

1320
1480

GEOLOGISTS REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Jennings Drilling

LEASE 1 Haring

FIELD Wildcat

LOCATION 1000 S of Nine 630 Well Line

SEC. 19 TWP. 11S R. 2E

COUNTY Leavenworth STATE Kansas

CONTRACTOR Jennings Drilling

SPUD 11 1300 COMP. 119 60

RTD 780 LTD 781

MUD UP 277 TYPE MUD EC-1

SAMPLES SAVED FROM 120 TO 70

DRILLING TIME KEPT FROM 120 TO 70

SAMPLES EXAMINED FROM 120 TO 70

GEOLOGICAL SUPERVISION FROM 120 TO 70

GEOLOGIST ON WELL 3/24/57

FORMATION TOPS

LOG

SAMPLES

ELEVATIONS

K.B. 882.5

D.F. 882.5

GL 882.5

Measurements are all from 5L

CASING

PRODUCTION

ELECTRICAL SURVEYS

Schumberger

GR-Dm Dil. Kiosco

FORMATION TOPS

REMARKS: 122-227 GRI Sample quality 122-227 poor 122-630 630-70

LEGEND

Anhydrite Salt Sandstone Shale Carb. Sh. Limestone Ool. Lime Chert Dolomite

SCALE: "100'

DEPTH	LITHOLOGY	DSTs	DRILLING TIME - Minutes Per Foot				SAMPLE DESCRIPTIONS	REMARKS
			Rate of Penetration Decreases					
			5"	10"	15"	20"		
100								
								Casing 122'
								Bit GRI 60'
							130-34 Ls, wh, m xln	Drilling w/air
							34-50 Sh & siltst, gy-gn	
50							50-77 Ls, lt m brn (wst-pst) shale in part gy-gn (mst)	
							77-98 Sh & siltst, gy-gn Tr. pyr	
200							98-202 Ls, lt brn (wst-pst)	
							02-05 Sh, gn-gy	
							05-07 Ls, m-dk brn, (mst)	
							07-22 Sh, gn-gy, Tr. Ls	
							22-30 Ls, wh-ltgy, dense (mst)	
							30-42 Sh, gn-gy	
							42-48 Ls, wh, mollusks debris (wst)	
50							48-68 Sh, gy	
							68-308 Ls, dk brn, fossils Tr. pyr, Tr. chrt wh-ltgy (mst)	277' Drilling w/ mud Vis 45 wt 82 11/15
							lt brn (oxid gst) Sh (wst)	Good Samples
300							Ls, wh-lt brn, (wst-pst)	
							08-18 Sh, gy / blk	
							18-20 Ls, lt brn, m xln (mst)	
							20-23 Sh, gy	
							23-30 Ls, wh-lt brn (wst) Tr. Ostr?	
							30-40 Sh, gy	
							40-55 Ls, m-dk brn (mst)	
							55-80 siltst, gy-gn	Base Kan Cty 455 +427
							vfgn ss	
							silt & sh, blk, mica plant debris	
							80-472 siltst & ss, gy, vfgn ss, mica carb material	Vis 25
400							Tr. glauc plant debris	
							Tr. pyr	
							minor blk sh	
50							472-76 Ls	Bit #2 GRI
							76-513 siltst & ss 2 above	Vis 35 wt 9.0
							minor iron stain	
500							ss, wh, vfgn, carb Tr. glauc	
							13-16 Ls, lt brn, (mst-wst) crinoid debris	Altamont 513 +369
							16-27 Sh, blk Ls, (pst)	
							27-34 Ls, lt brn, (mst-wst)	
							34-51 Sh & siltst, gy-gn carb material	
							Tr. glauc	
							ss, gy vfgn	
							51-56 Sh, red	
							56-58 Ls, m brn, dense (mst)	Vis 36 wt 9.0
							58-66 Sh, red	
							66-68 ss, gy, vfgn	
							68-79 Sh, gy, Tr. pyr	
							79-84 Ls, lt brn (mst)	
							84-90 Sh, blk	Cherokee 584 +298
							90-630 siltst & ss, vfgn, gy & lt red brn	U. Squirrel 592 +290
							minor carb material	
							ss lt brn vfgn	
							siltst gy-gn	Core #1
							siltst & sh red-brn, gn thin trough & bed, rip in part vfgn ss	630-45 11-17
							ss, mgy, massive w/ minor ant low angle x bed, sh parting, mica, carb Bleed O at 47 to 58 Sand size increasing	Core #2 (+242) 645-60 11-17
							ss, mgy, thin low angle x bed minor ant sh, carb, Bleed O - blk	Core #3 660-75 11-18
							inc sand size, nod pebbles	Vis 39 wt 9.2
							ss, m-dk gy, fgn, large x bed in part, siltst impact w/ flat silt pebbles, Ostr	Core #4 675-690
							ss, mgy, fgn, abnt small siltst & ss, low angle x bed ss grain size increases	Core #5 690-96
							697-708 ss, mgy, fgn, O str carb siltst	Bit #2 GRI
							08-17 siltst, gy-gy	
							17-19 Ostr	Vis 49 wt 9.7
							19-24 ss aa	
							24-33 Ls, m brn, m xln (mst)	
							33-38 Sh, gy - coal	
							38-60 siltst-sh & gy-dk gy minor ants Ls	
50							60-70 Sh & siltst gy w/ red shale in part	
							70-80 Sh, gy, w/ minor Ls, xln, abnt pyr	