



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1209406
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: _____

1209406

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> _____
---	--

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: _____ _____
--	--	---



Musgrove

Geologist's Report

Company: Pauley Oil
 Lease: Katrina #3
 Field: Stoltenberg
 Location: S2-NW-SW-SW (800 FSL & 330 FWL)
 Sec: 15 Twsp: 16S Rge: 10W
 County: Ellsworth State: Kansas
 GL: 1889 KB: 1902

Contractor: Ninnescah Drilling
 Spud: 1/6/14 Comp: 1/12/14
 RTD: 3373 LTD: N/A
 Mud Up: 2600' Type Mud: Chemical/Displaced

Samples Saved From: 2700' to RTD
 Drilling Time Kept From: 2700' to RTD
 Samples Examined From: 2700' to RTD
 Geological Supervision From: 2800' to RTD
 Geologist on Well: Clint Musgrove

Surface Casing: 8 5/8" @ 440'

Logs: No Logs

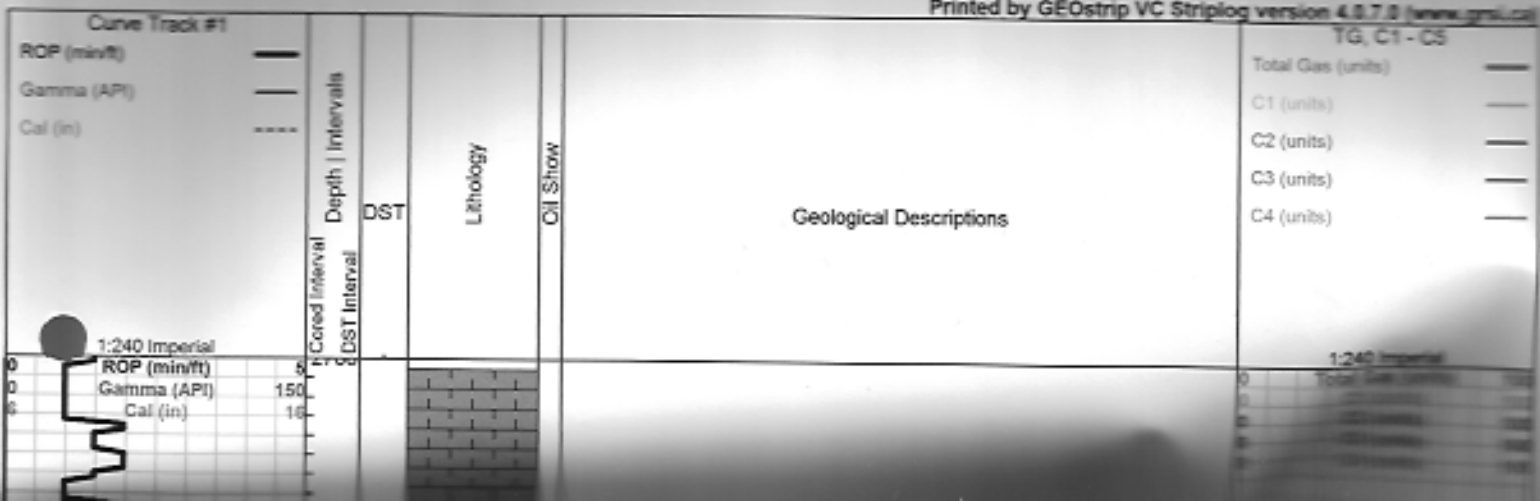
ROCK TYPES



OTHER SYMBOLS

DST
 ■ DST Int
 ■ DST alt

Printed by GEOstrip VC Striplog version 4.8.7.0 (www.gmi.ca)





