

GEOLOGIC WELL PROGNOSIS

COMPANY: Methane Energy **WELL NAME:** Boys Ranch Corehole
ANTICIPATE SPUD DATE: November 2004 | **TWIN:** CEI WNS MENASHA #32-1
SURFACE LOCATION: Approx. 2000' FSL, 2400' FEL | **ESTIMATED TD:** 1600 Feet
LEGAL LOCATION: SEC 32, T26S-R13W | **ELEV. & TOPO:** 165' ASL ()
COUNTY: Coos | **STATE:** Oregon
TERRAIN & ACCESS: Hillside terrace; access good near paved hiway; gravel road to location
OBJECTIVE FORMATION: Lower Coaledo Fm. | **HIGHEST DIP:** 15° @ 2000'
TYPE OF WELL: Vertical

<u>FORMATIONS TO BE PENETRATED:</u>	<u>TOPS</u>	<u>EST. THICKNESS</u>	<u>DOM. LITHOS.</u>	<u>POSSIBLE TEST, CORE</u>
Surface gravels	Surface	10'	Sand, gravel, clay	
Middle Coaledo Fm.			Sandstone, siltstone	
Lower Coaledo Fm.		To TD		
Coal Zone	565'	4'	coal	
Coal Zone	710'	2'	coal	
Coal Zone	930'	4'	coal	
Coal Zone	942'	2'	coal	
Coal Zone	1260'	8'	coal	
Coal Zone	1361'	7'	coal	
Coal Zone	1396'	6'	coal	
Coal Zone	1517'	5'	coal	
TD	(1600')		Sandstone, siltstone	

UNUSUAL CONDITIONS (LOST CIRC., SHALLOW BLOW-OUTS, WATER FLOWS, H2S, ETC.):

Steep dips, deviation potential unstable hole conditions;

MUD UNIT (DEPTHS & TYPE): Two-man logging unit with gas detection, chromatograph, etc.**LOGGING PROGRAM:** State required minimum**SPEC. SURVEYS:** Continuous core through coal intervals. Desorption sampling in coals. Sample produced gas and water**REFERENCE WELLS:** CEI WNS – Menasha 32-1, Rhoades Menasha #1**COMMENTS:** Detailed drilling, coring and well history available from CEI WNS-Menasha #32-1 well;**PREPARED BY:** S. Pappajohn, G. Hampton