

DRILLING RATE IN MIN./ FT.				LITHOLOGY		OIL SHOW	DESCRIPTION:
				LITH	DEPTH	T F G	
	10	20	30		6410		SH blk,rthy,slty,carb incl,lam,frm-brit,calc,w/25% SS LAM lt gy wh,vfgr,sbrnd,w srt w cmt,tt,arg,calc,DULL ORNG FLOR,NO STN,V SL STRMG YEL CUT
							SH AA w/ 20% SS LAM AA DULL ORNG FLOR,NO STN,SL STRMG YEL CUT,mult horz & vert fracs
							SH AA w/ 15% SS LAM AA DULL ORNG FLOR,NO STN,SL STRMG YEL CUT,snl horz frac
							SH AA w/ 10% SS LAM AA FNT DULL ORNG FLOR,NSOC,2 vert fracs,snl horz frac
					6420		SH blk,rthy,slty,lam,frm-brit,calc,w/10% SS wh lt gy,vfgr,sbrnd,w srt,w cmt,frm, calc,tt,TR DULL ORNG FLOR,NO STN,TR V SL STRMG YEL CUT,2 vert & 1 horz frac
							SH AA w/25% SS LAM AA NSOF,SL-MOD STRMG YEL CUT,2 vert & 1 horz frac
							SH AA w/30% SS LAM AA,NSOF,MOD STRMG YEL CUT
							SH AA w 40% SS LAM AA,NSOF,SL STRMG YEL CUT,2 hairline fracs
					6430		SH AA w/ INOC 20 % SS AA DULL YELL FLOR,NO STN,IMMD STRMG YEL CUT,multi horz fracs snl vert frac
							SH AA w/ 25% SS AA,DULL YELL FLOR,NO STN,SL STRMG YEL CUT,snl horz,mult vert fracs
							SH AA w/40% SS AA,TR DULL YELL FLOR,NO STN,SL LT YEL CUT,mult horz & vert fracs
							SH AA w/50% SS LAM AA,BRT YEL FLOR,NO STN,MOD STRMG YEL CUT,mult horz & vert fracs
							SH AA w/40% SS LAM AA,DULL YELL FLOR,NO STN,SL MLKY YEL CUT,mult horz & vert fracs
					6440		SH blk,rthy,slty,lam,w/INOC 30% SS AA
							SH AA w/40% SS LAM DULL YELL FLOR,NO STN,MOD STRMG YEL CUT,mult horz & vert fracs
							SH AA w/50% SS LAM,wh lt gy,vfgr,sbrnd,w srt,w cmt,tt,arg,calc,DULL YELL FLOR,NOSTN SL STRMG YELL CUT,mult horz no vert fracs
							SH AA w/35% SS AA,DULL YELL FLOR,NO STN,SL MLKY YEL CUT,mult horz & vert fracs
					6450		

