

Cliffs Engineering, Cliff 9-1				T 11S,R 25E,Sec 8				
160.0	170.0	0.0B	0.0B 95.5	0.7	4.5	4.6	1.006	
170.0	180.0	0.0B	0.0B 95.6	0.7	4.6	4.6	1.006	
180.0	190.0	0.0B	0.0B 93.9	1.0	7.8	4.6	1.006	
190.0	200.0	0.0B	0.0B 92.9	1.1	11.3	3.2	1.006	
200.0	210.0	0.0B	0.0B 96.3	0.7	5.5	1.8	1.006	
210.0	220.0	0.0B	0.0B 96.7	0.6	4.6	1.8	1.006	
220.0	230.0	0.0B	0.0B 95.7	0.8	6.7	1.8	1.006	
230.0	240.0	0.0B	0.0B 96.7	0.7	5.2	1.4	1.006	
240.0	250.0	0.0B	0.0B 97.0	0.6	4.6	1.4	1.006	
250.0	260.0	0.0B	0.0B 97.4	0.5	3.5	1.6	1.006	
260.0	270.0	0.0B	0.0B 96.6	0.8	4.8	1.6	1.006	
270.0	280.0	0.0B	0.0B 96.0	0.8	6.4	1.4	1.006	
280.0	290.0	0.0B	0.0B 95.4	0.8	7.9	1.4	1.006	
290.0	300.0	0.0B	0.0B 95.5	0.9	7.3	1.4	1.006	
300.0	310.0	0.0B	0.0B 95.7	0.9	6.7	1.6	1.006	
320.0	330.0	0.0B	0.0B 94.9	1.0	7.7	2.3	1.006	
330.0	340.0	0.0B	0.0B 85.5	10.8	6.8	2.3	1.008	
340.0	367.0	0.0B	0.0B 0.0B	0.0B	0.0B	0.0B	0.000B	
367.0	377.0	0.0B	0.0B 94.9	0.9	7.6	2.5	1.006	
377.0	390.0	0.0B	0.0B 94.9	0.8	7.7	2.7	1.006	
380.0	390.0	0.0B	0.0B 97.0	0.6	4.1	1.8	1.006	
390.0	400.0	0.0B	0.0B 94.1	1.1	9.3	2.3	1.006	
400.0	410.0	0.0B	0.0B 93.6	1.1	10.6	2.3	1.006	
410.0	420.0	0.0B	0.0B 93.7	1.1	9.9	2.5	1.006	
420.0	430.0	0.0B	0.0B 92.0	1.3	13.5	2.5	1.006	
430.0	440.0	0.0B	0.0B 92.9	1.3	11.1	3.0	1.006	
440.0	450.0	0.0B	0.0B 94.1	1.0	8.3	3.4	1.006	
450.0	460.0	0.0B	0.0B 94.0	1.1	8.5	3.0	1.006	
460.0	480.0	0.0B	0.0B 93.6	1.1	9.4	3.4	1.006	
480.0	481.5	0.0B	0.0B 0.0	0.0	0.0B	0.0B	0.000B	
481.5	482.0	0.0B	0.0B 93.9	1.1	8.8	3.4	1.006	
482.0	483.0	0.0B	0.0B 96.0	0.8	4.7	3.0	1.006	
483.0	484.0	0.0B	0.0B 97.2	0.5	2.1	3.4	1.006	
484.0	485.0	0.0B	0.0B 94.7	1.0	6.9	3.9	1.006	
485.0	486.0	0.0B	0.0B 90.5	1.5	15.9	3.4	1.006	
486.0	487.0	0.0B	0.0B 93.6	1.0	10.0	3.2	1.006	
487.0	488.0	0.0B	0.0B 94.2	0.7	8.1	4.1	1.006	
488.0	489.0	0.0B	0.0B 94.1	0.8	9.0	3.4	1.006	
489.0	490.0	0.0B	0.0B 93.8	0.9	9.1	3.7	1.006	
490.0	491.0	0.0B	0.0B 91.0	1.0	11.9	7.5	1.006	
491.0	492.0	0.0B	0.0B 92.7	1.1	12.0	2.7	1.006	
492.0	493.0	0.0B	0.0B 94.5	0.8	8.3	3.2	1.006	
493.0	494.0	0.0B	0.0B 93.9	1.0	8.4	4.2	1.006	
494.0	495.0	0.0B	0.0B 94.9	0.8	7.2	3.2	1.006	
495.0	496.0	0.0B	0.0B 94.7	0.8	7.7	3.2	1.006	
