

Diamond Core #1 3336-3361. cut 25' recovered 19' being 5 $\frac{1}{2}$ ' sd, fn to v. fn grained, very silty and calc. No poro, stain, fluor, cut or odor $\frac{1}{2}$ ' sd as above except sli friable, tr. stain, good yellow fluor, light cut and sulfur odor. 6' (Last core considered to be missing at this depth) 13' sd fn to v f grained very silty and calc, no poro stain, fluor cut or odor. (No dip recognized in core.)

DST #1 3321-3361 op 42 min. Rec. 170' uncut mud and 90' SWCM (tstd 14,500' PP M cl)
FP 40-60 15" SIP failed

Diamond Core #2 3361-3386 cut 25' and recovered 25' being 6' sand, gry fine very silty and calc. No show. 3' sand gry fn silty and sli calc friable no show. 1' sd, gry fn silty, very calc, tight no show. 1' sand gry fn silty and calc, friable, light spotted golden fluor, and sli odor. 14' sand as above, friable with no show. (No dip recognized.)

Diamond Core #3 3386-3409.5 cut 23.5' recovered 23.5' being 15' sd, gry, fn to med grained, loosely cemented w/calc, silty, sli friable no show. 1' sd, gry fn-med grained, loosely cemented w/calc., friable no show. 1' sd, gry, fn to med, loosely cemented w/calc, silty w/1" streaks of black sh., sli friable w/no show. 1' sd gry, fn to med, loosely cemented w/calc., friable, no show. 5 $\frac{1}{2}$ ' sand, gry, fn to med, loosely cemented w/calc., silty, sli friable, no show.
(Fair 2° dip in sand w/2 paper thin sh partings in entire core.)

Diamond Core #4 3578-3603, cut 25' recovered 25' being 11' sd, gry, med, grained, sli calc, sli shaley, sli friable, no show. 4' sd, gry, very fine, very silty & hard, sli calc w/numerous shale laminations, very tight, no show. 2 $\frac{1}{2}$ ' sd as above w/numerous sh fragments, not laminated, very tight, no show. $\frac{1}{2}$ ' sh. black $\frac{1}{2}$ ' sd, gry, very fine, very silty and hard, sli calc. w/numerous small shale laminations and frag., very tight, no show. $\frac{1}{2}$ ' sh, black. 1' sd gry, fn to med sli calc, very silty and shaley, very tight, no show. 1' sd, gry, med sli calc and silty w/4 1/32" lamin of fair spotted fluor in sd, very tight, very light fluor, and stain in lamin. 4' sd, gry, med grained, sli calc and silty, w/numerous sh lamin and frag. very tight, no show. (Fair 0° dip 3578-3603 in sand w/thin shale laminations)

DST #2 4565-4596 open 2 hrs Rec. 146' sli O & GCM, 174' sli O&G&H SWCM (very sweet gas and light green oil) Salt water tested 23,800' PPM cl
FPC 185 15SIP 960

DST #3 4933-4972 open 1' 35" Rec 124' sli O & GCM (Sweet gas and greenish brown oil) Salt water tested 5600 PPM cl, Drilling mud tested 2600 PPM cl
FP 100 15 SIP 130

Diamond Core #5 4972-4983 cut 11' recovered 6 $\frac{1}{2}$ ' being 3' sd, gry, med, sli silty to silty, sli poro, no show. $\frac{1}{2}$ ' sd, gry, med grained, sli silty, sli to fair poro, light stain, fair to good fluor; fair cut, good odor. 1 $\frac{1}{2}$ ' sd, gry, fn to med grained, silty, tight no show. $\frac{1}{2}$ ' sh black w/thin gry sd streaks, no show. $\frac{1}{2}$ ' sd, gry, fn grained, sli calc, tight, light scattered fluor, sli odor. $\frac{1}{2}$ ' sd, gry, fn grained, very silty, sli calc, tight, no show.

NOTE: Bottom of core considered to be lost. (No dip recognized.)

Diamond Core #6 4984-4998 cut 14' recovered 14' being 2' sd and sh; very thinly lamin. w/3" streaks of blk sh @4984 $\frac{1}{2}$, tight, sli odor, scattered dull golden fluor in lamin. 7' sd, gry, fn to med, sli calc cement, fair poro, no show. 2' sd and sh lamin., tight, scat dull gold in lamin., tr. odor. 1' shale, very thinly lamin. w/sd., tight scat dull golden fluor in lamin. tr. of odor. $\frac{1}{2}$ ' sd and sh., very thinly lamin, tight, tr. stain and odor, dull golden fluor in lamin. 1 $\frac{1}{2}$ ' sd and sh, very thin by laminated, tight, no show. (good 3-7° dip 4984-97 in sd and shale, thinly laminated.)

NOTE: core from 4984-95 (11') was saturated with salt water and bleeding salt water in several places.)

Diamond Core #7 5079-5090' cut 11' and recovered 11' of sand, gry, med grained, scat. cement, non calc, silty, sli friable, wet and bleeding salt water, sli glauconitic w/2" streak of blk shale @5086 $\frac{1}{2}$ ", sli poro, no show. (No dip recognized.)

Diamond Core #8 5258-5283 cut 25' recovered 25' being 1' sand, brn, very argil, silty, tight, very fn grn; the zones of stain were scat.

and only the size of a peabut within this zone the core was bleeding freely, drk brn heavy oil. no poro, excellent scat stain and fluor and excellent cut and odor. 1½' shale, drk gry, silty, no poro, no show. 1' dolo, drk brn, dense, hard, xln., no poro, no show. 1½' shale, dense, blk sli silty, no poro, no show. 4' sd, gry med, sli calc, soft and friable, salty tastes wet sand, sli poro, no show. 1' sd as above w/tr of stain, sli fluor, tr. scat stain and fluor, tr. odor. 5' sd, gry, med grained, friable, wet sand, sli poro, no show. 3' sand as above w/numerous thin shale streaks. tr. poro, no show. 7' sd, gry-med fine to fine, soft friable wet sand; sli poro, no show. NOTE: @5261 ½-1" vevy fine grained, sand, tight quartzitic w/sploches of excellent stain and active bleeding of a dark brown, heavy oil. Good 2° dip 5258-74 in sand w/scat thin shale laminations.

DST #4 5684-5708 open 1 hr. Rec. 10' mud with rainbow show of oil
no gas
FPO

15 SIP 0

Diamond Core #9 5708-5720 cut 12' and had no recovery.