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OIL CON. DIV.
DIST. 3

DRILLING RATE IN MIN./ FT.				LITHOLOGY		OIL SHOW	DESCRIPTION:
				LITH	DEPTH	T F G	
	10	20	30		6450		SH blk,rthy,slty,carb,frm-brit,calc,w/25% SS lam,wh,lt gy,vfgr,sbrnd,w srt,w cmt, arg,tt,frm,NSFOC
							SH AA w/15-25% SS lam AA NSOF SL STRMG WH CUT,snl horz frac
							SH AA w/10-15% SS lam AA NSOF SL STRMG WH CUT,cont snl horz frac
							SH AA w/25% SS lam AA NSOF SL STRMG WH CUT,cont snl horz frac
					6460		SH AA w/30-35% SS lam wh gy,vfgr,sbrnd,w srt,w cmt,arg,tt,frm,calc,NSOF SL STRMG WH CUT,end of snl horz frac
							SH blk,rthy,slty,lam,frm,calc
							SH blk,rthy,slty,lam,frm,calc,w/INOC
							SH blk,rthy,slty,lam,frm,calc,w/INOC
					6470		SH blk,rthy,slty grdg to SLTST,frm-brit,w/INOC
							SH AA w/5-10% SS lam wh gy,vfgr,sbrnd,w srt,w cmt,arg,tt,frm,calc,NSOF,WH STRMG CUT
							SH AA w/20% SS lam AA NSOF,SL DUL YEL STRMG CUT
					6480		SH AA w/50% SS lam,NSOF,SL MLKY YEL CUT
							SH AA w/50-70% SS lam,FNT DUL YEL FLOR,NO STN,V SL STRMG YEL CUT,begin 2 horz fracs
							SH AA w/30% SS lam AA NSOF,SL STRMG YEL CUT,BENT strng,tan,chlky,sft
					6490		SH AA w/30-40% SS lam AA,DUL YEL FLOR,NO STN,SL STRMG YEL CUT
							SH AA w/20-30% SS lam AA,SCAT DUL YEL FLOR,NO STN,SL STRMG YEL CUT,w/INOC
							SH AA w/20-30% SS lam AA,SCAT DUL YEL FLOR,NO STN,MOD STRMG YEL CUT,begin snl horz frac
							SH AA w/30% SS lam AA,SCAT DULL YEL FLOR,NO STN,IMMD STRMG YEL CUT
					6500		SH AA w/70-80% SS wh gy,vfgr,sbrnd,w srt,w cmt,arg,frm-hd,calc,tt,BLDG GAS BUBBLES ON SURF,SCAT DUL YEL FLOR,NO STN,SL STRMG YEL CUT,snl horz frac
							SH AA w/90% SS AA BLDG GAS BUBBLES,DULL YEL FLOR,NO STN,IMMD STRMG YEL CUT,cont snl horz frac
							SH AA w/60-80% SS AA,BLDG GAS BUBBLES,SCAT DULL YEL FLOR,NO STN,V SL STRMG YEL CUT
					6510		SH AA w/60% SS AA,SCAT DULL YEL FLOR,NO STN,IMMD STRMG YEL CUT

DRILLING RATE IN MIN./ FT.				LITHOLOGY		OIL SHOW	DESCRIPTION:
				LITH	DEPTH	T F G	
10	20	30	40				
					6450		SH blk,rthy,slty,carb,frm-brit,calc,w/25% SS lam,wh,lt gy,vfgr,sbrnd,w srt,w cmt, arg,tt,frm,NSFOC SH AA w/15-25% SS lam AA NSOF SL STRMG WH CUT,sngl horz frac SH AA w/10-15% SS lam AA NSOF SL STRMG WH CUT,cont sngl horz frac SH AA w/25% SS lam AA NSOF SL STRMG WH CUT,cont sngl horz frac
					6460		SH AA w/30-35% SS lam wh gy,vfgr,sbrnd,w srt,w cmt,arg,tt,frm,calc,NSOF SL STRMG WH CUT,end of sngl horz frac SH blk,rthy,slty,lam,frm,calc SH blk,rthy,slty,lam,frm,calc,w/INOC SH blk,rthy,slty,lam,frm,calc,w/INOC
					6470		SH blk,rthy,slty,grdg to SLTST,frm-brit,w/INOC SH AA w/5-10% SS lam wh gy,vfgr,sbrnd,w srt,w cmt,arg,tt,frm,calc,NSOF,WH STRMG CUT SH AA w/20% SS lam AA NSOF,SL DUL YEL STRMG CUT
					6480		SH AA w/50% SS lam,NSOF,SL MLKY YEL CUT SH AA w/50-70% SS lam,FNT DUL YEL FLOR,NO STN,V SL STRMG YEL CUT,begin 2 horz fracs SH AA w/30% SS lam AA NSOF,SL STRMG YEL CUT,BENT strng,tan,chlky,sft
					6490		SH AA w/30-40% SS lam AA,DUL YEL FLOR,NO STN,SL STRMG YEL CUT SH AA w/20-30% SS lam AA,SCAT DUL YEL FLOR,NO STN,SL STRMG YEL CUT,w/INOC SH AA w/20-30% SS lam AA,SCAT DUL YEL FLOR,NO STN,MOD STRMG YEL CUT,begin sngl horz frac SH AA w/30% SS lam AA,SCAT DULL YEL FLOR,NO STN,IMMD STRMG YEL CUT
					6500		SH AA w/70-80% SS wh gy,vfgr,sbrnd,w srt,w cmt,arg,frm-hd,calc,tt,BLDG GAS BUBBLES ON SURF,SCAT DUL YEL FLOR,NO STN,SL STRMG YEL CUT,sngl horz frac SH AA w/90% SS AA BLDG GAS BUBBLES,DULL YEL FLOR,NO STN,IMMD STRMG YEL CUT,cont sngl horz frac SH AA w/60-80% SS AA,BLDG GAS BUBBLES,SCAT DULL YEL FLOR,NO STN,V SL STRMG YEL CUT
					6510		SH AA w/60% SS AA,SCAT DULL YEL FLOR,NO STN,IMMD STRMG YEL CUT

