

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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ALLIED OFS, LLC

Federal Tax I.D. #81-2169190

68074

REMIT TO: Allied OFS, LLC
P.O. Box 205803
Dallas, TX 75320-5803

SERVICE POINT: Dallas, TX

DATE <u>9/12/16</u>	SEC <u>18</u>	TWP <u>21</u>	RANGE <u>22</u>	CALLED OUT	ON LOCATION	JOB START <u>8:30 A</u>	JOB FINISH <u>7:00 P</u>
LEASE <u>Selfridge</u>	WELL # <u>3-18</u>	LOCATION <u>New City 510 Hodgenan CR X, 7E</u>			COUNTY <u>Hodgenan</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)				<u>15 1/2 W Sinto</u>			

CONTRACTOR Pickrell 10
 TYPE OF JOB Surface
 HOLE SIZE 12" 14 T.D. 209
 CASING SIZE 8 5/8 DEPTH 209
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15'
 PERFS.
 DISPLACEMENT 12 28 66

OWNER Same
 CEMENT AMOUNT ORDERED 16.5 SK Cam 300cc 200 gal
 COMMON 165 SK @ 17.20 2853.00
 POZMIX @
 GEL 310 @ 1.25 325.00
 CHLORIDE 465 @ 1.10 511.50
 ASC @
 @
 @
 @
 @
 @
 @

EQUIPMENT
 PUMP TRUCK CEMENTER Alan Ryan
 # 6162-81 HELPER Keins Ryan
 BULK TRUCK
 # 891-28 DRIVER Jade Mitten
 BULK TRUCK
 # DRIVER

TOTAL 3,790.50

DISCOUNT 45% 1,705.73

REMARKS:

Run City, Circulate, Mix Cement, Displace Cement, Sheet 20
Cement Bid Circulate

Thank You
Alan Ryan, Jade

SERVICE

HANDLING 178 @ 2.48 442.48
 MILEAGE 25 @ 700/mile @ 1.42 355.00
 DEPTH OF JOB
 PUMP TRUCK CHARGE 150 25
 EXTRA FOOTAGE @
 HV MILEAGE 25 @ 7.20 192.00
 LV MILEAGE 25 @ 4.40 110.00
 @
 @

TOTAL 2,817.06

DISCOUNT 45% 1,267.67

CHARGE TO: DR Operating
 STREET
 CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@
 @
 @
 @
 @
 TOTAL
 DISCOUNT %

To: Allied OFS, 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 MIKE Kern
 SIGNATURE Mike Kern

SALES TAX (If Any)
 TOTAL CHARGES 6,607.56
 DISCOUNT 2,973.40 (45%) IF PAID IN 30 DAYS
 NET TOTAL 3,634.15 IF PAID IN 30 DAYS

CUSTOMER
DK OPERATING

WELL NO.

LEASE
SELF RIDGE 3-18

JOB TYPE
5 1/2 LONG STRING

DATE 19 SEP 16 PAGE NO.

TICKET NO. 29781

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	02300							ON LOCATION
	0405							START PIPE 5 1/2-17# RTD @ 4438 SET @ 4437 SHOE JT. 32.41 TURBOLIZES 1,2,3,4,5,6,82 BASKETS. 80, 81 PORT COLLAR # 81 @ 1501
	0615				✓			DROP BALL - CIRCULATE.
	0748	6	12		✓	400		Pump 500 spc MUD FLUSH
		6	20		✓	400		Pump 20 Bbl RCL SPACER
	0756		7					PLUG RA-30SX
	0758	4	35		✓			MIX 145SX EA-2
	0810							WASH OUT PUMP & LINES.
	0812	6			✓			START DISPLACING PLUG
	0828	8	102		✓	1500		PLUG DOWN LATCH PLUG IN.
	0830				✓			RELEASE PSI - DRY
	0833							WASH TRUCK
	0900							JOB COMPLETE THANKS # 115 JASON DAVE PRESTON



Geologic Report

Drilling Time and Sample Log

Operator **DK Operating, Inc.**

Lease **Selfridge**

No. **3-18**

Elevation
 KB 2285'
 DF
 GL 2278'

API # **15-083-21929-0000**

Field **Wieland West**

Casing Record
 Surface
 8 5/8" @ 205'
 Production
 5 1/2" @ 4437'

