

L AND M DRILLING
P. O. BOX 891
PALMER, ALASKA 99645

145-2403

USGS No. _____

Area _____

Date September 2001

Owner Harry and Cynthia Buzby

Driller: Len A. Melton

Mailing address P. O. Box 870085
Wasilla, AK 99687

Use of Well Domestic

Location (address of: Township, Range, & Section (if known); distance from road Schrock Road - 18N 01W SC008

Size of casing 6" Depth of Hole 200' feet. Cased to 160' + 40 ft. 5" plastic liner

Static water level 55 feet (~~above~~) (below) land surface.

Finish of well (check one) Open end (XX) Screen () Perforated (XX)

Describe screen or perforations: 54 knife perfs from 57 to 61 ft

Well pumping test at 10 gallons per (~~hour~~) (min) for 39 min hours with 145' feet of drawdown from static level.

Remarks After 10-12 hours surging and development well has went from 7 gph to 24 gph with expanded reservoir of approximately 300 gallon.

WELL LOG

Depth in feet from ground surface	Details of formations penetrated, size of material, color and hardness
<u>1</u> to <u>3</u>	<u>Top Soil</u>
<u>3</u> to <u>53</u>	<u>Gravel sand and small boulders</u>
<u>53</u> to <u>56</u>	<u>Brown clay and silt</u>
<u>56</u> to <u>61</u>	<u>Water bearing sand & Gravel mixed w/silt-very narrow aquifers and seems to be slow in recovery</u>
<u>61</u> to <u>66</u>	<u>Soft clay and sand, seems to be some water from a coal seam at 67-68'</u>
<u>66</u> to <u>68</u>	<u>from a coal seam at 67-68'</u>
<u>68</u> to <u>73</u>	<u>More coal w/brackish water</u>
<u>73</u> to <u>160</u>	<u>Gray clay some very hard or dense w/stratas of coal here in there, but nothing significant-Pipe won't go any further</u>
<u>160</u> to <u>200</u>	<u>Gray clay very dense stands open and takes lots of water to drill and mix. Owner decided to stop drilling at 200'.</u>
<u>to</u>	<u>Knife perforated water zone starting at 61' w/6 perfs per run. Perforated 61 61-60½, 60', 59½, 59, 58½, 58, 57½ and 57</u>
<u>Setup surge block and first 2 hour run brought in 40' of product. Cleaned out sand and gravel, some silt, next 2 hours run brought in 20', next 2 hour brought 10', next 2 hours 10', next 7' and next 5'. Could tell the productivity was increasing as I could hear water dribbling when I'd clean and get static below perfs. Let static build up and bailed hole dry took 35 minutes and 34 full bailers and some partials to clean hole-approximately 340 gallons. Left hole and went to get liner pipe to line lower 40' of hole, was gone 1 hour - recleaned hole and pulled out 27 measured gallons which is a considerable improvement over original 7 gph. Put in 2-3 feet of sand and gravel bring up bottom to accomodate liner pipe telescoping into bottom of existing casing. Pump should be set at about 180' to give some free board for possible material leaking in from perf area.</u>	