NEVADA STATE BUREAU OF MINES

Standard Oil of California
SOC County Line Unit #1
C NW NW Sec. 19, 10N-62E
White Pine County, Nevada

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Prod. cement. Occ frag dk gy, tan & cream ls & dolo ls. Brkn clr qtz gns. Occ Rd Brn volc

Prod. ls & dolo ls, dk gy - cream (Paleo - Tert.), Consid. lse brkn clr qtz gns, Occ tan cht, Tr ss, WH, SLI CALC, FN GN, HD, TI, NSOF, Tr TUFF, WH-GRN.

646-656 Incr ss, WH, FN-GN, SLI CALC, HD, TI, NSOF

Prod ls & dolo ls, AB w/ Consid. lse qtz, AB. Tr ss, tuff, & cht, AB

30% Crystal tuff, Grn - WH Grn, xs Bio & Clr Qtz. 70% ls & dolo ls, AB, Tr ss, AB
10% Crystal tuff, AB
5% Crystal tuff, AB

910-940 Consid. Cly

Only Tr tuff

90% VCL ls & dolo ls (Paleo - Tert), 5% Grn crystal tuff w/ xs Qtz & Bio, 5% Lse Qtz xs, Tr Rd Brn Tuff, tan to brn cht frag, & ss, buff, FN GN, SLI CALC, HD - TI, NSOF, MIN FLSNT ONLY. FOSSIL FRAG

Tr Rd Cht
Fossil Frag.

Decrease Grn Tuff & Lse clr Qtz.

SLI INCR SS, AB

1448 30% Grn Crystal tuff

Light Tuff Mbr of Older Volcanic Series

1485 Drlg Break. 90% Tuff, lt grn, crystals of Bio & Clr Qtz and Lse clr qtz gns
10% VCL ls & dolo ls (Paleozoic & Tert.)

80% Crystal tuff, AB
20% VCL ls, AB

90% Crystal tuff, AB
10% VCL ls, AB

1590 - 1595 Crystal tuff Rd Brn in pt.

1% Crystal Tuff, wh, w/ xs Bio & Clr Qtz
5% Crystal Tuff, wh, AB; 90% Crystal Tuff, Grn, AB; 5% VCL ls & dolo ls (Paleozoic & Tert.)

Core #1 1665-75. Prod Lt - m Grn Crystal Tuff w/ xs Bio & Clr Qtz. In pt mott wh, rd brn, rust & pk. Contains Occ ls frag. Min FLSNT ONLY.

1710-60 Crystal Tuff, dk gy w/ xs Bio & Clr Qtz

1750 40% Crystal tuff, wh, w/ xs Bio & Clr Qtz;
1780 Volcanic ss (?); 25% Crystal tuff, wh, AB, 65% Crystal tuff, MOTT, 10% Crystal tuff, dk gy, AB
Tr VCL ls, AB. Tuff particles are uniform & s-rnd
3% Crystal tuff, wh, AB, 97% Crystal tuff, Mott, AB, Tr dk gy Crystal tuff & VCL ls, AB

1810-40 Tr SS, Wh, FN GN, BENT, CALC, NSOF

Volcanic ss composed 45% tuff, wh, AB, 35% Clr Qtz, 20% VCL Tuffs, AB, Tr tan-cream ls

Increase Wh tuff 1970-2000

Wh tuff taking on greenish tint
2040-2080 Volcanic ss composed almost entirely of Lt Grn tuff w/ xs Bio & Clr Qtz.

Note: Rd Coloration due to chemicals added

Top Upper Conglomerate
Schlumberger 2062 Lith Log 2120

2120 DK Gy Claystone, BENT IN PT, CALC IN PT, Gritty
Note: This cannot be seen to any great extent in dry samples. Apparently washed out.

DK Gy Claystone, AB

Upper Conglomerate Mbr - Railroad Valley Fm

2295 Conglomerate - Composed of 90% dk gy ls Cobs (Paleozoic), 5% tan - cream ls Cobs (Tert.), both a to s-a, in a Rd to Or grit matrix. Min FLSNT ONLY.

