: WERTH-PFANNENSTIEL UNIT # 2
 Location: N2 NW SW SE Sec.14-15s-19w
 Pool: INFIELD
 State: KANSAS

API: 15-051-26,572-00-00
 Field: MARTINA NORTH
 Country: USA



Scale 1:240 Imperial

Well Name: WERTH-PFANNENSTIEL UNIT # 2
 Surface Location: N2 NW SW SE Sec.14-15s-19w
 Bottom Location:
 API: 15-051-26,572-00-00
 License Number: 33625
 Spud Date: 8/1/2013 Time: 3:30 PM
 Region: ELLIS COUNTY
 Drilling Completed: 8/7/2013 Time: 7:34 AM
 Surface Coordinates: 1150' FSL & 2310' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2002.00ft
 K.B. Elevation: 2010.00ft
 Logged Interval: 2900.00ft To: 3616.00ft
 Total Depth: 3616.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.4014258 Latitude: 38.7434431
 N/S Co-ord: 1150' FSL
 E/W Co-ord: 2310' FEL

LOGGED BY

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

Phone Nbr: (785) 639-1337
 Logged By: Geologist Name: HERB DEINES/CHRIS NEELY

CONTRACTOR

Contractor: DISCOVERY DRILLING INC.
 Rig #: 3
 Rig Type: MUD ROTARY
 Spud Date: 8/1/2013 Time: 3:30 PM
 TD Date: 8/7/2013 Time: 7:34 AM
 Rig Release: 8/8/2013 Time: 12:45 AM

ELEVATIONS

NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL BASED ON NEGATIVE RESULTS OF TWO DSTS AND LACK OF RESERVOIR DEVELOPMENT. THE # 2 WELL WAS VERY SIMILIAR TO THE # 1 WELL IN STRUCTURE AND RESERVOIR DEVELOPMENT.

OPEN HOLE LOGS BY GEMINI WIRELINE: DUAL INDUCTION LOG, COMPENSATED DENSITY NEUTRON LOG, MICRO RESISTIVITY LOG.

DRILL STEM TESTS BY TRILOBITE TESTING INC: ONE(1) CONVENTIONAL TEST AND ONE (1) STRADDLE TEST

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY

	WERTH-PFANNENSTIEL # 2 1150' FSL & 2310' FWL, SW/4 Sec. 14-15s-19w 2002' GL 2010' KB		WERTH-PFANNENSTIEL # 1 1150'FSL & 1505'FEL Sec 14-15s-19w Reference Well
<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>
Anhydrite	1192+ 818	1200+ 810	+ 809
B-Anhydrite	1240+ 770	1238+ 772	+ 774
Topeka	2996- 986	2994- 984	- 988
Heebner Shale	3261-1251	3259-1249	-1250
Toronto	3280-1270	3279-1269	-1269
LKC	3306-1296	3304-1294	-1294
BKC	3550-1540	3550-1540	-1542
Marmaton	3601-1591		-1593
Congl. Sand	3614-1604		-1607
RTD	3616-1606		
LTD		3616-1606	

SUMMARY OF DAILY ACTIVITY

- 8-01-13 RU, spud 5:30 PM,
- 8-02-13 545', drilling 12 ¼" surface casing hole
- 8-03-13 1200', set 8 5/8" surface pipe to 1199' w/ 450 sxs common 2% gel, 3% CC, plug down 3:00 AM, slope ¾ degree, WOC 12 hrs
- 8-04-13 2125', drilling
- 8-05-13 2880', drilling
- 8-06-13 3410', drilling, short trip in Toronto, start DST # 1 3608' to 3616' Conglomerate sand @11:15PM

8-07-13

3616', finished DST # 1 at 6:41AM, logged down DST # 1, straddle test # 2 3314' to 3386' A-F benches LKC, finished DST #2 at 5:00PM, decision to P&A due to negative results. Plug down 11:30PM

DST # 1 CONGLOMERATE SAND 3608' TO 3616'

