

HISTORY OF OIL OR GAS WELL
(Submit in duplicate)

In compliance with rules and regulations adopted pursuant to ORS 520.095 (Chapter 667 OL 1953)

Operator Nahama & Weagant Energy Co. Field ---
Well No. KLOHS #1, Sec. 6, T. 3S, R. 2W, W.B. & M.Signed *Leland B. Cecil*
Title Leland B. Cecil, Agent
(President, Secretary or Agent)

Date October 20, 1982

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or balling.

Date

DRILLING HISTORY

9-15 Spud 14 3/4" Hole at 8:00 a.m.
Drilled to 312'.
Encountered Basalt at 230'.
Surveys: 1° at 138'
0°45' at 300'

9-16 Drilled to 453'
Basalt to 435'.
Clay and silstone 435'-453'.
MW 69 Vis 60 pH 9.0 Salinity 100

9-17 Drilled to 623'
MW 69 Vis 54 pH 9.0 Salinity 100
Survey: 0°30' at 623'
Ran 14 jts (625.13') 8 5/8" 24# K-55 ST&C casing with open guide shoe at 623' and insert float valve at 580'.
Cemented casing through shoe with 600 cf API 'G' cement & 3% CaCl₂. Displaced top rubber plug to 580' with water.
CIP at 5:35 p.m., 9-17-82 Had 40 cf cement returns.
WOC 6 hours.

9-18 Installed 10" 3M Casing Head
Tested welds to 1200 psi.
Installed BOPE and tested to 1000 psi.
BOP test approved by inspector.

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9-18 (Continued)
Drilled out float valve, cement and shoe with 7 7/8" bit.
Drilled to 997' - LOST CIRCULATION.
MW 67 Vis 60 pH 8.5 Salinity 100
Survey: 1° at 937'.
Mixed LCM.

9-19 Drilled to 1310' with 75-95% circulation.
Drilled to 1551' with 100% circulation.
MW 67 Vis 50 WL 16.0 pH 9.0 Salinity 100
adding LCM to mud.

9-20 Drilled to 2010'.
MW 68 Vis 48 WL 9.0 pH 9.0 Salinity 100
Survey: 1° at 1577'.
Broke over to Benex/Cypan mud at 1630'.
Continued adding LCM to mud.

9-21 Drilled to 2527'.
MW 69 Vis 44 WL 7.0 pH 8.5 Salinity 100
Survey: 1°15' at 2064'
Increased MW to 69#/cf at 2100'.
Had 85% circulation.
Reduced MW to 68.3#/cf and allowed gradual increase to MW 69#/cf.

9-22 Drilled to 2717'.
MW 69 Vis 42 WL 7.0 pH 8.5 Salinity 100
Survey: 2° at 2556'.
Placed cement plugs for lost circulation.
Plug #1: Placed 59 sx API 'G' w/2% CaCl₂ through drill pipe at 1013'.
Plug #2: Placed 45 sx API 'G' w/2% CaCl₂ through drill pipe at 643'.
WOC 4 hours.
Located top cement at 684'.
Pressured hole to 100 psi.
Drilled out cement stringers to 1013'.
Cleaned out to 2717'.

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9-23 Drilled to 3081'.
MW 70.5 Vis 42 WL 8.2 pH 10.5 Salinity 400
Survey: 2°15' at 3050'.

9-24 Drilled to 3427'.
MW 71.5 Vis 44 WL 6.6 pH 8.5 Salinity 350

9-25 Drilled to 3745'.
MW 72.5 Vis 42 WL 6.0 pH 8.5 Salinity 350
Survey: 1° at 3545'.
70 barrel mud loss - seepage.

9-26 Drilled to 4060' with 99-100% returns.
MW 72.5 Vis 40 WL 6.0 pH 8.5 Salinity 300

9-27 Drilled to 4304'.
MW 72.5 Vis 40 WL 5.6 pH 8.5 Salinity 350.
Slight mud seepage between 4100' and 4200'.

9-28 Drilled to 4504'.
MW 72 Vis 40 WL 6.0 pH 8.5 Salinity 350
Survey: 1° at 4447'.

9-29 Drilled to 4688'.
MW 72 Vis 40 WL 7.0 pH 8.5 Salinity 300
Survey: 1° at 4629'.

9-30 Drilled to 4826'.
MW 72.5 Vis 40 WL 6.6 pH 8.5 Salinity 300
Survey: 0°30' at 4819'.
Encountered Basalt at 4710'.

10-1 Drilled to 4941'.
MW 74 Vis 46 WL 6.4 pH 8.5 Salinity 300

10-2 Drilled to 5011'.
MW 74 Vis 44 WL 6.8 pH 8.5 Salinity 250
Drilled through Basalt at 4963'.

10-3 Drilled to 5200'.
MW 75 Vis 45 WL 7.0 pH 8.0 Salinity 200

10-4 Drilled to 5360'.
MW 76.5 Vis 45 WL 5.8 pH 9.0 Salinity 150
Raised MW to control sloughing red beds.

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10-5 Drilled to 5452'.
MW 76 Vis 46 WL 6.4 pH 9.0 Salinity 150
Survey: 0°45' at 5660'.

10-6 Drilled to 5564' (in Basalt)
MW 75.5 Vis 40 WL 6.0 pH 9.0 Salinity 150

10-7 Drilled to 5680' (in Basalt)
MW 75.5 Vis 42 WL 6.8 pH 9.0 Salinity 150
Survey: 1° at 5680'

10-8 Drilled to 5752' (in Basalt)
MW 75.5 Vis 60 WL 6.6 pH 9.0 Salinity 150

10-9 Drilled to 5870' (in Basalt)
MW 75.5 Vis 58 WL 6.6 pH 9.0 Salinity 150
Survey: 1°15' at 5870'.

10-10 5870'. Ran Schlumberger DI-SFL and BHC-Sonic Logs in tandem from 5861' to 623'.
Ran FD-CNL Log from 4710' to 623'.
Ran Dipmeter from 5608' to 5000' and 4710' to 650'.

10-11 Placed 110 sx API 'G' cement through drill pipe at 705'.
WOC 7 hours.

10-12 Located top cement plug at 615'.
Placed 70 sx API 'G' cement through drill pipe at 612'.
WOC 9 hours.
Located top cement plug at 516'.
Plug approved by W. L. King, Oregon Petroleum Geologist.
Placed 20 sx API 'G' cement through drill pipe at 60'.
Filled to surface.
Cut off casing 5' below ground level.
Welded steel plate on casing stub.
Rig released at 12:00 midnight, 10-12-82.
Well is Plugged & Abandoned.