

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY <u>QUAIL OIL & GAS, LC</u> LEASE <u>WYLIE #1-36</u> FIELD <u>NA</u> LOCATION <u>2200'FSL & 490'FWL (SE-NW-NW-SW/4)</u> SECTION <u>36</u> TOWNSHIP <u>12S</u> RANGE <u>27W</u> COUNTY <u>GOVE</u> STATE <u>KANSAS</u>		ELEVATIONS KB <u>2636'</u> GL <u>2626'</u> Measurements Are All From API <u>15-063-22352-00-00</u>
CONTRACTOR <u>Southwind Drilling, Inc. Rig#8</u> SPUD <u>4/17/19@3:45PM</u> COMP <u>4/22/19@6:30PM</u> RTD <u>4586' (-1950)</u> LTD <u>NA</u> NO OPEN HOLE E-LOGS NO DST'S		CASING SURFACE <u>6jtsNew&5/8"x28#(238')set@250'</u> <u>w/220sClassA2%Ngel;3%CaClctcm.didd.circ.</u> PRODUCTION <u>None</u> P&A

FORMATION TOPS	LOG	SAMPLES	CHRONOLOGY
STONE CORRAL ANHYDRITE		2175' (+461)	04/17/19; MRU; Spud 12x14" @ 3:45pm; Drtd to 251' (Dist: 1.2RT; 123.14") Run Site of new 8.5/8" 28# csg (Tally=238') Set @ 250' w/220s Class A, 2% gel, 3% CaCl; cm circ'd by Quality (Ticket #1304) plug down @ 9:15pm/04/17/19; WOC: 8 hrs; Survey: 3-4deg@251'
BASE/S.C. ANHYDRITE		2219' (+417)	
HEEBNER SH		3867' (-1231)	04/18/19; Drlg 7.87'8" hole @ 395'@-7:00am; WOB:5K; RPM:120; PP:600PSI; ROP:136 29/hr Survey:1.4deg@2203'; MdWt:8.5; Vis:27
TORONTO		3887' (-1251)	
LANSING		3905' (-1269)	
MUNCIE CREEK SH		4046' (-1410)	04/19/19; Drlg @ 2712'@-7:am(-55.25/hr w/B#2AA) WOB:10K; RPM:120; PP:880PSI; MdWt:8.9; Vis:29
STARK SH		4122' (-1486)	04/20/19; Drlg@ 3736'@-7:00am; (B#2AA; 45.24/hr) WOB:15K; ROP:120; 930PSI; MdWt:8.9; Vis:60; WL:6.0
BASE/ KANSAS CITY		4169' (-1469)	04/21/19; Drlg@ 4258'@-7:00am; (B#2AA; 45.24/hr) WOB:15K; RPM:120-300PSI; MdWt:9.2; Vis:61; WL:6.0
MARMATON		4169' (-1533)	CFS:CTCH @ RTD:4586'; Then -33' stand Show/Wiper Trip; CTOCH: TOH for E-Log; PU: Pioneer; DL&CONL/CDL; Hit bridge w/E-Log tools @ -1733'; solid ledge-not sticky; tried to spud thru bridge several times; spooled out log; tools: went back in hole w/ rubber follower on bottom of E-Log tools; hit solid bridge again; spooled out; TIH w/ tri-cone bit on DC & drill pipe; kelly up & circ/ream from -1700' to -1850'; TOH; Loggers hit another bridge @ -1928' (sticky spool out w/ E-Log tools; TIH w/ tri-cone bit & DC & dp; kelly up; circ/ream from -1218' to -1345'; TOH; Loggers hit another bridge@-1212'; spool out; TIH w/just drill pipe- open-ended to -1800' then chaim'd out; E-Log tools hit solid bridge @ -2028' & sticky; spooled out; hole sticky-1880' to -1900'; Decision made to Plug. 04/22/19; Hig Dwn/HTD:4586' (S#5; Idog @4586')
ALTAMONT		4223' (-1587)	
PAWNEE		4320' (-1684)	
FORT SCOTT		4385' (-1749)	
CHEROKEE		4411' (-1775)	
MISSISSIPPIAN		4488' (-1852)	
TOTAL DEPTH (RTD)		4586' (-1950)	

REMARKS: DUE TO THE LACK OF SIGNIFICANT OIL SHOWS IN SAMPLES, & THE RELATIVELY NEGATIVE STRUCTURAL POSITION, THE DECISION WAS MADE TO PLUG AND ABANDON THE WYLIE #1-36.

PLUGGED W/ 260 SX 60/60 POZ. 4% GEL, + 1#4#SK FLOCEAL;
 1ST PLUG @ 2200' WJ; 50 SX; 2ND PLUG @ 1225' WJ; 100 SX; 3RD PLUG @ 300 WJ; 50 SX;
 4TH PLUG (W/PER PLUG) @ 40' WJ; 10 SX; & 30 SX IN RATHOLE, & 20 SX IN MOUSEHOLE;
 CEMENTED BY QUALITY (TICKET#1273). JOB COMPLETE @ 6:30PM ON 04/22/2019.

RESPECTFULLY SUBMITTED
 ROGER L. MARTIN, GEOLOGIST @ WELL-SITE

(PRINT LENGTH -87")