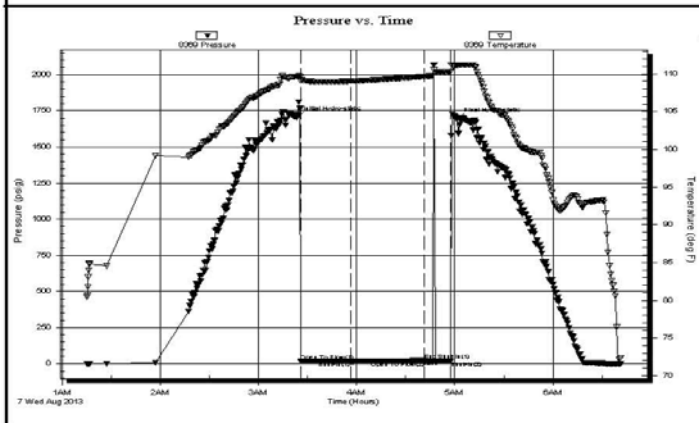
	DRILL STEM TEST REPORT	
	Hertel Oil Company LLC 704 E 12th st Hays Ks 67601-3440 ATTN: Mike Hertel	14-15s-19w Ellis Werth-Pfannestiel#1 Job Ticket: 54265 DST#: 1 Test Start: 2013.08.07 @ 01:15:06

GENERAL INFORMATION:

Formation: Congl Sd	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock ft (KB)	Tester: Ray Schwager
Time Tool Opened: 03:26:01	Unit No: 70
Time Test Ended: 06:41:30	Reference Elevations: 2010.00 ft (KB)
Interval: 3608.00 ft (KB) To 3616.00 ft (KB) (TVD)	2002.00 ft (CF)
Total Depth: 3616.00 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: 16.40 psig @ 3609.00 ft (KB)	Last Calib.: 2013.08.07
Start Date: 2013.08.07 End Date: 2013.08.07	Time On Btm: 2013.08.07 @ 03:23:16
Start Time: 01:15:06 End Time: 06:41:30	Time Off Btm: 2013.08.07 @ 05:01:31

TEST COMMENT: 30-IFP-vy w k surface bl died in 4min
 45-ISIP-no bl
 15-FFP-no bl , flushed tool no help



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1703.60	109.64	Initial Hydro-static
3	18.58	109.05	Open To Flow (1)
33	16.40	109.03	Shut-In(1)
78	21.92	109.67	End Shut-In(1)
79	16.69	109.67	Open To Flow (2)
95	17.23	110.29	Shut-In(2)
99	1694.56	111.15	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
3.00	Mud	0.01

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

DST # 2 STRADDLE TEST 3314' TO 3386' "C" TO "F" LKC BOTTOM PACKER HELD

	DRILL STEM TEST REPORT	
	Hertel Oil Company LLC 704 E 12th st Hays Ks 67601-3440 ATTN: Mike Hertel	14-15s-19w Ellis Werth-Pfannestiel#1 Job Ticket: 54266 DST#: 2 Test Start: 2013.08.07 @ 10:25:15

GENERAL INFORMATION:

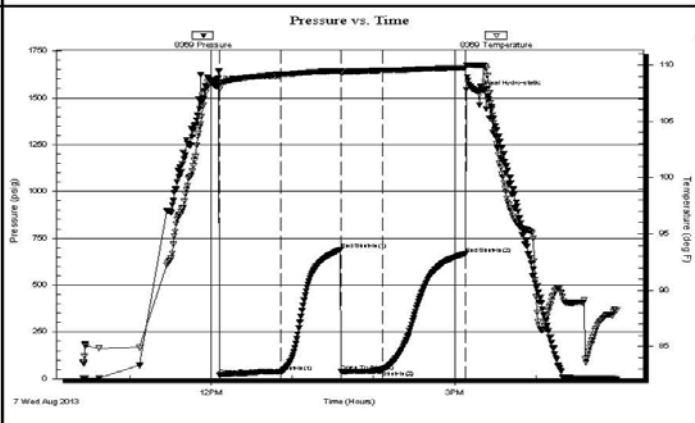
Formation: **LKC C-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:06:10
 Time Test Ended: 17:00:09
Interval: 3314.00 ft (KB) To 3386.00 ft (KB) (TVD)
 Total Depth: 3616.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Straddle (Reset)
 Tester: Ray Schwager
 Unit No: 70
 Reference Elevations: 2010.00 ft (KB)
 2002.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8369 Inside

