Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1219778

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 # 34614
Name: Serendipity Production Company LC
Address 1: 112 N BROAD ST.
Address 2:
City: GUTHRIE State: OK Zip: 73044 + __ __ __ __
Contact Person: Charles Adams
Phone: (405) 488-5258
CONTRACTOR: License # 9749
Name: Melander, Chris dba Chris Melander Drilling
Wellsite Geologist: Julie Shaffer
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 #:

5/20/2014	5/22/2014	5/30/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-125-32416-00-00
Spot Description:
__ - NW - SW - NE Sec. 30 Twp. 34 S. R. 17 ☑ East ☐ West
3375 Feet from ☐ North / ☑ South Line of Section
3128 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Montgomery
Lease Name: Felts Well #: 31
Field Name:
Producing Formation: Red Fork
Elevation: Ground: 712 Kelly Bushing: 874
Total Vertical Depth: 698 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 25 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: 0 ppm Fluid volume: 0 bbls
Dewatering method used: Evaporated

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: 08/21/2014
☑ **Confidential Release Date:** 08/20/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 08/22/2014

[redacted] 1219778

Operator Name: Serendipity Production Company LC Lease Name: Felts Well #: 31

Sec. 30 Twp. 34 S. R. 17 ☑ East ☐ West County: Montgomery

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☑ Sample

Name	Top	Datum
Peru Sandstone	338	373
Squirerel	470	241
Red Fork	593	118

CASING RECORD ☑ New ☐ 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
Surface Casing	8.75	7	20	25	Standard	16	
Long String	5.875	2.875	6.5	705	Standard	95	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

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 *(Amount and Kind of Material Used)*	Depth
2	592-602	250 gallons 15% HCL Acid	692-702
		2500 lbs. 12/20 sand. 5314 gallons gelled water.	692-702

TUBING RECORD: Size: 1 Set At: 698 Packer At: Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 8/11/2014

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	1	0	20		31

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)*

PRODUCTION INTERVAL:

Form	ACO1 - Well Completion
Operator	Serendipity Production Company LC
Well Name	Felts 31
Doc ID	1219778

All Electric Logs Run

Gamma Ray Neutron
Cement Bond
Dual Induction
Density-Neutron
Differential Temperature/Density

Form	ACO1 - Well Completion
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Well Name	Felts 31
Doc ID	1219778

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface Casing	8.75	7	20	25	Standard	16	
Long String	5.875	2.875	6.5	705	Standard	95	

STATEMENT

11178

ELMORE'S INC.

Box 87 - 776 HWY99
Sedan, KS 67361
Cell: (620) 249-2519
Eve: (620) 725-5538

Date 5-30-14

Customer Serendipity
Address
City State Zip

Qty.	Description	Price	Amount
3	hr Cement Pump	110.00	330.00
1	Bault Tank	85.00	85.00
95	Sks Cement	11.00	1045.00
1	Sk Gel	16.00	16.00
1	Rubber Plug 2½	25.00	25.00
1	Plug Container	50.00	50.00
			1551.00
		Tax	126.41
	Felt #31	B	1677.41
	Cemented Long string 2½ Casing 700' To Surface With 95 Sks.		

Thank You – We appreciate your business!

Rec'd. by

TERMS: Account due upon receipt of services. A 1½% Service Charge, which is an annual percentage rate of 18% will be charged to accounts after 30 days.

STAPLES STORE #0501 (918) 335-9135

Ref. No: G 571400776

CORNISH
WIRELINE SERVICES, INC.
CHANUTE, KANSAS

GEOLOGICAL REPORT

Felts #31
API#: 15-125-32416-00-00
3405' FSL, 3125' FEL
Sec. 30 T34S R17E
SE NW
Montgomery County, Kansas

Date: 5/28/2014

Operator: **Serendipity Production Company, LC, 112 N Broad St., Guthrie, OK 73044**

Drilling Contractor: Melander Drilling, Chris Melander, driller

Wellsite Geologist: Julie Shaffer – On location from 200' to TD

Dates Drilled: Drilled on 5/21-22/2014

Total Depth: 716'

Elevation: 711' Est.

Drilling Fluid: Mud

Surface Casing: Set 25' of 7" surface casing on 5/20/2014

Electric Logs Run: Compensated Density-Neutron, Dual Induction and Temperature logs

Formation Tops: Formation tops were picked from field notes/geolograph and correlated to logs.

Rock Color Desc.: GSA rock color chart (dry cuttings)

Status: **OIL WELL**

Oil Shows:

Peru Limestone	342-346'	Trace oil show
Squirrel Sandstone	470-474'	Trace oil show
Red Fork Sandstone	593-599'	Fair oil show
Red Fork Sandstone	599-604'	Fair to Good oil show
Red Fork Sandstone	604-613'	Fair oil show (Wet)

Notes: Well cuttings were examined at the drill rig and discarded. Select samples of zones of interest were saved and examined in the laboratory with a binocular microscope and black-light. Cuttings were also sent to the Wichita Well Sample Library as per the request of the Kansas Geological Survey.

