

GEOLOGIC WELL PROGNOSIS

COMPANY: Methane Energy | **WELL NAME:** Fat Elk Corehole
ANTICIPATE SPUD DATE: November 2004 | **TWIN:** NA
SURFACE LOCATION: Approx. 2000' FSL, 2000' FEL | **ESTIMATED TD:** 3950 Feet
LEGAL LOCATION: SEC 4, T28S-R13W | **ELEV. & TOPO:** 50' ASL ()
COUNTY: Coos | **STATE:** Oregon
TERRAIN & ACCESS: Lowland drainage course; access good near paved road;
OBJECTIVE FORMATION: Upper & Lower Coaledo Fms. | **HIGHEST DIP:** 20° @ 3000'
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	
Bastendorff Fm.	10'	190'	Sandstone, siltstone	
Upper Coaledo Fm.	200'		Sandstone, siltstone	
#5 Bed	420'	16'	coal	
#4 Bed	500'	6'	coal	
#3 Bed	620'	10'	coal	
#2 Bed	710'	8'	coal	
#1 Bed	840'	5'	coal	
Middle Coaledo Fm.	1100'	1600'	Sandstone, siltstone	
Lower Coaledo Fm.	2700'	To TD		
'F' Coal Zone	3100'	2'	coal	
'E' Coal Zone	2825'	8'	coal	
'D' Coal Zone	3500'	8'	coal	
'C' Coal Zone	3690'	6'	coal	
'B' Coal Zone	3840'	15'	coal	
'A' Coal Zone	3930'	15'	coal	
TD	(3950')		Sandstone, siltstone	

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

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:** Northwest Exploration Fat Elk #1**COMMENTS:****PREPARED BY:** S. Pappajohn, G. Hampton