Diamond Core #10 5832-5848 cut 16' Recovered 16' being 1' sd, very fn, gry, firm, well cemented, tight, sli poro., sli stain, excellent fluor, good cut and excellent odor. 1' sd, gry, fine, silty, very shly, w/numerous sh lenses, no poro, no show. 10' sd, fn to med, firm to sli friable, gry, sli tight (very dull, pin point fluor) (bleeding SW) tight, tr. scat fluor. 4' sh and sd, very thinly lam, sd as above and black sh., no poro, no show. very good 4° dip 5832-48 in sand w/sh lamin.

Diamond Core #11 5860-5885 cut 25' recovered 25' being 1' sand, buff to gry, fn grained, sli silty, tight, non-calc, firm, w/good lt brn oil stain. fair poro; fair to good stain, excellent fluor, cut and odor. 3' sand, very fine grained, gran, very shaly and silty w/numerous sh lenses and sh stringers, tr. poro and odor otherwise no show. 2' sand, gry-med, non calc, sli friable, tight, sli silty cementation to non silty, sli pyritic, core is wet and has salty taste, good poro, no show. 4' sd as above, w/more silty cementation such that the core is tighter, fair poro, no show. 15' sand, gry-med to med fine, tight, to sli friable, calc cementing material, pores are well filled. sli poro, no show. Good 2° dip 5860-68 in sand w/sh stringers.

Diamond Core #12 5885-5935 cut 50' and recovered 50' being 25' sand, gry, med, sli calc, tight to sli friable, salty taste, appears to be salt water bearing, fair poro, no show. 18' sand, as above only much tighter and more firmly cemented w/sd sizes rangeing from med fine to fine grained (The above sand was bleeding salt water very lightly) Sli poro, no show. 1' sand, vevy fine grained, gry, tight, well cemented, sli calc, w/numerous gry sh lamin, and very sdy sh streaks no poro, tr. poro, cut and odor. 2' sand, very fine grained, gry, tight, sli argil and calc tight, w/a 1" strk @5930, no poro, no show. 1' sh, brownish blk, very silty to sli sandy, scat vitreous luster from sd grains, no poro, no show. 2' sand and sh as above thinly lamin., no poro, no show. 1' sd and sh as above, thinly strked w/light show of oil in bedding planes between the sand and shale. (The show in the bottom foot was confined to the bedding planes.) Good 8° dip 5929 in sand, sh lamin, fair 10° dip 5933 in sand, sh lamin.

Diamond Core #13 5935-5984 cut 49' recovered 49' being 2' sd, gry, med, silty w/thin lamin and some sand, very shaley, sli poro, fair stain, 1/16" streaks of fluor in sd, tr odor. 2' sand, gry, fn grained very silty, sli shaley, w/a few thin shaley lamin. tight poro, no show. 1' sand as above except more shale, tight poro, scat dull fluor in bedding planes tr. odor. 5' sand, gry, med grained, silty w/a few scat thin sh lamin., sli friable noshow. 1' sd, gry med grained, sli silty, not too well cemented, friable poro, no show. 1' sd and sh, very thinly lamin, tight, tr. dull scat fluor in bedding planes, tr. odor. 11' as above, except no fluor. 2' sh and sd, very thinly, lamin mostly sh., tight, no show. 1' sd and sh as above, no poro, no show. 1' sh. black, 1½' sd and sh very thinly lamin. no poro, tr dull spotted fluor in bedding planes, tr.odor. 1½' sd gry, fn, well cemented, sli calc, w/vitreous luster, very hard, no poro, no show. 2' sh and sd very thinly lamin, no poro, tr dull fluor in bedding planes, tr. odor. 17' sd and sh, very thinly lamin, no poro, no show. Fair 20° dip 5935-84 in sd and sh lamin.

Diamond Core #14 6422-6435 cut 13' recovered 13' being 1' sd, drk gry very shly and silty no poro, tr spotted fluor, fair odor. 1' sd, gry

Diamond Core #14 fn grained, silty w/few thin sh lamin, no poro, tr, spotted fluor, fair odor. 2' sd, and sh, paper thin lamin no poro, it scat fluor in lamin, sli odor. 1' sd, gry, v f g, silty no poro, tr. odor. 3' sd and sh paper thin lamin, no poro no show. 2' sd, gry v f g very silty, calc, no poro, no show. 3' sd, drk gry very silty fine grained, very shly sli calc. no poro, tr spt fluor.

NOTE: Light scat salt water bleeding throughout entire core.

Fair 2° dip 6422-35 in sd; w/few scat sh laminations.

DST #6 6405-6435 open 3' 6" Rec. 130' HGCM with some free oil # 270' SW (tstd 142,000 PPC cl)

FP 75-190

30 SIP 1585

Diamond Core #15 6436-6486 cut 50' recovered 44' being 2' sd, gry fn grained silty w/a few scat. $\frac{1}{2}$ " sh partings, no poro, tr fluor in shale lamin only, tr. odor. 10' sd, gry fn grained very silty, no poro, no show. 2' sd, as above, w/thin sh strks, no poro tr fluor in sh lamin only, tr odor. 2 $\frac{1}{2}$ ' sd, gry, fn grained, very silty, no poro, no show 6' sd, gry, v f g, w/a few scat thin sh lamin ($\frac{1}{4}$ " no poro, tr fluor in sh lamin only, tr odor. 9' sd, gry, fn grained, very silty, sli calc to non calc, very hard, no poro, no show. 3 $\frac{1}{2}$ ' sh, black, w/thin sd, lamin, no poro, no show. 1' sh, blk w/a few thin scat sd lamin., no poro, tr fluor in lamin only, tr odor. 2' sd, gry, med grained, s silty and shly, w/2 2" sh strks, no poro, tr. fluor in sh streaks, tr. odor. 1' sd, gry, med to coarse grained, silty, hard, sli poro, no show. 2' sd, gry, med to coarse grained, very silty and hard, vitreous luster, no poro, no show. 1' sd, gry, fn to med grained, very silty and shaley no poro, tr dull scat fluor., tr. odor. 2' sd, gry, fn grained, very silty, hard w/a vitreous luster, no poro no show. Fair to poor 3° dip 6436-86' in sand shale lamin.