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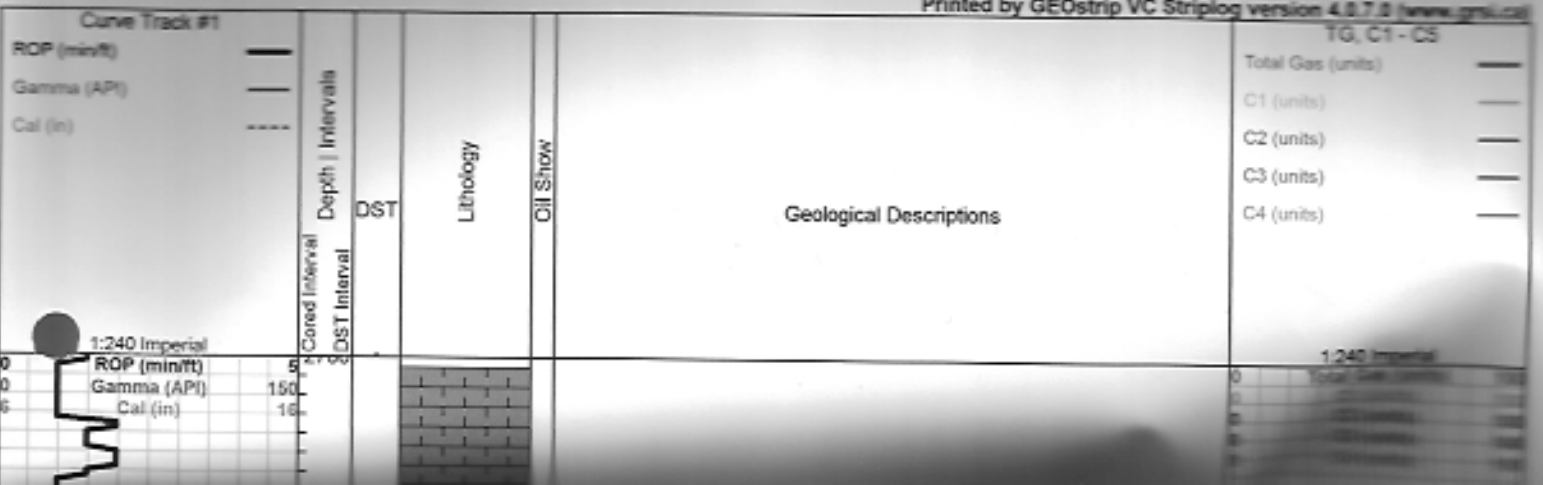
ROCK TYPES

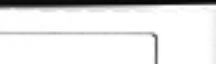
Dolomite Limestone > shale, gry shale, red Sandstone
 Limestone < shale, gm Carbon Sh Shale

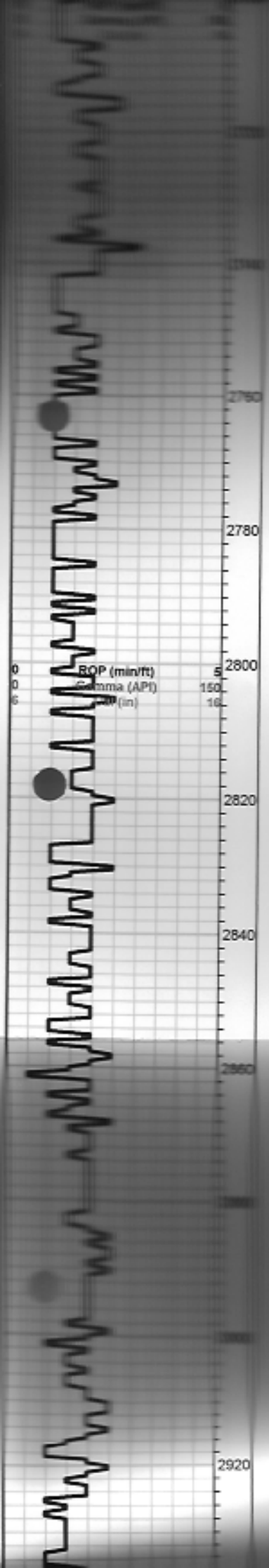
OTHER SYMBOLS

DST
 DST Int
 DST alt

Printed by GEOstrip VC Striplog version 4.8.7.8 (www.gri.ca)