Press@RunDepth: 43.46 psig @ 3325.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2013.08.07 End Date: 2013.08.07	Last Calib.: 2013.08.07
Start Time: 10:25:15 End Time: 17:00:09	Time On Btm: 2013.08.07 @ 12:03:55
	Time Off Btm: 2013.08.07 @ 15:16:54

TEST COMMENT: 45-IFP-w k bl thru-out 1/4"to 1/2"bl
 45-ISIP-no bl
 30-FFP-surface bl thru-out
 60-FSP-no bl



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1559.60	108.71	Initial Hydro-static
3	18.18	107.83	Open To Flow (1)
48	37.31	109.16	Shut-In(1)
92	690.70	109.47	End Shut-In(1)
93	39.68	109.29	Open To Flow (2)
123	43.46	109.51	Shut-In(2)
185	666.69	109.74	End Shut-In(2)
193	1531.31	109.97	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
45.00	SOCM 1%O99%M	0.36

* Recovery from multiple tests

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

ACCESSORIES

MINERAL

- ▲ Chert, dark
- P Pyrite
- Varicolored chert

FOSSIL

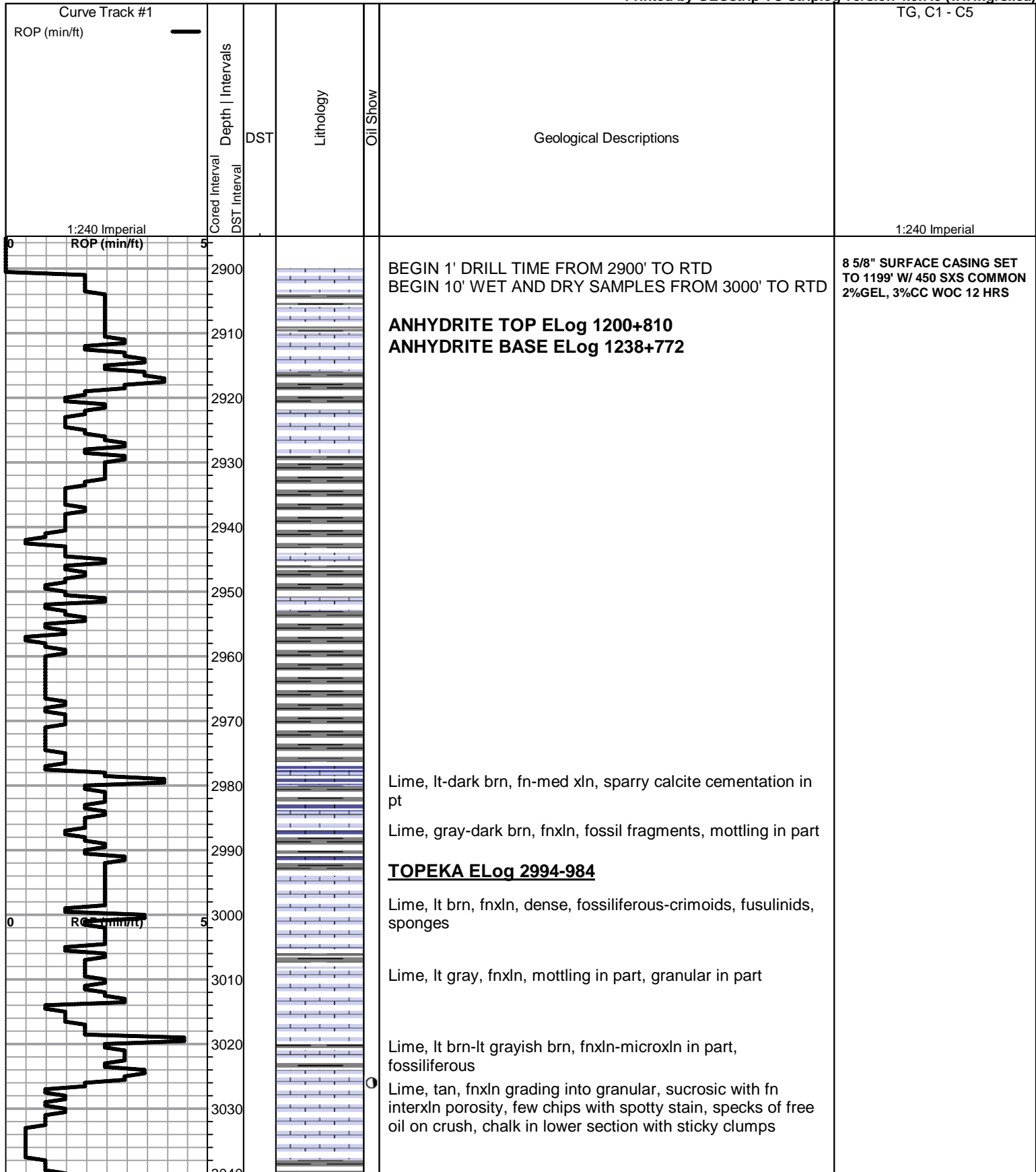
- Oolite
- ⊗ Oomoldic

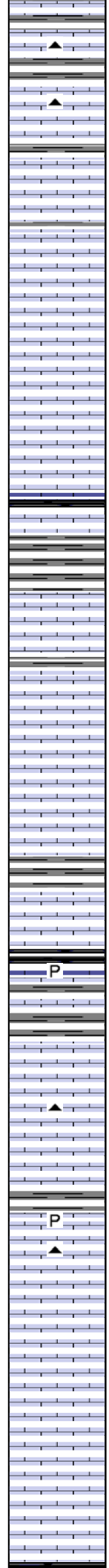
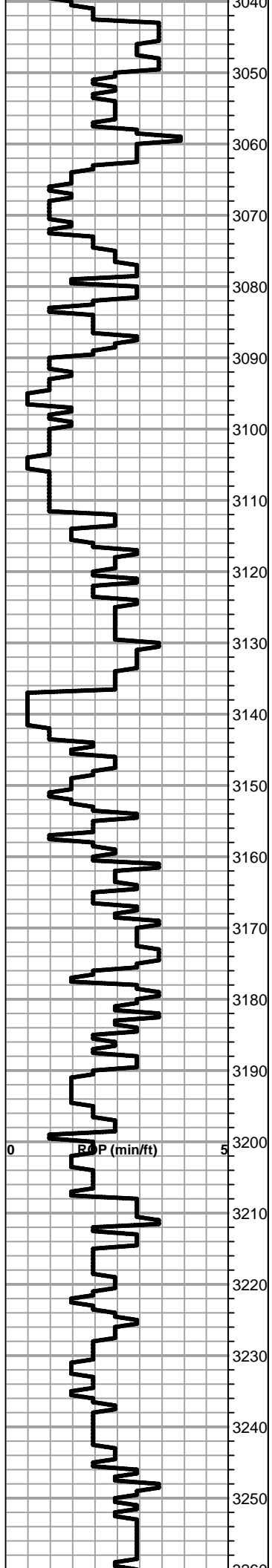
OTHER SYMBOLS

DST

- DST Int
- DST alt
- Core

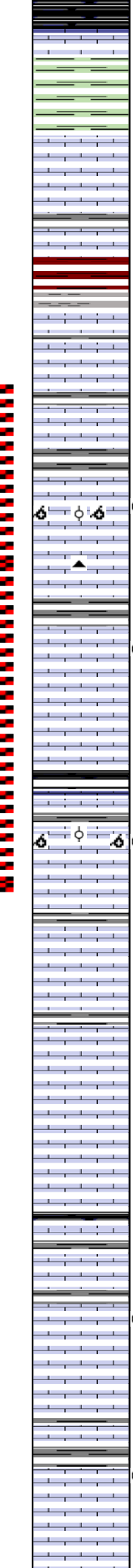
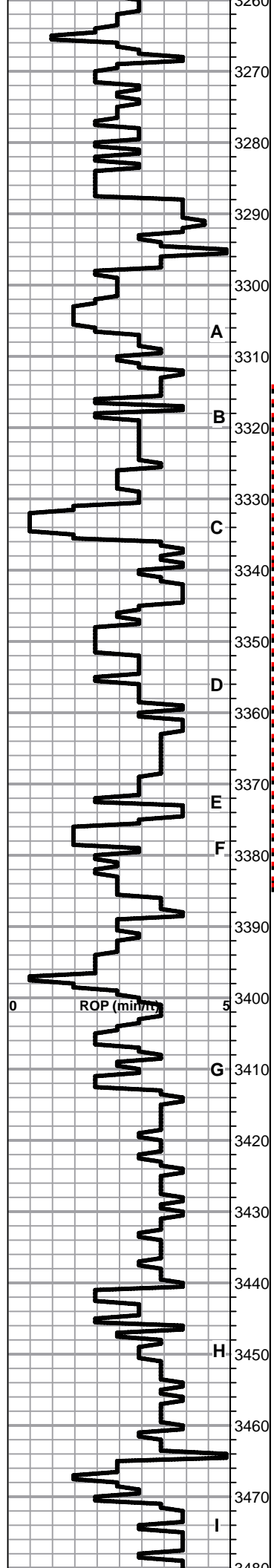
Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





