

**PETROLEUM GEOLOGIST**  
**TIM PRIEST**  
(316) 271-3615

<b>GEOLOGIST'S REPORT</b>	
DRILLING TIME AND SAMPLE LOG	
COMPANY <b>SHAKESPEARE OIL CO.</b>	
LEASE <b>STOL COM 1-27</b>	
FIELD <b>Pence West</b>	
LOCATION <b>1198 FNL, 33° FWL</b>	
SEC.	27
COUNTY	Twsp 16S
STATE	Kansas
CONTRACTOR <b>HD Rig #2</b>	
SPUD	9-22-13
RTD	4870'
MUD UP	3600'
SAMPLES SAVED FROM	3800'
DRILLING TIME KEPT FROM	3800' to RTD
SAMPLES EXAMINED FROM 3800' to RTD	
GEOLOGICAL SUPERVISION FROM 3900' to RTD	
GEOLOGIST ON WELL <b>Tim Priest</b>	
By: Weatherford	
ELECTRIC LOG	
SAMPLE	
Casing	
Conductor	
Surface 8-5/8" @ 267'	
Production 4 1/2" @ 4870'	
ELECTRICAL SURVEYS	
CNDIDATE	
Micro.	

REMARKS It was decided to set production casing to further test the well.

Respectfully Submitted,

Tim Priest  
Petroleum Geologist

API #15-171-20972-00-00

4451 (-1312)

DST #1 (4242'-4285')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 150 MW w/o spts in  
hole 15-49651-798  
SIPs: 11709/11999  
HIPS: 20679/20538  
BHT: 111 deg F  
Chlor: 21,000ppm (system-  
4,000ppm)

DST #2 (4424'-4472')  
30'-30'-60'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 80 OCW(32,429)  
SIPs: 12289/21448  
HIPS: 9239/21294  
BHT: 109 deg F

DST #3 (4472'-4500')  
30'-30'-60'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 80 OCW(30,955)  
SIPs: 23-299/25-328  
HIPS: 8789/22248  
BHT: 109 deg F

DST #4 (4582'-4605')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 9544/9568  
HIPS: 22979/22248  
BHT: 111 deg F

DST #5 (4605'-4734')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 21-544/62-638  
HIPS: 22979/22248  
BHT: 111 deg F

DST #6 (4734'-4774')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #7 (4774'-4800')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #8 (4800'-4870')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #9 (4870'-4930')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #10 (4930'-4970')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #11 (4970'-5000')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #12 (5000'-5030')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #13 (5030'-5060')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #14 (5060'-5100')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #15 (5100'-5130')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #16 (5130'-5160')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #17 (5160'-5200')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #18 (5200'-5230')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #19 (5230'-5260')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #20 (5260'-5300')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #21 (5300'-5330')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #22 (5330'-5360')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #23 (5360'-5400')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #24 (5400'-5430')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #25 (5430'-5460')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #26 (5460'-5500')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #27 (5500'-5530')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #28 (5530'-5560')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #29 (5560'-5600')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #30 (5600'-5630')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #31 (5630'-5660')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #32 (5660'-5700')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #33 (5700'-5730')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #34 (5730'-5760')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #35 (5760'-5800')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #36 (5800'-5830')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #37 (5830'-5860')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #38 (5860'-5900')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #39 (5900'-5930')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #40 (5930'-5960')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #41 (5960'-5990')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #42 (5990'-6020')  
30'-30'-45'-90'  
IF: Built to 2 1/2 in., no return  
FF: Built to 1 in., no return  
Rec: 125 MW w/o spts in  
hole 15-49651-798  
SIPs: 22979/22248  
HIPS: 9544/9568  
BHT: 111 deg F

DST #43 (602