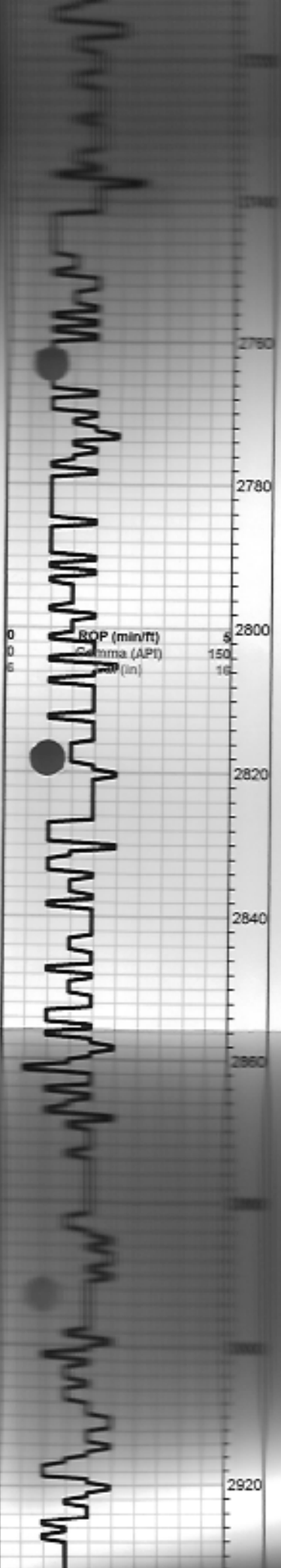
1	Total Gas (units)	100
2	C1 (units)	100
3	C2 (units)	100
4	C3 (units)	100
5	C4 (units)	100

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

LS; gry/wh, chlky, poor poristy, n/s, no odor

LS; wh, ool in part, fl brn str, n/s, no odor

Heebner 2914.0 (-1012.0)
Blk carb sh



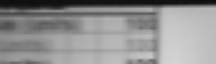
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

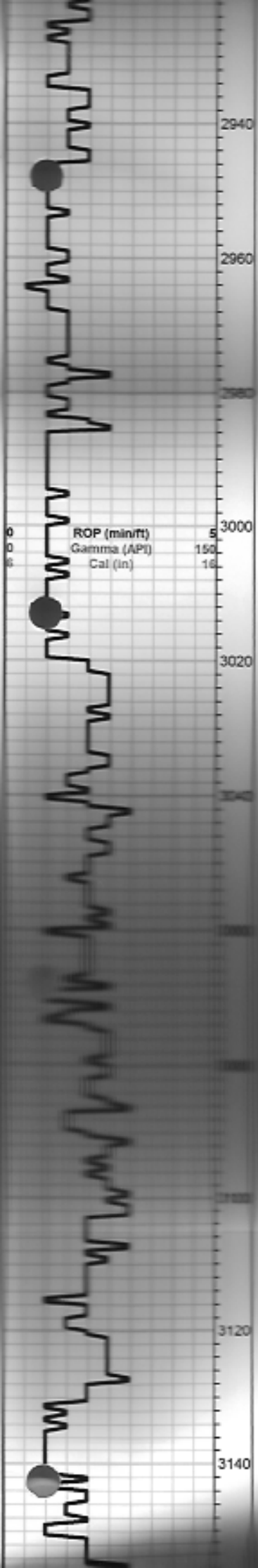
LS; gry/wh, chlky, poor poristy, n/s, no odor

LS; wh, ool in part, ft brn str, n/s, no odor

Heebner 2914.0 (-1012.0)

Blk carb sh





Toronto 2932.0 (-1030.0)

LS; wh/crm, chlky, n/s, barren

Douglas 2946.0 (-1044.0)

Sand, dirty gry, vfg, poorly sorted, poor porosity, + mica

aa + gr sh

Sand, vfg, mica, poorly developed porosity

aa

Brown Lime 3019.0 (-1117.0)

LS; brn, dense, cherty in part

Lansing 3042.0 (-1140.0)