496.0	497.0	0.0B	0.0B 93.3	0.9	10.2	3.7	1.006	
497.0	498.0	0.0B	0.0B 90.1	1.0	14.7	6.6	1.006	
498.0	499.0	0.0B	0.0B 93.6	1.0	9.7	3.4	1.006	
499.0	500.0	0.0B	0.0B 93.7	0.9	9.6	3.4	1.006	
500.0	501.0	0.0B	0.0B 94.1	0.9	8.8	3.2	1.006	
501.0	502.0	0.0B	0.0B 94.1	0.9	8.7	3.4	1.006	
502.0	503.0	0.0B	0.0B 93.7	0.9	10.3	2.8	1.006	
503.0	504.0	0.0B	0.0B 93.7	0.9	9.8	3.2	1.006	
504.0	505.0	0.0B	0.0B 94.7	0.7	8.6	2.5	1.006	

505.0	506.0	0.0B	0.0B	92.9	0.7	10.9	4.6	1.006
506.0	507.0	0.0B	0.0B	93.8	0.9	8.6	4.1	1.006
507.0	508.0	0.0B	0.0B	93.6	1.0	10.3	2.7	1.006
508.0	509.0	0.0B	0.0B	93.3	0.9	10.6	3.4	1.006
509.0	510.0	0.0B	0.0B	94.3	0.7	8.3	3.7	1.006
510.0	511.0	0.0B	0.0B	94.3	0.9	8.8	3.0	1.006
511.0	512.0	0.0B	0.0B	91.9	1.3	13.4	3.0	1.006
512.0	513.0	0.0B	0.0B	94.5	0.8	7.5	3.9	1.006
513.0	514.0	0.0B	0.0B	95.2	0.8	6.5	3.2	1.006
514.0	515.0	0.0B	0.0B	96.8	0.5	4.1	2.5	1.006
515.0	516.0	0.0B	0.0B	94.9	0.9	7.3	2.7	1.006
516.0	517.0	0.0B	0.0B	92.6	1.2	12.5	2.5	1.006
517.0	518.0	0.0B	0.0B	93.9	1.0	9.7	2.5	1.006
518.0	519.0	0.0B	0.0B	94.9	0.9	7.9	2.3	1.006
519.0	520.0	0.0B	0.0B	94.6	0.9	8.5	2.3	1.006
520.0	521.0	0.0B	0.0B	93.9	0.9	9.5	2.9	1.006
521.0	522.0	0.0B	0.0B	93.2	0.8	9.8	4.8	1.006
522.0	523.0	0.0B	0.0B	95.7	0.4	2.6	6.8	1.006
523.0	524.0	0.0B	0.0B	94.2	0.9	7.4	4.6	1.006
524.0	525.0	0.0B	0.0B	94.1	0.9	10.5	1.8	1.006
525.0	526.0	0.0B	0.0B	104.2	0.9	11.1	1.8	1.006
526.0	527.0	0.0B	0.0B	65.3	1.3	13.8	1.8	1.006
527.0	528.0	0.0B	0.0B	92.4	1.5	15.9	2.3	1.006
528.0	529.0	0.0B	0.0B	104.0	1.2	11.3	2.3	1.006
529.0	530.0	0.0B	0.0B	101.7	1.1	8.3	2.3	1.006
530.0	531.0	0.0B	0.0B	110.4	1.0	5.9	2.5	1.006
531.0	532.0	0.0B	0.0B	82.5	1.0	8.1	2.3	1.006
532.0	533.0	0.0B	0.0B	68.6	1.2	11.7	2.3	1.006
533.0	534.0	0.0B	0.0B	95.0	1.0	7.1	2.8	1.006
534.0	535.0	0.0B	0.0B	95.6	0.9	6.0	2.5	1.006
535.0	536.0	0.0B	0.0B	95.0	1.0	6.5	3.2	1.006
536.0	537.0	0.0B	0.0B	95.9	0.9	5.5	2.3	1.006
537.0	538.0	0.0B	0.0B	94.3	1.0	9.1	2.3	1.006
538.0	539.0	0.0B	0.0B	92.2	1.3	13.5	2.3	1.006
539.0	540.0	0.0B	0.0B	94.8	1.1	7.7	2.3	1.006
540.0	541.0	0.0B	0.0B	94.6	1.1	8.2	2.1	1.006
541.0	542.0	0.0B	0.0B	91.1	1.6	15.4	2.3	1.006
542.0	543.0	0.0B	0.0B	83.8	2.7	29.5	3.0	1.006
543.0	544.0	0.0B	0.0B	93.6	1.3	10.5	1.8	1.006
