



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1173772  
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: \_\_\_\_\_

1173772

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Aschenbrenner 1-5
Doc ID	1173772

All Electric Logs Run

Dual Induction
Compensated Neutron
Micro
Sonic

# Sean P. Deenihan

## Petroleum Geologist

15-151-22360

### GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY Shelby Resources, LLC.

LEASE Aschenbrenner #1-5

FIELD Wilkcat

LOCATION 366' FSL & 1799' FEL

SEC 5 TWP 29S RGE 13W

COUNTY Pratt STATE KS

CONTRACTOR Sterling Drilling Co., Rig #4

SPUD 5000' COMP LTD 5000'

MUD UP TYPE MUD Chemical

SAMPLES SAVED FROM 3600' TO RTD

DRILLING TIME KEPT FROM 3600' TO RTD

SAMPLES EXAMINED FROM 3600' TO RTD

GEOLOGICAL SUPERVISION FROM 3600' -RTD

GEOLOGIST ON WELL Sean Deenihan

ELEVATIONS  
KB 1954'

DF 1953'

GL 1945'

Measurements Are All From KB

CASING  
CONDUCTOR SURFACE 8 5/8" @ 257

PRODUCTION ELECTRICAL

SURVEYS

CND DIL

#### FORMATION TOPS

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Heebner	3870 (-1916)	3868 (-1914)
Brown Lime	4056 (-2102)	4058 (-2104)
Lansing	4078 (-2124)	4078 (-2124)
BKC	4490 (-2536)	4490 (-2536)
Marmaton	4510 (-2556)	4510 (-2556)
Miss Chert	4710 (-2756)	4708 (-2754)
Kinderhook Cht	4758 (-2804)	4758 (-2804)
Viola	4880 (-2926)	4874 (-2920)
Simpson Sh.	4962 (-3008)	4986 (-3032)

REMARKS

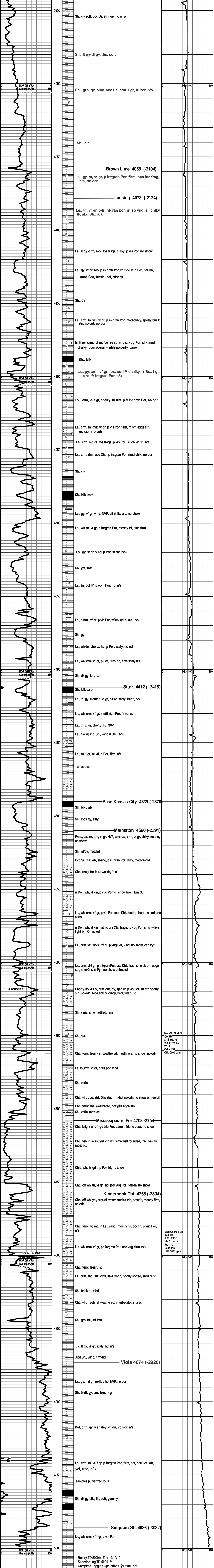
With low relative structural position and no shows of oil, the decision was made to plug and abandon the Aschenbrenner #1-5.

Respectfully Submitted,

Sean Deenihan

15-151-22360

5





**MORNING DRILLING REPORT**

<b>Sterling Drilling Company, Rig #4</b> Box 1006, Pratt, Kansas 67124-1006 Office Phone (620) 672-9508, Fax 672-9509		Wellsite Geologist: <b>Sean Deenihan</b>	<b>Fax to: Jim Waechter/Chris Gottschalk</b>	
<b>Rig #4 Phone Numbers (Dog House)</b>		<b>IN USE</b>	<b>Tool/pusher</b>	<b># of Pages</b> 1 <b>Fax#</b> E-Mail out
(620) 388-4192	Rig Cellular	Yes	Lanny	<b>WELL NAME</b> Aschenbrenner #1-5
(620) 388-6995	Geologist Cellular	Yes	Saloga	<b>LOCATION</b> Nw Se Sw Se
(620) 388-4193	Tool Pusher Cellular	Yes	Home Phone	<b>SEC</b> 5 <b>TWP</b> 29s <b>RNG</b> 13w <b>CO</b> Pratt
(620) 672-9508 Fax 9509	Sterling Shop Phone/Fax	Yes	(620)672-6062	<b>Captiva Energy, LLC</b> 1658 Cole Blvd., Suite 205 Lakewood, CO 80401
				<b>ELEVATION</b> G.L. 1945 <b>K.B.</b> 1954 <b>AP#</b> 15-151-22360-0000

Central Kansas Survey & Mapping staked location January 28, 2010. Pratt Oilfield called Digsafe. Built location August 30th, 2010. on Thursday 9/2 Kelly's Water Well drilled a 138' deep water well. Water level at 84', set pump at 130'. **Sterling made spud call on 09/02/10 (Mike Maier).** Curts Trash Service providing trash trailer & portable toilets. Sunrise will deliver 250' of 13-3/8" casing.