Diamond Core #16 6489-6518 cut 29' recovered 29' being 2' sd, gry, v f g., very silty, shaley and tight, mottled appearance due to sh concentration in local areas, no poro, no show. 2 $\frac{1}{2}$ ' sd, v f to f grain-ed, well consolidated, tight sli calc to very shly and sli lamin. bleeding profusely in small section @6492; remainder of show was in scat lamin., tr to sli poro, good to excellent stain, tr. to excellent fluor, light to excellent cut, good to excellent odor. 10 $\frac{1}{2}$ ' sd, gry, v f to f g., well consolidated, very tight, ranges from shaley to silty to sli friable, tr to light poro, no show. 1' sd, gry, v f g, silty, tight, very shaley giving mottled appear. w/tr. of bleeding oil, tr. poro, tr. to excellent stain and fluor, tr. cut; excellent odor. 11' sd, gry, v f to m f g, well consolidated tight, sli calc to very shly, tr poro, no show. 2' sd, gry, v f to med grained, tight, sli calc, silty to very shly, tr poro, light stain, excellent fluor and odor, good cut.

NOTE: The show from 651618 was separated by 4" of barren sand, no visible reason. The fluor was a bright blue-white.

Fair to poor 3° dip 6489-6518 in sand, shale lamin.

Diamond Core #17 6521-6569 cut 48' and recovered none.

Diamond Core #18 6753-6773 Cut 20' recovered 20' being $\frac{1}{2}$ ' sd, gry, fn to med grained, sli calc, friable, silty, light poro, tr. stain, excellent fluor and odor, 3 $\frac{1}{2}$ ' sd, as above, very thinly lamin, w/sh and 6" strks of dolo, tan, xln, sdy, light poro in sd, no show. 1' sd and sh very thinly lamin. no poro, tr. scat fluor in lamin, fair odor. 1 $\frac{1}{2}$ ' sd, gry, fn to med grained, not too well cemented, very silty w/small sh lamin, tr. poro, excellent fluor in sd, excellent, odor. $\frac{1}{2}$ ' sd and sh very thinly lamin, tight, no show. 2' sd, gry, fn to med gr sli calc, friable, very silty w/excellent fluor in small zones, light poro, excellent fluor in bottom 2", excellent odor in bottom 2" Good 3-4° dip 6753-73 in sd w/sh lamin.

Diamond Core #19 6773-6798' cut 25' recovered 25' being 2 $\frac{1}{2}$ ' sd, gry, fn to med grained, silty, sli calc cement, w/very thin shaley lamin and 2" streaks of lime, no poro, tr. scat fluor in lamin, tr. odor. 2 $\frac{1}{2}$ ' sd, gry, med grained, sli calc cement, friable, silty w/2" scat good fluor @6775 $\frac{1}{2}$, a $\frac{1}{2}$ " scat good fluor @6777, a 2" ls streaks @ 6776, sli poro, good scat odor and fluor as noted above. 20' sd, gry, fn to med grained, not too well. cemented (sli calc.) friable, silty, w/4 scat 3" strks of lime, light poro, no show. Poor 20 dip 6773-80 in sd w/sh lamin.

Diamond Core #20 6844-6862 cut 18' recovered 18' being 2' sd, gry, v f to f grained, sli calc, sli silty, tight to sli friable, broken w/2 sh strks, tr. poro, excellent fluor and odor, light cut. 1' sd, gry fn grained, very tight, calc to sli quartz, no poro, no show. 1' sd, very fine to med fine grained. very argill, very sli calc, tight, w/

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Diamond Core #20 w/scat zones of show; no poro, good scat fluor and odor, tr. cut. 1' sh, drk gry, very sdy and silty, w/tr. thin sd gry, very sdy and silty, w/tr thin sd lamin, no poro, no show. 3' sd, gry, v f to med fine, tight, sli calc, intermixed w/gry fn grained, argill very tight sd, tr. scat poro, stain and cut, good to excellent fluor and odor. 5' 5' sd, gry, v f to med f, v sli calc, tight, sli silty w/tr argill material scattered silty w/tr. poro, tr to light stain excellent fluor and odor, light cut. 1' sd, v f to f grained, gry, sli calc, very silty, tight, tr. poro, tr scat stain; fluor, and cut, fair odor. 4' sd, v f to f gr, very silty and argill, very tight w/ occasional thin sh laminations. no poro, very dull brown spotted fluor tr. cut.

Good to fair 2° dip 6844-62 in sand w/shale lamin.

DST #7 6830-6862 open 6 hrs, recovered 195' HG & GCM (20,000 PP M cl) 39' muddy salt water (87,000-158,000 PPMcl) no oil or gas to surface. 3390' gas in drill pipe: FP 5s-230

30 SIP 1775

Diamond Core #21 6862-6914' Cut 52' recovered 52' being $\frac{1}{2}$ ' sh, blk sdy, w/very small sd lamin, no poro, tr fluor. and odor in lamin. 2 $\frac{1}{2}$ ' sd, gry, med grained calc, silty, sli friable, tr poro, light stain, excellent fluor and odor, light cut. 1' Ls, tan, xln, very sdy, very tight, no show. 1' sd, gry, to tan, med grained very limey, very tight good scat fluor and odor, light cut. 8' sd and sh, very thinly lamin, w/a few scat streaks of lime, tr stain and fluor in lamin, fair odor in lamin 2' Ls, drk brn, med to coarse xln, very dns, foss, no poro, no show. 3' sh, blk w/one tight vert frac. w/a tr. of calc fill no poro, no show. 3' sd, gry, v f g, very silty and shaley, very tight to tight poro., light stain, good scat fluor and odor, tr. cut. 4' Ls, brn, coarse xln, very sdy, foss w/sd frag scat throughout, tr. pyritec very tight, light scat fluor, good cut, fair odor. 5' sd, gry, v f g very silty, sli calc cemented, very hard, very tight, light stain and fluor and cut, good odor. 1' Ls, drk brn, xln, shaley, dns, very tight no show. 4' sd, gry, v f g, very silty to sli shaley, very hard, very tight, tr. stain and cut, light scat fluor, good odor. 1' Ls drl brn, xln, shaley, dense, very tight, no show. 15' sd, gry, f-med grained, sli calc, very silty w/scat 2"-6" sh strks w/sd between sh streaks no larger than 2', some sand zones friable, tight good stain and cut; excellent fluor and odor. very good 2° dip 6862-77 in sd w/sh lamin.

