	Noble Petroleum, Inc. ELEVATION Koehn #1 WC K.B. 1378 WC WC K.B. 1378 TION 2,068' FSL & 1,875' FEL D.F. C.L. 1372 TION 2,068' FSL & 1,875' FEL D.F. C.L. 1372 TION 2,068' FSL & 1,875' FEL D.F. C.L. 1372 TION 21S RGE 5E Depth Measured FRO TION TO State Surface 8.5/8" @ 226' Production NONE NONE NONE NONE LES SAVED FROM 1600' TO RTD A. Elog B. Elog C. 1430 -19 -53 -55 -55 -55	Noble Petroleum, Inc. Separt PREDARED BY FRAMES. MIZE/GEOLOGIST							
bit trip @ 1647	600 600 Shale: gray, slightly arrenaceous with some biotite Shale: gray to light gray 650 Shale: gray to light gray	Brown Lime 1631 - 253							
	Shale: gray to light gray Shale: gray to light gray, trace reddish brown Limestone: off white to light brown, medium to coarsely crystalline, no porosity, no show Limestone: mottled off white to dirty gray, medium crystalline, very poor intercrystalline porosity, trace oolitic, oolicastic, no show Limestone: off white to gray, medium to coarsely crystalline, some oolitic, oolicastic, little visible porosity, no show Limestone: off white to gray, medium to coarsely crystalline, some oolitic, oolicastic, little visible porosity, no show, some gray to green shale Limestone: off white to gray, medium to coarsely crystalline, fair amount oolitic, oolicastic, little visible porosity, no show, some gray to green shale Limestone: off white to gray, medium to coarsely crystalline, very poor intercrystallie porosity, trace heavy residual stain along fractured edges, no show free oil, no fluorescence, no odor, no cut, shale gray to green, trace pyrite 750 Limestone: off white to gray to tan. medium to coarsely crystalline, dense, little visible porosity, no show, fossiliferous w/fusulinids 750 Limestone: off white to grayish green, medium to coarsely crystalline, dense, no visible porosity, no show, fossiliferous w/fusulinids Limestone: off white to grayish green, medium to coarsely crystalline, some densely collic, collcastic, no visible porosity, no show Limestone: off white to grayish green, medium to coarsely crystalline, some densely collic, collcastic, no visible porosity, no show Limestone: off white to beige, coarsely crystalline, very poor intercrystall	Lansing 1694 - 316 vis 36 wt 9.3							
	poor intercrystalline porosity, 2 pieces w/heavy residual stain along fractured edges, no show free oil, no odor, no fluorescence, no cut Shale: gray to green Limestone: light brown, medium to coarsely crystalline, some acod, most poor intercrystalline porosity, no show trace pyrite Limestone: light brown to tan to dark gray, medium to coarsely crystalline, dense, little visible porosity, no show, trace pyrite Shale: dark gray Limestone: off white to beige, medium to coarsley crystalline little visible porosity, no show Limestone: off white to beige, medium to coarsley crystalline little visible porosity, no show Limestone: beige to gray, fine to medium crystalline, some micritic, dense, little visible porosity, no show Limestone: beige to gray, micritic, dense, little visible porosity, no show, fair amount opaque gray chert 850 Limestone: off white to gray, medium to coarsely crystalline, some chalky, little visible porosity, no show Shale: dark gray to green Limestone: off white, medium to coarsely crystalline dense, no visible porosity, no show Limestone: off white, medium to coarsely crystalline, some chalky, little visible porosity, no show Limestone: off white, medium to coarsely crystalline, some chalky, little visible porosity, no show Limestone: off white, medium to coarsely crystalline, some chalky, little visible porosity, no show								