Cores #2 & #3 from 2327-36 Conglomerate as described above

Tr ss, wh - tan, FN GN, SLI CALC, NSOF; Tr Lse clr qtz.

Top Marlstone
Schlumberger 2375 Lith Log 2400

Samples poor. Poss fault or poss top of shale unit. Wet samples would tend to place Congl - sh contact at 2400.

2435 20% Sh, v lt tan, Bent, Mic, w/ occ gn ls, 80% VCL ls (Paleo & Tert.)

50% Lt tan sh, AB

95% Lt tan sh, AB

90% Lt tan sh, AB, 10% VCL ls, AB; Tr ss, wh, AB

90% Lt tan sh, V Bent, Sli Calc w/ occ Bio x; 10% VCL ls (Paleo & Tert), Tr DK Gy & Tuff w/ Clr Qtz & Bio
Tr Rd Cht & Lse Clr Qtz.
40% Med tan sh, Bent, Calc

95% Ls, cream to lt tan, litho, ... 1% Brn cht, 4% Sh, Lt Grn, Bent, sl. calc, Tr lt grn & tuff w/ Clr Qtz & Bio
30% Ls, AB, 1% Brn Cht, 49% Sh, Lt Grn, AB

50% Ls, AB, 50% Sh, Lt Grn, AB, Tr Cht, Ostracods
60% Ls, AB, 40% Sh, Lt Grn, AB, Tr Brn to dk gy cht
75% Ls, AB, 25% Sh, Lt Grn, AB, Tr Brn Cht
10% Sh, Lt Grn, AB

2695 70% Ls, AB; 10% Sh, Lt Grn, AB; 10% wh Cht.

50% wh Cht; 40% Ls, AB; 10% Sh, Lt Grn, AB
2725 55% Ls, lt tan to cream, litho, ...; 25% wh Cht; 20% Sh, Lt Grn, AB; Tr Volc Tuff, Paleo ls, & Lse Qtz Gns
75% Ls, AB; 25% Sh, AB; Tr wh Cht
90% Ls, AB; 10% Sh, AB; Tr Volc Tuff, Paleo ls, & Lse Qtz Gns

2755 - Chalky cream ls, litho, ...
2765 - 50% Med tan ls, litho; 40% Chalky cream ls, litho; 10% Cht, Lse Clr Qtz & Lt Grn Sh
2775 - 30% Med tan mlst, AB; 60% cream ls, AB; 10% Misc, AB

60% Chalky cream mlst, litho; 20% Tan siliceous ls & dolo ls, hard, dense; 10% VCL Sh, 5% wh Cht, 5% Misc Tuffs, Lse Qtz Gns, Tr Sh, Or, Bent

MARLSTONE UNIT of RAILROAD VALLEY FM

95% Chalky cream mlst, litho, 4% Lt Grn sh, AB, 1% Tan siliceous ls & dolo ls, hard, dense, Tr tan cht.
2840-50 Incr tan cht content

30% Pseudo-oolitic ls, Gy
50% Pseudo-oolitic ls, Gy
30% Pseudo-oolitic ls, Gy

100% Tan Chalky, litho mlst, Tr Blk Cht.
w/ Blk Asphalt Specks - Light Cut & FLSNT
MLST BCM V ARGL
2945-50 20% DK Gy Sh, Calc. Drlg brk 2948-54 - Prob sh bed
Tr tan dolo & dk gy cht

Tan, chalky, litho mlst w/ Blk Asphalt Specks - Lt. Cut & FLSNT

10% DK tan to DK Gy Cht, 90% Lt tan to Lt Gy MLST, AB w/ some tan, fnly x ls - dolo ls
Tr tan cht
90% MLST, AB; 10% Lt Grn sh, AB

100% MLST, AB

2% Tan ls to dolo ls, hd, dense crypto-x
20% Tan ls to dolo ls, AB
99% Lt Gy to Med Gy MLST, Chalky, Litho; 1% Tan ls to dolo ls AB
100% MLST, AB w/ Calcite stringers & Asphaltic specks. Lt cut & FLSNT

