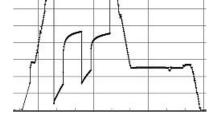
	-1643	4,400'		Total Depth
	-1557	4,314'		Cherokee
	-1487	4,244'		Pawnee
- 2/	-1385	4,142'		B/KC
	-1179	3,936'		Lansing
	-1164	3,921'		Toronto
C	-1134	3,891'		Heebner
>	-949	3,706'		Topeka
	-818	3,575'		Stotler
pol coura	+218	2,539'		Stone Corral
Microlog	SAMPLE DATUM	SAN TOP	LOG TOP DATUM	FORMATION NAME
Induction log	RTD	0' TO	SION FROM 3,500	GEOLOGICAL SUPERVISION FROM
Compact Array -	RTD	TO	ROM 3,500'	SAMPLES EXAMINED FROM
Weatherford Wireline:	RTD	TO	3,500'	SAMPLES SAVED FROM
ELECTRICAL SURVEYS:	RTD	TO	ROM 3,400'	DRILLING TIME KEPT FROM
	Chemical			
Production	1-23-2016		Murtin Drilling Co., Inc. 1 ED 1-15-2016 COMPLETED	CONTRACTOR Murti DRILLING STARTED 1-1
w/ 250 sacks cement			,	
Surface 8-5/8" @ 255'		00	15-039-21228-00-00	АРІ 15-03
Conductor	St	Kansas	STATE	COUNTY Decatur
CASING RECORD	W8	RNG 28W	55 S	SEC. 27 TWSP
MEASUREMENTS FROM K.B.		FEL	408' FNL 1,637' FEL	LOC. FOOTAGE 408
_{GL} 2,752'	Zm	E NW	78'S & 13'E of NE NW NE	LOC. SPOT 78'S
кв 2,757'		<i>†</i> 1	Jacobs Brothers #1	LEASE Jacob:
ELEVATIONS		od., LLC	Suemaur Exp. & Prod., LLC	OPERATOR Suemo
	REPORT AMPLE LOG	S S	GEOLOGIST'S REPORT	
	bLOGIST bas	OLEUM GEOLC Wichita, Kansas	PETROLEUM GEOLOGIST Wichita, Kansas	
rd	filfo	L . N	Robert L. Milford	H

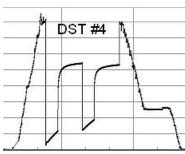
DATE	7:00 AM DEPTH	REMARKS
1-15-2016	0'	Spud @ 3:15 pm. Plug down @ 8:00 pm. Drilled out plug @ 4:00 am on 1-16-16 w/ PDC bit
1-16-2016	475'	Cut 475' in last 24 hrs. Dev.: 1° @ 1675'. Hole taking fluid 1522'-2400', lost 380 bbls.
1-17-2016	2,785'	Cut 2,310' in last 24 hrs; 20.5 hrs drlg. Bit trip @ 3500' (ran button bit)
1-18-2016	3,650'	Cut 865' in last 24 hrs; 16.75 hrs drlg. DST #1 @3950'
1-19-2016	3,950'	Cut 300' in last 24 hrs; 10.75 hrs drlg. DST #2 @ 3990'
1-20-2016	3,990'	Cut 40' in last 24 hrs; 1.5 hrs drlg. DST #3 @ 4028'
1-21-2016	4,070'	Cut 80' in last 24 hrs; 3.75 hrs drlg. DST #4 @ 4102', DST #5 @ 4125'
1-22-2016	4,125'	Cut 55' in last 24 hrs; 3.25 hrs drlg. RTD 4400' @ 3:17 am on 1-23-16
1-23-2016	4,400	Cut 275' in last 24 hrs; 9 hrs drlg.

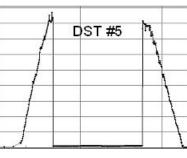
Remarks	
Drill Stem Test Charts	Drill Stem Test by Trilobite Testing, Inc.
,∦ DST#1 \	/ DST #2 \m











TH. 0 DRILL TIME	E (MIN/FT) 10	DEPTH		REMARKS
			<	Bit trip at 3500'. Replaced PDC bit with button bit. Circ 15" to clean hole prior to TOH. Circ 30" to clean hole after TTH
	BIT TRIP	2500		TOH. Circ 30" to clean hole after TIH. Pipe Strap @ 3500': Strap long 1.71' Straight Hole Survey @ 3500': 0.75° Dev
		3500	Sh: red-brn, gry, grn LS: crm-brn, fxln, fos in prt, some blk inclusions, sub chky-prtly dns w/ some chky, pr por, NS Sh: red-brn, gry, grn	Samples start 3500' @ 12:34 am on 1-18-1 10' wet & dry samples
			Sh: red-brn, gry, grn - LS: crm-brn, fxln, fos in prt, some shly, some sdy, -	-
			tr cht (wh), sub chky-prtly dns w/ some chky, pr por, NS _ Sh: red-brn (some soft & gummy), grn, gry, tan _ LS: crm-gry, fxln, sli fos, some shly, sub chky-	_
Ş			prtly dns w/ some chky, pr por, NS Sh: red-brn (some soft & gummy), gry, grn LS: crm-gry, f×ln, fos in prt, some shly, sub chky-	-
	Cn	3550	prtly dns w/ some chky, pr por, NS _ Sh: red-brn (some soft & gummy, some sdy), gry _	-
Š			LS: A.A., pr por, NS - Sh: red-brn (some soft & gummy, some sdy), gry- grn, w/ small amnt Sd: tan, fn grain, calc, semi fri-	-
Ş			brittle, pr vis por, NS Sh: red-brn (some sdy), gry-grn, vry scat drk gry	
			LS: It gry-tan, fxln, sli fos, some shly, sub chky- prtly dns, pr por, NS Sh: It-med gry, scat red-brn & grn LS: crm-gry, fxln, sli fos, some shly, sub chky-	(010)
			LS: crm-gry, fxln, sli fos, some shly, sub chky- prtly dns, pr por, NS Sh: It gry (some soft & gummy), med gry, scat drk arv-Blk Carb & red-brn	
		3600	gry-Blk Carb & red-brn LS: crm-gry, fxln, some fos-ool, some shly, sub chky-prtly dns, pr por, NS	-
			Sh: lt-med gry w/ amall amnt drk gry-Blk Carb & red-brn LS: A.A. w/ some shly, pr por, NS	-
			LS: crm-gry, fxln, some sdy (vry fn grain), sli fos, sub chky-prtly dns, pr por, NS Sh: lt-med gry, scat drk gry & red-brn	
			LS: crm-lt gry, fxln, fos-ool in prt, aub chky-prtly dns, pr por, NS LS: crm-tan, fxln, fos in prt, sub chky-prtly dns	-
$\left\{ \right\}$			w/ some chky-vry chky, tr fr fos por, NS - Sh: red-brn & gry LS: crm-gry, fxln, fos in prt, sub chky-prtly dns w/ some chky, pr por, NS	Morgan Mud check @ 3640': 53 Vis, 8.9 Wt, 6.0 WL, 1,000 ppm Chl, 1# LCM
- 		3650	Sh: red-brn & gry w/ LS: wh-It gry, fxIn, sli chty (crm), fos-ool in prt, tr sdy (fn-med grain), sub chky-prtly dns w/ some chky, pr por, NS	
Z			LS: crm-lt gry, fxln, fos in prt, sub chky-prtly dns, pr por, NS	
			Sh: gry w/ some gry & red-brn	
5			 LS: crm-tan, fxln, fos in prt, sub chky-prtly dns w/ some dns, pr por, NS Sh: red-brn & gry LS: crm tan fxln fos in prt, sub chky, prtly, dns 	
5		3700	 LS: crm-tan, fxln, fos in prt, sub chky-prtly dns w/ some chky-vry chky, pr w/ tr fr fos-pin point por, NS Sh: red-brn (some soft & gummy), gry, grn 	
	+Cn	3700	 Sh: red-brn (some soft & gummy), gry, grn LS: crm-tan, fxln, fos in prt, some shly (red-brn, mottled), sub chky-prtly dns, pr por, NS 	Topeka 3706' (-949)
	20"	>	— mottled), sub cnky-prily ans, pr por, NS – LS: A.A., w/ gry, some pin point-small vug por, NS LS: wh-crm, fxln, fos in prt, some calcite, sub chky-prtly dns w/ some chky-vry chky, pr w/ tr –	
			pin point por, NS 	-