- 3040 Lime, brn, fn-vfxln, fossiliferous in part
- 3050 Lime, tan-gray, fnxln-granular in part, fossiliferous, traces of sparry calcite in part
- 3060 Lime, tan, fnxln grading into granular, slightly fossiliferous, NS
- 3070 Lime, lt brn, fnxln, slight chalk in part
- 3080 Lime, lt brn, fnxln-granular in part, bedded chalk with scattered lt mottling in part
- 3090
- 3100 Lime, tan-lt gray, granular, chalk in part with lt mottling
- 3110 Shale, black carbonaceous
- 3120 Shale, grayish green, soft sticky clumps in part
- 3130 Lime, tan-brn, fn-vfxln, lithographic and very clean
- 3140 Lime, tan-lt brn, fn-vfxln grading into granular, NS,
- 3150 Lime, tan-lt brn, fnxln
- 3160 Lime, tan-lt brn, fnxln
- 3170 Lime, tan, fnxln, fossiliferous in part
- 3180 Shale, black carbonaceous
Lime, dark gray, vfxln
- 3185 Shale, gray, soft blocky
- 3190 Lime, tan-brn, fnxln-granular in part, bedded chalk in part
- 3200 Lime, tan, fn-vfxl, fossiliferous in part
- 3210 Lime, lt-grayish brn, fnxln, dense, slightly fossiliferous
- 3220 Lime, tan, fn-vfxln, NS
- 3230 Lime, crm-tan, fnxln-granular
- 3240 Lime, tan, fnxln-granular, fossilifeorus
- 3250 Lime, brn, fn-vfxln