50% Chalky tan MLST, 50% Gy chalky MLST, AB 3165-70 Tr DK Gy Cht

100% Lt tan, chalky MLST, siliceous. Tr tan ls, hd, dense, crypto-x

20% Lt - M Gy MLST; 80% Lt tan, chalky MLST to siliceous MLST
50% Lt Gy - M Gy Chalky MLST grading into almost a Carb sh; 50% Lt tan chalky MLST

50% Lt gy, FNLY X LS; 50% Lt tan Chalky, MLST, Tr Blk Carb Sh
90% Lt gy - Lt tan MLST, Chalky; 10% Lt gy, FNLY X LS, Tr Blk Carb Sh

60% Med gy - Med tan, FNLY X LS; 40% Lt gy - Lt tan MLST, AB; Tr Blk Carb Sh
Tr Med gy - Med tan Ls, AB; 98% Lt gy - Med gy MLST; Chalky; 2% Blk Carb Sh
40% Siliceous Med Brn Dolo; 60% MLST, AB; Tr Blk Carb Sh w/ Occ Pyr.
Sample N6 - Made a trip
80% Lt tan - M Gy MLST, Chalky; 20% Lt Gy, FNLY X LS; Tr Blk Carb Sh
85% MLST, AB; 15% X Ls, AB; Tr Blk Sh, AB
100% MLST, AB; Tr Blk Cht & Ls, AB
40% MLST, AB; 60% Crypto-X to FNLY X, M - DK Brn Ls to Dolo Ls; Numerous Individual Calc X
50% MLST, AB; 50% Ls to Dolo Ls, AB; Tr Blk Carb Sh

100% Lt Gy to tan MLST, Chalky

40% Siliceous Brn Ls to Dolo Ls, Crypto X, Argil; 60% Gy MLST, AB
60% Ls to Dolo Ls, AB; 40% MLST, AB; Tr Blk Carb Sh, Ostracods; Questionable Cut & Yel FLSNT
50% Ls to Dolo Ls, AB; 50% MLST, AB; Tr Blk Carb Sh, Ostracods; Questionable Cut & Yel FLSNT
95% Lt Gy - tan, Chalky MLST; 5% Ls to Dolo Ls, AB
20% MLST, AB; 80% Ls to Dolo Ls, AB
100% Tan - M Gy MLST, Chalky, Litho

1% Blk Carb Sh, fissile
5% Blk Carb Sh, fissile Drlg Brk 3456-70
Strong Tr Blk Sh

Tr Blk Sh
10% wh, soft, non-X Gyp (?) - Poss wh Cly, Containing Frag of MLST & Intbd w/ Gy MLST; Tr Blk Carb Sh
1% wh, Gyp, AB
100% tan - Med Gy MLST, Chalky, Litho; Strong Tr Gyp; Tr Blk Carb Sh
50% Tan Ls, FNLY X to Litho, Argil w/ Abd Ostr; 50% MLST, AB
100% MLST, AB; Tr Ostr Ls, AB; Tr Gyp, AB; Tr Calcite
100% MLST, AB
10% Tan ls to dolo ls, hard, dense
100% MLST, AB
Tr Blk Carb Sh 3585 MLST BCM V CARB
40% Blk Carb Sh; Tr Rd Brn SLTST, Sli Calc; 60% MLST, AB; Med Brn O Stn on Tan MLST, Heavy Cut Bluish - Yel FLSNT Top of SLTST UNIT PROB at 3590-95

Core #4 3608-09 Intbd Med Gy, Calc, SLTST & Blk, Sli Calc, Carb sh Good dip 17-20°; 3609-10 FN PBL CGL, Lt - Med Gy, Calc SLTY MTX. 3610-14 Thinly Bdd tan - lt gy MLST & DK Gy Carb MLST. DK Gy MLST Contains tiny Vugs filled w/ H Brn Oil giving pale cut & Bluish - Yel FLSNT. Occ spot, rare, blk oil. Excellent dip of 19° ... Blk Carb Sh, ... 3626 Tan - Lt Gy SLTST, Poss dolo, w/ Minor Carb Sh ... Min FLSNT only