4			LS: wh-tan, fxln, fos in prt, sub chky-prtly dns w/ some chky-vry chky, pr por, NS, w/ small amnt _ Sd: lt gry, fn-vry fn grain, calc, semi brittle, pr vis por NS	-
		3750	vis por, NS Sh: red-brn (mstly soft & gummy, some sdy), w/ tr Sd: A.A., pr por, NS Sh: red-brn A.A. w/ some gry & grn	
		-	LS: wh-crm, fxln, fos in prt, chky-prtly dns w/ -	-
\$	20" 	>	some vry chky, mstly pr w/ tr fr fos por, NS - LS: wh-crm, fxln, fos in prt, vry chky-prtly dns, pr - w/ some fr fos por, NS	-
2			w/ some fr fos por, NS – LS: wh-lt tan, fxln, fos in prt, vry chky-prtly dns, – pr w/ some fr fos por, NS	
			LS: crm-tan, fxln, sli fos, sub chky-prtly dns w/	
}		3800	some dns, pr por, NS – – –	-
			Sh: Blk Carb - LS: tan, fxln, fos, prtly dns, pr por, NS Sh: lt grn (soft & gummy) & red-brn (some soft &	
			gummy) w/ small amnt Sd: It gry, fn grain, calc, _ fri, pr vis por, NS	
Ł			LS: wh-tan, fxln, fos in prt, chky-prtly dns w/ some vry chky, pr-fr fos por, NS 	
5			LS: crm-gry, fxln, fos in prt, sub chky, prtly dns w/ some chky, pr-fr fos por, NS	DST #1 3925'-3950' LKC 'A' z
\$		3850	– Sh: Blk Carb (tr amnt), w/ red-brn & gry – LS: wh-tan, fxln, fos in prt, vry chky-prtly dns, pr	IF: blow built to 7.5" ISI: no blow bac FF: blow built to 6" FSI: no blow bac Recovery: 217' TOTAL FLUID:
<pre>L</pre>	+Cn		vis por, NS LS: wh-lt gry, fxln, fos in prt, vry chky-prtly dns, pr-fr fos-pin point por, NS	30' <i>GO</i> (50% <i>G</i> , 50% <i>O</i>) 30' <i>MCO</i> (2% <i>G</i> , 75% <i>O</i> , 23%M) 33' <i>OWCM</i> (3% <i>G</i> , 10% <i>O</i> , 17%W, 70%M)
			LS: wh-lt gry, fxln, fos in prt, vry chky-prtly dns,	124' SOMCW (2%0, 79%W, 19%M) Oil Gravity: too low & cold to record Chl ppm: 27,000 DST; 1,000 Mud
			LS: wn-it gry, txin, tos in prt, vry cnky-prtly ans, _ pr-fr fos-pin point por, NS LS: tan, fxln, fos, prtly dns, pr por, NS	FFP: 73-106#/45" FSIP: 1294#/60" Started 5' wet & dry samples @ 3885'
			Sh: Black Carb	Heebner 3891' (-1134)
		3900	LS: crm-tan, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: lt grn (soft & gummy), gry, red-brn	
Z			Sh: red-brn (some soft & gummy), gry, gry, gry	
			LS: wh-lt gry, fxln, fos in prt, vry chky-prtly dns, pr-fr fos por, NS	Toronto 3921' (-1164)
	20" [®]	>	 Sh: red-brn (some soft & gummy), gry, grn LS: wh-lt gry, fxln, ool (med-crs) w/ some fos, sub 	Lansing 3936' (-1179)
- F	<u> </u>		 chky-prtly dns w/ some chky, pr-fr introol & fr- gd vug por, fr amnt drk brn-blk patchy-sub sat w/ some sat stn, F-GSFO (some gassy & bleeding, 	Ran 20 stand short trip prior to DST #1 Straight Hole Survey @ 3950': 1° Dev. Morgan Mud check @ 3950': 54 Vis,
	60" ^C	3950	some thk-hvy), fr odor Sh: gry, grn, red-brn (1 pc/ tray LS w/ stn A.A.) Sh: red-brn (some soft & gummy), some gry & grn (less than 1 pc/ tray LS w/ stn A.A.) LS: crm fxln, col-fos, sub chky-prtly dns, pr-fr	9.1 Wt, 5.6 WL, 1,000 ppm Chl, 5# LCM (6:30 am, during FSI on DST #1)
		>	LS: crm, fxln, ool-fos, sub chky-prtly dns, pr-fr intrprtical por, tr drk brn patchy-sub sat stn, SSFO, no odor (about 10% of samples were LS & avg about 1 pc/ tray w/ SO) - Sh: red-brn (some soft & gummy), gry, gry	- VSR: one bounce on drill string 3968' circ smpls were about 90% shale - DST #2 3947'-3990' Lans 'C'-'D' zı
ъ	あり あり あり あり あり で う もり で う もり で う もり で う もり で う もり で う もり で う もり で う もり で う もり で う もり で う もり で う もり で う もり で う もり で う もり で う で う もり で う つ で う で う で う で う で う で う つ で う で う つ で う つ で う つ で う つ つ で う つ で う つ つ で う つ つ つ つ つ つ つ つ つ つ つ つ つ		(1 or less pc/ tray LS w/ stn A.A.) LS: crm, fos-ool, sub chk-prt dns, pr-fr intrprt por, scat brn & blk patchy stn, FSFO, no odor	IF: blow built to 10" ISI: no blow bac FF: blow built to 7" FSI: no blow bac Recovery: 250' TOTAL FLUID:
	60" _{6/6}	>	LS: crm, f×ln, chty (crm-org), sub chky-prtly dns, some pr-fr vug por, vry scat brn-blk patchy stn, SSFO, no odor	125' WCM w/ trace oil (31%W, 69%M) 125' MCW w/ trace oil (84%W, 16%M) Chl ppm: 32,000 DST; 1,000 Mud
		/	 Sh: red-brn (some soft & gummy), some gry & grn LS: crm-tan, fxln, fxln, fos-ool in prt, sub chky- prtly dns w/ some chky, pr-fr intrortical w/ some. 	IFP: 31-112#/45" ISIP: 1001#/60' FFP: 112-133#/45" FSIP: 936#/60" Note: some plugging during IFP Morgan Mud check @ 3990': 64 Vis,
<u> </u>			prtly dns w/ some chky, pr-fr intrprtical w/ some small vug por, vry scat lt-drk brn sptd-sat stn, S-FSFO (tr bleeding), no odor — Sh: red-brn (some soft & gummy), some gry-grn Shly Sdy LS: red-brn, fn-vry fn grain sd, some	9.2 Wt, 5.6 WL, 1,100 ppm Chl, 4# LCM (6:30 am, during TOH after DST #2)
			Shly Sdy LS: red-brn, fn-vry fn grain sd, some mottled, hard-brittle, pr por, NS Sh: red-brn (some soft & gummy), some gry-grn Shly LS: red-brn, some mottled, pr por, NS	DST #3 3987'-4028' LKC 'F'-'G' zn IF: BOB in 2" ISI: BOB in 34 FF: BOB in 2.75"; FSI: BOB in 26 Rec: 630' GIP & 1,295' TOTAL FLUID:
			LS: wh-crm, sli fos, vry chky-prt dns, tr fr fos- vug por, tr brn-blk sptd-patchy stn, SSFO, no	Rec: 630' GIP & 1,295' TOTAL FLUID: Dumped 95' CGO (12%G, 88%O). Rev. ou 1,076' fluid w/ smpls every 5 min: 5" smp
'6 '	+Cn 60" ^{(C})	odor, tr barren por └Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) └ ●LS: wh-crm. fxln. fos in prt. chty (crm-ora), vry	SMCO (15% G, 83% O, 2% M), 10" smpl
			odor, tr barren por Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxln, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-blk sptd-patchy stn (5 pcs total), NSFO, no odor Sh: Blk Carb LS: brn, fxln, sli fos, prtly dns, pr por, NS	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M).