Location **405' FNL & 1735' FEL**

Electrical Surveys
 None

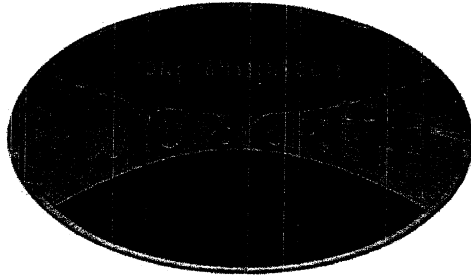
Sec. **18** Twp. **21s** Rge. **22w**

County **Hodgeman** State **Kansas**

Formation	Log Tops	Sample Tops	Struct Comp
Anhydrite		1468' +817	-10
Base		1498' +787	FL
Heebner		3762' -1477	+9
Lansing		3813' -1528	+8
BKC		4166' -1881	+13
Pawnee		4253' -1968	+14
Fort Scott		4328' -2043	+9
Cherokee		4352' -2067	+8
Mississippian		4419' -2134	+12
Osage		4428' -2143	+9
Total Depth		4438' -2153	

Reference Well For Structural Comparison DK Operating, Inc. Selfridge #2-18
 1143' FNL & 335' FEL Sec. 18 T21s R22w Hodgeman Co. Kansas

DK Operating, Inc.



Geological Report
Selridge #3-18
405' FNL & 1735' FEL
Sec. 18 T21s R22w
Hodgeman County, Kansas

General Data

Well Data: DK Operating, Inc.
Selfridge #3-18
405 FNL & 1735 FEL
Sec. 18 T21s R22w
Hodgeman County, Kansas
API # 15-083-21929-0000

Drilling Contractor: Pickrell Drilling Co. Inc. Rig #10

Geologist: Jason T Alm

Spud Date: September 12, 2016

Completion Date: September 20, 2016

Elevation: 2278' Ground Level
2285' Kelly Bushing

Directions: Jetmore KS, North to V rd. East 6 mi. to NE 225,
North 1 mi. West 1/4 mi. South into location.

Casing: 205' 8 5/8" surface casing
4437' 5 1/2" production casing

Samples: 10' wet and dry, 4100' to RTD

Drilling Time: 3650' to RTD

Electric Logs: None

Drillstem Tests: One, Trilobite Testing, Inc. "Spencer Staab"

Problems: None

Remarks: Production casing landed three feet higher than
RTD. Rig may have been approximately three feet
short. Cased hole logs will give a true total depth
and formation tops as well as perforations will be
adjusted accordingly.

Formation Tops

DK Operating, Inc. Selfridge #3-18 Sec. 18 T21s R22w 405' FNL & 1735' FEL 1468' +817 1498' +787 3762' -1477 3813' -1528 4166' -1881 4253' -1968 4328' -2043 4352' -2067 4419' -2134 4428' -2143 4438' -2153	Formation Anhydrite Base Heebner Lansing BKC Pawnee Fort Scott Cherokee Mississippian Osage RTD
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Sample Zone Descriptions

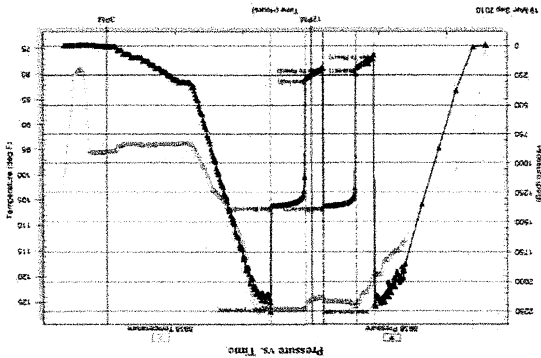
Fort Scott (4328', -2043): Not Tested Ls - Fine crystalline with poor to fair scattered inter-crystalline porosity, light to fair spotted oil stain in porosity, slight show of free oil, light odor, fair yellow fluorescents.	Miss Warsaw (4419', -2134): Covered in DST #1 Dolo - Fine crystalline with poor inter-crystalline and vuggy porosity, light oil stain in porosity, slight show of free oil, very light odor, fair spotted yellow fluorescents.	Miss Osage (4428', -2143): Covered in DST #1 Δ - Dolo - Weathered to sharp, triplic in part with good vuggy porosity, slightly dolomitic - fine crystalline with poor inter-crystalline and vuggy porosity, light to fair oil stain with light to fair scattered saturation in dolomite, fair show of free oil, fair to good odor, bright yellow fluorescents.
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Drill Stem Tests
 Trilobite Testing, Inc.
 "Spencer Staab"

DST #1 Mississippian Osage

Interval (4372' - 4438') Anchor Length 66'