**Day** 1 **Date:** 09/03/10 **Friday** **Spud in at 4:30 pm**  
Moving off Sumner County location at 7 am. Plan to spud this evening.

**Day** 2 **Date:** 09/04/10 **Saturday** **REDBED at 230'** **Survey at 260' = 1-1/4 degrees**

WOC at 260' at 7:00 am. Drilled 260' in 24 hours.  
Ran 2.00 hours, down 22.00 hours (8.00Move/Rig up, 1.00 Set rathole, 1.25 Jet/Connections, .75 Circulate/Short trip to bit, .75 CCH/Trip out, 3.00 Run/Cement 13-3/8" casing, 6.75 WOC).  
Mud Properties: Spud Mud -Vis 48, Wt. 9.8, LCM 6#; Wt. on Bit 3-12,000, 140 RPM, Pump Pressure 500, SPM 60.  
Surface Bit "A": 17-1/2" RT, made 260' in 2.00 hours. (130 FPH).

Surface Casing:

Spud at 4:30 pm on 09/03/10. Drilled 17-1/2" hole to 260'. Ran 6 joints of new 48#. 13-3/8" casing. Tallied 246.24', set at 257' KB. Cemented with 275 sks 60/40 Poz, 2% Gel, 3% CC & 1/4# CF. Cement did circulate. Plug down at 12:15 am on 09/04/10 by Quality Cementing, ticket # 5073. Welded straps on bottom 3 joints, welded next 2 collars.

**Day** 3 **Date:** 09/05/10 **Sunday** **BOP Check: BOP held 500# PSI for 10 minutes**

Drilling at 2080' at 7:00 am. Drilled 1820' in 24 hours.  
Ran 15.75 hours, down 8.25 hours (1.50 WOC, .25 Drill plug, .50 Rig check, 6.00 Jet/Connections).  
Mud Properties: Water; Wt. 9.8, Vis 28; WOB 20-35,000, RPM 80-120, Pump PSI 750-900, SPM 60.  
Bit No. 1: New 7-7/8" JZ QX20J, **SNH07918**, (3-15's), in at 260', drilled 1,820' in 15.75 hours **116** < Last 24-ROP- 7-7/8" **116** Cum Mud \$ \$1,432

**Day** 4 **Date:** 09/06/10 **Monday** **Displaced at 2830'**

Drilling at 3080' at 7:00 am. Drilled 1,000' in 24 hours.  
Ran 19.75 hours, down 4.25 hours (.75 Rig check, 2.50 Jet/connections, 1.00 Displace).  
Mud Properties: Wt. 8.8, Vis. 46, LCM 0#; WOB 35,000, RPM 80-100, Pump Pressure 900, SPM 60.  
Bit No. 1: New 7-7/8" JZ QX20J, **SNH07918**, (3-15's), in at 260', drilled 2,820' in 35.50 hours **51** < Last 24-ROP- 7-7/8" **79** Cum Mud \$ \$3,292

**Day** 5 **Date:** 09/07/10 **Tuesday**

Drilling at 3845' at 7:00 am. Drilled 765' in 24 hours.  
Ran 21.00 hours, down 3.00 hours (.75 Rig check, 2.25 Jet/Connections).  
Mud Properties: Chemical Mud: Wt. 9.2, Vis. 44, PV/YP 10/15, WL 10.5, pH 10.5, Chl. 2,000, LCM 0#; WOB 35,000, RPM 75-90, Pump PSI 1000, SPM 60.  
Bit No. 1: New 7-7/8" JZ QX20J, **SNH07918**, (3-15's), in at 260', drilled 3,585' in 56. **36** < Last 24-ROP- 7-7/8" **63** Cum Mud \$ \$7,330