	60"		 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxln, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-blk sptd-patchy stn (5 pcs total), NSFO, no odor Sh: Blk Carb LS: brn, fxln, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: gry-grn (some soft & gummy), red-brn 	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8° Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60
	60" ⁽⁴)	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxln, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-blk sptd-patchy stn (5 pcs total), NSFO, no odor Sh: Blk Carb LS: brn, fxln, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: gry-grn (some soft & gummy), red-brn LS:wh-tan, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, tr brn-blk sptd-patchy stn (1 pc ool-cavings?), NSFO, no odor LS: A.A. w/ incrs chky-vry chky, pr w/ tr fr fos- 	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8° Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis,
	60" ⁽⁴	4050	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxln, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-blk sptd-patchy stn (5 pcs total), NSFO, no odor Sh: Blk Carb LS: brn, fxln, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: gry-grn (some soft & gummy), red-brn LS:wh-tan, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, tr brn-blk sptd-patchy stn (1 pc ool-cavings?), NSFO, no odor LS: A.A. w/ incrs chky-vry chky, pr w/ tr fr fossmall vug por, 1 pc w/ sptd brn stn, NSFO, no odor Sh: gry, some drk gry LS: brn, fxln, fos (fusl, crs), prtly dns, pr por, NS 	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8° / Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 13"
	60" ⁽⁴	4050	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxln, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-blk sptd-patchy stn (5 pcs total), NSFO, no odor Sh: Blk Carb LS: brn, fxln, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: gry-grn (some soft & gummy), red-brn LS:wh-tan, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, tr brn-blk sptd-patchy stn (1 pc ool-cavings?), NSFO, no odor LS: A.A. w/ incrs chky-vry chky, pr w/ tr fr fossmall vug por, 1 pc w/ sptd brn stn, NSFO, no odor Sh: gry, some drk gry 	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8° / Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 13" FF: BOB in 2.75"; FSI: BOB in 11.75 Rec: 1,480' GIP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M
	60" ^{(*}	4050	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxln, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-blk sptd-patchy stn (5 pcs total), NSFO, no odor Sh: Blk Carb LS: brn, fxln, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: gry-grn (some soft & gummy), red-brn LS:wh-tan, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, tr brn-blk sptd-patchy stn (1 pc ool-cavings?), NSFO, no odor LS: A.A. w/ incrs chky-vry chky, pr w/ tr fr fossmall vug por, 1 pc w/ sptd brn stn, NSFO, no odor Sh: gry, some drk gry LS: brn, fxln, fos (fusl, crs), prtly dns, pr por, NS Sh: It gry-grn-tan (soft & gummy), red-brn (some soft & gummy) Sh: red-brn (mstly soft & vry gummy), gry-grn 	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8° / Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 13" FF: BOB in 2.25" ISI: BOB in 11.75 Rec: 1,480' GIP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4° API
		4050	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxln, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-blk sptd-patchy stn (5 pcs total), NSFO, no odor Sh: Blk Carb LS: brn, fxln, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: gry-grn (some soft & gummy), red-brn LS:wh-tan, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, tr brn-blk sptd-patchy stn (1 pc ool-cavings?), NSFO, no odor Sh: gry, some drk gry LS: A.A. w/ incrs chky-vry chky, pr w/ tr fr fossmall vug por, 1 pc w/ sptd brn stn, NSFO, no odor Sh: gry-grn-tan (soft & gummy), red-brn (some soft & gummy) Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn LS: crm-lt gry, fxln, fos-ool in prt, sub chky-prtly dns w/ some chky, pr-fr intrprtical por, fr amnt lt-med brn patchy-sub sat stn, S-FSFO, fnt odor Sh: lt-med gry (some soft & gummy) Sh: gry & red-brn, some grn & tan 	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8° / Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 13" FF: BOB in 2.75"; FSI: BOB in 11.75 Rec: 1,480' GIP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4° API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102'
		4050	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxln, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-blk sptd-patchy stn (5 pcs total), NSFO, no odor Sh: Blk Carb LS: brn, fxln, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: gry-grn (some soft & gummy), red-brn LS:wh-tan, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, tr brn-blk sptd-patchy stn (1 pc ool-cavings?), NSFO, no odor Sh: gry, some drk gry LS: A.A. w/ incrs chky-vry chky, pr w/ tr fr fossmall vug por, 1 pc w/ sptd brn stn, NSFO, no odor Sh: gry-grn-tan (soft & gummy), red-brn (some soft & gummy) Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn LS: crm-lt gry, fxln, fos-ool in prt, sub chky-prtly dns w/ some chky, pr-fr intrprtical por, fr amnt lt-med brn patchy-sub sat stn, S-FSFO, fnt odor Sh: lt-med gry (some soft & gummy) Sh: crd-brn (some soft & gummy) Sh: crd-brn (some soft & gummy) Sh: ht-med gry (some soft & gummy) Sh: gry & red-brn, some grn & tan Sh: red-brn (some soft & gummy), gry, tr grn Sh: crm, fxln, sli fos, sub chky-prtly dns, pr w/ 	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8° / Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 13" FF: BOB in 2.25" ISI: BOB in 11.75 Rec: 1,480' GIP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4° API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60"
	60" 60" 60" 500 500 500 500 500 500 500 5	4050	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxln, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-blk sptd-patchy stn (5 pcs total), NSFO, no odor Sh: Blk Carb LS: brn, fxln, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: gry-grn (some soft & gummy), red-brn LS:wh-tan, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, tr brn-blk sptd-patchy stn (1 pc ool-cavings?), NSFO, no odor Sh: gry, some drk gry LS: A.A. w/ incrs chky-vry chky, pr w/ tr fr fossmall vug por, 1 pc w/ sptd brn stn, NSFO, no odor Sh: gry-grn-tan (soft & gummy), red-brn (some soft & gummy) Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn LS: crm-lt gry, fxln, fos-ool in prt, sub chky-prtly dns w/ some chky, pr-fr intrprtical por, fr amnt lt-med brn patchy-sub sat stn, S-FSFO, fnt odor Sh: lt-med gry (some soft & gummy), gry, tr grn Sh: crm, fxln, sli fos, sub chky-prtly dns, pr w/ some fr fos-pin point por, fr amnt lt-med brn patchy-sub sat stn, S-FSFO, no odor 	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8°, Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 13" FF: BOB in 2.75"; FSI: BOB in 11.75 Rec: 1,480' GIP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4° API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/30" FSIP: 30#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM
		4050	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxln, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-blk sptd-patchy stn (5 pcs total), NSFO, no odor Sh: Blk Carb LS: brn, fxln, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: gry-grn (some soft & gummy), red-brn LS:wh-tan, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, tr brn-blk sptd-patchy stn (1 pc ool-cavings?), NSFO, no odor Sh: gry, some drk gry LS: A.A. w/ incrs chky-vry chky, pr w/ tr fr fossmall vug por,1 pc w/ sptd brn stn, NSFO, no odor Sh: gry, some drk gry LS: brn, fxln, fos (fusl, crs), prtly dns, pr por, NS Sh: It gry-grn-tan (soft & gummy), red-brn (some soft & gummy) Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn LS: crm-lt gry, fxln, fos-ool in prt, sub chky-prtly dns w/ some chky, pr-fr intrprtical por, fr amnt lt-med brn patchy-sub sat stn, S-FSFO, fnt odor Sh: It-med gry (some soft & gummy), gry, tr grn Sh: red-brn (some soft & gummy) Sh: crm, fxln, sli fos, sub chky-prtly dns, pr w/ some fr fos-pin point por, fr amnt lt-med brn patchy-sub sat stn, S-FSFO, no odor 	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8°, Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 13" FF: BOB in 2.75"; FSI: BOB in 11.75 Rec: 1,480' GIP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4° API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 30#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130'
