

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	"Columbia County"	14-32-75 (Second Paul)
(Company or Operator)	(Lease)	(Well No.)
Sec. 32 T 7N R 5W	Surveyed Coordinates:	
SHL=	1,198.48' North and 865.24' East from the Southwest corner of Section 32 (X=1 278 571.97 Y=878 992.77)	
BHL=	345.86' North and 631.53' East of SHL at 3,229' (3,124.69' TVD)	
Wildcat: NA	(or) Field Name: Mist Gas	County: Columbia
Signature:		
Date: July 31, 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

07-08-99 MIRU Taylor Drilling Rig #7 on 07-07-99. Weld on conductor, take on spud mud and fresh water, and mix gel. Spud 9-7/8" hole at 2:30 PM. Drill to 276' at midnight.
 MW 8.7 Vis 45 WL 14.2

07-09-99 Drill from 276'-286' (union washed out). Pull out of hole. Repair union. Run in hole. Drill to 485'. Circulate clean. Wipe hole to surface. Circulate clean. Pull out of hole. Lay down 6" DC's. Rig up Halliburton cement head and circulate clean. Cement casing shoe at 485' as follows: pump 20 BBLs water ahead, mix and pump 125 sx (215 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 19 BBLs water, bump plug (float held), CIP at 1:30 PM with good returns throughout job (returned 19 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 welds to 1200 PSI-OK. Nipple up BOPE at midnight.
 MW 8.7 Vis 48 WL 7.6

07-10-99 Finish installing BOPE and test CSO rams to 1000 PSI-OK. Make up new 6-1/4" bit (#2) and BHA. Run in hole to 470'. Circulate and condition mud. Test BOPE to 750 PSI-OK (witnessed and approved by Dennis Olmstead-DOGAMI). Drill out cement and shoe. Drill to 555'. Circulate clean. Pull out of hole. Make up mud motor with 1.5° bent housing. Run in hole. Drill to 575'. Circulate clean. Repair loose hammer union on mud line. Survey and orient mud motor. Drill and survey with mud motor to 1,080' at midnight.
 MW 8.7 Vis 35 WL 6.8

07-11-99 Circulate clean at 1,080'. Survey. Drill with mud motor to 1,120'. Circulate clean. Pull out of hole. Lay down mud motor and make up locked rotating BHA. Run in hole to 1,120'. Drill to 1,198'. Circulate clean. Survey. Drill to 1,354'. Circulate clean. Survey. Drill to 1,510'. Circulate clean. Survey. Wipe hole to shoe (6-12K spot drag and swabbing to 973'). Drill to 1,618'. Repair rotary air supply hose. Drill to 1,759'. Circulate clean. Survey. Pull out of hole. Change BHA to angle building setup. Run in hole spot reaming as needed to 1,759' at midnight.
 MW 9.0 Vis 37 WL 5.6

07-12-99 Drill from 1,759'-1,943'. Circulate clean. Survey. Drill to 2,098'. Circulate clean. Survey. Pull out of hole. Change BHA to locked setup. Run in hole to 1,598'. Ream to 1,635'. Run in hole to 1,721'. Ream to 1,758'. Run in hole to 2,098'. Drill to 2,291'. Circulate clean. Survey. Drill to 2,384'. Circulate clean. Wipe hole to 1,764' (free-broke circulation at 1,881' on trip back in hole due to tightness). Drill to 2,540'. Circulate clean. Survey. Drill to 2,647' at midnight.
 MW 9.1 Vis 39 WL 6.2

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07-13-99 Drill from 2,647'-2,667'. Circulate clean. Wipe hole to 2,000' (8-12K drag and spot swabbing). Drill to 2,793'. Circulate for logger. Drill to 2,824'. Circulate for logger. Drill to 2,856'. Circulate for logger. Drill to 2,990'. Wipe hole to 2,301' (10-20K drag and spot swabbing). Ream from 2,944'-2,990'. Circulate for logger. Drill to 3,075'. Circulate clean. Survey. Wipe hole to 2,455' (15-20K drag and spot swabbing from 2,980'-2,860'). Drill to 3,161' at midnight.
 MW 9.4 Vis 37 WL 3.2

