



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1092353
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: _____

1092353

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: 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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SODOCO, LLC
Well Name	Brack 5-25
Doc ID	1092353

All Electric Logs Run

Bore Hole Compensated Sonic Array
Micro
Dual Spaced Neutron Spectral Density
Array Compensaated True Resistivity

Form	ACO1 - Well Completion
Operator	SODOCO, LLC
Well Name	Brack 5-25
Doc ID	1092353

Tops

Name	Top	Datum
Heebner	3964	-801
Lansing	4013	-850
Base Kansas City	4471	-1308
Marmaton	4501	-1338
Beymer Zone	4602	-1439
Johnson zone	4628	-1465
Cherokee	4638	-1475
Morrow Shale	4843	-1680
Mississippian	4914	-1751

JAMES C. MUSGROVE

Petroleum Geologist
212 Main Street
P.O. Box 215
Clafin, KS 67525

Office (620) 588-4250

Res. Clafin (620) 587-3444

SDOCO LLC
Brack #5-25
E/2-W/2-SW-NW
(1980' FNL & 335' FWL)
Section 25-20s-35w
Wichita County, Kansas
Page 1

5 1/2" Production Casing Set

Contractor: H2 Drilling Co. (Rig #2)

Commenced: June 2, 2012

Completed: June 11, 2012

Elevation: 3163' K.B; 3161' D.F; 3152' G.L.

Casing program: Surface; 8 5/8" @ 263'
Production; 5 1/2" @ 5089'

Sample: Samples saved and examined 3800' to the Rotary Total Depth.

Drilling time: One (1) foot drilling time recorded and kept 3800 ft to the Rotary Total Depth.

Measurements: All depths measured from the Kelly Bushing.

Drill Stem Tests: There was one (1) Drill Stem Test ran by Trilobite Testing Co.

Electric Log: By Halliburton.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Heebner	3964	-801
Lansing	4013	-850
Base Kansas City	4471	-1308
Marmaton	4501	-1338
Beymer Zone	4602	-1439
Johnson Zone	4628	-1465
Cherokee	4638	-1475
Morrow Shale	4843	-1680
Mississippian	4914	-1751
Rotary Total Depth	5090	-1927
Log Total Depth	5084	-1921

LANSING SECTION

- 4288-4300' Limestone; white, cream, finely oolitic, fossiliferous, oomoldic porosity, trace brown and black stain, no free oil and no odor.
- 4300-4318' Limestone; cream, tan, finely crystalline, oomoldic, good oomoldic porosity, couple pieces dark brown and black stain, no free oil and no odor in fresh samples.

MARMATON SECTION

- 4501-4520' Limestone; buff, tan, oolitic, poor visible porosity, no shows.
- 4522-4530' Limestone; white, cream, finely crystalline, fossiliferous, oomoldic, fair to good oomoldic and fossil cast porosity, brown stain, fair show of free oil and fair odor in fresh samples.

Drill Stem Test #1 **4470-4530'**

Times: 30-60-60-120

Blow: Weak building

**Recovery: 30' mud cut oil
(70% oil, 30% mud)
190' oil cut mud
(20% oil, 80% mud)**

**Pressures: ISIP 463 psi
FSIP 461 psi
IFP 18-52 psi
FFP 56-102 psi
HSH 2149-2102 psi**

- 4541-4550' Limestone; white, cream, tan, finely crystalline, oolitic, fossiliferous, sub oomoldic, poorly developed porosity, chalky, spotty brown stain, poor show of free oil and no odor.

BEYMER ZONE

- 4602-4610' Limestone; tan, buff, fine and medium crystalline, oolitic/fossiliferous, poor visible porosity, no shows
- 4610-4615' Limestone; tan, gray, buff, fine and medium crystalline, oolitic/fossiliferous, chalky in part, scattered porosity, no shows.

MISSISSIPPIAN SECTION

4914-4930'	Limestone; cream, white, finely crystalline, sandy, poor visible porosity, no shows.
4930-4950'	Limestone; as above, sandy, cherty.
4950-4970'	Limestone; white, cream, finely crystalline, oolitic, fossiliferous, sandy, poor porosity, chalky, few cherty.
4970-4990'	Limestone; as above.
4990-5000'	Limestone; cream, white, oolitic, scattered porosity, trace loose angular quartz grains.
5000-5020'	Limestone; cream, light gray, oolitic, chalky, no shows.
5020-5040'	Limestone; cream, light gray, finely crystalline, oolitic, chalky, trace loose quartz grains.
5040-5060'	Limestone; as above, trace sand, white, clear, fine grained, sub rounded, poorly developed porosity, no shows.
5060-5080'	Limestone; cream, tan, finely crystalline, oolitic, dense, poor porosity, no shows.
5080-5090'	Limestone; as above.