		4050	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxln, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-blk sptd-patchy stn (5 pcs total), NSFO, no odor Sh: Blk Carb LS: brn, fxln, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: gry-grn (some soft & gummy), red-brn LS: wh-tan, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, tr brn-blk sptd-patchy stn (1 pc ool-cavings?), NSFO, no odor Sh: gry, some drk gry LS: brn, fxln, fos (fusl, crs), prtly dns, pr por, NS Sh: gry, some drk gry LS: brn, fxln, fos (fusl, crs), prtly dns, pr por, NS Sh: It gry-grn-tan (soft & gummy), red-brn (some soft & gummy) Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn LS: crm-lt gry, fxln, fos-ool in prt, sub chky-prtly dns w/ some chky, pr-fr intrprtical por, fr amnt lt-med brn patchy-sub sat stn, S-FSFO, fnt odor Sh: It-med gry (some soft & gummy), gry, tr grn Sh: crd-brn (some soft & gummy), gry, tr grn Sh: crm, fxln, sli fos, sub chky-prtly dns, pr w/ some fr fos-pin point por, fr amnt lt-med brn patchy-sub sat stn, S-FSFO, no odor Sh: ired-brn (some soft & gummy), gry, tr grn Sh: erd-brn, gry, grn Sh: red-brn, gry, some grn LS: crm-lt gry, fxln, sli fos, some shly (red-brn, mottled), sub chky-prtly dns, pr por, NS 	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8° / Chl ppm: 40,000 DST: 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 13" FF: BOB in 2.25" ISI: BOB in 11.75 Rec: 1,480' GIP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4° API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 30#/60" FFP: 22-23#/30" FSIP: 30#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125'
		4050	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxIn, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-blk sptd-patchy stn (5 pcs total), NSFO, no odor Sh: Blk Carb LS: brn, fxIn, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: gry-grn (some soft & gummy), red-brn LS:wh-tan, fxIn, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, tr brn-blk sptd-patchy stn (1 pc ool-cavings?), NSFO, no odor LS: A.A. w/ incrs chky-vry chky, pr w/ tr fr fossmall vug por, 1 pc w/ sptd brn stn, NSFO, no odor Sh: gry, some drk gry LS: brn, fxIn, fos (fusl, crs), prtly dns, pr por, NS Sh: lt gry-grn-tan (soft & gummy), some gry-grn Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn LS: crm-lt gry, fxIn, fos-ool in prt, sub chky-prtly dns w/ some chky, pr-fr intrprtical por, fr annt lt-med brn patchy-sub sat stn, S-FSFO, fnt odor Sh: lt-med gry (some soft & gummy), gry, tr grn Sh: red-brn (some soft & gummy), gry, tr grn Sh: crd-brn (some soft & gummy), gry, tr grn Sh: a.A. LS: crm-lt gry, fxIn, fos, sub chky-prtly dns, pr w/ some fr fos-pin point por, fr amnt lt-med brn patchy-sub sat stn, S-FSFO, no odor Sh: red-brn (some soft & gummy), gry, tr grn Sh: crm-lt gry, fxIn, sli fos, sub chky-prtly dns, pr w/ some fr fos-pin point por, fr amnt lt-med brn patchy-sub sat w/ some sat stn, S-FSFO, no odor Sh: red-brn, gry, grn Sh: red-brn (some sdy), gry, grn Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon 	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8°, Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 13" FF: BOB in 2.75"; FSI: BOB in 11.75 Rec: 1,480' GIP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4° API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 30#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130'
		4050	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxin, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-blk sptd-patchy stn (5 pcs total), NSFO, no odor Sh: Blk Carb LS: brn, fxln, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: gry-grn (some soft & gummy), red-brn LS:wh-tan, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, tr brn-blk sptd-patchy stn (1 pc ool-cavings?), NSFO, no odor LS: A.A. w/ incrs chky-vry chky, pr w/ tr f fossmall vug por, 1 pc w/ sptd brn stn, NSFO, no odor Sh: gry, some drk gry LS: brn, fxln, fos (fusl, crs), prtly dns, pr por, NS Sh: lt gry-grn-tan (soft & gummy), some gry-grn Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn LS: crm-lt gry, fxln, fos-ool in prt, sub chky-prtly dns w/ some chky, pr-fr intrprtical por, fr amnt lt-med brn patchy-sub sat stn, S-FSFO, fnt odor Sh: gry & red-brn, some grn & tan Sh: red-brn (some soft & gummy), gry, tr grn Sh: crm, fxln, sli fos, sub chky-prtly dns, pr w/ some fr fos-pin point por, fr amnt lt-med brn patchy-sub sat stn, S-FSFO, no odor Sh: gry & red-brn, some grn & tan Sh: red-brn (some soft & gummy), gry, tr grn Sh: red-brn (some soft & gummy), gry, tr grn Sh: red-brn (some soft some sat stn, S-FSFO, no odor Sh: red-brn, gry, grn Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon 	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8°, Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 13" FF: BOB in 2.75"; FSI: BOB in 11.75 Rec: 1,480' GIP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4° API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 30#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130'
		4050	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxln, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-blk sptd-patchy stn (5 pcs total), NSFO, no odor Sh: Blk Carb LS: brn, fxln, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: gry-grn (some soft & gummy), red-brn LS:wh-tan, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, tr brn-blk sptd-patchy stn (1 pc col-cavings?), NSFO, no odor Sh: gry, some drk gry LS: A.A. w/ incrs chky-vry chky, pr w/ tr fr fossmall vug por, 1 pc w/ sptd brn stn, NSFO, no odor Sh: gry, some drk gry LS: brn, fxln, fos (fusl, crs), prtly dns, pr por, NS Sh: lt gry-grn-tan (soft & gummy), red-brn (some soft & gummy) Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn LS: crm-lt gry, fxln, fos-col in prt, sub chky-prtly dns w/ some chky, pr-fr intrprtical por, fr annt It-med brn patchy-sub sat stn, S-FSFO, fnt odor Sh: lt-med gry (some soft & gummy), gry, tr grn Sh: A.A. LS: crm, fxln, sli fos, sub chky-prtly dns, pr w/ some fr fos-pin point por, fr annt It-med brn patchy-sub sat stn, S-FSFO, no odor Sh: red-brn (some soft & gummy), gry, tr grn Sh: A.A. LS: crm-lt gry, fxln, sli fos, some shly (red-brn, mottled), sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns, pr por, NS 	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8°, Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 13" FF: BOB in 2.75"; FSI: BOB in 11.75 Rec: 1,480' GIP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4° API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 30#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130'
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		4050	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxln, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, rt brn-blk sptd-patchy stn (5 pcs total), NSFO, no odor Sh: Blk Carb LS: brn, fxln, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: gry-grn (some soft & gummy), red-brn LS: wh-tan, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, tr brn-blk sptd-patchy stn (1 pc ool-cavings?), NSFO, no odor LS: wh-tan, fxln, sli fos, sub chky-prtly dns, pr por, NS for, no odor Sh: gry, some drk gry LS: brn, fxln, fos (fusl, crs), prtly dns, pr por, NS Sh: 1 gry-grn-tan (soft & gummy), red-brn (some soft & gummy) Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn LS: crm-lt gry, fxln, fos-col in prt, sub chky-prtly dns w/ some chky, pr-fr intrprtical por, fr annt It-med brn patchy-sub sat stn, S-FSFO, fnt odor Sh: red-brn, some grn & tan Sh: red-brn, some grn & tan Sh: red-brn, gry, grn Sh: red-brn, gry, grn Sh: crm-lt gry, fxln, fos, sub chky-prtly dns, pr w/ some fr fos-pin point por, fr annt It-med brn patchy-sub sat stn, S-FSFO, no odor Sh: red-brn, gry, grn Sh: red-brn (some soft & gummy), gry, tr grn Sh: red-brn (some soft), gry, grn w/ some brick red & maroon LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon Calc Sd: It gry-red-brn, fn-vry fn grain, mstly shly, semi fri-brittle, pr vis por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon Calc Sd: It gry-red-brn, fn-vry fn grain, calc, some shly, semi fri-brittle, pr vis por, NS Sh: red-brn (mstly soft & vry gummy), some g	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8°, Chl ppm: 40,000 DST: 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 13" FF: BOB in 2.75"; FSI: BOB in 11.75 Rec: 1,480' GIP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4° API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 30#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130'
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		4050 4100 4150	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxln, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-bik sptd-patchy stn (5 pcs tota), NSFO, no odor Sh: Bit Carb LS: brn, fxln, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: since they-vry chky, pr por, tr brn-bik sptd-patchy stn (1 pc ool-cavings?), NSFO, no odor LS: wh-tan, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr w/ tr fr fossmall vug por, 1 pc w/ sptd brn stn, NSFO, no odor Sh: gry, some drk gry LS: brn, fxln, fos (fusl, crs), prtly dns, pr por, NS Sh: lt gry-grn-tan (soft & gummy), red-brn (some soft & gummy) Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn Cs: crm-lt gry, fxln, fos-ool in prt, sub chky-prtly dns w/ some chky, pr-fr intrprtical por, fr annt It-med brn patchy-sub sat stn, S-FSFO, fnt odor Sh: It-med gry (some soft & gummy) Sh: crd-brn (some soft & gummy), gry, tr grn Sh: crd-brn, some grn & tan Sh: red-brn (some soft & gummy), gry, tr grn Sh: red-brn, gry, grn Sh: red-brn, gry, grn Sh: red-brn (some soft & gummy), some brick red & maroon LS: crm-It gry, fxln, sli fos, sub chky-prtly dns, pr w/ some fr fos-pin point por, fr annt It-med brn patchy-sub sat stn, S-FSFO, no odor Sh: red-brn, gry, grn Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-It gry, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon Calc Sd: It gry-red-brn, fn-vry fn grain, mstly shly, semi fri-brittle, pr vis por, NS Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: It gry LS: crm-It gry, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: It gry LS: crm-I	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8°, Chl ppm: 40,000 DST: 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 13" FF: BOB in 2.75"; FSI: BOB in 11.75 Rec: 1,480' GIP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4° API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 30#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130'