07-14-99 Drill from 3,161'-3,200'. Circulate clean. Wipe hole to 2,535' (20-35K drag and spot swabbing from 3,160'-2,790'). Drill to 3,229'. Survey. Wipe hole to surface. Inspect bit. Run in hole to shoe. Replace mud cleaner centrifugal. Run in hole to 3,079'. Ream to 3,229'. Drill to 3,251' at midnight.
 MW 9.4 Vis 42 WL 3.2

07-15-99 Drill from 3,251'-3,254' TD at 12:30 AM. Wipe hole to 1,976'. Ream from 3,164'-3,254'. Circulate clean. Pull out of hole. Rig up Schlumberger and run AIT/DSN/CDL/BHC/GR from 3,150'-485'. Run in hole. Circulate clean. Pull out of hole laying down DP, and BHA. Rig up tongs and run 103 joints (3,150.07') of 2-7/8" 6.5# J-55 EUE casing equipped with self fill-up/float shoe, latch down plug seat in first collar, and 25 centralizers. Cement casing shoe at 3,148' (latch down plug at 3,117') as follows: pump 20 BBLs mud flush ahead, mix and pump 178 sx (300 cft) of "Light" cement + .25#/sk Flocele followed by 174 sx (200 cft) of "Premium" cement + 3% KCL + .3% CFR-3 + .3% Halad-344 + .15% Super CBL, drop plug, washout lines, and displace to seat with 18 BBLs 3% KCL water, bump plug (float held), CIP at 11:00 PM with good returns throughout. Set casing in slips as cemented. Nipple down BOPE at midnight.
 MW 9.4 Vis 42 WL 3.2

07-16-99 Finish nipling down BOPE. Clean mud pits and release rig at 4:00 AM.

07-23-99 Install tree and test to 750 PSI-OK. Rig up swab equipment and swab well to 500'. Rig up Schlumberger and run NDL/CBL/CCL from 3,050'-710' (log showed excellent bonding throughout with TOC at 850'), run in hole with 1-11/16" Enerjet thru tubing gun, correlate to open hole log dated 7-15-99, and perforate 4 SPF 0° phased from 2,850'-2,860', rig down Schlumberger (0 SICP). Rig up swab equipment, run in hole with swab (fluid level at ~500'), and make 3 swab runs to ~1,000' (fluid level remained at ~500') with no sign of gas entry, rig down swab. Install gauge and shut well in.

07-24-99 Open well (15 SICP). Run in hole and locate fluid level at ~500', rig down swab. Rig up Schlumberger, run in hole with and set Baker model "N-3" tubing bridge plug at 2,831', run in hole with 1-11/16" Enerjet thru tubing guns, correlate to open hole and perforate 4 SPF 0° phased from 2,758'-2,788' in 3 runs, rig down Schlumberger (602 SICP). Flow well to unload fluid. Shut well (894 SICP). Open well to flare stack and record the following: 2056 MCFD with 834 FCP on 20/64ths positive choke, 1286 MCFD with 859 FCP on 16/64ths adjustable choke, and 701 MCFD with 860 FCP on 12/64ths adjustable choke. Shut well in (895 SICP). Open well to flare stack for 48 hour test on 16/64ths positive choke with an initial rate of 1250 MCFD with 835 FCP. Well flowing at 1258 MCFD rate with 840 FCP after 4.5 hours flow ending at midnight.

07-25-99 Continue flow test with a rate of 1246 MCFD and 832 FCP after 28.5 hours flow ending at midnight.

07-26-99 Continue flow test to a final rate of 1238 MCFD and 826 FCP after 48 hours flow. Shut well in (874 SICP after 60 minutes).

07-28-99 Check pressure (943 SICP). Remove SPIDR gauge to return to Data Retrieval Corporation for evaluation of well.