Rotary Total Depth **5090 (-1927)**
Log Total Depth **5084 (-1921)**

Recommendations:

5 ½" production casing was set and cemented on the Brack #5-25.

Respectfully submitted;



Kurt Talbott,
Petroleum Geologist

JAMES C. MUSGROVE

Petroleum Geologist
212 Main Street
P.O. Box 215
Clafin, KS 67525

Office (620) 588-4250

Res. Clafin (620) 587-3444

SDOCO LLC
Brack #5-25
E/2-W/2-SW-NW
(1980' FNL & 335' FWL)
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Respectfully submitted;



Kurt Talbott,
Petroleum Geologist

ALLIED CEMENTING CO., LLC. 034501

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Oakley, ks

DATE <u>6-12-12</u>	SEC. <u>25</u>	TWP. <u>20</u>	RANGE <u>35</u>	CALLED OUT	ON LOCATION <u>5:00pm</u>	JOB START <u>12:00am</u>	JOB FINISH <u>1:00am</u>
LEASE <u>Brack</u>	WELL # <u>5-25</u>	LOCATION <u>Friend, ks 12W, 2N,</u>	COUNTY <u>Wichita</u>	STATE <u>KS</u>			
OLD OR NEW (Circle one)				<u>1W, Sinto</u>			

CONTRACTOR <u>Hg Rig 2</u>	OWNER <u>same</u>
TYPE OF JOB <u>Production Bottom Stage</u>	
HOLE SIZE <u>7 7/8"</u>	T.D. <u>4770.41</u>
CASING SIZE <u>5 1/2"</u>	DEPTH <u>4770.41</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL <u>DU</u>	DEPTH <u>3006.38</u>
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>22.3</u>
CEMENT LEFT IN CSG. <u>22.3</u>	
PERFS.	
DISPLACEMENT <u>113 bbl</u>	

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Lakene</u>
# <u>423/281</u>	HELPER <u>Tyler</u>
BULK TRUCK	
# <u>386/310</u>	DRIVER <u>Adam</u>
BULK TRUCK	
# <u>340/287</u>	DRIVER <u>Darren</u>
<u>457/251</u>	<u>Angel (Liberal)</u>

CEMENT	
AMOUNT ORDERED	<u>335 stks ASC 10% salt</u>
	<u>29 gal 5" gilsonite, 1 gal flo-seal</u>
	<u>500 gal superflash</u>
COMMON	@
POZMIX	@
GEL	<u>6 stks @ 21.25 127.50</u>
CHLORIDE	@
ASC	<u>335 stks @ 19.00 6365.00</u>
	@
<u>gilsonite 1675#</u>	@ <u>.89 1490.75</u>
<u>salt 31 stks</u>	@ <u>23.95 742.45</u>
<u>flo-seal 84#</u>	@ <u>2.70 226.80</u>
	@
<u>Superflash 500gal</u>	@ <u>1.27 635.00</u>
	@
	@
HANDLING <u>431.625 + 3</u>	@ <u>2.10 906.90</u>
MILEAGE <u>18.6 dots x 78 mi x 2.35</u>	@ <u>3420.38</u>
TOTAL	<u>13914.28</u>

REMARKS:

pump ball through #
pump 5 bbl water, 500 gal superflash
5 bbl water, mix 335 stks cement
Displace with 40 bbl water 73 mud.
Land plug #, float held.
Open DU Tool #, Circulate
4 hrs.
Thank you

SERVICE

DEPTH OF JOB	<u>4770.41</u>
PUMP TRUCK CHARGE	<u>2405.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>78</u>	@ <u>7.00 546.00</u>
MANIFOLD <u>head</u>	@ <u>200.00</u>
<u>L Unitage - 78</u>	@ <u>4.00 312.00</u>
	@

CHARGE TO: SDOCO LLC

STREET _____

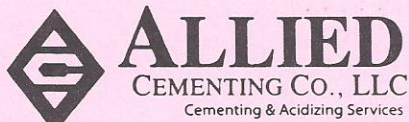
CITY _____ STATE _____ ZIP _____

TOTAL 3463.00

PLUG & FLOAT EQUIPMENT

<u>DU tool</u>	<u>4721.00</u>
<u>AFU Float shoe</u>	@ <u>379.00</u>
<u>Latchdown plug</u>	@ <u>277.00</u>
<u>(5) Centralizers</u>	@ <u>49.00 245.00</u>
<u>(2) Baskets</u>	@ <u>337.00 674.00</u>
	@

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment
 and furnish cementer and helper(s) to assist owner or



CEMENTING LOG

STAGE NO.