LS; tan, fxl, scatt porosity, n/s

LS; gry, highly cherty, n/s

LS; crm/tan, good porosity, some fxl, n/s, n/s

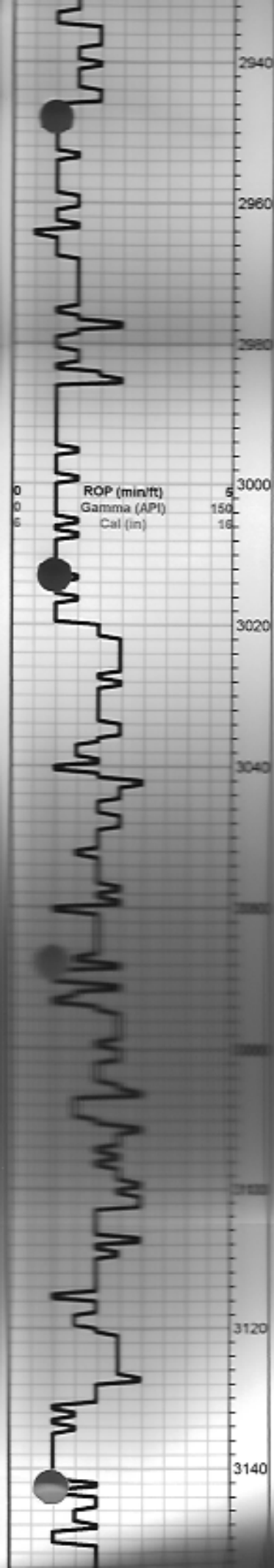
LS; tan, fxl, dense

LS; tan/brn, fxl, slightly ool, dense, poor porosity

LS; crm/tan, fxl, cherty in part, scatt porosity, n/s

LS; crm, cherty, chlky, n/s, n/s

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



Toronto 2932.0 (-1030.0)

LS; wh/crm, chlky, n/s, barren

Douglas 2946.0 (-1044.0)

Sand, dirty gry, vfg, poorly shorted, poor porosity, + mica

aa + gr sh

Sand, vfg, mica, poorly developed porosity

aa

Brown Lime 3019.0 (-1117.0)

LS; brn, dense, cherty in part

Lansing 3042.0 (-1140.0)

LS; tan, fxl, scatt porosity, n/s

LS; gry, highly cherty, n/s

LS; crm/tan, good porosity, some, if lamble str, n/s

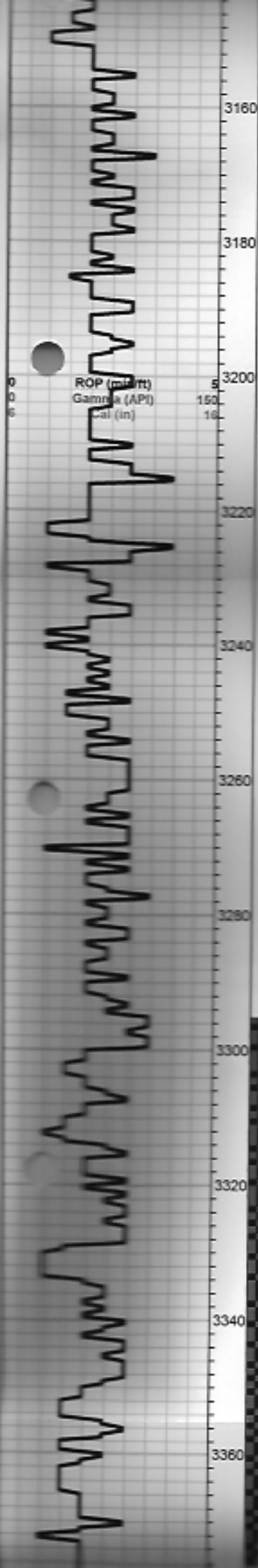
LS; tan, fxl, cherty in part, dense

LS; tan/brn, fxl, slightly ool, dense, poor porosity

LS; crm/tan, fxl, cherty in part, scatt porosity, n/s

LS; crm, cherty, chky, n/s, no odor

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



LS; crm/tan, good porosity, oom, barren n/s

LS; tan, fxl, foss in part, tan chert, n/s, no odor

LS; crm, foss, oom, ool, poorly developed porosity n/s

LS; crm/tan, ool, ft bk stn n/s, no odor

LS; tan/crm, cherty, dense

LS; crm, fxl, ft blk stn, n/s

LS; crm, fxl, gry chert, chlky, n/s

LS; gry, med xl, far foss, chalky

aa

v.c sh

BKC 3308.0 (-1406.0)