DRILLING RATE IN MIN./ FT.				LITHOLOGY		OIL SHOW	DESCRIPTION:
				LITH	DEPTH	T F G	
10	20	30	40				
					6510		SS gy lt gy wh,vf-fgr,sbrnd,w srt,w cmt,arg,carb incl,tt,frm-hd,calc,w/occ SH lam TR SCAT DULL FLOR,NO STN,SL STRMG YEL CUT, sngl horz frac SS AA TR SCAT DULL YEL FLOR,MOD STRMG YEL CUT,sngl hairline horz frac SS AA w/SH lam,blk,rthy,slty,frm,calc,SCAT DULL YEL FLOR,MOD-IMMD STRMG YEL CUT SH AA w/50% SS lam AA,SCAT DULL YEL FLOR,SL MLKY YEL CUT,sngl horz frac
					6520		SH AA w/60% SS lam AA,DULL YEL FLOR,NO STN,SL STRMG YEL CUT,no fracs SH blk,rthy,slty,mic & carb incl,frm,calc,w/40-50% SS lam AA DULL YEL FLOR,NO STN, SL STRMG YEL CUT,no fracs SH blk,rthy,slty,lam,carb incl,frm,calc,w/20% SS lam,TR DULL YEL FLOR,SL STRMG YEL CUT SLTST blk dk gy,arg,carb incl,andy,frm-hd,calc,w/20% SS lam,SCAT DULL YEL FLOR, SL-M STRMG YEL CUT SH grdg to SLTST w/60% SS lam,vfgr,sbrnd,w srt,w cmt,tt,arg,calc,SCAT DULL YEL FLOR,V SL STRMG YEL CUT,hairline horz fracs SH AA w/30-40% SS lam,SCAT DULL YEL FLOR,NO STN,SL STRMG YEL CUT,no fracs SH grdg to SLTST blk,carb incl,frm-hd,calc,w/10-20% SS lam,SCAT DULL YEL FLOR, SL-IMMD STRMG YEL CUT,no fracs
					6540		SH decr SLTST AA w/10% SS lam,SCAT DULL YEL FLOR,NO STN,V SL-SL STRMG YEL CUT SS wh lt gy,vf-fgr,sbrnd,w srt,w cmt,arg,tt,frm,calc,w/ occ SH strng,DULL YEL FLOR NO STN,SL STRMG YEL CUT,no fracs SS AA occ SH strng,SCAT DULL-BRT YEL FLOR,SO DK BRN STN,STRMG YEL CUT,no fracs SH AA w/60% SS lam,SCAT DULL YEL FLOR,SO DK BRN STN,IMMD STRMG YEL CUT,sngl hairline horz frac
					6550		SS wh gy,vf-fgr,sbrnd,w srt,w cmt,arg,frm-hd,tt,calc,w/30 % SH lam AA,SCAT DUL-BRT YEL FLOR,SO DK BRN STN,SL STRMG YEL CUT,hairline horz frac SLTST blk,arg,andy,carb incl,frm-hd,calc,w/ 10% SS lam AA,NSOF,V SL STRMG YEL CUT foss,no fracs SH blk,rthy,slty,grdg to SLTST,frm,calc,TR INOC,NSOF,WK RES YEL CUT SLTST blk,dk gy,arg,andy,carb incl,frm,calc,NSOF,V SL STRMG YEL CUT SH grdg to SLTST AA NSOF,WK RES YEL CUT SLTST blk,arg,andy,carb incl,frm-hd,calc,NSOF,V SL STRMG YEL CUT
					6570		SLTST AA SCAT DULL YEL FLOR,NO STN,V SL STRMG YEL CUT,TR INOC