Date 6-12-12 District Dakley, Ks Ticket No. 34501
 Company SDOCO LLC Rig H2 Rig 2
 Lease Brack Well No. 5-25
 County Wichita State Ks
 Location 25-20-35 Field Friend Ks, 12 W, 2 N, 1 W, 5 into

CEMENT DATA:
 Spacer Type: water / super flush
 Amt. 556 Sks Yield 500gal ft³/sk Density 141.66 PPG
556/water

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 5 1/2 Type new Weight 15.5" Collar _____

LEAD: Pump Time _____ hrs. Type ASC
 Amt. 335 Sks Yield 1.56 ft³/sk Density 141.66 PPG

Bottom stage

TAIL: Pump Time _____ hrs. Type _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Casing Depths: Top KB Bottom 4770.41'

Pump Trucks Used 423/281 - Tyler
 Bulk Equip. 386/310 - Adam

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 7 7/8 T.D. 4770.41 ft. P.B. to _____ ft.

Float Equip: Manufacturer weatherford
 Shoe: Type AFU Depth _____
 Float: Type Loaddown plug Depth _____
 Centralizers: Quantity _____ Plugs Top 2 Btm. 1
 Stage Collars DU tool
 Special Equip. hoskots
 Disp. Fluid Type water / mud Amt. 113 Bbls. Weight _____ PPG
 Mud Type 40/73 Weight _____ PPG

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0.238 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE _____

CEMENTER Lokane

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
<u>AM</u>						Run casing
						break circulation w/ rig pump
						pump ball through!
						Circulate 1 hr.
<u>12:00</u>				<u>5.0</u>		Load plug.
				<u>500gal</u>		start water spacer
				<u>5.6</u>		mix super + wash
						pump water spacer
						start cement 335 sks
						weigh cement 5 times 141.6#
						stop cement
						wash up pump & lines
						Release plug
				<u>20</u>		start water displacement
				<u>20</u>		stop water
				<u>20</u>		start mud displacement
				<u>10</u>		
				<u>10</u>		
				<u>10</u>		
				<u>10</u>		
				<u>10</u>		
				<u>1000</u>		
				<u>3.0</u>		stop mud
						Load plug - Disp opening tool
<u>1:00</u>						Open DU tool
						circulate 4 hrs
						Thank you

FINAL DISP. PRESS: 1000 PSI BUMP PLUG TO 2000 PSI BLEEDBACK _____ BBLs. THANK YOU

Date 6-12-12 District Oakley, KS Ticket No. 34502
 Company SDORO LLC Rig Hg Rig 2
 Lease Black Well No. 5225
 County Wichita State KS
 Location 25-20-35 Field _____
Friend 12 W, 2 N, 1 W, 5 into

CEMENT DATA:
 Spacer Type: Water
 Amt. 5661 Sks Yield _____ ft³/sk Density _____ PPG

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 5 1/2 Type new Weight 15.5 Collar _____

LEAD: Pump Time _____ hrs. Type 2 ite (Type II)
5# gilsonite 1/4" of base Excess _____
 Amt. 968 Sks Yield 1.26 ft³/sk Density 1292 PPG

TOP Stage

TAIL: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Casing Depths: Top KB Bottom 3026.38

Pump Trucks Used 423/281 - Tyler
 Bulk Equip. 540/287 - Dairen
452/251 - Angel

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 7 7/8 T.D. 47164 ft. P.B. to _____ ft.

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type Water Amt. 2203 Bbls. Weight _____ PPG
 Mud Type _____ Weight _____ PPG

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0238 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE _____ CEMENTER LORANE

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
5:30						plug mouse hole 20 SKS plug rat hole 30 SKS start cement 7/8 SKS weigh cement 5 tubes 1294 stop cement 4 1/2 hrs pump / 1 min Release plug Start water displacement
}	600#			10		}
	700#			10		
	750#			10		
	800#			10		
	900#			10		
	950#			10		
	1000#			10		
6:30	1165#			2.03		Stop water Land plug float held. Cement did circulate
	2000#					

Thank you.

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

September 20, 2012

J. Robert Tuck
SDOCO, LLC
PO BOX 369
LITTLETON, CO 80160

Re: ACO1
API 15-203-20180-00-00
Brack 5-25
NW/4 Sec.25-20S-35W
Wichita 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,
J. Robert Tuck