- IHP - 2190 #
- IFP - 15" - B.O.B. 5 min.
- ISI - 30" - Built to 2 1/4 in.
- FFP - 15" - B.O.B. 5 min.
- FSI - 30" - Built to 1 in.
- FHP - 2173 #
- BHT - 126°F



- Recovery:
- 15' WGMCO 35% OIL, 10% Water
 - 325' MGO 70% OIL
 - 130' WMCO 55% OIL, 20% Water
 - 170' WMCO 55% OIL, 10% Water

Structural Comparison

DK Operating, Inc.	Selfridge #3-18	Sec. 18 T21s R22w	405' FNL & 1735' FEL	1468' +817	1498' +787	3762' -1477	3813' -1528	4166' -1881	4253' -1968	4328' -2043	4352' -2067	4419' -2134	4428' -2143
DK Operating, Inc.	Selfridge #2-18	Sec. 18 T21s R22w	1143' FNL & 335' FEL	1445' +827	1485' +787	3758' -1486	3807' -1535	4166' -1894	4254' -1982	4324' -2052	4347' -2075	4414' -2142	4424' -2152
DK Operating, Inc.	Selfridge #1-18	Sec. 18 T21s R22w	2484' FSL & 783' FEL	1457' +824	1500' +781	3760' -1479	3812' -1531	4168' -1887	4253' -1972	4325' -2044	4342' -2067	4414' -2133	4425' -2144
				(-7)	(+6)	(+2)	(+3)	(+6)	(+4)	(+1)	FL	(-1)	(+1)
				(-10)	FL	(-9)	(-8)	(+13)	(+14)	(-9)	(+8)	(+12)	(-9)

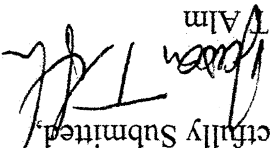
Formation
 Anhydrite
 Base
 Heebner
 Lansing
 BKC
 Pawnee
 Fort Scott
 Cherokee
 Mississippian
 Osage

Summary

The location for the Selfridge #3-18 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One Drill Stem Test was conducted which recovered commercial amounts of oil from the Mississippiian Osage Formation. After all gathered data had been examined the decision was made to run 5 1/2 inch production casing to further evaluate the Selfridge #3-18 well.

Recommended Perforations

Primary:	Mississippiian Osage	(4428' - 4435')	DST #1
Secondary:	Mississippiian Warsaw	(4419' - 4425')	DST #1
Before Abandonment:	Fort Scott	(4347' - 4351')	Not Tested

Respectfully Submitted,

Jason Alm
Hard Rock Consulting, Inc.

SWIFT Services, Inc.

LEASE: SLURRIDGE 3-18
 WELL NO. _____
 OPERATING _____
 DATE: 2/15/16
 TICKET NO. 29788
 PAGE NO. _____

JOB TYPE: Cement Port Collar
 DESCRIPTION OF OPERATION AND MATERIALS: ON LOCATION

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS	TUBING	CASING	DESCRIPTION OF OPERATION AND MATERIALS
1040							ON LOCATION
							Port Collar @ 1501
1120							TEST - HELD
1124							OPEN PORT COLLAR
1126	4	97	300	✓			MIX 175SX SMD
	3	7 ^{3/4}	100	✓			DISPAC GEMENT
							CIRCULATE @ 10SX TO PIT
1155							CLOSE PORT COLLAR - TEST - HELD
							RUN 45TS
1204	4	20	300	✓			REVERSE CLEAN
1211							WASH TRUCK
1245							JOB COMPLETE
							THANKS #115
							WASON DAVE FRISTON

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.



DK Operating Inc.
621 Benton St.
Jettmore KS
67854+5311
ATTN: Daniel King/ Jason T

S18-T21S-R22W Hodgeman Co Ks
Selfridge #3-18
Job Ticket: 63478
DST#: 1
Test Start: 2016.09.19 @ 09:25:00

GENERAL INFORMATION:

Formation: Mississippi Osaage
Deviated: No Whipstock:
Time Tool Opened: 11:04:15
Time Test Ended: 15:37:45
Interval: 4372.00 ft (KB) To 4438.00 ft (KB) (TVD)
Total Depth: 4438.00 ft (KB) (TVD)
Hole Diameter: 7.88 inchesHole Condition: Fair
Reference Elevations: 2285.00 ft (KB)
2278.00 ft (CF)
7.00 ft
Test Type: Conventional Bottom Hole (meter)
Tester: Spencer J. Staab
Unit No: 84