90% MLST, ... 4% SLTST, ... Calc, Tr ls, tan, Crypto X, ... Blk Carb Sh
75% MLST, AB, Pt OSTRA, 25% Cly, wh, BENT INTBD w/ & CONTAINING FRAGS OF MLST, Tr SLTST, AB
Tr Blk Carb Sh
50% Lt Gy - wh Cht @ 3658; 50% MLST, AB, Tr wh Cly, AB

5% wh - Tan Cht, 45% wh Cly, AB; 50% MLST, AB
98% MLST, AB; 2% wh Cly, AB; Tr Blk Carb Sh; 60% Spotty O Stn on MLST (?) - Dolo ls (?), Yel Cut FLSNT, Pale Cut.
100% MLST, AB
100% SLTST, Lt tan - Lt Gy, Calc
100% MLST, Lt tan - Gy

T/ Sandstone Unit @ 3700

Top Sandstone
Schlumberger 3693 Lith log 3700

65% SLTST, Med Gy - Tan, Calc, 15% MLST, DK Gy, Calc, 10% Clyst, wh, Bent, 5% MLST, Tan - Pale Or; 5% Lr Qtz X (Up hole)

70% SLTST, Lt - Med Gy, Calc, Blk FLKS, 10% MLST, AB, 15% Contamination (Qtz & wh Bent Cly)
75% SLTST, AB, 10% MLST, AB, 15% Contam.
80% SLTST, AB, 5% MLST, AB, 15% Contam.

80% SLTST, AB, 5% SS, Lt Gy, V FN GN; Remainder Contamination
75% SLTST, AB; 10% SS, AB; Tr MLST, AB
70% SLTST, AB; 5% SS, AB; 10% MLST, AB

60% SLTST, AB; 10% SS, AB; 10% MLST, AB
65% SLTST, AB; 5% SS, AB; 10% MLST, AB
60% MLST, DK Gy to Blk, WHY CALC, 20% SLTST, Lt Gy, Calc; Tr SS, AB
60% MLST, AB; 20% SLTST, AB; Tr SS, AB
50% MLST, AB; 50% SLTST, AB; Tr SS, AB

Core #5 3858-3885 Pred MLST, Lt tan Gy to DK Gy, CALC, SLTY IN PT, COM CARB SPECS, FETID ODOR, DIPS 10-25°, ...

Core #6 ...
Core #7 ...
Core #8 3907-3964 ...

INTBD MLST; 90% DK Gy, 10% BRN YEL, BOTH CALC
INTBD SLTST (70%), LT Gy, CALC, & MLST (30%), DK Gy, CALC 3974-86 PALE YEL FLSNT ON SLTST, V WHK YEL BLUE CUT FLSNT ON PT
10% LT GY SLTST, AB; 90% DK GY MLST, AB
80% SLTST, AB, 10% YEL-BRN MLST, AB; 10% DK GY MLST, AB
PRED MLST, BLK - DK GY, CALC, MINOR GY SLTST, AB

30% MED LT GY SLTST, CALC, REMAINDER MLST, AB
20% SLTST, AB, Remainder MLST, AB; Tr tan, dense, ls
MED BRN OIL STAIN ON BRN TAN SH AS IN CORE #8 - POSS FROM CAVINGS
30% SLTST, AB; REMAIN MLST
70% LS, ...; BLK MLST 15%, AB, LT GY SLTST 10%, AB
30% LS, AB; 30% MLST, AB, 40% SLTST, AB
20% LS, AB, 30% MLST, AB, 20% SLTST, AB, 10% ... BLK ... SH w/ MED BRN OIL STAIN
10% LS, AB, 30% MLST, AB, 50% SLTST, AB, 5% SH, AB
Reverse Drlg Brk @ 4064 Change to lt ... ls, tan, ... , fair cut & bright yel cut flsnt

Top Limestone
Schlumberger 4060 Lith log 4064

Top Limestone Mbr - 4064'

Core #9 4069-4089 ...