544.0	545.0	0.0B	0.0B	93.2	1.2	11.2	2.3	1.006
545.0	546.0	0.0B	0.0B	92.9	1.2	11.8	2.3	1.006
546.0	547.0	0.0B	0.0B	92.6	1.3	12.5	2.3	1.006
547.0	548.0	0.0B	0.0B	85.5	2.4	26.0	3.0	1.006
548.0	549.0	0.0B	0.0B	92.8	1.1	12.2	2.3	1.006
549.0	550.0	0.0B	0.0B	91.0	1.6	15.6	2.3	1.000
550.0	551.0	0.0B	0.0B	85.3	2.4	26.2	3.4	1.006
551.0	552.0	0.0B	0.0B	95.5	0.9	6.5	2.3	1.006
552.0	553.0	0.0B	0.0B	96.2	1.0	4.4	2.3	1.006
553.0	554.0	0.0B	0.0B	97.0	0.9	3.4	1.6	1.006
554.0	555.0	0.0B	0.0B	97.6	0.8	2.6	1.4	1.006
555.0	556.0	0.0B	0.0B	96.3	0.8	5.5	1.8	1.006
556.0	557.0	0.0B	0.0B	96.9	0.9	3.5	2.1	1.006
557.0	558.0	0.0B	0.0B	97.4	0.8	2.2	2.3	1.006
558.0	559.0	0.0B	0.0B	98.0	0.7	1.5	1.6	1.006
559.0	560.0	0.0B	0.0B	98.0	0.6	1.5	1.8	1.006

560.0	561.0	0.0B	0.0B	97.0	0.8	3.5	1.8	1.006
561.0	562.0	0.0B	0.0B	91.9	1.6	13.0	2.5	1.006
562.0	563.0	0.0B	0.0B	93.8	1.2	9.8	2.3	1.006
563.0	564.0	0.0B	0.0B	83.1	3.5	28.1	3.9	1.006
564.0	565.0	0.0B	0.0B	91.5	1.5	12.8	4.1	1.006
565.0	566.0	0.0B	0.0B	92.5	1.5	11.9	2.7	1.006
566.0	567.0	0.0B	0.0B	93.9	1.0	9.2	3.2	1.006
567.0	568.0	0.0B	0.0B	90.8	1.3	14.9	4.1	1.006
568.0	569.0	0.0B	0.0B	86.3	2.0	23.3	4.6	1.006
569.0	570.0	0.0B	0.0B	88.4	1.9	21.0	2.3	1.006
570.0	571.0	0.0B	0.0B	83.8	2.2	30.7	2.7	1.006
571.0	572.0	0.0B	0.0B	81.6	2.6	33.7	4.1	1.006
572.0	573.0	0.0B	0.0B	89.7	1.6	17.4	3.4	1.006
573.0	574.0	0.0B	0.0B	91.6	1.4	13.3	3.4	1.006
574.0	575.0	0.0B	0.0B	93.7	1.1	9.7	3.0	1.006
575.0	576.0	0.0B	0.0B	89.7	1.6	17.7	3.2	1.006
576.0	577.0	0.0B	0.0B	94.2	1.0	9.2	2.3	1.006
577.0	578.0	0.0B	0.0B	94.0	1.1	9.9	1.8	1.006
578.0	579.0	0.0B	0.0B	94.5	0.8	6.7	4.6	1.006
579.0	580.0	0.0B	0.0B	94.8	1.1	8.3	1.6	1.006
580.0	581.0	0.0B	0.0B	95.4	1.0	7.3	1.6	1.006
581.0	582.0	0.0B	0.0B	93.7	1.0	10.7	2.1	1.000
582.0	583.0	0.0B	0.0B	85.1	1.9	28.6	2.5	1.006
583.0	584.0	0.0B	0.0B	83.0	2.7	30.3	3.9	1.006
584.0	585.0	0.0B	0.0B	90.0	1.6	18.1	2.3	1.006
585.0	586.0	0.0B	0.0B	91.2	1.5	14.8	2.7	1.006
586.0	587.0	0.0B	0.0B	91.2	1.6	14.6	2.8	1.006
587.0	588.0	0.0B	0.0B	86.7	1.9	24.3	3.0	1.006
588.0	589.0	0.0B	0.0B	84.8	2.4	27.9	2.7	1.006
589.0	590.0	0.0B	0.0B	85.9	1.8	26.8	2.7	1.006
590.0	591.0	0.0B	0.0B	82.9	2.4	32.6	2.7	1.004