Serial #: 8938

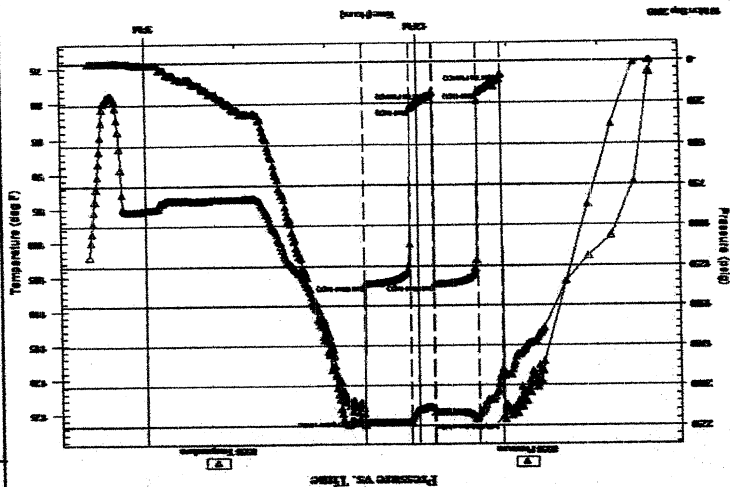
Press@FmDepth: 279.46 psig @
ft (KB)
Start Date: 2016.09.19
End Date: 2016.09.19
Start Time: 09:25:00
End Time: 15:37:45
Capacity: 8000.00 psig
Last C: 2016.09.19
Time On Btm: 2016.09.19 @ 11:04:00
Time Off Btm: 2016.09.19 @ 12:36:30

TEST COMMENT:

15-F-BOB in 5 minutes
30-SI-Weak Blow : built to 2.25 inches
15-F-BOB in 5 minutes
30-FSI-Weak Blow : built to 1 inch

PRESSURE SUMMARY

Annotation	Temp (deg F)	Pressure (psig)	Time (Min.)
Initial Hydro-static	119.57	2190.92	0
Open To Flow (1)	118.58	78.04	1
Shut-in(1)	125.04	189.96	17
End Shut-in(1)	124.79	1367.15	46
Open To Flow (2)	124.15	189.33	46
Shut-in(2)	125.72	279.46	61
End Shut-in(2)	126.34	1364.83	92
Final Hydro-static	126.49	2172.65	93

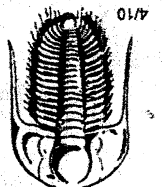


Recovery

Length (ft)	Description	Volume (bbl)
170.00	WMCO 10% W 35% M 55% O	2.41
130.00	WMCO 20% W 25% M 55% O	1.84
325.00	MGO 10% M 20% G 70% O	4.61
15.00	WMCO 10% W 20% G 35% M 35% O	0.21

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63478

Well Name & No. Selridge # 3-18
 Company DK Operating, Inc.
 Address 621 Benton St. Delmore KS
 Co. Rep / Geo. Daniel King / Dossan Alm
 Location: Sec. 18 Twp. 21S Rge. 22W Co. Hodgeman State KS
 Rig Packell #10

Interval Tested 4372 - 4438
 Anchor Length 66
 Top Packer Depth 4368
 Bottom Packer Depth 4372
 Total Depth 4438
 Blow Description IF - BOB in 5 min
IST - Weak Blow, Bit to 2 1/4 inch
FE - BOB in 5 min
FST - Weak Blow, Bit to 1 inch

Rec	Feet of WMC	%gas	%oil	%water	%mud
130	Feet of WMC	55	55	20	25
225	Feet of MGD	20	70	10	10
15	Feet of WGMCO	20	35	10	35

Rec Total 640 BHT 186 Gravity 42° API RW 15 @ 108 F Chlorides 30.000 ppm
 (A) Initial Hydrostatic 2190
 (B) First Initial Flow 38
 (C) First Final Flow 190
 (D) Initial Shut-In 1367
 (E) Second Initial Flow 189
 (F) Second Final Flow 879
 (G) Final Shut-In 1364
 (H) Final Hydrostatic 2172

Initial Open _____
 Initial Shut-In _____
 Final Flow _____
 Final Shut-In _____
 Test
 Jars
 Safety Joint
 Circ Sub
 Hourly Standby
 Mileage 146 RT 400
 Sampler
 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total _____
 MP/DST Disc't _____
 Total _____
 Sub Total _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Comments _____
 T-On Location 06:50
 T-Started 09:25
 T-Open 11:05
 T-Pulled 12:35
 T-Out 15:58

Approved By _____
 Our Representative _____
 Tribolite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.
 Thank you!

Serial #: 8938

DK Operating Inc.

Selfridge #3-18

DST Test Number: 1