90% LT TAN - DK GY LS to DOLO LS, FNLY X to CRYPTO X, PT OSTRA, PT ARGIL, HD, DNSE, PT VEINKCUOS, OCC DK BRN O STN GIVING YEL FLSNT & YEL CUT FLSNT; 10% MLST TO SH, DK GY, CALC; SOME CONTAMINATION

5% MLST, AB, 95% LS to DOLO LS, AB

50% MLST, AB
70% MLST, AB
80% MLST, AB
100% MLST, AB

20% DK GY LS, V ARGIL, CRYPTO X; 80% MLST, AB
50% LS, AB, PT OSTRA, 50% MLST, AB
90% LT to Med Gy MLST to SH, CALC, ...; 10% LS to DOLO LS, AB

100% MLST to SH, AB

5% DK GY LS, V ARGIL, DNSE, CRYPTO X
100% MLST to SH, AB; Tr LS, AB

50% LT TAN DOLO, HD, DNSE, CRYPTO X, OCC BLK CARB SPEC; 50% MLST, AB
80% DOLO, AB, 20% MLST, AB; 1% ... CUT, YEL FLSNT, ... YEL CUT FLSNT
60% DOLO, AB, 40% MLST to SH, AB
40% DOLO, AB, 60% MLST to SH, AB

50% Dolo ls, Lt tan, DNSE, HD, CRYPTO X; 50% MLST to SH, AB
90% Dolo ls, AB to WH Chalky LS, SOFT, LITHO, OCC OSTRA; 10% MLST to SH, AB
100% LT TAN CHALKY LS, SOFT, LITHO

10% DK GY MLST to SH, CALC; Sample highly Contam.

100% LS, LT TAN, HD, DNSE, CRYPTO-X. SAMPLE V POOR

Note: This may be a ls Congl in part or totally

Top Basal Congl
Schlumberger 4430'

Top Basal Congl @ 4430

Core #10 Congl. Lt & Med Gy to Tan & Brn ls to Dolo Pbls, Poorly Sort, Crypto X to Fnly X; Some pbls w/ OSTRA, others w/ CRINOID stems. Secondary Calc stringers prevalent. All in matrix Lt Gy to Lt Gy Grn Calc Silty & Lt Gy ls Pbls & Pebs - END

Ls to Dolo ls, Tan & Brn to Lt & Med Gy, HD, Dense, Crypto-X to Fnly X, Pt Sl. Argil

Top Paleozoic @ 4445

Top Paleozoic
Schlumberger 4445'

Strong Tr Milky wh to Gy wh Cht

Core #11 LT - MED GY LS, PT ARGIL, HD, DNSE, CRYPTO-X W/ ALTERNATING DISTURBED ZONES & DKER UNDISTURBED ZONES. SEC CALC STRINGERS & FEW V ARGIL BANDS. OCC CALC FILLED VUG. BANDS FR 1"-10". DIP 27°. NOSCF

LT GY & BRN LS TO DOLO LS, HD, DNSE, CRYPTO-X, CHTY, PT SLTY, PT SH

Rare unidentifiable Foss frags
TR LS, CASE GN, LT TAN to GY

20% LS, CASE GN, AB
10% CASE GN LS, AB
OCC UNIDENTIFIABLE FOSS FRAG IN CASE GN LS, AB; STRONG TR LT GY, CHLK, SLTST

Core #12 ... WH LNSES & BLEBS OF SILIC, LOC CALC ... IN LT - MED GY & TAN LS. FNLY XLN, DNSE, LOC HVY ACCUM PYR ALONG BDG PLANES & FRACS. ABD FOSS. NOSCF

TR CHT W/ SPONGE SPICULES

Core #13 & 14 LT GY LS, HD, DNSE, CRYPTO-X W/ IRREG BLEBS & LNSES OF MED to DK GY CHT SUB-PARALLEL. CALC FILLED FRACS. LOC ACCUM PYR ALONG BDG PLANES. UNIDENTIFIABLE FOSS FRAGS. DIP 32°±

TD 4850 Feet Abandoned August 28, 1957

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