DST #8 6860-6914 open 2' 40" g 20" est 122 MCFGPD recovered out 450' HG & GCM Recovered 498' fluid being 345' VHO & GCM (30,000'-40,000 PPMcl) 150' Sli MC oil 43.3 grav. FP 90-240

30 SIP 2680

Diamond Core #22 6914-6926 cut 12' recovered 12' being 1' sd, gry, fn to med grained, very silty, w/very thin sh laminations, very tight, good scat fluor and odor, tr cut. 1' sd, gry, fn to med grained, completely filled w/Ls, no poro, no show. 10' sd, fn to med grained, sli calc cement, very silty, w/6" streaks of Ls @6924, w/a few scat very thin sh lamin in bottom 2', very tight, light stain, excellent fluor and odor, fair cut.

Fair to poor 5° dip 6914-15 in sd w/sh lamin.

Diamond Core #23 6926-6951 cut 25' recovered 21' being 5' sd, v f to f g, very hard, well consolidated, silty tight, sli calc., tight to very tight tr to light stain and cut, good fluor and odor. 1' Dolo, tan, dense, xln, very foss., no poro, tr spotted dull fluor and cut. 9' sd, v f-f g silty, hard, tight, sli calc w/bottom foot sli argill, tr. poro, fair stain, good fluor, cut and odor. 1' Dolo tan v f xln, very dense and hard with sli sandy zones included, no poro, no show. 5' sd, v f-m f g, very tight, very silty, very hard w/zones of very Dolo sd throughout, no poro, tr dull fluor and cut. 4' not recovered, core lost.

Poor 2° dip @6942 in sd, w/scat dolo strks.

DST #9 6913-6951 open 1 hr. Rec. 60' mud (28,000 PPM cl) normal drlg fluid tstd (22,000 PP M cl) FP 20-45

15 SIP 70

Diamond Core #24 6951-6983 cut 32' recovered 25' being $\frac{1}{2}$ ' sd, brn, fn grained, calc, hard, tight, silty, no poro, light gold fluor, light odor, tr cut; 1' sh, blk, dense, sub-nit, sli calc, no poro, no show. 1 $\frac{1}{2}$ ' sd, brn, fn grained, hard, tight silty to sli calc, no poro, no show, 4' Ls, brn, coarse, xln, hard, dense, v foss, w/bottom foot frac and bleeding oil. sil poro in frac, excellent stain, fluor, cut

Diamond Core #24 and odor in frac. 1' sd, blk, dense, sli frac. w/ no show in frac. no poro, no show. 1' Ls brn, dense, xln, foss, well frac, bleeding yellow-green oil from frac and scat PP poro., Light poro excellent scat stain, fluor, cut and odor. 8' sh, blk, dense hard w/ scat zones very limey, xln, no poro, no show. 8' Ls drk brn, dns, mass, small cobbled, w/brn, sub xln to very shaley Ls, well frac to broken, w/conchoidal frac, traces secondary calc in frac, very scat spotted show in frac or xln calc zone., sli poro in frac., tr scat stain, fluor, cut and odor. 7' Lost core.

NOTE: From 6973-74 (1') showed a very good, large vug, with several smaller vugs, there was good xln growth in the vugs, as well as a very heavy dead oil stain. The largest vug was 3/4" across w/one calcite xln 1/4" long.

Poor 2° dip 6951-67 in sd and shale

DST #10 6952-6983 open 1 hr. Recovered 5' uncut drilling mud.
FP 30 15 SIP 30

Diamond Core #25 6983-6994 cut 11' recovered 6 1/2' being lime, dns, drk brn-gry, massive, sub xln, well broken, frac. 6988-89 one thin show in frac. 4 1/2' lost core no poro, tr stain, fluor and cut. No dip recognized.

Diamond Core #26 6994-6996 cut 2' recovered 1' being limestone, drk brn, sub xln, very dns and hard w/conchoidal frac and numerous small frac filled w/coarse xln Ls. Bottom 3" of core contained several shale fragments, no poro. Light stain, fluor and cut in frac, tr. stain in frac. No dip recognized.

Diamond Core #27 8059-8084 cut 25' recovered 25' being 7' sd, gry, v f. silty, very sli calc, w/uniform very thin sh, lamin about 1/16" apart very tight poro, tr. scat fluor in lamin, tr. odor. 7' sd, gry, v f g, silty, limey, w/sh lamin as above. very tight poro, no show. 4' sh, blk, w/thin sd lamin and sd frag very tight poro, no show. 7' sh, black, no poro, no show.

Good to fair 2° dip 8059-84 in sd w/sh lamin.

DST #11 8015-8084 open 45" Rec. 55' of uncut mud (2200 PP M cl)
FP 60 15 SIP 60

Diamond Core #28 8880-8903 1/2 cut 23 1/2 feet recovered 23 1/2 feet being 8' sd, gry, v f g, sli calc., shaley, silty and mica, no poro, light spotted fluor and cut, excellent odor; 5' sd as above w/paper thin sh laminations about 1/16" apart. no poro, tr stain, light spotted fluor and cut; good odor. 1' sd as above only very shaley, no poro, no stain light spotted fluor and cut, fair odor. 1' sd and sh, very thinly laminated, no poro, no show. 1' sd, drk gry, quartzitic w/thin sh laminations, very tight, no show. 1' blk sh, very tight no show. 1' sd, drk gry, quartzitic w/thin sh laminations, bleeding oil, very tight good fluor in shale lamin., good cut, light odor. 2' sd, tan, f g., limey and shaley, w/vert frac. bleeding oil very tight, good spotted fluor, excellent spotted fluor, cut and odor. 1' blk shale, very tight no show. 1' blk, limey shale, very tight, no show. 1 1/2' lime, blk, fn to med xln, very shaley, very dense, no poro, no show. Good 2° dip 8880-8900 in sand w/sh laminations.

