STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

800 NE Oregon St #28 Portland, OR 97201

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

Enerfin Resources Northwest (Company or Operator) | "Columbia County" (Lease) | 14-22-75 (Raptor) (Well No.)

Sec. 22 T 7N R 5W Surveyed Coordinates:

SHL= 1,126.89' North and 123.58' East from the Southwest corner of Section 22 (X=1 289 594.9839 Y=889 229.7698)

BHL= NA

Wildcat: NA (or) Field Name: Mist Gas County: Columbia

Signature:

Date: August 14, 1999 Position: Consultant

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 operations. Do not include lithology.

Date

07-18-99 MIRU Taylor Drilling Rig #7 on 07-17-99. Weld on conductor, take on spud mud and fresh water, and mix gel. Spud 9-7/8" hole at 1:30 PM. Drill to 469' at midnight.
MW 9.0 Vis 38 WL 8.8

07-19-99 Drill from 469'-476'. Wipe hole to surface. Circulate clean. Pull out of hole. Rig up tongs and run 11 joints (478.00') of 7" 23# J-55 LT&C casing equipped with float shoe and 3 centralizers. Cement casing shoe at 476' as follows: pump 20 BBLs water ahead, mix and pump 105 sx (181 cft) of "Light" cement + 3% CaCl2 + .25#/sk Flocele followed by 75 sx (88 cft) of "Premium" cement + 3% CaCl2 + .25# sk Flocele, drop plug and displace to shoe with 18 BBLs water, bump plug (float held), CIP at 6:00 AM with good returns throughout (returned 12 BBLs cement to surface). Wait on cement. Cut off conductor and casing. Weld on 7" SOW X 7-1/16" 3M casing head and test to 1200 PSI-OK. Nipple up BOPE and test CSO rams to 1000 PSI-OK. Make up new 6-1/4" bit #2 and BHA. Run in hole to ~465'. Test BOPE to 1000 PSI-OK (witnessed and approved by Dan Wermiel-DOGAMI). Drill out shoe at midnight.
MW 8.6 Vis 30 WL 11.2

07-20-99 Finish drilling out shoe. Drill to 526'. Circulate clean. Survey (no good). Drill to 556'. Circulate clean. Survey (.75° N75W). Drill to 710'. Circulate clean. Wipe hole to shoe. Drill to 1,056'. Circulate clean. Survey (1° N29W). Wipe hole to shoe. Drill to 1,554' (losing fluid to formation at ~20 BBLs/Hour-began adding LCM). Circulate clean. Survey (.75° N10W). Wipe hole to 854' (4-6K spot drag). Drill to 1,773' at midnight.
MW 9.0 Vis 37 WL 7.3

07-21-99 Drill from 1,773'-2,023' (continued slow loss of fluid to formation at ~5 BBLs/Hour-continue with LCM additions). Circulate clean. Survey (1.5° S37W). Wipe hole to 1,460' (2-4K spot drag to 1,770'). Drill to 2,335' (minimal loss of fluid to formation-continue LCM additions). Circulate clean. Wipe hole to 1,672' (6-8K drag and spot swabbing to 2,023'). Drill to 2,525'. Circulate clean. Survey (5.75° S7W). Drill to 2,587' (no apparent loss of fluid to formation-continue LCM additions). Circulate clean. Wipe hole to 1,923' (4-8K spot drag). Drill to 2,756' at midnight.
MW 9.1 Vis 40 WL 5.6

07-22-99 Drill from 2,756'-2,806'. Wipe hole to 2,305'. Circulate clean. Pull out of hole. Change bit (#3). Run in hole to 2,806'. Drill to 2,912'. Circulate clean. Wipe hole to 2,266' (20-25K drag and swabbing from 2,766'-2,546'). Drill to 2,936' at midnight.
MW 9.1 Vis 35 WL 5.6

07-23-99 Drill from 2,936'-2,976' TD at 4:15 AM. Circulate clean. Survey (3.50° S11W). Wipe hole to shoe. Circulate clean. Pull out of hole. Rig up Schlumberger and run AIT/DSN/CDL/BHC/GR from 2,882'-476'. Run in hole. Circulate clean. Pull out of hole laying down DP and BHA. Rig up casing tongs and run 2-7/8" casing at midnight.
MW 9.1 Vis 35 WL 5.6

07-24-99 Finish running 93 joints (2,859.24') of 2-7/8" 6.5# J-55 EUE casing equipped with float shoe, latch down plug seat in first collar and 20 centralizers. Rig up HES cementers, and circulate and reciprocate casing clean. Cement casing shoe at 2,857' (latch down plug at 2,825') as follows: pump 20 BBLs mud flush ahead, mix and pump 140 sx (240 cft) of "Light" cement + .25#/sk Flocele mixed at 13.1 PPG followed by 130 sx (150 cft) of "Premium" cement + 3% KCL + .3% CFR-3 + .3% Halad-344 + .15% SuperCBL mixed at 15.8 PPG, washout lines, drop plug and displace to seat with 16 BBLs 3% KCL water, bump plug (float held), CIP at 4:00 AM with good returns throughout (calculated TOC at ~800'). Set casing in slips. Nipple down BOPE. Clean mud pits and release rig at 8:00 AM.

08-01-99 MIRU Taylor workover rig. Install 7-1/16" 3M X 2-9/16" 3M tree and test to 750 PSI-OK. Rig up Schlumberger and run NDL/CBL/CCL from 2,793'-770' (log showed excellent bonding through interval of interest with TOC at ~956'), run in hole with 1-11/16" Enerjet thru tubing gun, correlate to open hole log dated 7-23-99, and perforate 4 SPF 0° phased from 2,618'-2,624', rig down Schlumberger (0 SICP). Rig up swab equipment, run in hole with swab (fluid level at 160'), and make 6 swab runs to 1,300' (fluid level would not drop below 800') with no sign of gas entry. Rig up Schlumberger, run in hole with and set Baker model "N-3" tubing bridge plug at 2,610', run in hole with 1-11/16" Enerjet thru tubing gun, correlate to open hole log and perforate 4 SPF 0° phased from 2,558'-2,570', rig down Schlumberger (175 SICP). Flow well to unload fluid. Shut in well (744 SICP). Open well to flare stack and record the following: 1649 MCFD with 666 FCP on 20/64ths positive choke, 549 MCFD with 670 FCP on 12/64ths adjustable choke, and 238 MCFD with 671 FCP on 8/64ths adjustable choke. Shut well in (742 SICP after 15 minutes).

08-05-99 Check well (760 SICP). Install SPIDR electronic pressure gauge. Put well to flare stack and begin 48 hour flow test on 16/64ths positive choke at 3:00 PM with an initial rate of 950 MCFD and 702 FCP. Well flowing at 922 MCFD with 681 FCP after 9 hours flow ending at midnite.

08-06-99 Continue 48 hour flow test with a rate of 803 MCFD and 667 FCP after 33 hours flow ending at midnight.

08-07-99 Continue flow test with a rate of 782 MCFD and 658 FCP after 57 hours flow ending at midnight.

08-08-99 Continue flow test with a rate of 771 MCFD and 649 FCP after 81 hours flow ending at midnight.

08-09-99 Continue flow test with a rate of 763 MCFD and 641 FCP after 105 hours flow ending at midnight.

08-10-99 Continue flow test with a final rate of 760 MCFD and 639 FCP after 120 hours flow ending at 3:00 PM. Shut well in (694 SICP after 60 minutes).

08-12-99 Check pressure (736 SICP). Download SPIDR gauge, disconnect from wellhead, and return to DRC for evaluation.