		4050 4100 4150	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxln, fos in prt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-bik sptd-patchy stn (5 pcs tota), NSFO, no odor Sh: Bit Carb LS: brn, fxln, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: six gry (soft & gummy), some red-brn & grn LS: wh-tan, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, tr brn-bik sptd-patchy stn (1 pc ool-cavings?), NSFO, no odor LS: wh-tan, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr w/ tr fr fossmall vug por, 1 pc w/ sptd brn stn, NSFO, no odor Sh: gry, some drk gry LS: brn, fxln, fos (fusl, crs), prtly dns, pr por, NS Sh: If gry-grn-tan (soft & gummy), some gry-grn Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (mstly soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry-grn LS: crm-lt gry, fxln, fos-ool in prt, sub chky-prtly dns w/ some chky, pr-fr intrprtical por, fr amnt It-med brn patchy-sub sat stn, S-FSFO, fnt odor Sh: It-med gry (some soft & gummy), gry, tr grn Sh: red-brn (some soft & gummy), gry, tr grn Sh: red-brn, gry, grn Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon Calc Sd: It gry-red-brn, fn-vry fn grain, mstly shy, semi fri-brittle, pr vis por, NS Sh: red-brn (some soft & gummy), some gry & grn Sh: red-brn (some soft & gummy), some gry & grn Sh: red-brn (some soft & gummy), some gry & grn Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon Calc Sd: It gry-red-brn, fn-vry fn grain, calc, some shly, semi fri-brittle, pr vis por, NS Sh: red-brn (some soft & gummy), some gry & grn Sh: red-brn (some soft & gummy), some gry & grn	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65%, 31%M) below circ sub. Oil Gravity 32.8", Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 11.75 Rec: 1,480' GTP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4" API IFP: 68-284#/30" ISIP: 1350#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 30#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)
		4050 4100 4150	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxIn, fs0 nprt, chty (crm-org), vry chky-prtly dns, pr por, tr brn-blk sptd-patchy stn (5 pes total), NSFO, no odor Sh: Bit Carb LS: brn, fxIn, sli fos, prtly dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn Sh: gry-grn (some soft & gummy), red-brn LS: wh-tan, fxIn, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, tr brn-blk sptd-patchy stn (1 pc ool-cavings?), NSFO, no odor LS: A. w/ incrs chky-vry chky, pr w/ tr f fossmall vug por 1 pc w/ sptd brn stn, NSFO, no odor Sh: gry, some drk gry LS: brn, fxIn, fos (fusl, crs), prtly dns, pr por, NS Sh: It gry-grn-tan (soft & gummy), red-brn (some soft & gummy) Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn LS: crm-It gry, fxIn, fos-col in prt, sub chky-prtly dns w/ some chky, pr-fr intrprtical por, fr amnt It-med brn patchy-sub sat stn, S-FSFO, fnt odor Sh: It-med gry (some soft & gummy), gry, tr grn Sh: crd-brn (some soft & gummy), gry, tr grn Sh: crd-brn, some grn & tan Sh: red-brn, gry, grn Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-It gry, fxIn, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-It gry, fxIn, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon Calc Sd: It gry-red-brn, fn-vry fn grain, calc, some shly, semi fri-brittle, pr vis por, NS Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: It gry LS: crm-lt gry, fxIn, sli fos, sub chky-prtly dns, pr por, rNS Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: It gry<td>SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8°, Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 11.75 Rec: 1,480' GTP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4° API IFP: 68-284#/30" ISIP: 1350#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 30#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)</td>	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8°, Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 11.75 Rec: 1,480' GTP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4° API IFP: 68-284#/30" ISIP: 1350#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 30#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)
		4050 4100 4150	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-rm, fxhn, fsi nprt, chty (crm-org), vry chky-prity dns, pr por, tr brn-blk sptd-patchy stn (5 pcs total), NSFO, no odor Sh: gry (soft & gummy), some red-brn & grn Sh: gry (soft & gummy), some red-brn & grn LS: brn, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, tr brn-blk sptd-patchy stn (1 pc ool-cavings?), NSFO, no odor LS: A. W / incrs chky-vry chky, pr w/ tr fr fos-small vug por, 1 pc w/ sptd brn stn, NSFO, no odor Sh: gry, some drk gry LS: brn, fxln, fos (fusl, crs), prtly dns, pr por, NS Sh: It gry-grn-tan (soft & gummy), some gry-grn Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy) Sh: red-brn (some soft & gummy) Sh: red-brn (some soft & gummy) Sh: gry & red-brn, some grn & tan Sh: red-brn, some grn & tan Sh: red-brn, gry, grn Sh: crm, fxln, sli fos, sub chky-prtly dns, pr w/ some fr fos-pin point por, fr amnt It-med brn patchy-sub sat stn, S-FSFO, no odor Sh: red-brn, gry, grn Sh: red-brn, gry, grn w/ some brick red & maroon Calc Sd: It gry-red-brn, fn-vry fn grain, calc, some shly, semi fri-brittle, pr vis por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon Calc Sd: It gry-red-brn, fn-vry fn grain, calc, some shly, semi fri-brittle, pr vis por, NS Sh: red-brn (some soft & gummy), some gry & grn sh: red-brn (some soft & gummy), some gry & grn sh: red-brn (some soft & gummy), some gry & grn sh: red-brn (some soft & gummy), some gry & grn sh: red-brn (some soft & gummy), some gry & grn sh: red-brn (some soft & gummy), some gry & grn sh: red-	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8°, Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 11.75 Rec: 1,480' GTP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4° API IFP: 68-284#/30" ISIP: 1350#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 30#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)
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		4050 4100 4150	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-cmm, skn, fos in prt, chty, crm-org), vry chky-prtly dns, pr por, tr brn-bik sptd-patchy stn (5 pes total), NSFO, no odor Sh: gry (soft & gummy), some red-brn & grn Sh: gry (soft & gummy), some red-brn & grn LS: wh-tan, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, tr brn-bik sptd-patchy stn (1p col-cawings?), NSFO, no odor LS: A. w/ incrs chky-vry chky, pr w/ tr fr fossmall vug por, 1p ew/ sptd brn stn, NSFO, no odor Sh: gry, some drk gry LS: brn, fxln, fos (fusl, crs), prtly dns, pr por, NS Sh: tr gry-grn-tan (soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: gry & red-brn, some grn & tan Sh: red-brn (some soft & gummy), gry, tr grn Sh: red-brn (some soft & gummy), gry, tr grn Sh: red-brn (some soft & gummy), gry, tr grn Sh: red-brn, gry, grn Sh: red-brn, gry, grn Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some soft & gummy), some gry & grn sh' rcalc Sh: red-brn, fn-vry fn grain, calc, some shly, semi fri-brittle, p	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65%, 31%M) below circ sub. Oil Gravity 32.8", Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 11.75 Rec: 1,480' GTP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4" API IFP: 68-284#/30" ISIP: 1350#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 30#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)