LS; crm, foss, oom, tr red sh

LS: crm cherty, oom, scatt porosity n/s

LS; crm, fxl, dense, ft bk stn, n/s, no odor

Simpson 3340.0 (-1438.0)

Sand; wh, rounded, poor porosity, n/s

Simpson Sand 3357.0 (-1455.0)

Sand; gr, wh, fxl, scatt porosity, sfo, no odor
Blue/green tuq. sh

Arbuckle 3370.0 (-1468.0)

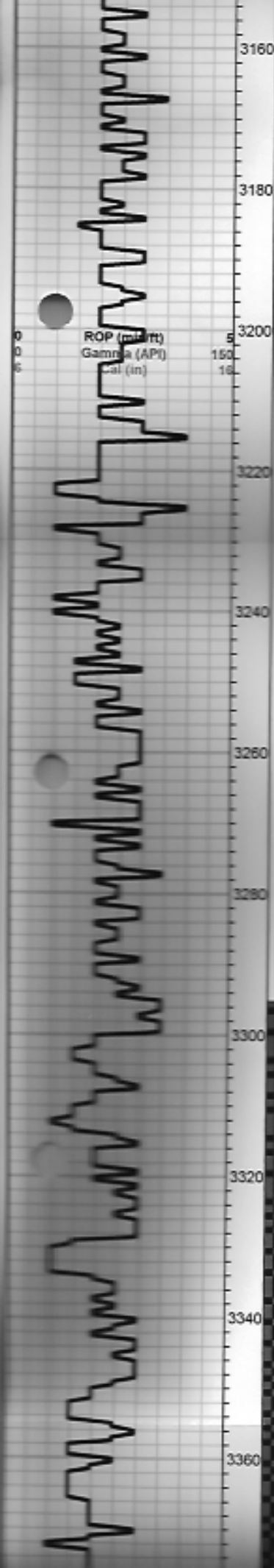
Dol; tan, medxl, scatt porosity, oom in part, sfo.

Total Gas (units)	100
C1 (units)	100
C2 (units)	100
C3 (units)	100
C4 (units)	100

DST #1
3296-3373
10-30-30-45
BOB 3 min

Recovery:
60' SGOCM (10% gas, 10% oil 80% mud)
185' GMCO (30% gas 50% oil 20% mud)
440' GO (30% gas 70% oil)
315' GOCM (20% gas, 25% oil 55% mud)
130' GO (30% gas 70% oil)

Pressures:
ISIP: 1086 psi
FSIP: 1088 psi
IF: 51-150 psi
FF: 172-442 psi



LS; crm/tan, good porosity, oom, barren n/s

LS; tan, fxl, foss in part, tan chert, n/s, no odor

LS; crm, foss, oom, ool, poorly developed porosity n/s

LS; crm/tan, ool, ft bk stn n/s, no odor

LS; tan/crm, cherty, dense

LS; crm, fxl, ft blk stn, n/s

LS: crm, fxl, gry chert, chilky, n/s

LS; gry, med xl, far foss, chalky

aa

v.c sh

BKC 3308.0 (-1406.0)

LS; crm, foss, oom, tr red sh

LS: crm cherty, oom, scatt porosity n/s

LS; crm, fxl, dense, ft bk stn, n/s, no odor

Simpson 3340.0 (-1438.0)

Sand; wh, rounded, poor porosity, n/s

Simpson Sand 3357.0 (-1455.0)

Sand; gr, wh, fxl, scatt porosity, sfo, no odor
Blue/green tuq. sh

Arbuckle 3370.0 (-1468.0)

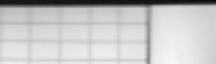
Dol; tan, med xl, scatt porosity, oom in part, sfo