	900 Shale: dark gray 900 Limestone: light brown, coarsely crystalline, densely oolitic, oolicastic, oolites shale filled, no visible porosity, no show Limestone: gray to light brown, coarsely crystalline, dense, no porosity, no show Limestone: off white to beige, medium to coarsely crystalline, dense, no visible porosity, no show Shale: dark gray Limestone: off white to gray, medium to coarsely crystalline, dense, no visible porosity, no show Shale: dark gray Limestone: off white, medium crystalline, very poor intercrystalline, dense, little visible porosity, no show, much gray to green shale, trace red Limestone: off white, medium crystalline, very poor intercrystalline porosity, slight show free oil, very faint odor, bright yellow fluorescence in 2-3% of 1950' drilling sample 950 Shale: dark gray Limestone: dark gray to dark brown, coarsely crystalline, dense, some densely oolitic, oolicastic, little visible porosity, no show Limestone: light to dark brown, coarsely crystalline, dense, some densely oolitic, oolicastic, little visible porosity, no show, much dark gray to black shale Limestone: off white to light brown, coarsely crystalline, dense, some densely oolitic, oolicastic, little visible porosity, no show Limestone: off white to light brown, coarsely crystalline, dense, some densely oolitic, oolicastic, little visible porosity, no show Limestone: beige, coarsely crystalline, dense, no porosity Shale: black, c	1950' x30 Stark 1994 -616							
	Limestone: beige to gray, coarsely crystalline, no visible porosity, no show Limestone: beige to gray, coarsely crystalline, no visible porosity, no show, trace gray chert Shale: black, carbonaceous Limestone: gray to light brown, coarsely crystalline, dense, no show Shale: dark gray Limestone: gray to light brown, coarsely crystalline, dense, no show Shale: black, carbonaceous Limestone: gray, coarsely crystalline, no porosity, trace gray chert, no show Shale: dark gray Shale: dark gray Shale: dark gray Shale: dark gray, trace red Shale: dark gray, trace red Shale: dark gray to red to green Limestone: gray, medium crystalline, poor to fair inter- crystalline porosity, no show Shale: dark gray to red to green, fossiliferous w/echinoids	Hushpuckney 2022 -644 BKC 2049 -671							
	Limestone: gray to grayish green, medium to coarsely crystalline, very poor intercrystalline porosity, no show, fair amount pyrite Shale: dark gray to green to reddish brown Shale: dark gray to green to reddish brown, slightly calcareous 150 Shale: dark gray to green to reddish brown Limestone: beige to gray, medium to coarsely crystalline, little visible porosity, no show Shale: dark gray to red Limestone: off white to gray, micritic, little visible porosity, no show Shale: dark gray to red Limestone: gray to beige to light brown, medium to coarsely crystalline, no show Shale: dark gray to red Limestone: off white to gray, micritic, little visible porosity, no show Shale: dark gray to red Limestone: gray to beige to light brown, medium to coarsely crystalline, poor intercrystalline porosity, no show Shale: black, carbonaceous Limestone: beige to light brown, c crystalline, no porosity Shale: dark to light gray 200 Chert: white to off white, most fresh, white, trace gray trace tripolitic w/fair tripolitic porosity, no show free oil, no stain, no odor, no fluorescence Chert: white to off white, most fresh, white, trace tripolitic w/fair tripolitic porosity, no show free oil, no stain, no odor, no fluorescence	Mississippian 2198 -820							
	Shale: green to dark gray Shale: dark gray to green to reddish brown Shale: dark gray to green Shale: dark gray to green Shale: dark gray to green Shale: dark gray Shale: dark gray to red trace green Shale: dark gray to red Shale: dark to light gray	Kinderhook 2222 -894 View 2354' 15" x25 View 2354' 15" x25 View 2354' 30" x21							
Company_NOBLE PETROLEUM	HOISINGTON, KANSAS 67544 (800) 542-7313 TI DRILL-STEM TEST TICKET FILE: KHN1DST1 Lease & Well No. KOEHN #1	2354' 45" x21 Misener 2348 - 970 Hunton 2350 - 972 vis 55 wt 9.4 wl 9.2 ME ON: 1550 ME OFF: 2335							
Contractor C&G RIG 1 Charge to NOBLE PETROLEUM Elevation 1378 KB Formation HUNTON Effective Pay Ft. Ticket No. M354 Date 7/17/2012 Sec. 19 Twp. 21 S Range 5 E W County MARION State KANSAS Test Approved By FRANK MIZE Diamond Representative MIKE COCHRAN Formation Test No. 1 Interval Tested from 2328 ft. to 2354 ft. Total Depth 2354 ft. Packer Depth 2323 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in. Packer Depth 2328 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in. Depth of Selective Zone Set									

2nd Open: (GSB, B	OB 45 SE	C AFTEF	R 11 MIN	QUIT B	LOWING	BOB	AND D	IMMINIS	HED UNT	L DEAD @	2 14 MIN	(NO BB)
	-												

Recovered 532 ft. of GHOCWM 5% GAS, 37% OIL, 41% WTR, 17% MUD