		4050 4100 4150	 Sh: red-brn, grv, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxh, fos in prt, chty (crm-org), vy chky-prtty dns, pr por, tr brn-blk sptd-patchy stn (5) pes total), NSFO, no adar Sh: grv (soft & gummy), some red-brn & grn Sh: grv (soft & gummy), some red-brn & grn LS: wh-tan, fxln, sli fos, sub chky-prtty dns w/ some chky-vry chky, pr por, trbr-blk sptd- patchy stn (1p c ool-caubicy), NSFO, no adar LS: A. w wi ners chky-vry chky, pr w/ tr fr fos- small vug por, 1p c w/ sptd brn stn, NSFO, no adar LS: cm-tan (soft & gummy), red-brn (some soft & gummy) Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (mstly soft & vry gumy), gry-grn Sh: red-brn (some soft & gummy) some gry-grn LS: cm-tl grv, fxln, fos-aol in prt, sub chky-prtly dns w/ some chky, pr-fr intrprtical por, fr annt 1t-med brn patchy-sub sat stn, S-FSFO, fnt adar Sh: red-brn (some soft & gummy) Sh: red-brn (some soft & gummy) Sh: red-brn, some grn & tan Sh: red-brn, gry, gsm Sh: red-brn, gry, gsme grn Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon Calc Sd: It gry-red-brn, fn-vry fn grain, calc, some - shly, semi fri-brittle, pr vis por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon Calc Sd: It gry-red-brn, fn-vry fn grain, calc, some - shly, semi fri-brittle, pr vis por, NS Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: lt gry LS: crm-tar, fxln, sli fos, sub chky-prtly dns, pr por, ns Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: lt gry LS: trn-tar, fxln, sli fos, some sli shly, sub chky-prtly dns & some sli gry tus Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: lt gry LS: crm-tar, fxln,	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65%, 31%M) below circ sub. Oil Gravity 32.8", Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 11.75 Rec: 1,480' GTP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4" API IFP: 68-284#/30" ISIP: 1350#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 30#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)
		4050 4100 4150	 Sh: red-brn, grv, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxIn, fos in pri, chty (crm-org), vy chky-prtly dns, pp por, th prn-blk sptd-patchy stn (5 pcs total), NSFO, no ador Sh: grv, Goft & gummy), some red-brn & grn Sh: grv, Goft & gummy), some red-brn & grn Sh: grv, some (some soft & gummy), red-brn LS: wh-tan, fxIn, sli fos, sub chky-prtly dns, pr por, NS Sh: grv, some drk grv LS: A.A. w/ incrs chky-vry chky, pr w/ tr fr fos-small vag por, 1 p cw 'sptd brn stn, NSFO, no ador Sh: red-brn (mstly soft & gummy), red-brn (some soft & gummy), red-brn (some soft & gummy), some grv-grn LS: crm, fxIn, fos (full, crs), prtly dns, pr por, NS Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn LS: crm-lt grv, fxIn, fos-cool in prt, sub chky-prtly dns, w/ some chky, p-r' frirtprtical por, fr annt It-med brn patchy-sub sat stn, S-FSFO, fnt ador Sh: red-brn (some soft & gummy), gry, tr grn Sh: crd-brn, some grn & tan Sh: red-brn, some grn at tan Sh: red-brn, gry, same grn LS: crm-lt grv, fxIn, sli fos, sub chky-prtly dns, pr w/ some fr fos-pin point por, fr annt It-med brn patchy-sub sat w/ some sat stn, S-FSFO, no ador Sh: red-brn, gry, grn grn w/ some brick red & maroon LS: crm-lt grv, fxIn, sli fos, sub chky-prtly dns, pr w/ some fr fos-pin point por, fr annt It-med brn patchy-gry, grn, grn, grn, grn, grn, grn, grn, grn	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M). Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8°, Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 FFP: 396-585#/30" FSIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 11.75 Rec: 1,480' GTP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4° API IFP: 68-284#/30" ISIP: 1350#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 30#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)
		4050 4100 4150	 Sh: red-brn, grv, grn (75-85% to Circ 35" smpl) LS: wh-crm, fxh, fxs in pri, c.hty (crm-org), vy chky-prtly dns, pr por, thr brn-blk sptd-patchy stn (5 pcs total), NSFO, no adar Sh: grv, Goft & gunmy), some red-brn & grn Sh: grv, Goft & gunmy), some red-brn & grn LS: wh-tan, fxln, sli fos, sub chky-prtly dns, w/ some chdy-wy chky, pro, thr brn-blk sptd-patchy stn (1 pc ol-cavings2), NSFO, no adar LS: A. w/ incrs chky-wy chky, pr w/ tr fr fos-small wag por, Jp cw' sptd brn stn, NSFO, no adar LS: A. w/ incrs chky-wy chky, pr w/ tr fr fos-small wag por, Jp cw' sptd brn stn, NSFO, no adar LS: mort, fxln, fos (fusl, crs), prtly dns, pr por, NS Sh: It gry-grn-tan (soft & gunmy), ced-brn (some soft & gunmy). Sh: red-brn (mstly soft & wry gumy), gry-grn Sh: red-brn (some soft & gunmy), ced-brn (some soft & gunmy) Sh: red-brn (some soft & gunmy), ced-brn (some soft & gunmy) Sh: red-brn (some soft & gunmy), gry, fr grn Sh: red-brn (some soft & gunmy), gry, tr grn Sh: red-brn, some grn & tan Sh: red-brn, gry, some grn Sh: red-brn, gry, some grn Sh: red-brn (some soft & gunmy), gry, tr grn Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some soft & gunmy), some gry & grn w/ tr Calc Sh: tr gry LS: th gry-rth brn, fxln, sli fos, some sli shly, sub chky-prtly dns, pr por, NS Sh: red-brn (some soft & gunmy), tan (some soft & g	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M) Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8", Chi ppm: 40,000 DST: 1,100 Mud IFP: 101-379#/30" ISIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.75"; FSI: BOB in 11.75 Rec: 1,480' GIP 4 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4" API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 32#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)
		4050 4100 4150	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) Sh: wh-Cm, Kin, fisi, npr, chr (cri-35", smpl, spr, chy cm-op), nyr chiky-prtly dns, pr por, tr brn-bik sprd-patchy stn (5 pcs trad), NSFO, no odor Sh: Bit Carb LS: brn, fixin, sli fos, sub chiky-prtly dns w/ some chiky-vry chiky, pr por, tr brn-bik sprd-patchy stn (1 pc ol-cavings2), NSFO, no odor LS: A.A. with circs chiky-vry chiky, pr por, th for fos-small vug por, 1 pc w/ sprd brn stn, NSFO, no odor Sh: gry, some drk gry LS: h.A. with circs chiky-vry, chiky, pr w/ rth fos-small vug por, 1 pc w/ sprd brn stn, NSFO, no odor Sh: gry, some drk gry LS: h.A. with circs chiky-vry, chiky, pr w/ rth fos-small vug por, 1 pc w/ sprd brn stn, NSFO, no odor Sh: gry, some drk gry LS: then, fixin, foi (fusi, crs), prtly dns, pr por, NS Sh: red-brn (mstly soft & wry gummy), gry-grn Sh: red-brn (some soft & gummy), ned-brn (some soft & gummy) Sh: red-brn (some soft & gummy), sme gry grn Sh: red-brn, some grn & tan Sh: red-brn (some soft & gummy), gry, tr grn Sh: red-brn (some soft & gummy), gry, tr grn Sh: red-brn (some soft & gummy), gry, tr grn Sh: red-brn (some soft x gummy), sme gry, grn Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon Calc Sd: It gry-red-brn, fn-wry fn grain, satly shy, semi fri-brittle, pr vis por, NS Sh: red-brn (some soft & gummy), some gry & grn w' tr Calc Sh: It gry LS: crm-tan, fxln, sli fos, sub chky-prtly dns, pr por, NS<	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M) Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8", Chi ppm: 40,000 DST: 1,100 Mud IFP: 101-379#/30" ISIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.75"; FSI: BOB in 11.75 Rec: 1,480' GIP 4 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4" API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 32#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)
		4050 4100 4150 42200	 Sh: red-brn, grv, grn (75-85% to Circ. 35" smpl) LS: wh-crm, fxin, fos in prt, chty (crm-ong), vry chky-prtly dns, pr por, the prn-bilk sptd-patchy stn (5 pcs total), NSFO, no odor Sh: gry (soft & gummy), some red-brn & grn LS: wh-tan, fxin, sli fos, publy dns, pr por, NS Sh: gry (soft & gummy), some red-brn & grn LS: wh-tan, fxin, sli fos, sub chky-prtly dns w/ some chky-vry chky, pro yr, thr, pr-bilk sptd-patchy stn (1 pc ool-cavings2), NSFO, no odor Sh: gry, some drk gry LS: A.A. wincrs chky-vry chky, pr w/ the fr fossmall vug por, 1 pc w/ sptd brn stn, NSFO, no odor Sh: gry, some drk gry LS: hrn, fxin, fos (fusl, crs), prtly dns, pr por, NS Sh: It gry-grn-tan (soft & gummy), red-brn (some soft & gummy) Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), gry-grn Sh: red-brn (some soft & gummy), gry, tr grn Sh: red-brn (some soft & gummy), gry, tr grn Sh: red-brn (some soft & gummy), gry, tr grn Sh: red-brn (some soft & gummy), gry, tr grn Sh: red-brn (some soft & gummy), gry, tr grn Sh: red-brn (some soft & gummy), gry, tr grn Sh: red-brn (some sdy), gry, grn Sh: red-brn (some sdy), gry, grn Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon LS: crm-lt gry, fxin, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon Calc Sd: It gry-red-brn, fn-vry fn grain, mstly shy, semi fri-brittle, pr vis por, NS Sh: red-brn (some soft & gummy), some gry & grn Sh: red-brn (some soft & gummy), some gry & grn Sh: red-brn (some soft & gummy), some gry & grn Sh: red-brn (some soft & gummy), some gry & grn Sh: red-brn (some soft & gummy), some gry & grn Sh: red-brn (some soft & gummy), some gry & grn Sh: red-brn (some soft & gummy), some gry & grn <	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M) Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8", Chi ppm: 40,000 DST: 1,100 Mud IFP: 101-379#/30" ISIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.75"; FSI: BOB in 11.75 Rec: 1,480' GIP 4 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4" API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 32#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)
