

STA-TSX OIL COMPANY'S

RUSSELL # 1

MALHEUR COUNTY, OREGON

LOCATION OF RUSSELL # 1

The location of Russell # 1 is 330' south of the north line, 330' east of the west line of the SW 1/4, NW 1/4, Section 14, Township 19 South, Range 44 East, Malheur County, Oregon.

ELEVATION

Ground Level.....2290.07'
Lerrick Floor.....2294.15'
Kelly Bushing.....2296.77'

SURFACE CASING RECORD

216' of 10 3/4" casing.
Larkin Float Shoe.
138 sacks of cement.

SPUNDED

June 11, 1954

<u>Footage</u>	<u>Lithology</u>
0' -40'	Gravel, Shale
40' -50'	Shale
50' -71'	Shale
71' -76'	Sand
76' -98'	Shale
98' -100'	Sand
100' -113'	Shale
113' -118'	Shale
118' -120'	Shale
120' -126'	Sand, Shale
126' -187'	Sand
187' -232'	Shale
232' -318'	Shale(Lost circulation)
318' -380'	Shale
380' -430'	Sticky shale
430' -510'	Soft shale
510' -652'	Soft shale
652' -765'	Shale and sand(lost circulation)
765' -824'	Sandy shale
824' -915'	Shale
915' -932'	Sandy shale
932' -1312'	Shale

FootageLithology

1312'-1351'	Sandy shale
1351'-1399'	Shale and sand
1399'-1459'	Shale and bentonite
1459'-1490'	Shale and bentonite
1490'-1520'	Shale and lime
1520'-1555'	Hard sand
1555'-1576'	Hard sand and red shale
1576'-1645'	Hard streaks and sticky shale
1645'-1675'	Red shale
1675'-1694'	Shale
1694'-1727'	Shale
1727'-1728'	Shale and lime
1728'-1750'	Shale
1750'-1765'	Soft sand
1765'-1781'	Soft sand
1781'-1808'	Soft sand
1808'-1940'	Soft sand and shale
1940'-2000'	Dolomite
2000'-2010'	Shale
2010'-2026'	Shale
2026'-2030'	Sand
2030'-2083'	Shale and sand
2083'-2165'	Shale and sand
2165'-2196'	Shale
2196'-2215'	Shale and lime
2215'-2246'	Hard sand
2246'-2285'	Shale and sand
2285'	Core
2285'-2289'	Shale
2289'-2572'	Sand and shale
2572'-2660'	Sand and shale
2660'-2679'	Shale
2679'-2686'	Lime shell
2686'-2794'	Sand and shale
2794'-2809'	Shale and Basalt
2809'-2811'	Basalt
2811'-3018'	Sand and shale
3018'-3094'	Shale
3094'-3118'	Sand and shale
3118'-3329'	Shale
3329'-3397'	Sand and Shale
3397'-3445'	Shale
3445'-3455'	Hard white sand
3455'-3460'	Shale
3460'-3540'	Sand and Shale
3540'-3579'	Shale
3579'-3623'	Shale and Basalt
3623'-3627'	Sand
3627'-3655'	Shale
3655'-3662'	Shale and Basalt
3662'-3680'	Sand
3680'-3693'	Sandy shale
3693'-3762'	Shale
3762'-3792'	Sand and Shale
3792'-3816'	Shale
3816'-3822'	Green shale
3822'-3863'	Shale
3863'-3900'	Sand

FootageLithology

3900' - 3953'	Shale
3953' - 3955'	Sand and Shale
3955' - 4058'	Sand and Shale
4058' - 4102'	Sand and Shale
4102' - 4153'	Shale
4153' - 4159'	Basalt
4159' - 4169'	Sand
4169' - 4185'	Sand
4185' - 4187'	Shale
4187' - 4285'	Sand
4285' - 4336'	Shale and Sand

Stuck drill pipe at 4336'