WESLEY S. HAMMER Consulting Petroleum Geologist

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Office: 316-267-3337 Cellular: 316-213-6199

KGS
Kathy
Rathbun Licenses 5678

LITHOLOGY STRIP LOG
WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depths

Well Name: Shakespeare Oil Company, Inc. #2-16 Rankin
Location: 1650' FNL & 330' FWL, Sec. 16-10S-32W
Lic. No.: 15-179-21172-0000
Spud Date: 07-07-11 Region: Scott County, KS
Drilling Completed: 7-20-2011
Surface Coordinates: 990' FNL, 707' FWL NAD1, Sec. 16-10S-32W

Bottom Hole Coordinates: Same as Surface

Ground Elevation (ft): 3197 K.B. Elevation (ft): 3207
Logged Interval (ft): 3700' to 4750' Total Depth (ft): 4750'
Formation: Mississippian & KC
Type of Drilling Fluid: Fresh Water Gel to 3700', Chemical from 3700' to TD
Printed by WELLSITE from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Shakespeare Oil Company, Inc.
Address: 202 W. Main Street
Salem, IL 62881

GEOLOGIST

Name: Wesley S. Hammer
Company: Wesley S. Hammer, Consulting Petroleum Geologist
Address: 213 N. Market, Suite 207
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COMMENTS

Contractor: Southwind Drilling Rig #15
Pusher: Stan Krieger

Surface Casing: 8 5/8" set at 267' w/150 sx
Production Casing: 5 1/2" set at w/ 400 sx

Mud Up: Mud-up - Next Abbie was the engineer.

DST's by: Trilobite - Comanche Land was the tester.

Logs by: Weatherford - MAI/SFL SP/GR/RES, MML, Sonic

Samples Saved: 10 Dog, @ 3700' - Dog @ 4750' - 4 bag @ 4770'

MT RECORDS

Dir #	Dist	MT'd	Type	Depth Out	Package Cut	Percent rec'dd
1	10 1/4"	#512		#3700'	#3700'	Top Cut
2	7 7/8"	#513		#4750'	#4750'	Top Cut

FORMATION TOPS AND STRUCTURAL COMPARISON

FORMATION	SAMPLE TOPS Depth	SUB SEA Depth	LOG TOPS Depth	SUB SEA Depth	COMPARISON WELLS A: #2-16 Rankin API #15-179-21172-0000 Sec 16-10S-32W	B: #2-9 Rankin API #15-179-21172-0000 Sec 9-10S-32W
					A	B
Kinderhook	4380'	-1173	4382'	-1175	-4382	-4407
Viola	4398'	-1191	4400'	-1193	-4400	-4425
Simpson Sand	4502'	-1295	4504'	-1297	-4504	-4529
Arbuckle	4540'	-1333	4542'	-1335	-4542	-4567
Reagan Sand	4580'	-1373	4582'	-1375	-4582	-4607
Granite Wash	4598'	-1391	4600'	-1393	-4600	-4625
Granite	4658'	-1451	4660'	-1453	-4660	-4685
Mississippian	4698'	-1491	4700'	-1493	-4700	-4725
RTD	4750'	-1543				
LTD			4748'	-1539		

DRILL STEM TESTS

DST No. 1 MIS to Reinstate "A"
Interval: 4696-4707
Times: 15-30-45-60
Recovery: 62' GIP/CW (3Bg, 5Bo, 10M, 44O)
IFP: 21-21#/ISIP 1,241 -1,241 from 15'
IHP: 2,346-2,346/ FFP: 21-21#/ FSIP 1,241 -1,241
Rec. Mcf/ 63' GIP/CW (3Bg, 5Bo, 10M, 44O)
GCM (3Bg, 5Bo), Chl: 1,241 -1,241 from 15'
IHP: 2,346-2,346/ FFP: 21-21#/ FSIP 1,241 -1,241

PPF: strong blow, B.O.B. in one minute
Weak surface return blow
Gas to surface in 45 minutes
Pmpd. weak surface return blow, died in 5 minutes

DST No. 2 Reinstate "A" and "B"
Interval: 4696-4750
Times: 15-30-45-60
Recovery: 5M GIP, 63' CSO (5Bg, 95o), 124' GCM (5Bg, 10M, 85O), 124' GCM (5Bg, 10M, 85O), 124' GCM (5Bg, 5Bo, 10M, 85O), 124' GCM (5Bg, 5Bo, 10M, 85O), 124' GCM (5Bg, 5Bo