DST #12 8827-8903 1/2 open 2 hrs 30 min. Rec. 1100' gas in drill pipe, 380' sli g & OCM (oil was light green and appeared to be very high gravity)
FP 200-200 15 SIP 270

Diamond Core #29 8913-8915 cut 2' and recovered 2' being 1' sd, drk gry, v f g to silty, very shaley dirty and hard, very tight, fair cut and light odor. 1' lime, drk brown, dns, hard, sub-xln to very shaley, no show. no poro, no show. (No dip recognized)

Diamond Core #30 10,107-10,132 cut 25' recovered 25' being 4' sd, cl to light gry, sli calc, v f to f grained silty, very hard, well cemented, sd-siliceous, very tight, no stain, light scat fluor., cut and odor 2' sd, v f g, gry, tight as above, w/thin sh lamin, well frac, both horizontal and vertical, very tight, light scat stain and fluor. cut and odor. 2' sd, light gry, v f g, sli calc, silty, hard as above, v very tight, no stain, light scat fluor, cut and odor. 2' sd, drk gry v f g, silty, very shaley, no poro or stain, tr. scat fluor, cut and odor. 3' sd, gry, v f g, hard, silty, tight siliceous. (had wet look but not bleeding water) no poro, no show. 10 1/4' sand, gry, very tight and shaley, silty, sli calc, no poro, no show. 1' sd, gry, v f grain-ed quartzitic, no poro, no show. 1/2' shale, drk gry, very sdy, sli laminated, w/very thin sd streaks, no poro, no show.

Diamond Core #30 (No dip recognized.)

DST 10,081-10,132 2018' WB open 1 hr. Rec. WB plus 10' mud.
FP 930-930 15 SIP 930

Diamond Core #31 10,160-208 cut 49' recovered 48' being 5' sd, gry, f g, very hard, sli calc, silty, sli quartzitic, bleeding salt water, very tight, no show. 1' sd, as above, w/sli scat show, very tight, no stain, tr. scat fluor, cut and odor. 3' sd as above, no poro, no show. 4' sd, gry, f g, calc to silty (sd is softer than above) no poro, tr. stain, fluor, cut and odor. 6' sd, grv, v f g, hard, calc, w/traces of blk carb, residue, sli shows in horiz bedding planes where shale is concentrated (bottom 2' has calc filled vert frac.) no poro, very, sli scat fluor, cut and odor. 4' sh, drk brn to blk, silty, calc, no poro, no show. 18' sh, as above, very silty to sli sdy and limey, no poro, no show. 4' sh, blk dns; no poro, no show. 1' sd, v f g, gry to brn calc, very silty and sli shaley, no poro, no show. 1' blk shale no poro no show. 1' Limes, brn, xln, dns (bleeding slightly) (oil is light green) very tight, tr. stain fluor, cut and odor. (Good to poor 30 dip 10,160-208 in sd and sh)

Diamond Core #32 10,208-10,258 cut 50' feet, recovered 50' being 4' shale, very limey and sli sdy, drk gry, sli lamin no show. 3' sh, drk gry, finely lamin w/silty gry sh no show. 3' shale, gry and blk silty to sdy lamin no show. 4' blk shale, no show. 2' sd, drk gry, finely lamin, w/silt., no show. 1' Limes, grv, finely xln, dns, no poro, no show. 4' Limes, gry, finely xln, thinly lamin w/sh. no poro no show. 7' sh, drk gry to grv finely lamin, w/silty lime no poro no show. 1' lime, gry, silty w/thin sh lamin, no poro, no show. 6' lime, gry, finely xln, silty, dense no poro, tr. fluor and odor. 3' Lime, finely xln, gry brn, dns, no poro, tr. fluor, good odor. 3' lime, finely xln, very shaley, gry to blk, no poro no show. 9' blk sh, no show

NOTE: No fractures found in this core
(Good 30 dip 10,208-258 in shale, w/lime streaks and sd and bedding planes.)

DST #14 10,248-10,405 2022 WB open 1 hr 8 min. Rec. 702' uncut WB, 1274 sli GCMB, 140' sli GCM, 30' sli G & CCM
FP 900-900 15 SIP 1035

Diamond Core #33 10,405-10,455 cut 50' recovered 50' being 3' sd, brn, v f g, very shaley, sli calc, and silty, very tight, light odor. 4' sd as above, w/numerous thin sh lamin no poro, light odor. 3' sd, as above, w/a few thin sub xln lime streaks, no poro, light odor. 5' sh, blk, w/one near vert very thin fracture filled w/calc. no poro, 1 light odor. 3' sd, blk calc, w/very thin streaks of subxln Ls no poro, sli odor. 18' Lime & Shale, heterogeneously mixed, lime coarse xln, very foss, w/occasional sil and pyritic Ls nodules. sh, slickensides found @10,433-10435 no poro, sli odor. 1' sd, gry to brn, v f g, very shaley, calc., very tight, sli odor. 9' sh, blk sli calc, w/occasional, very thin strks sub xln Ls., no poro, sli odor. 3' Lime, drk brn to blk, sub-xln to coarse xln, very foss and shaley, w/top 1' having calc, filled vert frac., no poro, sli odor. 1' sd, gry to tan, v f g very shaley, calc and silty. very dense sli odor.
NOTE: Entire core has light sweet gas bleeding from it.
(Good 30 dip 10,405-10,423 in sh and sd.)

Diamond Core #34 10,455-10,505 cut 50' recovered 50' being 1' sh, drk gry to brn, sdy, micaceous, no poro sli odor. 5' sh, blk sli micaceous no poro, sli odor. 10' sd, drk gry to brn, extremely shaley, sli calc, v f g, no poro, sli odor. 19' sh, drk gry to blk, sli calc. no poro, sli odor. 14' sh, drk gry to blk, limey, sli silty to sandy, no poro, sli odor.
NOTE: 1. No frac 2. very sli bleeding of gas 10,493-502
(Poor 50 dip 10,455-505 in sh and sd bedding planes.)

Diamond Core #35 10,519 to 10,559 cut 40' recovered 40' being 1 1/2' blk sh, no show. 2 1/2' lime, brn fn xln, dns, w/vert partly filled frac w/tr. bleeding in frac., fair PP, tr. vuggy poro and tr. frac poro., tr. stain, fluor cut and sli odor. 13' blk sh, no show. 2' lime, brn fn xln, dns, w/some filled foss molds, very foss., good PP, tr vuggy poro, sli odor. 2' lime, drk gry to brn, dns, foss, w/tr bleeding in frac, horiz and vert, frac., indicated horiz open frac., tr stain and fluor in bleeding spots only, tr. odor. 2' Lime, drk brn fn xln, very foss, good PP poro, tr stain and fluor in bleeding spots only, good odor. 2' Lime, drk brn, fn xln, dns, no poro, no show. 1' sh, blk thin vert, calc filled frac. no poro, no show. 2' Lime and shale, brn

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Diamond Core #35 fn xln dns lime w/wavey layers of blk sh, no poro, no show. 3' sh, blk, w/a few scat, limey pieces, thin tight vert frac good bleeding (1") from bedding planes, no poro tr fluor in bleeding spots only. 3' sh, blk, conglomeritic w/small brn lime pieces, very foss. no poro, tr scat fluor in bleeding spots only. 3' conglomerate, blk shale matrix, lm cobbles, very foss (crinoids) no poro, 4' blk sh, no show.