Total Gas (units)	100
C1 (units)	100
C2 (units)	100
C3 (units)	100
C4 (units)	100

DST #1
3296-3373
10-30-30-45
BOB 3 min

Recovery:
60' SGOCM (10% gas, 10% oil 80% mud)
185' GMCO (30% gas 50% oil 20% mud)
440' GO (30% gas 70% oil)
315' GOCM (20% gas, 25% oil 55% mud)
130' GO (30% gas 70% oil)

Pressures:
ISIP: 1086 psi
FSIP: 1088 psi
IF: 51-150 psi
EE: 172-442 psi



Sand; gr, wh, txl, scatt porosity, sfo, no odor

Blue/green tuq. sh

● **Arbuckle 3370.0 (-1468.0)**

● Dol; tan, medxl, scatt porosity, oom in part, sfo,
● very ft odor

RTD 3373.0 (-1471.0)

ISIP: 1086 psi

FSIP: 1088 psi

IF: 51-150 psi

FF: 172-442 psi

HSH: 1684-1619 psi

3380

3380

- RTD 3373.0 (-1471.0)
- Dol; tan, medxl, scatt porosity, oom in part, sfo,
- very ft odor

RTD 3373.0 (-1471.0)

FF: 172-442 psi
HSH: 1684-1619 psi





**TRIOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Pauley, Gary dba Pauley Oil

15-16s-10w Ellsworth, KS

314 5th St
Clafin KS 67535

Katrina #3

Job Ticket: 55495

DST#: 1

ATTN: Clint Musgrove

Test Start: 2014.01.12 @ 01:05:00

GENERAL INFORMATION:

Formation: Arb

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:14:45

Time Test Ended: 09:03:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3296.00 ft (KB) To 3373.00 ft (KB) (TVD)

Total Depth: 3373.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1899.00 ft (KB)

1891.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8319 Inside

Press@RunDepth: 441.71 psig @ 3305.00 ft (KB)

Start Date: 2014.01.12

End Date: 2014.01.12

Start Time: 01:05:00

End Time: 09:03:00

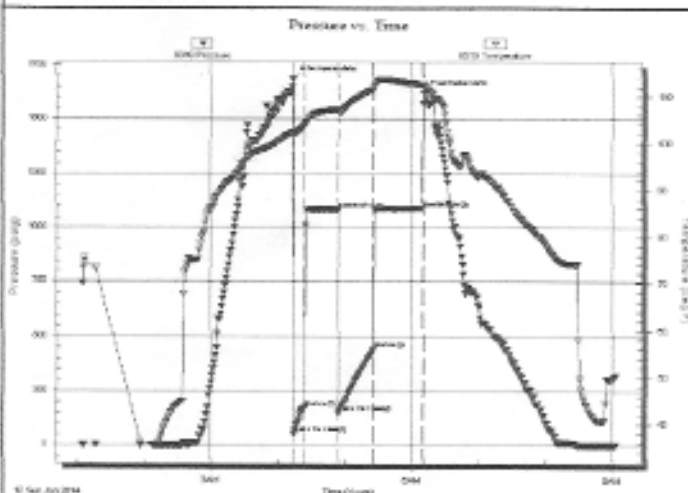
Capacity: 8000.00 psig

Last Calib.: 2014.01.12

Time On Btm: 2014.01.12 @ 04:13:45

Time Off Btm: 2014.01.12 @ 06:11:30

TEST COMMENT: IF-BOB in 3min
ISI-No blow
FF-BOB in 3min
FS-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.50	102.21	Initial Hydro-static
1	51.35	101.68	Open To Flow (1)
11	172.24	103.85	Shut-In (1)
41	1086.45	107.12	End Shut-In (1)
41	149.83	106.84	Open To Flow (2)
72	441.71	111.44	Shut-In (2)
117	1088.11	112.47	End Shut-In (2)
118	1618.99	112.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SGOCM 10%G 10%O 80%M	0.84
185.00	GMCO 30%G 20%M 50%O	2.60
440.00	GO 30%G 70%O	6.17
315.00	GOCM 20%G 25%O 55%M	4.42
130.00	GO 30%G 70%O	1.82
0.00	120ft GIP	0.00