HEEBNER SHALE ELog 3259-1249



Shale, black carbonaceous, fissile, blocky

Shale, lime green, soft blocky to soft mud

TORONTO ELog 3279-1269

Lime, crm, fnxln, NS

Lime, crm-tan, fn-vfxln, bedded chalk NS

Shale, reddish brn, soft with lt red wash

LKC ELog 3304-1294

Lime, crm-tan, fnxln-granular in part, slight chalk, NS

Lime, tan, fnxln, hard on crush

Lime, tan, fnxln

○ Lime, tan, oolitic/oomoldic, few chips with spotty stain, SFO on crush

▲ Lime, tan-grayish lt brn, fn-vfxln

○ Lime, tan, fnxln-granular, spotty staining, No Odor, NFO

Lime, tan, fn-vfxln

Shale, gray-black carbonaceous

△ ○ Lime, tan-lt brn, oolitic/oomoldic, spotting staining

Lime, tan-lt brn, fn-vfxln

Lime, tan-lt gray, fn-vfxln,

Lime, tan, fnxln-granular in part, NS

Lime, tan, fn-vfxln

Lime, crm-tan, fn-vfxln, clean appearance

Lime, crm, fnxln grading to gray trashy near shale boundary

Shale, black carbonaceous

Lime, tan-lt brn, fn-vfxln, hard on crush

○ Lime, tan, fnxln, spotty stain, NFO, appears poorly developed

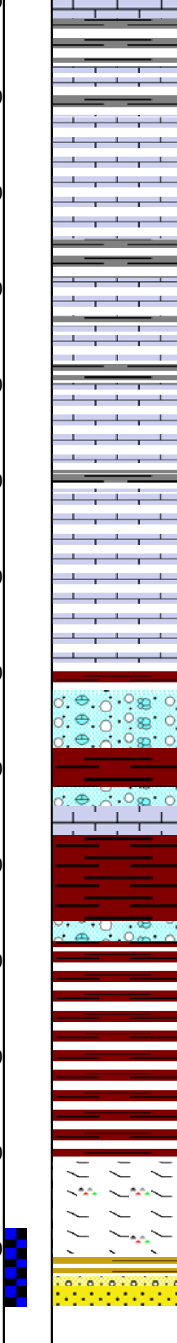
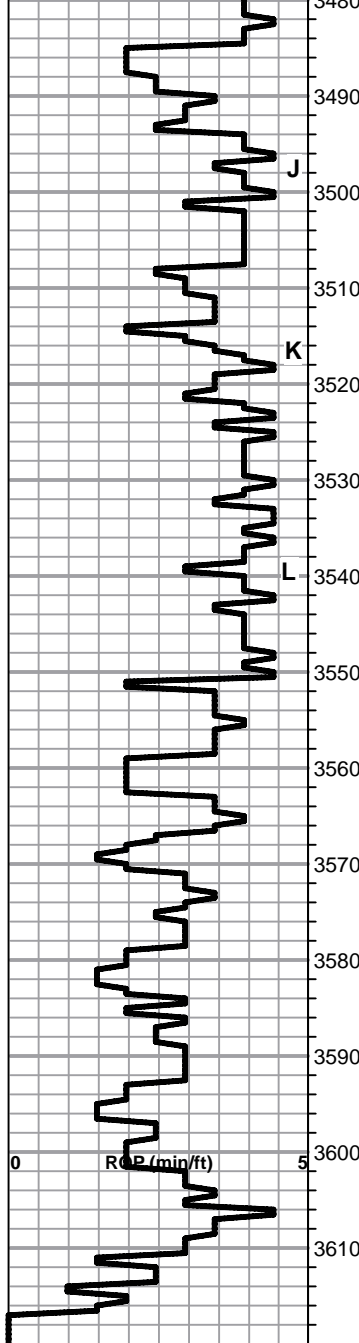
Lime, tan, fn-vfxln

○ Lime, tan-lt brn, oolitic/oomoldic in part, spotty stain

Lime, tan-lt brn, fn-vfxln

DST # 2 STRADDLE TEST
3214'-3386' SEE HEADER FOR
TEST SUMMARY

The microlog shows no permeability thru this interval



Shale,lt-med gray, soft blocky

Lime, crm, fnxln, granular in part, bedded chalk, NS

Lime, off white-tan, fn-vfxln, NS

Lime, crm, fn-vfxln, bedded chalk with chalky matrix in part

Lime, crm-tan-lt grayish brn, fn-vfxln

Lime, crm-lt grayish brn, fn-vfxln, hard on crush

Lime, tan, fn-vfxln, bedded chalk in part

Lime, tan, fn-vfxln, bedded chalk, hard on crush

BKC ELog 3550-1540

Shale, dark reddish brn, sandy, firm-hard on crush
Lime, clastic mix in part grading to tan, fnxln

Shale, varicolored, firm, blocky

Shale, reddish brn-deep brn, soft blocky

Shale, reddish brn-deep brn, soft blocky

Shale, reddish brn-deep brn, soft blocky

MARMATON SPL 3601-1591

Lime, crm-lt brn, fnxln, dolomitic in part, orange chert

CONGLOMERATE SAND SPL 3614-1604

SS, quartz-recrystallized dolomite, poor sort, sat stain, lt odor, specks of free oil

1st plug @ 1250' w/ 40sxs
2nd plug @ 450' w/ 80 sxs
3rd plug @ 40' w/ 10 sxs
Rathole w/ 30 sxs
Mousehole w/ 15 sxs
Used 175 sxs 60/40 poz 4%gel,
1/4 # flocele per sx

**DST # 1 3608' TO 3616' SEE
HEADER FOR TEST SUMMARY**

Zone similar to # 1 well which
was tested and recovered oil
and a lot of salt water. Top of
zone not a clean sand with
permeability

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 31, 2013

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

Re: ACO1
API 15-051-26572-00-00
Werth-Pfannenstiel Unit 2
SE/4 Sec.14-15S-19W
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,
Dave Hertel