**Day** 6 **Date:** 09/08/10 **Wednesday**

Drilling at 4395' at 7:00 am. Drilled 550' in 24 hours.  
Ran 21.25 hours, down 2.75 hours (.75 Rig check, 2.00 Jet/Conn).  
Mud Properties: Chemical Mud: Wt. 9.2, Vis. 48, PV/YP 12/16, WL 11.2, pH 11.0, Chl. 6,000, LCM 3#; WOB 35,000, 70/80 RPM, **Pump PSI 800/850, SPM 56**.  
Bit No. 1: New 7-7/8" JZ QX20J (3-15's), in at 260', drilled 4,135' in 77.75 hours. **26** < Last 24-ROP- 7-7/8" **53** Cum Mud \$ \$9,917

**Day** 7 **Date:** 09/09/10 **Thursday** **Bit trip at 4800'. Survey at 4800' = 3/4 degree**

TIH with bit No. 2 at 4800' at 7:00 am. Drilled 405' in 24 hours.  
Ran 15.50 hours, down 8.50 hours (.75 Rig check, 1.50 Jet/Conn, 1.00 CFS at 4800', 1.00 CCH prior to bit trip, 4.25 TOOH).  
Mud Properties: Chemical Mud: Wt. 9.1, Vis. 51, PV/YP 12/18, WL 10.0, pH 9.0, Chl. 5,000, LCM 3#; WOB 35,000, RPM 65-80, **Pump PSI 850, SPM 56**.  
Bit No. 1: New 7-7/8" JZ QX20J (3-15's), in at 260', out at 4800', drilled 4,540' in 93.25 hours **26** < Last 24-ROP- 7-7/8" **49** Cum Mud \$ \$11,700

**Day** 8 **Date:** 09/10/10 **Friday** **RTD=5000'**

Making short trip prior to trip out for logs at 5000' RTD at 7 am. Drilled 200' in 24 hours.  
Ran 19.25 hours, down 4.75 hours (.50 Trip In Hole, 1.00 CCH after bit trip, .50 Rig check, 1.25 Jet & Connections, 1.00 CFS at 5000', .50 Short trip).  
Mud Properties: Chemical Mud: Wt. 9.4, Vis. 55, PV/YP 13/14, WL 11.2, pH 10.0, Chl. 5,000, LCM 3#; WOB 38-40,000, RPM 65-75, **Pump Pressure 800, SPM 56**.  
Bit No. 2: RR 7-7/8" HTC GT44C, (3-16's), in at 4800', drilled 200' in 19.25 hours. **10** < Last 24-ROP- 7-7/8" **42** Cum Mud \$ \$12,959

**Day** 9 **Date:** 09/11/10 **Saturday** **RTD=5000', No Survey at 5000'. LTD= 5000'**

Tearing down at 5000' at 7:00 am after plugging. Drilled 0' in 24 hours.  
Ran 0.00 hours, down 24.00 hours (1.25 S-trip, 2.75 Logging, 1.50 WOO, 1.00 BOP, 4.00 Tripping, 4.50 LDDP, 1.00 LD rh/mh, 1.50 Plugging, .75 Jet pits, 5.75 Tear d  
Cum Mud \$ \$13,750

Plugging Data:

Drilled 7-7/8" hole to 5000'. Heavy mud in hole. Did not drill Arbuckle. First plug at 750' w/ 50 sks. 2nd plug at 270' w/ 100 sks, top plug at 60' w/ 40 sks. Plugged RH w/ 30 sks, MH w/20 sks. Cement is 60/40 POZ, 4% Gel & 1/4# Floeal. Plugging complete at 12:30 am on 9/11/10. Quality Cementing ticket #5033. Received plugging orders on 9/9/10 (Mike Maier). Sterling reported to KCC on 9/13/10 (Michelle Pennington).

Water Well Total = 7,000 BBL

We will put water well on list to be plugged by Kelly's Water Well Service if the landowner doesn't want it.

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Drilled 7-7/8" hole to 5000'. Heavy mud in hole. Did not drill Arbuckle. First plug at 750' w/ 50 sks. 2nd plug at 270' w/ 100 sks, top plug at 60' w/ 40 sks. Plugged RH w/ 30 sks, MH w/20 sks. Cement is 60/40 POZ, 4% Gel & 1/4# Floeal. Plugging complete at 12:30 am on 9/11/10. Quality Cementing ticket #5033. Received plugging orders on 9/9/10 (Mike Maier). Sterling reported to KCC on 9/13/10 (Michelle Pennington).

Water Well Total = 7,000 BBL

We will put water well on list to be plugged by Kelly's Water Well Service if the landowner doesn't want it.