Gas Rates

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

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. 7633

Date	1-8-14	Sec.	15	Twp.	16	Range	10	County	Ellsworth	State	KS	On Location	8:30 AM	Finish	11:00 AM
Lease								Location		Wilson S to RDP HE					
Katrina								Well No.		3					
Contractor								Owner		Y N Einto					
Ninnescah #101								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								Surface							
Hole Size				T.D.				Charge To				Pauley oil			
12 1/4				442											
Csg.				Depth				Street				City State			
8 3/8															
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				180 5x Common			
20 ft				20 ft											
Meas Line				Displace				3% CC 2% Bel							
EQUIPMENT															
Pumptrk		No.		Cementer		Helper		Common		180					
15				Mitt				Poz. Mix							
Bulktrk		No.		Driver		Driver		Gel.		3					
3				Cody				Calcium		6					
Bulktrk		No.		Driver		Driver		Hulls							
D4				Clayton				Salt							
JOB SERVICES & REMARKS															
Remarks:								Katrina #3							
Rat Hole															
Mouse Hole															
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
Cement did								Handling 189							
Circulate								Mileage							
Z								FLOAT EQUIPMENT							
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
Thank you								Pumptrk Charge Surface							
								Mileage 36							
								Tax							
								Discount							
								Total Charge							
Signature								Richard P. Bump							

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. 7047

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-12-14	15	16	10	Ellsworth	KS		9:00 PM
Location				Wilson S PRd 4E 1/4 N E into			

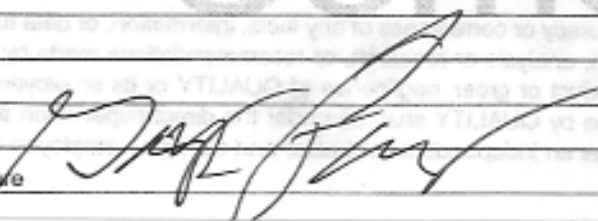
Lease	Well No.	Owner	
Katrina	3	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Contractor	Type Job	Charge To	
Minnescah	Production String	Pawley oil	
Hole Size	T.D.	Street	
7 7/8	3,373		
Csg.	Depth	City	
5 1/2	3,386		
Tbg. Size	Depth	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	
19.50	19.50	200 com 10% Salt 5% G/3000	
Meas Line	Displace		
	79 1/2 bbl		

EQUIPMENT

Pumptrk	No.	Cementor	Common
5		Helper Matt	200
Bulktrk	No.	Driver	Poz. Mix
14		Chad	
Bulktrk	No.	Driver	Gel.
Pu		Brett	
			Calcium

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole 30 sx	Salt 18
Mouse Hole 15 sx	Flowseal
Centralizers 1,3,5,7,9,11,13,15,17,19	Kol-Seal 1000#
Baskets 2 + 4	Mud CLR 48 - 500 Gal
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling 200 228
Mix 500 Gal Mud Flush	Mileage
Plug Rat & Mouse hole	5 1/2
Mix 135 sx down 5 1/4	FLOAT EQUIPMENT
Displaced 79 1/2 BBL of Water	Guide Shoe
	Centralizer - 10
	Baskets - 2
	AFU Inserts
	Float Shoe - 1
	Latch Down - 1
	Rubber Plug - 1
	Pumptrk Charge prod String
	Mileage 36

Signature 	Tax
	Discount
	Total Charge

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/>

Shari Feist Albrecht, Chair
Jay Scott Emler, Commissioner
Pat Apple, Commissioner

Sam Brownback, Governor

June 17, 2014

Gary Pauley
Pauley, Gary dba Pauley Oil
314 5TH ST
CLAFLIN, KS 67525

Re: ACO-1
API 15-053-21298-00-00
Katrina 3
SW/4 Sec.15-16S-10W
Ellsworth County, Kansas

Dear Gary Pauley:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 01/06/2014 and the ACO-1 was received on June 11, 2014 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department