NOTE: Fluorescence: found only on bleeding spots. (sweet odor)

Fossils: Brachiopods, pelecypods and crinoid stems, no definite fusulinids.

(Poor to fair 2° dip 10,619-644 in shale and lime, poor 12° dip 10,644 10,646 in shale and lime.)

DST #15 10,599-10,559 2700' WB, open 3 hrs, no gas to surface during the three hrs that the tool was open but come to the surface 28 min. after the tool was closed to take shut-in press. Rec. 7663' gas in drill pipe, 2780' GC and sli dist cut WB, 120' sli GC and sli dest CM FP 1210-1295 30 SIP 3360

Diamond Core #36 10,663-10,713 cut 50' and recovered 50' being 21' sh, blk w/multiple tight very thin calc filled vert. frac., no poro, no show. 5' Lime, drk gry, fn xln to dense. no poro no show except sli odor. 16' shale, black as above. no show 4' sh, drk gry as above no show. 4' sh, blk as above no show.

NOTE Entire core had traces of fluor on exterior, but none on the interior, traces from mud.

Good to poor 15° dip 10,663-705 in shale (bedding planes.)

Good 26° dip 10,705-709 in shale, green and blk lam.

Good 75° dip 10,709-710 in shale, green and blk lam.

Fair 15° dip 10,710-712 in shale w/shaley silty lam.

Diamond Core #37 11,832-11,846 cut 14' feet and recovered 7' being 3' limestone, brn, dns, fn xln to sub xln no poro, no show. 1/2' shale, blk, flakey, micaceous, sli silty w/tr of gilsonite residue, no poro, no show. 1 1/2' chert, light gry tan, glauconitic, w/sli greenish tint, no poro, no show. 2' shale, greenish gry, glauconitic, soft to hard flakey, sli bentonitic, sli micaceous w/few scat lime and chert nodules in bottom 1/2 foot. no poro, no show.

NOTE: Hair line vert frac from 35 1/2 to 37, poor indications of 2° dip in shale at 11,836 and 11,838.

Diamond Core #38 11,956-11,981 cut 25' recovered 24' being 1' sd, cl, very large grained, w/sub angular to rounded w/calc cement and a small amount of scat gvo material, micaceous, no poro, tr cut and good odor. 3' Lime, tan, sub-xln, very dns, w/conch fractures on fresh break. no poro, no show. 1' Limes as above w/scat strks of shale w/slickensides in the shale, sli limey, w/tr of gilsonite or lignite, no poro, no show. 4' lime, tan to brn, sub-xln very dns, w/conch frac on fresh break, no poro, no show. 5' Lime, as above w/scat sh streaks (very small) limey w/some glauc, no poro, no show. 1' shale, blk, limey and very glauconitic, w/a few scat lime strks. no poro, no show. 1' Lime, drk brn, sub xln, w/thin scat shale strks, lime, sli foss, very dns, no poro, no show. 4' Lime, drk, brn to blk, fn-med xln very dns foss. no poro, no show. 4' sh, blk, sli limey w/strks of very soft blk sh no show. 1' lost core.

NOTE: Poor 35° dip (11,960-961 sh and ls strks,

Poor 30° dip (11,970-971) sh, bedding planes.

Poor 30° dip (11,976-980) sh bedding planes.

DST #16 11,936-11,981 4000' WB, open 4 hrs. WBTS 1 hr. 29 min. g 1' hr 49 min. gu. 3,810 MCFGPD, dropped sharply for 2 hrs and leveled off at 1,000 MCFGPD Rec. 2112' HG & MCVB, no oil or distillate. FP 1525-765 45 SIP 5755.

Diamond Core #39 12,254-12,304 cut 50' recovered 50' being 1 1/2' lime, brn, dns, med xln, to coarsely xln, frac, vert. open, no poro except open frac. no show. 3 1/2' lime, brn, dns, oolitic w/large oolites (good calc xln lined frac w/inter xln poro) no poro except open frac. no show 4' lime, brn, very dns, xln w/scat oolites. no poro except open frac. no show. 1' lime, drk brn, very dns, sub xln, foss no poro, sli sour odor. 13 1/2' limestone drk brn, very dns, conc. frac, massive to sub xln, w/occasional scat sh partings, foss, no poro, sli sour odor. 2 1/2' sh, blk, w/scat thin strks of brn, sdy ls, dns, fn xln w/tr scat glauconite no poro no show. 4' lime, brn, dns to massive, sub xln. no poro no show. 4' lime, as above to coarse xln, no poro. no show. 13' lime, brn, v dns, massive to sub xln no poro, no show. 1' sh, light tan, soft, bentonitic, no poro no show. 1 1/2' sh and lime, thin lam blk sh w/brn xln sdy glauc ls. no poro, no show. 1/2' shale, drk gry to blk,

Diamond Core #39 splintery no poro no show.

NOTE: open vert frac from 12,254-261 very poor indication of 13° dip @ 12264 to flat dip @ 12,301.

Diamond Core #40 12,314-12,337 cut 23' recovered 19' being 4' sh, blk w/v thin coarse grained clear sand lamin and occasional lime lamin. no poro, no show. 10' sh, blk, w/occasional very thin pyritic lime lamin no poro, no show. 2' lime, tan, fn-med xln, very shaley w/lt med-crs xln, sli foss and glauconitic w/scat Qtz grains, sli oolitic. no poro, no show. 1' lime, brn, crs xln, sli fossil and oolitic w/1" sh strks in middle and sub xln lime bottom 3" no poro, no show. 4' lost core. NOTE: Fair 8° dip in shale bedding planes.

