



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

INVOICE # 806730

FIELD TICKET & TREATMENT REPORT
CEMENT

5082
4989

TICKET NUMBER 49882

LOCATION Olawka, KS

FOREMAN Coyle Kennedy

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12/11/15	4530	Bayless # 1-F	NW 12	34	13	MG
CUSTOMER			TRUCK #			
Kausas Oil Development LLC			729			
MAILING ADDRESS			DRIVER			
6805 N. Capital of TX Hwy			Coston			
CITY			TRUCK #			
Austin			4607			
STATE			DRIVER			
TX			KeiCar			
ZIP CODE			TRUCK #			
78731			804			
MIX			DRIVER			
M731			W.K. Hoag			
JOB TYPE	HOLE SIZE	HOLE DEPTH	CASING SIZE & WEIGHT			
Long String	6 3/4"	1650'	4 1/2" 10.5#			
CASING DEPTH	DRILL PIPE	TUBING	OTHER			
1649'						
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT In CASING			
DISPLACEMENT	DISPLACEMENT PSI	MIX PSI	RATE			
26.30 bbl			4 bpm			

REMARKS: held safety meeting, established circulation, washed casing down to TD, mixed & pumped 400 # Gels followed by 5 bbls ~~phenoseal~~ city water, mixed & pumped 170 sks Thixoblend I cement w/ 10# Kalsol, 10% salt, & 1# Phenoseal per sk, flushed pump clean, pumped 4 1/2" rubber plug to casing TD w/ 26.30 bbls city water, cement to surface, pressured to 1000 PSI, well held pressure, released pressure to set float valve, shut in casing.

[Handwritten signature]

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CC0450	1	PUMP CHARGE	1500.00	
CC0002	45 mi	MILEAGE	321.75	
CC0711	min	van mileage	660.00	
WS2402	3 hrs	Transport	260.00	
WS2402	3 hrs	Transport	360.00	
		trucks	3201.75	
		- 43 %	1376.78	
		Subtotal		1825.00
CC5860	170 sks	Thixoblend I	4050.00	
CC5965	400 #	Gel	120.00	
CC5326	734 #	Salt	50.50	
CC6079	170 #	Phenoseal	229.50	
CC6074	1020 #	Kalsol	510.00	
W46159	200 bbl	City water	145.32	
CP8178	1	1 1/2" rubber plug	75.00	
		material	5880.32	
		- 43 %	2528.53	
		Subtotal		3351.79
				516.78
				217.87
				5394.66
				(9469.29)

Rev 07/97

AUTHORIZATION *[Signature]* TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Geological Report

Bayless #1F
4950' FSL; 3150' FEL
Sec. 12, T34S, R13E
Montgomery County, Kansas
12/15/2015

Operator: Kansas Oil Development, LLC
6805 N. Capital of Texas Hwy, Suite #265, Austin, Texas 78731

Drilling Contractor: N/A

Well-site Geologist: Julie Shaffer, Sand Hills Consulting, LLC
480 Fox Rd, Toronto, Kansas 66777

Dates Drilled: December 8 & 9, 2015

Size Hole: 6 3/4"

Total Depth: 1656.1' (logger)

Elevation: 795' (est.)

Drilling Fluid: Compressed air with injected water

Surface Casing: 40' of 7" surface casing

Electric Logs Run: CDL, CNL and DIL

Formation Tops: Formation tops were taken from electric logs and correlated with field depths.

Rock Color Desc.: GSA rock color chart (dry cuttings)

Status: **OIL/GAS WELL**

Gas Shows: Unknown

Oil Shows:

Pawnee Limestone	937-944'	Trace
Oswego Limestone	1048-1052'	Trace
Mississippian	1520-1610'	Trace

Notes: Well cuttings were collected by the drillers on 10' intervals from 700' to T.D. The samples were delivered to geologist for examination of the zones of interest in the laboratory with a binocular microscope and black-light.

0-703' Samples not examined

Top of the Lenap Limestone @ 703' (+92')

703-720' Limestone, off-white, very fine grained, no visible porosity, smooth texture

Top of the Wayside Sandstone @ 720' (+75')

720-730' Wayside Sandstone, light greenish-gray, fine and medium-fine grained sand, poorly sorted, sub-angular to sub-rounded, quartz, low porosity, well cemented, silty cementation, no hydrocarbon odor, no show, no fluorescence

730-750' Shale, light greenish-gray, silty

750-810' Samples not examined

810-813' Limestone

Top of the Weiser Sandstone @ 813' (-18')

813-826' Sandstone, light gray, very fine and fine grained, well sorted, sub-rounded to sub-angular, quartz, minor mica, minor Pyrite, low porosity, no hydrocarbon odor, no show, no fluorescence

826-832' Sandstone, light gray, very fine grained, well sorted, sub-rounded to sub-angular, quartz, minor mica, well cemented, low porosity, no hydrocarbon odor, no show, no fluorescence, laminated with medium gray silty shale

832-840' Shale, medium gray, silty

840-920' Samples not examined

920-923.5' Shale, medium-dark gray

Top of the Pawnee Limestone @ 923.5' (-128.5')

923.5-937' Limestone, light olive gray, very fine grained, fossiliferous, no visible porosity, 20% of cuttings display uniform dull mustard yellow mineral fluorescence, no hydrocarbon odor, no show, no cut

937-948' Limestone, light olive gray, very fine grained, fossiliferous, minor quartz veining, majority of cuttings show no visible porosity, 25-30% of chips display a pinpoint and pinhead vugular porosity, 20% of which show a mottled moderate yellowish-brown staining with a slight hydrocarbon odor and heavily mottled bright yellow hydrocarbon fluorescence (~937-944'). Samples exhibited a fast, blooming blue cut with a fair, even greenish-yellow fluorescence in tray when observed under a black light and no residual oil show in white light, after crushing and repeating the solvent test there is no change.

