

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"	32-28-75 (Hadrassaur)
(Company or Operator)	(Lease)	(Well No.)
Sec. 28 T 7N R 5W	Surveyed Coordinates:	
SHL- 1,818.70' South and 2,231.71' West from the Northeast corner of Section 28 (X=1 287 239.6935		Y=886 284.1802)
BHL- NA		
Wildcat: NA	(or) Field Name: Mist Gas	County: Columbia
Signature:		
Date: August 19, 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	Description
07-26-99	MIRU Taylor Drilling Rig #7 on 07-25-99. Weld on conductor, take on spud mud and fresh water, and mix gel. Spud 9-7/8" hole at 11:30 AM. Drill to 138'. Pull out of hole. Change bit (#2). Run in hole. Drill to 307' at midnight. MW 9.0 Vis 44 WL 10.2
07-27-99	Drill from 307'-550'. Repair rig rotary air line. Drill to 570'. Circulate clean. Wipe hole to surface. Circulate clean. Pull out of hole. Lay down 6" DC's. Rig up casing tools and run 13 joints (571.71') of 7" 23# J-55 LT&C casing equipped with float shoe and 3 centralizers. Rig up HES cementers and circulate clean. Cement casing shoe at 569' with 210 sx (361 cft) of "Light" cement + 3% CaCl2 + .25#/sk Flocele mixed at 13.1 PPG followed by 75 sx (86 cft) of "Premium" cement + 3% CaCl2 + .25#/sk Flocele mixed at 15.8 PPG, drop plug and displace to shoe with 22 BBLs water, bump plug (float held), CIP at 11:00 PM with good returns throughout job (returned approximately 21 BBLs cement to surface). Wait on cement at midnight. MW 9.2 Vis 61 WL 11.2
07-28-99	Finish waiting on cement. Cut off conductor and casing. Grout around casing with cement. Weld on 7" SOW X 7-1/16" 3M casing head and test welds to 1200 PSI-OK. Nipple up BOPE and test CSO rams to 800 PSI-OK. Make up new 6-1/4" bit (#3) and BHA. Run in hole to 559'. Circulate clean. Test BOPE and related equipment to 750 PSI-OK (witnessed and approved by Dennis Olmstead-DOGAMI). Drill out cement and shoe. Drill to 618'. Circulate clean. Survey (2° S31W). Drill to 930'. Circulate clean. Wipe hole to shoe at midnight. MW 9.0 Vis 41 WL 6.8
07-29-99	Drill from 930'-1,116'. Circulate clean. Survey (1.25° N33W). Drill to 1,241'. Circulate clean. Wipe hole to shoe. Drill to 1,616'. Circulate clean. Survey (1° N24E). Wipe hole to 981' (2-4K spot drag). Drill to 2,084'. Circulate clean. Survey (1.25° N62E). Wipe hole to 1,489' (4-6K spot drag). Drill to 2,241' at midnight. MW 9.0 Vis 38 WL 4.8
07-30-99	Drill from 2,241'-2,398'. Circulate clean. Wipe hole to 1,778' (6-8K drag and spot swabbing from 2,210'-2,084'). Drill to 2,584'. Circulate clean. Survey (3.75° S53W). Wipe hole to 1,949' (6-10K spot drag and swabbing to 2,274'). Drill to 2,805'. Circulate clean. Wipe hole to 2,179' (4-6K spot drag). Drill to 2,863' TD at 10:45 PM. Circulate clean. Survey (4° S36W). Wipe hole to shoe at midnight. MW 9.4 Vis 40 WL 5.6

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07-31-99	Finish wiping hole to shoe (6-8K drag and spot swabbing from 2,805'-2,400'). Circulate clean. Pull out of hole. Rig up Schlumberger and attempt to run AIT/DSN/CDL/BHC/GR (log stopped at 2,058'); rig down Schlumberger. Run in hole (work through tight spot at 2,058'). Circulate clean. Pull out of hole. Rig up Schlumberger and run AIT/DSN/CDL/BHC/GR from 2,852'-569', rig down Schlumberger. Run in hole. Circulate clean. Pull out of hole laying down DP and BHA. Rig up casing tongs and run casing at midnight.
