



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1245583
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
-----------------------------------	-----------------	---

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: _____



1245583

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

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	DK Operating Inc.
Well Name	Mauch 1-16
Doc ID	1245583

Tops

Name	Top	Datum
Anhydrite	1528'	751'
Base	1565'	714'
Heebner	3738'	1459'
Lansing	3786'	1507'
BKc	4119'	1840'
Pawnee	4227'	1948'
Fort Scott	4296.'	2017'
Cherokee	4322'	2043'
Basil Cher. Sand	4380'	2101'
RTD	4389'	2110'

Formation Tops

	DK Operating, Inc. Mauch #1-16 Sec. 16 T20s R23w 1359' FSL & 1487' FEL
Formation	
Anhydrite	1528', +751
Base	1565', +714
Heebner	3738', -1459
Lansing	3786', -1507
BKc	4119', -1840
Pawnee	4227', -1948
Fort Scott	4296', -2017
Cherokee	4322', -2043
Basil Cher. Sand	4380', -2101
RTD	4389', -2110

Sample Zone Descriptions

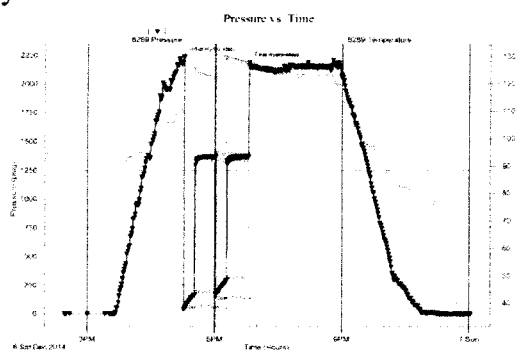
Basil Cher. Sand (4380', -2101): Covered in DST #1
 Ss – Quartz, clear to slightly frosted, fine to medium grained, fairly sorted, poor to fair cementation, sub-rounded with fair intergranular porosity, light to fair spotted oil stain in cluster, slight show of free oil when broken, very dull yellow fluorescents, slight chert.

Drill Stem Tests Trilobite Testing, Inc. "Jim Svaty"

DST #1 Basil Cherokee Sand

Interval (4345' – 4389') Anchor Length 44'

IHP	– 2234 #	
IFP	– 15" – B.O.B. 5 ½ min.	37-170 #
ISI	– 30" – Dead	1369 #
FFP	– 15" – B.O.B. 6 min.	171-296 #
FSI	– 30" – Dead	1368 #
FHP	– 2186 #	
BHT	– 129°F	



Recovery:	150' OSM	2% Oil
	125' OSMCW	2% Oil, 58% Water
	312' MCW	95% Water

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

067251

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Brentford

DATE <u>11-29-14</u>	SEC. <u>16</u>	TWP. <u>20</u>	RANGE <u>23</u>	CALLED OUT	ON LOCATION <u>2:30pm</u>	JOB START <u>11:00</u>	JOB FINISH <u>3:30pm</u>
LEASE <u>March</u>	WELL# <u>1-16</u>	LOCATION <u>Ness City St 40 rd - 2c</u>	COUNTY <u>NCSS</u>	STATE <u>KS</u>			
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>1/2 - winter</u>				

CONTRACTOR Pickrell

TYPE OF JOB S-100

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 7/8 DEPTH 211.99

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15ft

PERFS.

DISPLACEMENT 12.29 bbl H2O

OWNER

CEMENT AMOUNT ORDERED 150 5x class A 3 1/2 cc

2 1/2 gal

COMMON	<u>150</u>	@ <u>17.90</u>	<u>2,685.00</u>
POZMIX		@	
GEL	<u>282</u>	@ <u>.50</u>	<u>141.00</u>
CHLORIDE	<u>423</u>	@ <u>1.10</u>	<u>465.30</u>
ASC			

EQUIPMENT

PUMP TRUCK CEMENTER Josh Isaac

398 HELPER Brian Lang

BULK TRUCK

871-112 DRIVER Lawrence Allen

BULK TRUCK

DRIVER

TOTAL	<u>3,291.30</u>
DISCOUNT <u>20</u> %	<u>658.26</u>

REMARKS:

On location - Rig up - had safety meeting

Run 3 1/2 casing - Break Circulate -

pump 5 bbl H2O

Mix 150 5x class A 3 1/2 cc 2 gal

Displace 12.29 bbl H2O

Shut in 3:50 pm

Cement did circulate

Rig down

SERVICE

HANDLING	<u>162.20</u>	@ <u>2.48</u>	<u>402.76</u>
MILEAGE	<u>7.46 x 10 x 2.25</u>		<u>330.00</u>
DEPTH OF JOB	<u>211.99</u>		
PUMP TRUCK CHARGE	<u>1512.35</u>		
EXTRA FOOTAGE		@	
HV MILEAGE	<u>10</u>	@ <u>7.70</u>	<u>77.00</u>
LV MILEAGE	<u>10</u>	@ <u>4.40</u>	<u>44.00</u>
TOTAL			<u>2,385.51</u>
DISCOUNT <u>20</u> %			<u>477.10</u>

CHARGE TO: DK operating

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		<u>0</u>
DISCOUNT <u>0</u> %		<u>0</u>

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME X Mike Kern

SIGNATURE [Signature]

SALES TAX (If Any)

TOTAL CHARGES 5,676.81 (20/20/0)

DISCOUNT 1,135.36 IF PAID IN 30 DAYS

NET TOTAL 4,541.45 IF PAID IN 30 DAYS