

HISTORY OF OIL OR GAS WELL

(In compliance with rules and regulations pursuant to ORS 520)

Nahama & Weagant Energy Co. Columbia County Borrow Pit
(Company or Operator) (Lease) 23-35-75
(Well No.)

Sec. 35, T 7N, R 5W Surveyed Coordinates (if directional, BHL & SHL): 261'N and 2270'E of
W 1/4; 640'S and 598'W of surface location

Wildcat: BHL (or) Field Name: _____ County: Columbia County

Signature: Grant J. Powell

Date: October 1, 1991 Position: Vice President, Engineering

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	
1991	
8/1	122' MW 66 pcf Vis 34 Surveys: 0° at 45' Move in and rig up Taylor Drilling Rig #7. Weld on conductor. Take on and mix spud mud. Rig up mud cleaner. Spud 13 3/4" hole at 7:00 p.m. (7-31-91). Drill to 100'. Circulate clean. Pull out of hole. Make up mud motor. Run in hole. Orient mud motor. Drilling and surveying with mud motor to 122'. Lost circulation. Pumped pits empty. Pulled out of hole to conductor shoe. Built mud pit volume. Mixing gel and lost circulation material at 6:00 a.m.
8/2	595' MW 71 pcf Vis 75 Surveys: 2° S 80° W at 141' 5° 15' S 72° W at 232' 7° S 58° W at 292' 8° 30' S 39° W at 353' Finish mixing lost circulation material. Fill hole from surface (slight initial seepage then stable). Run in hole to 122', drilling and surveying with mud motor to 484' (no visible loss of circulation). Circulate clean, pull out of hole (free), lay down mud motor. Make up new BHA. Run in hole to 160'. Ream mud motor, run to 494', circulate. Drill to 565', circulate and survey. Drill to 595'.

OGHist6.For/7

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8/3	1010' MW 69 pcf Vis 55 Surveys: 15° 45' S 41° W at 625' 14° 15' S 41° W at 812' 13° S 42° W at 1010' Drill from 595' to 625', circulate and survey. Drill to 812', circulate and survey. Drill to 841'. Repair rotary clutch air line. Drill to 1010', circulate clean and survey. Wipe hole to surface. Run in hole to 1010', circulate clean. Pull out of hole to 950' (20,000# drag). Ream 950' to 1010'. Circulate clean. Pull out of hole. Rig up and run 23 joints (1013') of 9 5/8", 36#, J-55, ST&C casing, equipped with float shoe set at 1010', centralizers at 1005' and around collars of joints #2, #5 and #7. Rig up cementing head and circulate. Cement with 20 bbl. water ahead. Mix and pump 250 sx class "G" with 8% gel, 3% CaCl ₂ , .25% Flocele and 10#/sx Calseal, followed by 285 sx class "G" cement with 3% CaCl ₂ and .25 Flocele. Displace plug to float shoe with 78 bbl. water, float held. CIP at 4:35 a.m. Returned approximately 26 bbls. cement to surface. Wait on cement.
8/4	1105' MW 68 pcf Vis 47 pH 9.0 Wait on cement. Cut off conductor and casing. Weld on 9 5/8" S.O.W. x 11" - 3M# casing head and test to 1500 psi. Nipple up BOPE. Test blind rams to 1200 psi. Make up BHA. Run in hole to 754'. Circulate clean. Test BOPE to 1000 psi, witnessed and approved by DOGMI. Run in hole to 1002'. Drill out cement and shoe. Drill to 1105'. Pulled in excess of 100,000# while attempting to make a connection (stabilizer possibly hung up on shoe) bending derrick. Rig up to circulate. Circulating at 1065'. Wait on welder.
8/5	1105' MW 67 pcf Vis 53 pH 9.0 Circulate and rotate at 1065' while repairing derrick. Pull out of hole to 500' (pulled 60,000# and pipe stopped). Found pipe ram wedged in BOPE next to HW. Opened ram gates and worked pipe ram to surface. Pulled out of hole. Wait on test plug and replacement pipe rams.
8/6	1483' MW 66 pcf Vis 54 pH 8.5 Surveys: 16° 45' S 44° W at 1219' 18° 30' S 44° W at 1280' 19° 30' S 44° W at 1483' Wait on pipe rams and test plug. Install pipe rams. Test BOPE to 1000 psi. Run in hole. Drill to 1219', circulate and survey. Drill to 1281', circulate and survey. Drill to

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	1312'. Pull out of hole (free), make up new BHA to hold angle. Run in hole, drill to 1483', circulate, survey and wipe hole to 1183' (free). Circulate for logger.
8/7	2275' MW 70 pcf Vis 43 pH 8.5 Surveys: 19° 45' S 44° W at 1698' 19° S 45° W at 1946' 18° 45' S 43° W at 2162' Drill from 1483' to 1698', circulate, survey and wipe hole to shoe (20,000# drag). Ream from 1637' to 1698'. Circulate for logger. Drill to 1946', circulate and raise mud weight to 69 pcf. Survey and wipe hole to 1646' (10,000# drag). Circulate for logger. Drill to 2162', circulate, survey and wipe hole to shoe (20,000# drag and partial swabbing). Circulate for logger. Drill to 2275'.
8/8	2962' MW 73 pcf Vis 46 pH 8.5 Surveys: 18° S 43° W at 2411' 17° S 43° W at 2784' 16° 30' S 43° W at 2962' Drill from 2275' to 2411', circulate clean. Survey and wipe hole to 2081' (10-20,000# drag). Drilled to 2690', circulate clean and wipe hole to 2390' (10-15,000# drag). Drill to 2784', circulate and survey. Drill to 2962'.
8/9	3371' MW 73 pcf Vis 61 pH 8.0 Pull out of hole for Bit #3 (15-20,000# drag and swabbing from 2962' - 9 5/8" shoe). Change bit and BHA. Run in hole. Ream from 2844' to 2962', circulate for logger. Survey, drill to 3371'.
8/10	3374' MW 74 pcf Vis 54 pH 8.0 Surveys: 11° 30' S 35° W at 3374' Drill from 3371' to 3374', circulate clean and survey. Wipe hole to 3194' (hole packed off). Run in hole to 3124'. Regain circulation and ream to 3374'. Circulate clean, pull out of hole to 3194' (30,000# drag). Circulate and work pull to 2774', pull out of hole (6-10,000# drag). Lay down stabilizers, monel and one D.C. Run in hole to 2598', circulate and clean out plugged flowline. Run in hole to 2940'. Ream to 3374'.
8/11	Circulate and condition mud for E-logs. Wipe hole to 2774' (15-20,000# drag from 3374' to 3314'). Ream 3314' to 3374', circulate clean. Pull out of hole (6-8,000# drag). Rig up

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	Halliburton Logging Services and log DIL from 3368' to 1010', BCS-CAL-GR from 3368' to 1010'. Rig down loggers. Run in hole with BHA and lay down same. Run in hole with open ended drill pipe to 1060'. Rig up Halliburton cementers and equalize 90 cf class "G" cement with 3% CaCl ₂ (CIP at 10:45 p.m.). Lay down drill pipe and wait on cement. Run in hole and tag cement at 860' (witnessed and approved by DOGMI). Lay down drill pipe and break Kelly.
8/12	Nipple down BOPE, equalize 30 cf class "G" cement from 60' to surface. Cut off casing head and weld on plate 5' below ground level. Release rig at 4:00 p.m. (8-11-91)