

STATE OF OREGON
 DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
 910 State Office Building Portland, OR 97201

HISTORY OF OIL OR GAS WELL
 (In compliance with rules and regulations pursuant to ORS 520)

Nahama & Weagant Energy Co. Cavenham Energy Resources 41-21-64
 (Company or Operator) (Lease) (Well No.)
 Sec. 21 T 6N, R 4W Surveyed Coordinates (if directional, BHL & SHL): SHL: 1138' South and 486'
 West from the NE corner Sec. 21 BHL: 587' North and 456' West from surface location
 Wildcat: XX (or) Field Name: _____ County: Columbia
 Signature: Jedd A. Thoms
 Date: _____ Position: Senior Operations Superintendent

Use this form in reporting the daily operations at the well. (Operator may use his own forms, but heading of this form must also be completed and submitted.) Please submit a complete history of the well. Include such information as bit sizes, mud weights, casing sizes and depths set, amount of cement used, drilling depths, fishing, logging, perforating, and plugging procedures, and anything else pertinent to the operation. Do not include lithology.

Date	
10/31/90	Spud well with 13 3/4" bit. Drilling to 100'. POH and pick up mud motor. Drilling and survey to 160'.
11/1/90	Drilling with mud motor. Slight loss of circulation. POH and pick up drilling assembly and drill to 529'.
11/2/90	Drilling to 536'. Survey. Wipe hole to surface. Rig up and run 13 jts (526') 9 5/8", 36#, J-55 casing to 524'. Cement casing with 300sx class G cement mixed with 3% CaCl ₂ , 1/4#/sk Flocele. Bump plug @ 3:15p.m. Wait on cement. Run in annulus with 1" PVC and tag cement at 50'. Cement with 30sx class G cement with 3% CaCl ₂ , 1/4#/sk flocele. Good returns. Cut off casing and weld on wellhead. Test to 1500 psi.
11/3/90	Nipple up BOPE. Test blind rams to 1000 psi. Test BOP with state representative witnessing. Drilling plug, float, cement and shoe. Drilling 8 1/2" hole to 588'. Lose circulation. Pull into casing and build volume. Drilling and survey to 757'. POH to change BHA. Run to shoe and build volume.
11/4/90	Drilling and survey to 1092'. Wipe hole to shoe. Pull 15,000 over. Drilling to 1247' Losing circulation. Shut down pumps and well flowing. Reduce viscosity. Drilling to 1277'. Build volume.
11/5/90	Drilling to 1490'. 7 stds wiper trip. Drilling to 1995'.
11/6/90	Drilling to 2121' or T.D. Circulate and wipe hole to shoe. Circulate and survey. POH for logs. Rig up Halliburton and run DIL, AVL, Density Neutron, Gamma Ray, and Dipmeter. Wait on orders.
11/7/90	Run in hole. Break circulation at 700' and 1300'. Wait on orders. POH and lay down BHA. RIH to 1593'. Set 70sx cement plug. POH 5 stds. Wait on cement. RIH and tag plug at 1440'. POH laying down drill pipe.
11/8/90	Rig up and run 32 jts. of 4 1/2", 10.5#, J-55 casing to 1404'. Cement with 140sx class G cement mixed with 2% CKI, 2% Microbond, 1.19% Gas Ban. Excellent mud returns. Bump plug at 12:00 p.m.-noon. Set Slips, nipple down BOPE and cut off casing. Install tubing head and test to 1500 psi. Release rig. Well awaiting completion and flow test.

OGHist6.For/7

Rev. August 29, 1990

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 LITHOLOGIC DESCRIPTION OF OIL OR GAS WELL
 (In compliance with rules and regulations pursuant to ORS 520)

Nahama & Weagant Energy Co. Cavenham Energy Resources 41-21-64
 (Company or Operator) (Lease) (Well No.)
 Sec. 21 T 6N, R 4W Surveyed Coordinates (if directional, BHL & SHL): SHL: 1138' South and 486'
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Use this form for describing well cuttings, unless mud log is submitted.

Depth		Description
From	To	
		MUD LOGS HAVE BEEN SUBMITTED.

OGLith3a.For/7

Rev. September 11, 1990