KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1154464

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 32331
Name: DK Operating Inc.
Address 1: 24583 NW 208 RD
Address 2:
City: JETMORE State: KS Zip: 67854 + 5311
Contact Person: Daniel L king
Phone: (620) 357-6152
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Jason Alm
Purchaser:

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [x] 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
- [ ] Conv. to GSW
- [ ] Plug Back: Plug Back Total Depth
- [ ] Commingled Permit #:
- [ ] Dual Completion Permit #:
- [ ] SWD Permit #:
- [ ] ENHR Permit #:
- [ ] GSW Permit #:

7/01/2013	7/07/2013	7/8/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-083-21890-00-00
Spot Description:
NE - SW - SE - SE Sec. 24 Twp. 23 S. R. 23 [ ] East [x] West
370 Feet from [ ] North / [x] South Line of Section
745 Feet from [x] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [ ] NW [x] SE [ ] SW
County: Hodgeman
Lease Name: Sharon Well #: 3-24
Field Name: Lippoldt
Producing Formation: Mississippian
Elevation: Ground: 2360 Kelly Bushing: 2368
Total Depth: 4622 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 220 Feet
Multiple Stage Cementing Collar Used? [x] Yes [ ] No
If yes, show depth set: 1418 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: 24000 ppm Fluid volume: 160 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: DK Operating , Inc.
Lease Name: Terry 1-31 SWD License #: 32331
Quarter SW Sec. 31 Twp. 20 S. R. 22 [ ] East [x] West
County: Ness Co Permit #: D-31,539

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

- [ ] Letter of Confidentiality Received
  Date:
- [ ] Confidential Release Date:
- [ ] Wireline Log Received
- [ ] Geologist Report Received
- [ ] UIC Distribution

ALT [ ] I [x] II [ ] III Approved by: Deanna Garrison Date: 08/13/2013

Side Two

1154464

Operator Name: DK Operating Inc. Lease Name: Sharon Well #: 3-24

Sec. 24 Twp. 23 S. R. 23 ☐ East ☑ West County: Hodgeman

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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

Electric Log Submitted Electronically ☐ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

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

Name Top Datum

Attached

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	12.250	8.6250	28	220.37	Common	150	2% Gel & 3 % CC
Productyion	7.8750	5.50	15.5	4621	EA/2	125	

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	-			
	-			

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

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

Date of First, Resumed Production, SWD or ENHR. 7/15/2013

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	5				

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:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

SWIFT Services, Inc.

DATE 8/01/13 | PAGE NO.

CUSTOMER DK Operating | WELL NO. 3-24 | LEASE Sharon | JOB TYPE cement long string | TICKET NO. 24502

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
								175 sk EA-2 w/ ¼# Flocele 5½ x 15.5 casing
								TD = 4623' ~~total~~ PBD 4633' set 4621'
								Centralizers 1, 3, 5, 7, 9, 11, 75
								Basket #76 Port Collar #76 1417'
								Shoe jt 42' #109, 110, 112 out
	1430							on loc TRK 114
	1505							start 5½" x 15.5 casing in well
	1705							Drop ball - circulate - ROTATE
	1740	4¾	12				200	Pump 500 gal mudflush
		4¾	20				200	Pump 20 bbl KCL flush
	1750		7					Plug RH - MH ~~30 sks~~ - ~~20 sks~~
	1800	4¾	35				200	mix EA-2 cement ~~195 sk~~ @ 15.3 ppg
	1812							Drop latch down plug
								wash out pump & line
	1815	6¾					200	Displace plug
		6¾	90				850	
	1830	6¾	109				1500	Land plug
								Release pressure to truck - dried up
	1845							wash truck
								Rack up
	1930							job complete
								Thanks
								Flint, Blaine, Dave & John

Formation Tops

Formation	DK Operating, Inc. Sharon #3-24 Sec. 24 T23s R23w 370' FSL & 745' FEL
Anhydrite	**1460', +909**
Base	**1496', +873**
Heebner	**3882', -1513**
Lansing	**3951', -1582**
BKc	**4318', -1949**
Pawnee	**4433', -1964**
Fort Scott	**4480', -2111**
Cherokee	**4506', -2137**
Mississippian	**4562', -2193**
Osage	**4598', -2229**
RTD	**4622', -2253**

Sample Zone Descriptions

Miss. Warsaw **(4562', -2193): Not Tested**
Dolo – Fine to medium sucrosic crystalline with poor inter-crystalline porosity, light to fair oil stain and saturation in porosity, fair show of free oil, good odor, bright yellow fluorescents.

Miss. Osage **(4598', -2229): Covered in DST #1,2**
Δ – Dolo – Fine sucrosic crystalline with poor to fair inter-crystalline and vuggy porosity, very heavy triptolic chert, weathered with fair to good vuggy porosity, light to good oil stain and saturation, good show of free oil, good odor, bright scattered yellow fluorescents.

Drill Stem Tests

Trilobite Testing Inc.
"Brett Dickinson"

DST #1 **Mississippian Osage**

Interval (4601' – 4609') Anchor Length 8'

IHP	– 2390 #	
IFP	– 30" – W.S.B.	22-31 #
ISI	– 30" – Dead	1320 #
FFP	– 10" – Dead	30 #
FHP	– 2293 #	
BHT	– 118°F	

Recovery: 5' VSOCM 5% Oil

DST #2 **Mississippian Osage**

Interval (4605' – 4617') Anchor Length 12'

IHP	– 2379 #	
IFP	– 30" – Built to 2 in.	20-39 #
ISI	– 30" – Dead	1378 #
FFP	– 45" – Built to 3 in.	38-51 #
FSI	– 45" – Dead	1382 #
FHP	– 2318 #	
BHT	– 121°F	

Recovery: 15' GCO
60' VSWOCM 20% Oil, 5% Water

Structural Comparison

Formation	**DK Operating, Inc. Sharon #3-24 Sec. 24 T23s R23w 370' FSL & 745' FEL**	DK Operating, Inc. Sharon #1-24 Sec. 24 T23s R23w 1020' FSL & 850' FEL		American Warrior, Inc. Craighead #3-19 Sec. 19 T23s R22w 1529' FSL & 2027' FWL	
Anhydrite	**1460', +909**	1470', +906	**(+3)**	1459', +907	**(+2)**
Base	**1496', +873**	NA	**NA**	1499', +867	**(+5)**
Heebner	**3882', -1513**	3887', -1511	**(-2)**	3896', -1530	**(+17)**
Lansing	**3951', -1582**	3955', -1579	**(-3)**	3968', -1602	**(+20)**
BKc	**4318', -1949**	4321', -1945	**(-4)**	4326', -1960	**(+11)**
Pawnee	**4433', -1964**	4437', -2061	**(-3)**	4440', -2074	**(+10)**
Fort Scott	**4480', -2111**	4484', -2108	**(-3)**	4493', -2127	**(+16)**
Cherokee	**4506', -2137**	4508', -2132	**(-5)**	4518', -2152	**(+15)**
Mississippian	**4562', -2193**	4564', -2188	**(-5)**	4526', -2210	**(+17)**
Osage	**4598', -2229**	4598', -2222	**(-7)**	4620', -2254	**(+25)**