FIELD and LABORATORY SAMPLE EXAMINATION

0-200'	Samples not examined
200-273'	Shale, medium gray
273-276'	Limestone
276-289'	Shale, medium-light gray

Top of the Pawnee Limestone at 289' (+422')

289-310'	Limestone
310-314'	Shale, dark gray
314-322'	Lexington Shale, black
322-331'	Shale, dark gray
331-333'	Lexington Coal
333-338'	Shale, light gray

Top of the Peru Sandstone at 338' (+373') ***(circulated every 2' through this interval)***

338-342'	Peru Sandstone, light gray, very fine grained sandstone, well sorted sub-angular sand, silty, micaceous, 16-18% porosity, friable, soft sand, no petroliferous odor, no fluorescence
342-346'	Peru Sandstone, light gray with minor pale brown oil staining, poor saturation, fine grained, poorly sorted sub-angular sand, silty, micaceous, 16-18% porosity, friable, 80-90% of cuttings have pale green mottled hydrocarbon fluorescence
346-353'	Peru Sandstone, medium gray, very fine grained sandstone, calcite inclusions are not well cemented, locally medium crystalline, friable, 12+% intercrystalline and vuggy porosity, no petroliferous odor, no fluorescence
353-360'	Peru Sandstone, light gray, minor pale brown oil staining, poorly sorted fine to medium grained sandstone, 18+% porosity, slight petroliferous odor, <5% mottled medium-bright greenish-yellow hydrocarbon fluorescence
360-371'	Shale, medium gray

Top of the Oswego Limestone at 371' (+340')

371-380'	Limestone

5/22/2014

380-458'	Samples not examined
458-463'	Shale, medium gray

463-465' Limestone

465-467' Ironpost Coal

467-470' Shale, light gray

Top of the Squirrel Sandstone at 470' (+241') (circulated every 2' through this interval)

470-474' Squirrel Sandstone, light gray, pale brown oil staining, very fine grained, silty, poor saturation, 14-16% porosity, friable, 80-90% uniform medium-bright greenish-yellow hydrocarbon fluorescence

474-479' Shale, medium gray, silty

479-480' Bevier Coal

480-484' Sandstone, medium gray, poor porosity, silty, no petroliferous odor/show, very shaley

484-492' Shale, light gray, silty, no petroliferous odor/show

Top of the Verdigris Limestone at 492' (+219')

492-494' Limestone

494-498.5' Croweburg Shale, black

498.5-499' Croweburg Coal

499-508' Shale, light gray, mucky

508-556' Shale, medium-light gray

556-557.5' Fleming Coal

557.5-572' Shale, medium-light gray, silty

572-593' Sandstone, medium gray, laminated with shale, no petroliferous odor/show (started circulating every 3' through this interval)

Top of the Red Fork Sandstone at 593' (+118') (circulated every 3' through this interval)

593-599' Red Fork Sandstone, pale brown oil staining, live oil bleed when drilled, sheen on cuttings and a minor oil show on pit, majority of chips display a light gray water washed appearance, very fine grained, very silty, sub-angular to sub-rounded grains, micaceous, well saturated, 18+% porosity, friable, 60-75% uniform bright greenish-yellow hydrocarbon fluorescence; minor shale laminations towards bottom few feet.

599-604' Red Fork Sandstone, pale brown oil staining, live oil bleed when drilled, high sheen, fair to good greenish-yellow lightweight oil show on pit, very fine grained, very little silt, well sorted, sub-rounded grains, well saturated, 18+% porosity, friable, 90-95% uniform bright yellow hydrocarbon fluorescence

***Note:** **Calculated Sw = 34% at peak of resistivity, 604'**

604-609' Red Fork Sandstone, pale brown oil staining, live oil bleed when drilled, fair oil show on pit, >40% of chips display a light gray water washed appearance, very fine grained, silty, sub-angular to sub-rounded grains, micaceous, fair saturation, 14-18% porosity, friable, 80-90% uniform bright greenish-yellow hydrocarbon fluorescence; shale cuttings seen from 606-608'.

***Note: Oil/water contact breaks over at 606' (at the top of the shale break); fair oil show seen in the bottom 4' of the sand body, however it is below the O/W contact and the resistivity log indicates water content. Calculated Sw = 84% from 609-613'**

609-613' Red Fork Sandstone, pale brown oil staining, live oil bleed when drilled, fair oil show on pit, minor chips display a light gray water washed appearance, very fine grained, silty, sub-angular to sub-rounded grains, micaceous, good saturation, 18+% porosity, friable, uniform bright yellow hydrocarbon fluorescence

613-616' Shale, black, trace of coal

616-648' Shale, light to medium-light gray

648-652' Sandstone, cuttings not seen

652-661' Shale, medium gray

661-666' Weir Coal

666-676' Shale, medium gray

676-682' Sandstone, light gray/white (NDL log shows cross-over indicative of a gas show)

682-716' Samples not examined

T.D. = 716'

Julie Shaffer
Geologist

Julie Shaffer / Cornish Wireline Services, Inc. / P.O. Drawer H, 3510 S Santa Fe / Chanute, KS, 66720 / cell: 620-496-6429