DRILLING RATE IN MIN./ FT.				LITHOLOGY		OIL SHOW T F G	DESCRIPTION:
				LITH	DEPTH		
10	20	30	40				
					6570		SH blk,rthy,slty,lam,foss,frm,calc,NSFOC,tr INOC SH blk,rthy,slty,lam,foss,frm,calc,NSFOC
					6580		SH AA w/20% LS lam,lt-m brn,micxln,foss,tt-p intxln Ø,frm,NO STN,SCAT DULL YEL FLOR,RES YEL CUT SH AA w/10% SS lam,gy,vf-fgr,sbang,w srt,w cmt,arg,frm-hd,tt,calc,NSFOC,engl frac SH AA w/10% LS lam,brn,miclxn,arg,foss,frm,tt-p intxln Ø,NSFOC
					6590		SH AA w/10% SS lam,gy wh,vf-fgr,sbang,w srt,w cmt,arg,tt,frm-hd,calc,TR BRT YEL FLOR,NO STN,M STRMG YEL CUT,abnt INOC SH AA w/20% SS AA NSFOC SH blk,rthy,slty,foss,frm,calc,INOC,NSFOC
					6600		SH blk,rthy,slty,frm,foss,calc,INOC,NSFOC SH blk,rthy,slty,frm,foss,calc,INOC,NSFOC
					6610		SH AA w/20-30% SS lam,gy,vf-fgr,sbang,w srt,w cmt,arg,tt,carb incl,frm,calc, NSOF,V SL STRMG YEL CUT SH AA w/50% SS & LS lam,DULL YEL FLOR,STRMG YEL CUT SH AA w/70% SS gy.wh,vfgr,sbang,w srt,w cmt,arg,tt,frm,calc,FNT DULL YEL FLOR, OCC BRN STN,IMMD STRMG YEL CUT SH AA w/40% SS AA SCAT DULL YEL FLOR,NO STN,M STRMG YEL CUT
					6620		SH blk,rthy,slty,foss,INOC,grdg to SLTST ip SH AA w/ 50% SS & LS brn,micxln,foss,tt,SCAT DULL YEL FLOR,NO STN,SL STRMG YEL CUT SH AA w/30% SS gy lt gy,vf-fgr,sbang,w srt,w cmt,arg,w/ foss frags,tt,calc, SCAT DULL YEL FLOR,NO STN,SL STRMG YEL CUT
					6630		SH AA w/10% SS lam,AA DULL YELL FLOR,M STRMG YEL CUT

DRILLING RATE IN MIN./ FT.				LITHOLOGY		OIL SHOW T F G	DESCRIPTION:
				LITH	DEPTH		
10	20	30	40				
					6630		SH blk,rthy,slty,sndy,frm-brit,calc w/20-40% SS lam,wh ls gy,vfgr,sbrnd-sbang, w srt,w cmt,arg,tt,calc,NSOF,SL DULL YEL STRMG CUT SH AA w/foss frags,30-40% SS lam AA NSOF,V SL STRMG DULL YEL CUT SH AA w/30-40% SS lam,wh lt gy,vfgr,sbrnd-sbang,w srt,wcmt,arg,tt,calc,NSOF, V SL STRMG DULL YEL CUT
					6640		SH blk,rthy,slty,sndy,frm-brit,calc,foss frags,w/20-30% SS lam,wh lt gy,vfgr, sbrnd-sbang,w srt,w cmt,arg,tt,calc,NSOF,SL STRMG DULL YEL CUT SH blk,rthy,slty,sndy,frm-brit,calc,NSOFC
					6650		SH blk,rthy,slty,sndy,frm-brit,calc,NSFOC,w/ engl horz frac SH AA,NSOF,V SL STRMG DULL YEL CUT,INOC SH blk,rthy,slty,sndy,frm-brit,calc,INOC,NSOF,V SL STRMG DULL YEL CUT LS brn carmel,macrocxln,egl cryts,arg ip,frm,intxln Ø,NSOFC SH AA w/40% SS lam,wh gy,vfgr,sbrnd-sbang,w srt,w cmt,arg,tt,calc,NSFOC
					6660		SH blk,rthy,slty,frm-brit,calc,foss frags,NSFOC SH blk,rthy,slty,frm-brit,calc,NSFOC,INOC SH AA NSOF,V SL STRMG BRNYEL CUT,strng BENT,gybrn,wxy,sft SH AA w/ BENT & LS strngs,NSFOC SH AA w/10% LS strngs,brn,mic-macroxln,egl cryts,arg ip,NSFOC
					6670		SH blk,rthy,slty,frm-brit,calc,NSFOC SH blk,rthy,slty,frm-brit,calc,INOC,glau incl,NSFOC
					6680		