08-01-99	Finish running 94 joints (2,867.73') 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 15 centralizers. Rig up Halliburton cement head. Circulate and reciprocate casing clean. Cement casing shoe at 2,863' (latch down plug at 2,830') as follows: pump 20 BBLs mud flush ahead, mix and pump 145 sx (250 cft) of "Light" cement + .25#/sk Flocele mixed at 13.1 PPG followed by 130 sx (150 cft) of "Premium" cement + 3% KCL (w/w) + .3% CFR-3 + .3% Halad-344 + .15% Super CBL mixed at 15.8 PPG, washout lines, drop plug and displace to seat with 16.6 BBLs 3% KCL water, bump plug (float held), CIP at 3:45 AM with good returns throughout job (calculated TOC at 900'). Set casing in slips as cemented. Nipple down BOPE. Clean mud pits and release rig at 9:00 AM.
08-06-99	MIRU Taylor workover rig #1. Install 7-1/16" 3M X 2-9/16" 3M production tree and test to 1000 PSI-OK. Rig up swab equipment and swab well to 520'. Secure rig.
08-07-99	Rig up Schlumberger and run NDL/CBL/CCL from 2,807'-550' (log showed excellent bonding throughout with TOC at 690'); run in hole with 1-11/16" Enerjet thru tubing gun, correlate to open hole log and perforate 4 SPF 0" phased from 2,666'-2,672'; rig down Schlumberger (0 SICP). Rig up swab equipment and swab well to 1,250' (well began to flow). Flow well to unload fluid (well died off after unloading some fluid). Shut well in and drop soap sticks (410 SICP after 30 minutes). Open well to flare stack on 48/64ths choke (well unloaded additional fluid then died off to a slight blow). Reduced choke and recorded the following: 59 MCFD with 25 FCP on 16/64ths choke, 36 MCFD with 30 FCP on 12/64ths choke, and 17 MCFD with 35 FCP on 8/64ths choke. Shut well in (180 SICP after 15 minutes). Rig down hoist and move off location.
08-08-99	Check pressure (790 SICP). Dropped soap sticks and hooked up SPIDR electronic pressure recorder. Open well to atmosphere on 48/64ths choke (pressure bled to 0 but well maintained steady light blow - well did not unload anymore fluid). Shut well in.
08-09-99	Check pressure (792 SICP).
08-12-99	Check pressure (797 SICP). Rig up Cogco Wireline Services, run in hole with 1-11/16" thru tubing gun, correlate to open hole log and perforate 4 SPF from 2,672'-2,678' (bled pressure to ~600 PSI before firing gun-pressure built immediately to ~650 after firing), rig down Cogco (745 SICP). Open well to flare stack on 8/64ths positive choke (pressure immediately started to decline and water surfaced after ~15 minutes). Open choke to 20/64ths to help unload fluid (water continued to surface and pressure declined to ~100 PSI). Closed choke to 8/64ths (pressure built to ~150 PSI with an estimated 40 MCFD flow rate). Shut well in and drop soap stick (250 SICP after 15 minutes).
08-13-99	Check pressure (859 SICP). Open well to flare stack on 8/64ths positive choke at 12:30 PM. Well flowing at 158 MCFD rate with 420 FCP after 11-1/2 hours flow ending at midnight.
08-14-99	Continue flow test on 8/64ths positive choke with a rate of 152 MCFD and 404 FCP after 35-1/2 hours flow ending at midnight.
08-15-99	Continue flow test on 8/64ths positive choke with a rate of 148 MCFD and 395 FCP after 59-1/2 hours flow ending at midnight.
08-16-99	Continue flow test on 8/64ths positive choke with a rate of 145 MCFD and 385 FCP after 83-1/2 hours flow ending at midnight.
08-17-99	Continue flow test on 8/64ths positive choke to a final rate of 143 MCFD with 378 FCP after 96 hours flow. Shut well in (626 SICP after 60 minutes).
08-19-99	Check pressure (828 SICP). Download SPIDR gauge, disconnect, and return to DRC for evaluation.