		4050 4100 4150	 Shi red-brn, gry, gm (75-85% to Circ 35" smpl) Shi wherm, fxin, fasin, prir, chty (cm-op), vry chky-prtly dns, pr por, th brn-blk sptd-patchy stn (5 pcs traid), SFO, no odor Shi Bik Carb. Shi gry (soft 4 gummy), some red-brn 4 grn Shi gry, gm (some soft 4 gummy), red-brn Shi gry, gm (some soft 4 gummy), red-brn Shi gry, gm (some soft 4 gummy), red-brn Shi gry, gm (soft 4 gummy), some red-brn 4 grn Shi gry, gm (soft 4 gummy), some red-brn 4 grn Shi gry, gm (soft 4 gummy), red-brn 5his gry, some risk gry, gm or, the brn-blk sptd-patchy stn (1 pc ool-covings?), NSFO, no odor Shi gry, gm-rata (soft 4 gummy), gm (gm spt), some gm (gm gm spt), red-brn (some soft 4 gummy), gm (gm spt), red-brn (some soft 4 gummy), gm (gm spt), red-brn (some soft 4 gummy), gm (gm spt), red-brn (some soft 4 gummy), gm, gm spt), red-brn (some soft 4 gummy), gm, tr gm Shi red-brn (some soft 4 gummy), gm, tr gm Shi red-brn (some soft 4 gummy), gm, tr gm Shi red-brn, gm, gm a stn, S-FSFO, no odor Shi 11-med gry (some soft 4 gummy), gm, tr gm Shi red-brn, gm, gm a stn, S-FSFO, no odor Shi red-brn (some soft 4 gummy), gm, tr gm Shi red-brn, gm, gm a stn, S-FSFO, no odor Shi red-brn, gm, gm Shi red-brn (some soft), gm, gm w/ some brick red 4 maroon Calc Sdi It gry-red-brn, fn-wry fn grain, mstly shi, semi fri-brittle, pr vis por, NS Shi red-brn (some soft 4 gummy), some gm 4 gm Shi red-brn (some soft 4 gummy), some gm 4 gm Shi red-brn (some soft 4 gummy), some gm 4 gm Shi red-brn (some soft 4 gummy), some gm 4 gm Shi red-brn (some soft 4 gummy), some gm 4 gm Shi red-brn (some soft 4 gummy), some gm 4 gm Shi red-brn 4 fi-med gry, w/ Some Shi red-brn (some soft 4 gummy), some gm 4 gm Shi red-brn 4 gm, w/	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M) Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8", Chi ppm: 40,000 DST: 1,100 Mud IFP: 101-379#/30" ISIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.75"; FSI: BOB in 11.75 Rec: 1,480' GIP 4 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4" API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 32#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)
		4050 4100 4150 42200	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) LS: wh-cm, Kin, fosi pnr, th' brn-bik sptd-patchy stn (5 pcs total), NSFO, no odor Sh: Bik Carb LS: brn, fixh, sli fos, prhy dns, pr por, NS Sh: gry (soft 4 gummy), some red-brn 4 grn Sh: gry, grn (some soft 4 gummy), red-brn LS: ht, fixh, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, the brn-bik sptd-patchy stn (Je col-cavings), NSFO, no odor LS: A.A. w/ incrs chky-vry chky, pr w/ th f fos-small vug por, 1 pc w' sptd brn stn, NSFO, no odor LS: mn-f.kn, fos (full, crs), prtly dns, pr por, NS Sh: red-brn (mstly soft 4 wry gummy), gry-grn Sh: red-brn (mstly soft 4 wry gummy), gry-grn Sh: red-brn (mstly soft 4 gummy), some gry-gm LS: crm-lt gry, fxh, fos-col in prt, sub chky-prtly dns w/ some chky, pr-f intripricial por, f annt It-med brn patchy-sub sat stn, S-FSFO, fnt dor Sh: red-brn, gry, grn Sh: red-brn, gry, grn Sh: red-brn, gry, grn Sh: red-brn (some soft 4 gummy), some gry-gm Sh: red-brn, gry, grn Sh: red-brn, gry, grn Sh: red-brn (some soft 4 gummy), some brick red 4 maroon LS: crm-lt gry, fxh, sli fos, sub chky-prtly dns, pr w/ some brick red 4 maroon Sh: red-brn (some sdy), gry, grn w/ some brick red 4 maroon Calc Sd: It gry-red-brn, fn-wry fn grain, mstly shly, semi fri-brittle, pr vis por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red 4 maroon Calc Sh: It gry-field 4 wry gummy), some gry 4 grn w/ tr Calc Sh: It gry LS: crm-in, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some sdy), gry, grn w/ some brick red 4 maroon Calc Sd: It gry-red-brn, fn-wry fn grain, mstly shly, semi fri-brittle, pr vis por, NS Sh: red-brn (some soft 4 gummy), some gry 4 grn w/ tr Calc Sh: It gry LS: crm-tan, fxln, sli fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M) Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8", Chi ppm: 40,000 DST: 1,100 Mud IFP: 101-379#/30" ISIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.75"; FSI: BOB in 11.75 Rec: 1,480' GIP 4 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4" API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 32#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)
		4050 4100 4150 42200	 Shi red-brn, gry, grn (75-85% to Circ 35" smpl) Shi whet, Kin, fosi, nort, chty (cm-op), wy chiky-prthy dns, pr por, th brn-blk sptd-patchy stn (5 pes traid), NSFO, no ader Shi gity, Shi fa, shi fas, puthy dns, pr por, NS Shi gry (soft & gummy), some red-brn & grn Shi gry, grn (some soft & gummy), red-brn Shi dt a gum gry, pr pr, the brn-blk sptd-patchy stn (for geo calcular), NSFO, no ader Shi A. w/ iners chky-vry chky, pr w/ th fr fas-small wig por, the w/ sptd brn stn, NSFO, no ader Shi red-brn (mstly soft & grummy), red-brn (some soft & gummy). LS: brn, f.kin, fos (fais), crs), prtly dns, pr por, NS Shi red-brn (some soft & gummy), red-brn (some soft & gummy). Shi red-brn (some soft & gummy), some gry-grn Shi red-brn (some soft & gummy). Shi red-brn (some soft), gry, grn Shi red-brn (some soft), gry, grn Shi red-brn (some soft), gry, grn w/ some brick red & maroon LS: crm-lt gry, fxln, sli fas, sub chky-prtly dns, pr por, NS Shi red-brn (some soft), gry, grn w/ some brick red & maroon Calc Sd: It gry-red-brn, fn-wry fn grain, calc, some shy, semi fri-brittle, pr vis por, NS Shi red-brn (some soft), gry, grn w/ some brick red & maroon LS: crm-tan, fxln, sli fas, sub chky-prtly dns, pr por, NS Shi red-brn (some soft & gummy), some gry & grn Shi red-brn (some soft & gummy), some gry & grn Shi red-brn (some soft & gummy), some gry & grn Shi red-b	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M) Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8", Chi ppm: 40,000 DST: 1,100 Mud IFP: 101-379#/30" ISIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.75"; FSI: BOB in 11.75 Rec: 1,480' GIP 4 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4" API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 32#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)
		4050 4100 4150 42200	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) Si: wh-cm, Knl, fos in pr. thr while sptd-patchy stn (5 pest total), SFO, no odor Sh: Bik Carb. Sh: gry (soft & gummy), some red-brn & grn Sh: gry (soft & gummy), some red-brn & grn LS: wh-ran, fxin, sil fos, sub chky-prtly dns w/ some chky-vry chky, pr por, the brn-bik sptd-patchy stn (1 pe col-carby), SFO, no odor Sh: A. w/ iners chky-vry chky, pr w/ tr fr fosmall vug gor, the w/std for stn, NSFO, no odor Sh: gry, some drk gry Sh: red-brn (fost (sig. (rs), prtly dns, pr por, NS Sh: red-brn (mstly soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn, some grn & tan Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some grn 2. Sh: red-brn (some soft & gummy), some grn 2. Sh: red-brn (some soft & gummy), some grn 2. Sh: red-brn (some soft & gummy), some grn 2. Sh: red-brn (some soft & gummy), some grn 2. Sh: red-brn (some soft & gummy), some grn 2. Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon Sh: red-brn (some sdy), gry, grn w/ some brick red & maroon Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: It gry-red-brn, fn-vry fn grain, calc, some shy, semi fri-brittle, pr vis por, NS Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: It gry find, sil fos, sub chky-prtly dns, pr por, NS Sh: red-brn (some soft & gummy), tan (some soft & gummy), some gry & g	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M) Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8", Chi ppm: 40,000 DST: 1,100 Mud IFP: 101-379#/30" ISIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.75"; FSI: BOB in 11.75 Rec: 1,480' GIP 4 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4" API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 32#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)
		4050 4100 4150 42200	 Shi red-brn, gry, grn (75-85% to Gro 35" smpl) Si wh-crm, Kni, fosi npri, chr (crn-03), vry chky-prtly dns, pr por, tr brn-blk sptd-patchy stn (5 pes total), NSFO, no odor Shi Bik Carb Shi Bik Carb, Shi fos, putly dns, pr por, NS Shi gry (soft 4 gummy), some red-brn 4 grn Shi gry, gont 6 dns, yry por, tr brn-blk sptd-patchy stn (be col-cavings), NSFO, no odor Shi A. W, lners chky-vry chky, pr w/ tr f fosmall vug por, 1 pc w', sptd fmr stn, NSFO, no odor Shi red-brn (soft), crs), prtly dns, pr por, NS Shi red-brn (mstly soft 4 gummy), some gry-grn Shi red-brn (some soft 4 gummy), some gry-grn Shi red-brn, some grn 4 tan Shi red-brn, some grn 4 tan Shi red-brn, gry, grn Shi red-brn (some soft 4 gummy), some dry gry, fr grn Shi red-brn (some soft 4 gummy), some brick red 4 maroon Shi red-brn (some sdy), gry, grn w/ some brick red 4 maroon Shi red-brn (some sdy), gry, grn w/ some brick red 4 maroon Calc Sd: It gry-red-brn, fn-wry fn groin, nstly shi, seni fn-brittle, pr vis por, NS Shi red-brn (some sdy), gry, grn w/ some brick red 4 maroon Calc Shi: It-med gry, fxln, sli fos, sub chky-prtly dns, pr por, NS Shi: red-brn (some soft 4 gummy), some gry 4 grn w/ tr Calc Sh: It gry LS: crm-tan, fxln, sli fos, sub chky-prtly dns, pr por, NS Shi: red-brn (some soft 4 gummy), some gry 4 grn w/ tr Calc Sh: It gry LS: crm-tan, fxln, sli fos, sub chky-prtly dns, pr por, NS Shi: red-brn (some soft 4 gummy), some gry 4 grn w/ tr Calc Sh: It gry, fxln, sli fos, sub chky-prtly dns, pr	SO/MW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M) Dumped 124' SO/MCW (2%G, 2%O, 65% 31%M) below circ sub. Oil Gravity 32.8", Chi ppm: 40,000 DST: 1,100 Mud IFP: 101-379#/30" ISIP: 1135#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.75"; FSI: BOB in 11.75 Rec: 1,480' GIP 4 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M Dumped 124' GOCM (9%G, 22%O, 69%/ below circ sub. Oil Gravity 40.4" API IFP: 68-284#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% O, 99% M) IFP: 22-23#/45" ISIP: 32#/60" FFP: 22-23#/45" ISIP: 32#/60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)