DST #17 12,231-12,337 4700' WB open 5 hrs, g 2 hrs 36 min gu. 60 MCF GPD decreased to TSTM at end of test Rec. 4982' GCVB (unloaded after breaking off each stand) 240' C & MCVB 120' G & WCM
FP 2200-2200 30 SIP 4630'

Diamond Core #41 12,734-12,768 cut 34' recovered 33' being 1' lime, drk brn, med to crs xln, very dns, sli sdy and oolitic, very dns poro, no show. 2' sd, light gry to white, v f g, very limey and glauconitic and micaceous, very tight poro, no show. 4' lime drk brn, massive, oolitic, sli foss., very dns poro, no show. 1' sd, gry to white, v f g very limey and glauconitic and micaceous, very tight poro, no show. 2' Lime, drk brn, massive, oolitic, sli foss, very dns, no show. 7' sd, lt gry to white, v f g, sli cement w/scat irregular spoolches of gilsonite and pyrite. (appears to be replacement material of plane foss w/3" strks of blk shale @ 12,750, 6.4% ang. poro. sli odor. 10' sd, light tan to clear, large sub-angular to angular quartz grains w/sli cement and very soft gyp material filling pore space w/a few scat gilsonite strks, 8.4% ang poro, fair odor. 6' sand white to light gry, v f g, sli cement w/tr of scat mica and gilsonite and scat paper thin sh and gilsonite strks. 4.8% ang poro, no show. 1' lost core
NOTE: Poor to fair 0° dip 12,761-767, in thin shale and gilsonite partings.

Diamond Core #42 12,768-12,787 cut 19' recovered 19' being 1' sh, drk gry to blk, v sdy and mica, conc frac. no poro, no show. 5' Lime, drk brn to drk gry, massive to med xln, sli oolitic and sdy (large Qtz grains) no poro, no show. 3' Lime, brn, med xln, w/blk oolites, lime is almost pure oolites w/bottom 1' becoming very sdy, no poro, no show. 7½' sd, light gry, v f g, calc, w/numerous paper thin shale lamin and occasional limey strks 8.2% ang poro, sli odor. 1' shale, blk w/strks of sd, w/indicated flowage, no poro, no show. 1½' sd, light gry to white, large Qtz grains sub angular to angular, sli cement, top 1' w/several shale strks, bottom ½' clean sd no poro, no show.
NOTE: one very tight vertical fracture from 12,769-774 and 12,777-784 ½. Fair to poor 1° dip from 12,777-784½ in sh laminations.

Diamond Core #43 12,795-12,845 cut 50' recovered 50' being 42½' sh, drk gry to blk, laminated w/ v f quartzitic sd and sil Ls w/1' brn med xln foss Ls from 12,833-834. Sh is very micaceous in some places grading near slate w/numerous slickensides, both horizontal and 45°, w/scat foss thru out, no poro, no show. 5½' sd, gry to lt tan, fn to med grained, quartzitic, micaceous, no poro, no show. 2' shale, drk gry to blk, almost slate, no poro, no show.
NOTE: fair to good flat dip from 12,795-12,806, good 5° dip from 12,806-12,813, good 9° dip from 12,813-12,845.

Diamond Core #44 12,845-12,892 cut 47' and recovered 47' being 1' sh, blk foss, no show. 1' lime blk to drk brn, med xln, foss, w/scat Qtz grains, sli oolitic, no poro, no show. 1' sd, gry to light tan, v f, tight, w/calc cement, no poro, no show. 2' sh, blk, pyritic, w/thin sd strks, no poro, no show. 4' sd, gry to light tan, fn to coarse grained, mostly large sub angular to angular w/fn sd, filling between large grains, micaceous, sli glauconitic, very tight poro, no show. 13' shale, blk, w/very thin strks of gilsonite and very foss w/plant life, no poro, no show. 9' sh, brn, v sdy, w/very large rounded Qtz grains, no poro, no show. 8' sd, blk, almost slate, w/1' of quartzitic sd @ 12,880, becoming very sdy in bottom foot, no poro, no show. 3' sd, clear to white, med to large grains, sil cement w/a small amount of gyp material, 0-5.6 millidarcies perm. no show. 5' sd, clear to white, very large rounded to sub angular to angular grains, all porous spaces filled w/soft gyp material, sil cement. 10.6 to 22.0 millidarcies, no show.
NOTE: Fair 9-13° dip in shale and sd lamin and shale and gilsonite partings.

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DST #18 12,722-12,892 5000' WB open 3 hrs 30 min. Recovered 3948' uncut WB, 564' sli gc WB, 94' sli g C & MC WB, 282' GC & WCA, 940' GC & HMC brackish water, 1224' brackish water, sli mud cut and sli gas cut (28,000 PPM cl) 90' sli gas cut mud (31,000 PPM cl) FP 2550-3485 30 SIP 5305.

Diamond Core #45 14,358-14,408 cut 50' recovered 48' being 20' dolo, light gry to white fn xln, dns, broken and brecciated, possibly by consolidation; matrix varies from shale to calc sand and sdy lime, several stylolites are also present, fractured secondary xls are all calcite, tr vuggy poro, tr yellow very spotted fluor, no stain, tr. cut, strong sulp odor. 11' shale, black hard, w/large dolo and shale cobbles included. Some shale slickensides, indicated flowage upward into the dolo fractures, no show, strong sulp odor. 17' Dolo, lt gry to white, fn xln, dns, grading to drk brn fn xln, dns, brecciated, fractured, and w/gry dolo cobbles predominate in top to brn dolo cobbles in bottom, gry and brn pieces intermixed over interval, good scattered poro, sulp odor, no show. 2' Lost core.

NOTE: very sli fluor, in frac @ 14,375'.

Dip: very poor 35° dip planes in shale, Dolo- shale contacts irregular, over all data indicates shale flowage.

DST #19 14,341-14,408 6682' WB. open 2 hrs. Recovered WB plus 765' black salty sulp water, sli mud cut (13,750 PPM cl) FP 3180-3480 30 SIP 4800

Diamond Core #46 14,410-14,460 Cut 50' recovered 40' being Dolo, drk brn to brn dns, v f xln to f xln with lt gry dns fn xln dolo matrix secondary calcite in upper part of entire core is brecciated w/ large cobbles, tight poro, sulp odor. no show.

NOTE: Sulphur odor in top 5' of core, no odor in rest of core. No dip recognized.

Diamond Core #47 14,460-14,510 cut 50' recovered 48' being Dolo, drk brn, dns, fn xln, brecciated and frac w/secondary calc fill. Scattered occasional vuggy poro, w/calc xls bottom 6" of core brn, dns, fn xln to sucrose, very vuggy excellent poro.

NOTE: Sulphur odor on fresh break, no apparent dip.

Diamond Core #48 14,510-14,524, cut 14' and recovered 14' being 14' Dolo, drk brn, dns, fn xln, appears to be sli brecciated, frac, w/ calcite filling. tr. vuggy poro in top 2 feet rest of core tight. Tr. sulp odor. no show.

