

ENERFIN RESOURCES NORTHWEST

P.O. Box 1358
Clatskanie, OR 97016-3358
(503) 755-2010 FAX (503) 755-2030

"C.C." 32-27-65 (Chipster)
A.P.I. No. 36-009-00322
RE-ENTRY PROGRAM

April 22, 1998

Location: 1,881.70' South and 2,309.89' West from the Northeast corner of Sec. 27, T6N-R5W, W.B.&M., Mist Gas Field, Columbia County, OR

Elevations: 739.00' G.L. 749.00' K.B. (10.00' original R.K.B.)

Casing(s): 7" 20# J-55 ST&C casing cemented from 493'-surface
NOTE: 6-1/4" hole and 7" casing plugged with cement from 635'-428'.

Estimated Drilling Depths (TVD's):

Top of C&W	1,490'
Total Depth	1,900'

Directional Control: Hole to be drilled to a target with a 50' radius at 1,490' TVD with coordinates of 225' North and 254' West from SHL.

PROGRAM:

1. Move in and rig up drilling rig. Install mud cleaner.
2. Install blowout prevention equipment (BOPE) conforming to Class III-B 2M requirements and test blind rams to 1500 PSI. Make up 6-1/4" bit and BHA. and run in hole to ±400'. Test BOPE and related equipment to 1000 PSI with DOGAMI to witness.
3. Drill out cement to 500' (KOP). Circulate clean and pull out of hole.
4. Make up directional drilling tools and run in hole. Directionally drill hole to 2,079' (1,900' TVD). Install mud loggers at KOP. Wipe new hole drilled every 5-6 hours, or sooner if tight hole becomes evident.
5. Run DIL Sonic log with SP & Rwa curves in tandem at total depth (minimum sonic).
6. If casing is run, use 2-7/8" 6.5# J-55 EUE tubing to surface.
 - A. Install at least one ±12' pup joint near intervals of interest.
 - B. Equip casing with guide shoe and differential fill-up collar. Place centralizers as directed.
 - C. Condition hole no less than twice hole volume.
7. Cement casing with a lead slurry of Type III cement + 2% Sodium Metasilicate + .120% FP-6L (1.87 cft/sk yield at 13.0 PPG) followed with a tail slurry of Type III cement + 5% KCL + 1% FL-62 + .3% CD-32 + 3% EC-1 + .12% FP-6L (1.40 cft/sk yield at 14.8 PPG) as follows:
 - A. Precede cement slurry with 20 BBLs mud flush.
 - B. Cement volume to be calculated to surface casing shoe plus 25% excess. Tail slurry to fill at least 500' above highest potentially producible formation.
 - C. Displace cement in turbulent flow with 2% KCL water.
8. Land casing as cemented, install 7-1/16" 3M production tree and test to 3000 PSI
9. Release drilling rig.

SPECIAL INSTRUCTIONS:

Enerfin Resources Northwest
"C.C." 32-27-65 (Chipster)
Re-entry Program
Page #2

1. Drill pipe measurements: Strap out of hole before mud loggers are installed and at total depth.
2. Hole deviation: Conduct surveys as instructed by directional engineer on location.
3. Mud Program:

<u>Interval</u>	<u>Type</u>	<u>MW (PPG)</u>	<u>Viscosity</u>	<u>WL (cc)</u>
0'-500'	Gel Water	Spud mud	±36	NC
500'-1,500'	Cypan/Polymer	9.2-9.3	36-40	12-6
1,500'-2,079'	Cypan/Polymer	9.3-9.5	36-38	<6

Mud weights specified are for guide purposes only. Use weights necessary to maintain approximately 20 units background gas or as otherwise required to control well. Keep at least 300 sacks of weight material on location at all times after drilling out surface shoe.