948-950' Shale, dark gray

950-1030' Samples not examined

1030-1036' Shale, medium gray

Top of the Oswego Limestone @ 1036' (-241')

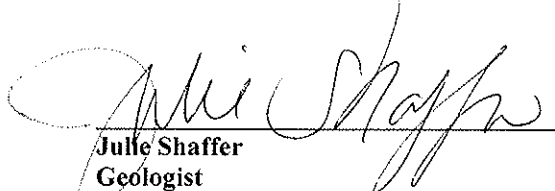
- 1036-1040' Limestone, dark brownish-gray, very fine grained, locally medium crystalline, fossiliferous, no visible porosity, no show, no odor, no fluorescence or cut
- 1040-1052' Limestone, dark brownish-gray, very fine grained, locally medium crystalline, fossiliferous, no visible porosity, less than 5% of chips show moderate brownish-yellow staining with a faint hydrocarbon odor and a speckled to mottled bright yellowish-white hydrocarbon fluorescence (~1048-1052'). Samples exhibited a moderate, blooming blue cut with a fair, even greenish-yellow fluorescence in tray when observed under a black light and no residual oil show in white light, after crushing and repeating the solvent test there is no change.
- 1052-1070' Limestone, olive gray, very fine grained with moderate medium crystalline, fossiliferous, no visible porosity, no hydrocarbon odor, <2% speckled dull greenish-yellow fluorescence, no show, no cut
- 1070-1080' Shale, dark gray to grayish-black
- 1080-1090' Limestone, light gray, very fine, no visible porosity, no fluorescence, no hydrocarbon odor, no show, no cut
- 1090-1100' Limestone, dark brownish-gray, very fine grained with minor medium crystalline, no visible porosity, no hydrocarbon odor, <2% speckled dull greenish-yellow fluorescence, no show, no cut
- 1100-1510' Samples not examined
- 1510-1520' Shale, dark gray

Top of the Mississippian @ 1520' (-725')

- 1520-1530' Limestone (70%), off-white with minor pale yellowish-brown staining, very fine grained, siliceous and chalky, low chalky porosity, mottled bright yellow and dull white hydrocarbon fluorescence; Chert (30%), white/off-white, siliceous and chalky, low scattered pinpoint vuggy porosity. Samples exhibited a moderate, blooming blue cut with a fair, uneven greenish-yellow fluorescence ring in tray when observed under a black light and a trace light brown residual oil show in white light, after crushing and repeating the solvent test there is no change.
- 1530-1540' Limestone, off-white with mottled pale yellowish-brown staining, very fine grained, siliceous and chalky, minor vugular porosity, mostly chalky porosity, heavily mottled bright yellowish-white hydrocarbon fluorescence. Samples exhibited a fast, cloudy blue cut with a good, even greenish-yellow fluorescence ring in tray when observed under a black light and a trace light brown residual oil show in white light, after crushing and repeating the solvent test there is no change.
- 1540-1550' Limestone, off-white with mottled moderate yellowish-brown staining, very fine grained, siliceous and chalky, minor vugular porosity, mostly chalky porosity, heavily mottled to even bright yellowish-white hydrocarbon fluorescence, slight odor. Samples exhibited a moderate, blooming blue cut with a fair, even greenish-yellow fluorescence ring in tray when observed under a black light and a trace light brown residual oil show in white light, after crushing and repeating the solvent test there is no change.
- 1550-1560' Limestone, off-white with minor pale yellowish-brown staining, very fine grained, siliceous and chalky, chalky porosity, heavily mottled bright yellowish-white hydrocarbon fluorescence, slight odor. Samples exhibited a slow, diffuse milky blue cut with a faint green fluorescence ring in tray when observed under a black light and no residual oil show in white light, after crushing and repeating the solvent test there is no change.

- 1560-1570' Limestone, off-white with mottled moderate yellowish-brown staining, very fine grained, siliceous and chalky, minor vugular porosity, mostly chalky porosity, uniform bright yellow hydrocarbon fluorescence, slight odor. Samples exhibited a moderate-fast, blooming blue cut with a good, even greenish-yellow fluorescence in tray when observed under a black light and a trace light brown residual oil show in white light, after crushing and repeating the solvent test there is no change.
- 1570-1585' Limestone, off-white, very fine grained, siliceous and chalky, minor Pyrite, minor vuggy and chalky porosity, mottled bright yellowish-white hydrocarbon fluorescence, no hydrocarbon stain, no odor. Samples exhibited no cut with a faint green fluorescence ring in tray when observed under a black light and no residual oil show in white light, after crushing and repeating the solvent test there is no change.
- 1585-1610' Limestone, light brownish-gray with minor staining, very fine grained, Dolomitic, sucrosic, siliceous, moderate friability, chalky porosity and low vugular porosity, slight odor, heavily mottled to uniform bright yellow hydrocarbon fluorescence, slight odor. Samples exhibited a moderate-fast, blooming blue cut with a fair, even greenish-yellow fluorescence in tray when observed under a black light and a trace light brown residual oil show in white light, after crushing and repeating the solvent test there is no change.
- 1610-1618' Limestone, dark brownish-gray, very fine grained, hard, no visible porosity, no odor, no show, no fluorescence or cut
- 1618-1630' Limestone (70%), light olive-gray, very fine grained, no visible porosity; Chert (30%), light bluish-gray/white, flinty, no odor, no show, no fluorescence or cut
- 1630-1656.1' Limestone, olive-gray, very fine grained, no visible porosity, no odor, no show, no fluorescence or cut

T.D. = 1656.1'



Julie Shaffer
Geologist