591.0	592.0	0.0B	0.0B	77.6	3.4	41.1	4.3	1.006
592.0	593.0	0.0B	0.0B	61.3	6.3	70.6	6.8	1.006
593.0	594.0	0.0B	0.0B	66.4	4.7	61.7	7.5	1.006
594.0	595.0	0.0B	0.0B	78.3	2.9	40.9	4.1	1.006
595.0	596.0	0.0B	0.0B	72.7	4.0	51.2	4.6	1.006
596.0	597.0	0.0B	0.0B	87.0	1.8	23.4	3.4	1.006
597.0	598.0	0.0B	0.0B	89.8	1.7	17.6	2.7	1.006
598.0	599.0	0.0B	0.0B	82.7	2.4	32.8	2.7	1.006
599.0	600.0	0.0B	0.0B	77.9	3.1	42.2	3.2	1.006
600.0	601.0	0.0B	0.0B	89.0	1.7	19.1	3.4	1.006
601.0	602.0	0.0B	0.0B	91.4	1.5	14.2	3.0	1.006
602.0	603.0	0.0B	0.0B	91.7	0.6	15.0	3.4	1.006
603.0	604.0	0.0B	0.0B	90.0	1.5	16.8	3.4	1.006
604.0	605.0	0.0B	0.0B	90.4	1.3	17.6	2.3	1.006
605.0	606.0	0.0B	0.0B	86.4	1.8	25.5	2.7	1.006
606.0	607.0	0.0B	0.0B	79.3	3.2	38.8	3.2	1.006
607.0	608.0	0.0B	0.0B	88.7	1.9	20.3	2.3	1.006
608.0	609.0	0.0B	0.0B	86.9	1.9	24.1	2.8	1.006
609.0	610.0	0.0B	0.0B	85.7	2.1	26.8	2.3	1.006
610.0	611.0	0.0B	0.0B	90.4	1.6	15.8	3.7	1.006
611.0	612.0	0.0B	0.0B	91.7	1.5	13.4	3.0	1.006
612.0	613.0	0.0B	0.0B	82.6	2.7	32.0	3.4	1.000
613.0	614.0	0.0B	0.0B	85.6	2.1	25.9	3.7	1.006
614.0	615.0	0.0B	0.0B	94.3	1.2	8.5	2.5	1.006

615.0	616.0	0.0B	0.0B	92.8	1.2	11.1	3.4	1.006
616.0	617.0	0.0B	0.0B	94.2	1.2	8.9	2.3	1.006
617.0	618.0	0.0B	0.0B	91.0	1.4	15.8	2.5	1.006
618.0	619.0	0.0B	0.0B	82.1	2.6	33.7	3.0	1.006
619.0	620.0	0.0B	0.0B	84.6	2.0	29.9	2.3	1.006
620.0	621.0	0.0B	0.0B	88.4	1.6	22.1	1.8	1.006
621.0	622.0	0.0B	0.0B	89.2	1.6	19.1	3.0	1.006
622.0	623.0	0.0B	0.0B	87.2	1.7	23.4	3.1	1.006
623.0	624.0	0.0B	0.0B	87.9	1.9	22.3	2.3	1.006
624.0	625.0	0.0B	0.0B	89.9	1.8	16.2	3.9	1.006
625.0	626.0	0.0B	0.0B	92.9	1.3	11.3	2.8	1.006
626.0	627.0	0.0B	0.0B	93.7	1.2	9.4	3.0	1.006
627.0	628.0	0.0B	0.0B	91.9	1.5	12.8	3.0	1.006
628.0	629.0	0.0B	0.0B	88.2	2.0	20.2	3.2	1.006
629.0	630.0	0.0B	0.0B	94.2	1.2	8.6	2.7	1.006
630.0	631.0	0.0B	0.0B	94.9	1.1	7.1	2.5	1.006
631.0	632.0	0.0B	0.0B	95.6	1.0	5.3	3.0	1.006
632.0	633.0	0.0B	0.0B	96.8	0.8	3.9	1.8	1.006
633.0	634.0	0.0B	0.0B	93.7	1.0	10.2	2.5	1.006
634.0	635.0	0.0B	0.0B	94.2	1.0	9.4	2.3	1.006
635.0	636.0	0.0B	0.0B	95.2	0.7	4.2	5.7	1.006
636.0	637.0	0.0B	0.0B	90.0	1.4	17.9	2.8	1.006
637.0	638.0	0.0B	0.0B	90.3	1.5	17.4	2.3	1.006
638.0	639.0	0.0B	0.0B	95.4	1.0	6.7	1.8	1.006