		4050 4100 4150 42200 42300	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) Si: wh-Cm, Yah, fas in pr., chty (Cm-Op), wy chky prth, dns, pr por, th Drn-blk sptd-patchy stn (5 pcs trad), NSFO, no odor Sh: BK Carb. Sh: gry (soft & gummy), some red-brn & grn Sh: gry (soft & gummy), some red-brn & grn LS: wh-tan, f.xln, sli fos, sub chky-prthy dns w/ some chky-wry chky, pr por, the brn-blk sptd-patchy stn (fos color disp), NSFO, no odor Sh: A.A. w/ incrs chky-vry chky, pr w/ tr fr fos-small vug gor, fos (fus, crs), prthy dns, pr por, NS Sh: red-brn (fos (fusi, crs), prthy dns, pr por, NS Sh: red-brn (msthy soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn, some grn & tan Sh: red-brn, some grn & tan Sh: red-brn, some grn & tan Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry and Sh: red-brn (some soft & gummy), some gry and Sh: red-brn (some soft & gummy), some gry and Sh: red-brn (some soft & gummy), some gry and Sh: red-brn (some soft), gry, grn w/ some brick reed & maroon Sh: red-brn (some sdy), gry, grn w/ some brick reed & maroon Calc Sd: If gry-red-brn, fn-vry fn grain, calc, some shly, semi fri-brittle, pr vis por, NS Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: If gry. Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry. Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry Sh: red-brn (some soft	SO/WW (3%6, 4%0, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%0, 73%W, 26%M), Dumped 124' SO/MCW (2%6, 2%0, 65% 31%M) below circ sub. Oil Gravity 32.8" Chi ppm: 40,000 DST: 1,100 Mud IFP: 101-379#/30" ISIP: 1152#/60 FFP: 396-85#/30" FSIP: 1155#/60 EFP: 306-85#/30" FSIP: 1157 Rec: 1,480' GLP 4,123' TOTAL FLUID: Rev. out 1,108' CGO (7%6, 92%0, 1%M Dumped 124' GOCM (9%6, 22%0, 69%A) below circ sub. Oil Gravity 40,4* API IFP: 66-24#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1% 0, 99% M) IFP: 22-23#/45" ISIP: 32#/60" Morgan Mud check @ 4125' S3 Vis, 9.2 Wt, 6.0 WL, 1800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 41142' (-1385)
		4050 4100 4150 42200 42300	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) Si: wh-Cm, Yah, fas in pr., chty (Cm-Op), wy chky prth, dns, pr por, th Drn-blk sptd-patchy stn (5 pcs trad), NSFO, no odor Sh: BK Carb. Sh: gry (soft & gummy), some red-brn & grn Sh: gry (soft & gummy), some red-brn & grn LS: wh-tan, f.xln, sli fos, sub chky-prthy dns w/ some chky-wry chky, pr por, the brn-blk sptd-patchy stn (fos color disp), NSFO, no odor Sh: A.A. w/ incrs chky-vry chky, pr w/ tr fr fos-small vug gor, fos (fus, crs), prthy dns, pr por, NS Sh: red-brn (fos (fusi, crs), prthy dns, pr por, NS Sh: red-brn (msthy soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn, some grn & tan Sh: red-brn, some grn & tan Sh: red-brn, some grn & tan Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry and Sh: red-brn (some soft & gummy), some gry and Sh: red-brn (some soft & gummy), some gry and Sh: red-brn (some soft & gummy), some gry and Sh: red-brn (some soft), gry, grn w/ some brick reed & maroon Sh: red-brn (some sdy), gry, grn w/ some brick reed & maroon Calc Sd: If gry-red-brn, fn-vry fn grain, calc, some shly, semi fri-brittle, pr vis por, NS Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: If gry. Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry. Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry Sh: red-brn (some soft	SO/WW (3%6, 4%0, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%0, 73%W, 26%M), Dumped 124' SO/MCW (2%6, 2%0, 6%M) difference and old Gravity 32.8", 31%M) below circ sub. Oil Gravity 32.8", 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 11.75 Rec: 1,480' GIP 41,23' TOTAL FLUID: Rev. out 1,108' CGO (7%6, 92%0, 1%M) Dumped 124' GOCM (9%6, 22%0, 69%A) below circ sub. Oil Gravity 40,4* API IFP: 66-24#/30" ISIP: 1350#/60 FFP: 305-459#/30" ISIP: 1350#/60 FFP: 305-459#/30" ISIP: 1350#/60 FFP: 305-459#/30" ISIP: 32#/60" Morgan Mud check @ 4125' LKC 'K 'zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1%0, 99%A) IFP: 22-23#/45" ISIP: 32#/60" Morgan Mud check @ 4125' SJ Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)
		4050 4100 4150 42200 42300	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) Si: wh-Cm, Yah, fas in pr., chty (Cm-Op), wy chky prth, dns, pr por, th Drn-blk sptd-patchy stn (5 pcs trad), NSFO, no odor Sh: BK Carb. Sh: gry (soft & gummy), some red-brn & grn Sh: gry (soft & gummy), some red-brn & grn LS: wh-tan, f.xln, sli fos, sub chky-prthy dns w/ some chky-wry chky, pr por, the brn-blk sptd-patchy stn (fos color disp), NSFO, no odor Sh: A.A. w/ incrs chky-vry chky, pr w/ tr fr fos-small vug gor, fos (fus, crs), prthy dns, pr por, NS Sh: red-brn (fos (fusi, crs), prthy dns, pr por, NS Sh: red-brn (msthy soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn, some grn & tan Sh: red-brn, some grn & tan Sh: red-brn, some grn & tan Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry and Sh: red-brn (some soft & gummy), some gry and Sh: red-brn (some soft & gummy), some gry and Sh: red-brn (some soft & gummy), some gry and Sh: red-brn (some soft), gry, grn w/ some brick reed & maroon Sh: red-brn (some sdy), gry, grn w/ some brick reed & maroon Calc Sd: If gry-red-brn, fn-vry fn grain, calc, some shly, semi fri-brittle, pr vis por, NS Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: If gry. Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry. Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry Sh: red-brn (some soft	SO/WW (3%6, 4%0, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%0, 73%W, 26%M), Dumped 124' SO/MCW (2%6, 2%0, 6%M) difference and old Gravity 32.8", 31%M) below circ sub. Oil Gravity 32.8", 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" ISI: BOB in 11.75 Rec: 1,480' GIP 41,23' TOTAL FLUID: Rev. out 1,108' CGO (7%6, 92%0, 1%M) Dumped 124' GOCM (9%6, 22%0, 69%A) below circ sub. Oil Gravity 40,4* API IFP: 66-24#/30" ISIP: 1350#/60 FFP: 305-459#/30" ISIP: 1350#/60 FFP: 305-459#/30" ISIP: 1350#/60 FFP: 305-459#/30" ISIP: 32#/60" Morgan Mud check @ 4125' LKC 'K 'zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1%0, 99%A) IFP: 22-23#/45" ISIP: 32#/60" Morgan Mud check @ 4125' SJ Vis, 9.2 Wt, 6.0 WL, 1,800 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385)
		4050 4100 4150 42200 42300	 Sh: red-brn, gry, grn (75-85% to Circ 35" smpl) Si: wh-Cm, Yah, fas in pr., chty (Cm-Op), wy chky prth, dns, pr por, th Drn-blk sptd-patchy stn (5 pcs trad), NSFO, no odor Sh: BK Carb. Sh: gry (soft & gummy), some red-brn & grn Sh: gry (soft & gummy), some red-brn & grn LS: wh-tan, f.xln, sli fos, sub chky-prthy dns w/ some chky-wry chky, pr por, the brn-blk sptd-patchy stn (fos color disp), NSFO, no odor Sh: A.A. w/ incrs chky-vry chky, pr w/ tr fr fos-small vug gor, fos (fus, crs), prthy dns, pr por, NS Sh: red-brn (fos (fusi, crs), prthy dns, pr por, NS Sh: red-brn (msthy soft & vry gummy), gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn, some grn & tan Sh: red-brn, some grn & tan Sh: red-brn, some grn & tan Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry-grn Sh: red-brn (some soft & gummy), some gry and Sh: red-brn (some soft & gummy), some gry and Sh: red-brn (some soft & gummy), some gry and Sh: red-brn (some soft & gummy), some gry and Sh: red-brn (some soft), gry, grn w/ some brick reed & maroon Sh: red-brn (some sdy), gry, grn w/ some brick reed & maroon Calc Sd: If gry-red-brn, fn-vry fn grain, calc, some shly, semi fri-brittle, pr vis por, NS Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: If gry. Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry. Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry Sh: red-brn (some soft & gummy), some gry & grn w/ tr Calc Sh: it gry Sh: red-brn (some soft	SO/WW (3%G, 4%O, 48%W, 45%M), 5"- 30" smpls: SO/MCW (1%O, 73%W, 26%M), Dumped 124' SO/MCW (2%G, 2%O, 6%M, 31%M) below cire sub. Oil Gravity 32.8° 4 Chl ppm: 40,000 DST; 1,100 Mud IFP: 101-379#/30" ISIP: 1162#/60 Morgan Mud check @ 4058': 55 Vis, 9.0 Wt, 6.0 WL, 1,500 ppm Chl, 5# LCM DST #4 4067'-4102' LKC 'J' zn IF: BOB in 2.25" FSI: BOB in 11.75' Rec: 1,480' GIP & 1,232' TOTAL FLUID: Rev. out 1,108' CGO (7%G, 92%O, 1%M) Dumped 124' GOCM (9%G, 22%O, 69%A below circ sub. Oil Gravity 40.4° API IFP: 62.84#/30" ISIP: 1350#/60 FFP: 305-459#/30" FSIP: 1326#/60 Ran another bit (re-run) @ 4102' DST #5 4097'-4125' LKC 'K' zn IF: blow built to 1.25" FF: no blow Rec: 5' Mud w/ oil spots (1%O, 99% M) IFP: 22-23#/45" ISIP: 3374;60" FFP: 32-43#/45" ISIP: 3374;60" Morgan Mud check @ 4125': 53 Vis, 9.2 Wt, 6.0 WL, 1,300 ppm Chl, 6# LCM (6:40 am, during TIH with DST #5) Ran a PDC @ 4125' Started 10' wet & dry samples @ 4130' B/KC 4142' (-1385) Cherokee 4314' (-1385)