NOTE: a 2 foot section 14,519-4521 appeared to be detrital with brn silty dolomite as a matrix around brn dense fn xln dolo.

Diamond Core #49 14,524-14,561 Cut 37' recovered 37' being 20' dol fn xln, dns, brn, frac, does not appear brecciated, scat stylolites, fractures and vugs well filled w/calcite, scat large vuggy poro, lt sulp odor. 16' Dolo, as above except numerous nearly filled vugs, fu vug filling all calcite, vuggy poro, mostly filled w/calc., sli supl odor. 1' calc., calcite xls only, apparently core barrel stopped in a large filled vug or a large filled fracture., vuggy poro, sli sulp odor. No apparent dip.

Diamond Core #50 14,662-14,612 cut 50' recovered 50' being 10' Dolo, drk brn to gry, dns, fn xln, w/fractures and brecciated appearance, light scat vuggy poro, sulp odor. 10' Dolo, tan, fn xln, and white med xln to coarse xln intermingled, light scat vuggy poro, sulp odor. 12' Dolo, white coarse xln to med xln excellent vuggy poro, sulp odor. 18' Dolo, white and scat tan med to fn xln, light to fair vuggy poro, sulp odor, no apparent dip.

Diamond Core #51 14,612-14,662 Cut 50' recovered 50' being 17' dolo, lt gry, dns fn to med xln, closed fractures to brecciated irregular, w/scat inclusions of brn, fn xln dns dol, good to excellent vuggy por scat fluor in vugs, sli sulp odor. 5' Dolo, as above, w/white, opaque to milky chert inclusions scat good vuggy poro, fluor as above and odor as above. 8' Dolo, as above w/chert as above to white earthy, semi-powdered (weathered) chert, good vuggy poro, fluor and odor as above. 10' Dolo, lt gry, dns, fn xln closed fracturing to med xln. Tr. vuggy poro, fluor and odor as above. 8' Dolo as above w/good to excellent vuggy poro. 2' Dolo as above w/tr vuggy poro, no indicated dip.

NOTE: Fluorescence is due to filtrate from mud which has some fluor.

DST #20 14,571-14,662, 5800' WB. open 2 hrs. steady blow through-out test recovered 5800' uncut water blanket-pipe dry after recovery

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of WB (916' dry pipe). Drill collars underneath packer gave appearance of having been in sulfur water worked 16 min. to close T. C. valve for SIBHP could not close. Found T.C. valve had rotated open to circulating position while coming out of hole, therefore formation fluid recovered was lost.

FP 2665-3075

15 SIP failed

DST #21 14,571-14,662 (re-test) 5800' WB. open 4 hrs Recovered 5612' uncut WB, 188' sli MCWB, 1173' sli MC brackish water. (Top tstd 10,000 PPM cl, middle 12,000 PPMcl and bottom 10,700 PPMcl.) could not close $\frac{1}{2}$ c valve for SIBHP.

FP 2605-3285

30 SIP failed

DST #22 15,454-15,611 5000' WB open 45 min. Rec. WB $\frac{1}{2}$ 40' uncut drilling mud. (2400 PPMcl.) (bottom hole temp 208° F)

FP 2250-2250

15 SIP 2465.

The total depth of 15,611 was reached in 338 days.

Ran. Schl., velocity survey and dip meter. Schl T.D. 15,608.

PB 12,035 w/110 sx cmt.

ran. 7" liner 9192--12,030 w/925 sx cmt. DC 11,991

Perf. w/108 Jet shots 11,944-11971

ran 2" tbg w/pkr @ 11,943.

Swb 4 hrs, and then flowed gas at initial rate of 182 MCFGPD after four hrs gas gu. 226 MCFGPD

after 12 hrs gas gu 236 MCFGPD

PB 6980

Perf w/240

6890-6950

ran tbg to 6889 w/pkr @6758

swb. 1 hr. then flowed 159 BF 12 H being 137 BC $\frac{1}{2}$ 22 B wtr.

1/4" $\frac{1}{2}$ C gas gu. 187 MCFGPD., GOR. 1361/1 37.9 grav. TP 300-350

Sd frac w/3000 gal. (27 sd per. gal.)

I.P. fl 219 BF 24 H 1/4" C/-being 175 BC $\frac{1}{2}$ 44 B wtr. $\frac{1}{2}$ P 250, gas vol. 373 MCFGPD. GOR. 2131/1 completed 9-18-53

fl 170 BF 26 H. 1/4" $\frac{1}{2}$ C being 136 BC $\frac{1}{2}$ 34 BW. GOR. 2190/1 $\frac{1}{2}$ P 200.

fl 143 BF 24 H. 1/4" $\frac{1}{2}$ C being 107 BC $\frac{1}{2}$ 26 B wtr. GOR. 2245/1 $\frac{1}{2}$ P 150-200

fl. 135 BF 24 H 1/4" being 124 BC $\frac{1}{2}$ 11 BV GOR. 2000/1 $\frac{1}{2}$ P 150

Put on intermitter, flowed 50 min, and shut in 70 min.

fl. 38 BF 12 H. 3/8" $\frac{1}{2}$ C being 30 BC $\frac{1}{2}$ 8 B wtr. $\frac{1}{2}$ P flowing 150 SI $\frac{1}{2}$ P 380

flowing 1 1/2 hrs on and 1 1/2 hrs on fl. 33 BF 12 H. 3/8" being 26 BC $\frac{1}{2}$ 7 B wtr. $\frac{1}{2}$ P 25., WI $\frac{1}{2}$ P 450.

Sept. 27, 1953

Flowed 71 B oil plus 17 B wtr. 24 H. 3/8" $\frac{1}{2}$ P 150 SI $\frac{1}{2}$ P 225.

Oct. 4, 1953

fl. 55 B oil plus 15% wtr. 24 H. GOR 1807/1

Oct. 12, 1953

fl 35 BC plus 10 B wtr. 24 H. GOR 2085 $\frac{1}{2}$ P 25 to 200 SI $\frac{1}{2}$ P 350. flowing 20 min and off 40 min.

Oct. 19, 1953

fl. 49 BC plus 12 B wtr. 24 H. flowing 12 min and off 8 min.

Oct. 26, 1953

fl 45 BC $\frac{1}{2}$ 12 BV 24 H. GOR. 1733/1 $\frac{1}{2}$ P 50-150 3/8" $\frac{1}{2}$ C flowing 12 min and off 8 min.