639.0	640.0	0.0B	0.0B	94.6	1.1	8.0	2.3	1.006
640.0	641.0	0.0B	0.0B	84.3	2.2	28.9	3.4	1.006
641.0	642.0	0.0B	0.0B	92.9	1.1	11.6	3.0	1.006
642.0	643.0	0.0B	0.0B	95.6	1.0	5.5	2.7	1.006
643.0	644.0	0.0B	0.0B	97.1	0.7	2.7	2.7	1.006
644.0	645.0	0.0B	0.0B	96.8	0.6	3.5	3.0	1.000
645.0	646.0	0.0B	0.0B	95.8	0.7	5.5	3.0	1.006
646.0	647.0	0.0B	0.0B	90.1	1.4	16.2	4.1	1.006
647.0	648.0	0.0B	0.0B	89.1	1.2	16.5	6.9	1.006
648.0	649.0	0.0B	0.0B	92.6	1.2	11.4	3.7	1.006
649.0	650.0	0.0B	0.0B	95.5	0.9	6.0	2.7	1.006
650.0	651.0	0.0B	0.0B	96.5	0.7	4.2	2.5	1.006
651.0	652.0	0.0B	0.0B	96.4	0.7	4.2	2.7	1.006
652.0	653.0	0.0B	0.0B	96.0	0.9	5.1	2.5	1.006
653.0	654.0	0.0B	0.0B	95.7	0.9	5.3	3.0	1.006
654.0	655.0	0.0B	0.0B	94.9	1.0	7.0	3.0	1.006
655.0	656.0	0.0B	0.0B	96.8	0.8	3.1	3.0	1.006
656.0	657.0	0.0B	0.0B	93.8	1.2	8.6	3.6	1.006
657.0	658.0	0.0B	0.0B	95.4	1.0	5.3	3.4	1.006
658.0	659.0	0.0B	0.0B	96.7	0.8	1.6	4.6	1.006
659.0	660.0	0.0B	0.0B	96.6	0.6	3.2	3.4	1.006
660.0	661.0	0.0B	0.0B	95.1	0.8	3.4	6.4	1.006
661.0	662.0	0.0B	0.0B	96.2	0.6	3.2	4.6	1.006
662.0	663.0	0.0B	0.0B	95.5	0.6	5.3	4.1	1.006
663.0	664.0	0.0B	0.0B	95.9	1.3	4.1	2.5	1.006
664.0	665.0	0.0B	0.0B	95.0	0.9	6.4	3.7	1.006
665.0	666.0	0.0B	0.0B	96.3	0.6	4.5	3.0	1.006
666.0	667.0	0.0B	0.0B	97.2	0.7	2.8	2.5	1.006
667.0	668.0	0.0B	0.0B	96.8	0.7	2.2	3.9	1.006
668.0	669.0	0.0B	0.0B	96.4	0.7	5.6	1.4	1.006
669.0	670.0	0.0B	0.0B	96.2	0.5	6.5	1.4	1.006

670.0	671.0	0.0B	0.0B	98.5	0.5	1.0	1.6	1.006
671.0	672.0	0.0B	0.0B	98.7	0.5	0.5	1.6	1.006
672.0	673.0	0.0B	0.0B	98.6	0.5	0.6	1.6	1.006
673.0	674.0	0.0B	0.0B	98.5	0.5	0.8	1.6	1.006

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THE DATA BELOW ARE COMPUTED FOR AN AVERAGE OF 25.0 GALS/TON. THE  
REPORTED ASSAYS DO NOT INCLUDE ZONES WHICH AVERAGE LESS  
THAN 10.0 GALS/TON OVER MORE THAN 10.0 FEET IN LENGTH.

I N T E R V A L		AVERAGE	TOTAL	RESOURCE
DEPTH	DEPTH	YIELD	INTERVAL	(BARRELS
TOP	BASE	(GALS/TON)	(FEET)	PER ACRE
(FT)	(FT)			X 1000)
542.0	543.0	29.5	1.0	2.1
547.0	548.0	26.0	1.0	1.9
550.0	551.0	26.2	1.0	1.9
563.0	564.0	28.1	1.0	2.0
568.0	573.0	25.2	5.0	9.0
581.0	626.0	25.3	45.0	78.7
640.0	641.0	28.9	1.0	2.0
		TOTAL	55.0	97.6