



COMPANY: Cobalt Energy, LLC
LEASE: Toman Unit "A" #1-36
FIELD: Wildcat
LOCATION: 2,306 FNL & 2,296 FWL
SEC: 36 TWP 15S RGE 9W
COUNTY: Ellsworth STATE: Kansas
CONTRACTOR: Southwind Drilling Rig #4
SPUD: 10-8-12 COMP: 10-13-12
SAMPLES SAVED FROM: 2300' TO RTD

FORMATION: SAMPLE E LOG DATUM

Neva		+4	+10	
Wood Staling		-209	-295	
Grand Haven		-285	-279	
Severy Sh	2339	-635	-634	
Topoka	2600	-669	-666	
Heebner	2620	-921	-922	
Douglas	2629	-951	-952	
Brown	2719	-1027	-1030	
Lansing	2729	-1042	-1047	
3S Porosity	2763	-1143	-1076	
90 Porosity	2831	-1144	-1150	
RTD	2950	-1263	-1492	

REFERENCE WELLS:
A: CV#2 NW 35:15S:9W, Trans Pacific Oil Corp, Janzen A #1
B: CV# NW 35:15S:9W, Illus Industries, Heil #1
C:

FORMATION	SAMPLE	E LOG	DATUM	A. ELOG	B. ELOG	C. DT	DESCRIPTION	DRILLING TIME (MINUTES/FOOT)	REMARKS
Topoka	2339	-635	-634	-635	-634		Limestone: gray to beige, medium crystalline, dense, some fair to good intercrystalline porosity, no show, much dark gray shale		Topeka 2339 -656
Heebner	2600	-921	-922	-921	-922		Limestone: gray, medium crystalline, dense, little visible porosity, no show <i>samples above this point questionable</i>		King Hill 2432 -749
Douglas	2629	-951	-952	-951	-952		Limestone: beige to gray, medium crystalline, poor to fair intercrystalline porosity, trace black spotted gilsonitic stains, no show free oil, no odor, no fluorescence		Queen Hill 2508 -825
Brown	2719	-1027	-1030	-1027	-1030		Limestone: off white to beige, medium crystalline, poor intercrystalline porosity, no show		Heebner 2600 -917
Lansing	2729	-1042	-1047	-1042	-1047		Limestone: gray to beige, fine to medium crystalline, poor to fair intercrystalline porosity, no show, fair amount gray chert		Toronto 2618 -935
3S Porosity	2763	-1143	-1076	-1143	-1076		Limestone: gray to beige, fine to medium crystalline, poor to fair intercrystalline porosity, no show, fair amount gray chert, trace pyrite		Douglas 2629 -946
90 Porosity	2831	-1144	-1150	-1144	-1150		Limestone: gray to beige to light brown, medium to coarsely crystalline, very poor intercrystalline porosity, no show, fair amount gray chert, trace pyrite		Brown Lime 2713 -1030
RTD	2950	-1263	-1492	-1263	-1492		Limestone: off white to light brown, slightly chalky, little visible porosity, no show, fossiliferous w/spirifers.		Lansing 2729 -1046
							Shale: black, carbonaceous, with calcareous inclusions		35' zone porosity 2763 -1080
							Limestone: beige to tan, coarsely crystalline, dense, no porosity, no show		pipe strap 0.04' short to board vis 47 wt 8.8 wl 8.8
							Shale: dark gray		2770' 30" sample x12
							Limestone: light brown, medium crystalline, little visible porosity, no show, fossiliferous w/fusulinids		2776' 30" sample x12
							Limestone: off white to beige to light brown, medium to coarsely crystalline, poor intercrystalline porosity, fossiliferous w/fusulinids, much gray chert		90' zone porosity 2831 -1148
							Limestone: beige to gray, coarsely crystalline, dense, no porosity, no show, fossiliferous		Morning tour did not catch any samples after DST #2. Bailights caught & continued samples from 2870 to RTD.
							Limestone: gray to beige, coarsely crystalline, dense no visible porosity, no show		2776' 30" sample x23
							Shale: black, carbonaceous		2836' 30" sample x18
							Limestone: off white to gray, medium to coarsely crystalline, poor intercrystalline porosity, no show		vis 49 wt 8.8 wl 9.2
							Limestone: beige to off white, fine to medium crystalline, fair to good intercrystalline porosity, no show		RTD 2950 -1267
							Limestone: light beige, medium crystalline, fair oomoldic porosity, no show		
							Limestone: light brown to gray, medium crystalline, poor to fair intercrystalline porosity, no show		
							Limestone: beige, medium crystalline, fair oomoldic porosity, no show		
							Limestone: beige, medium crystalline, fair oomoldic porosity, no show		
							Limestone: gray, coarsely crystalline, dense, no visible porosity, no show		
							Limestone: beige, medium crystalline, fair to good oomoldic porosity, no show		
							Shale: black, carbonaceous		
							Limestone: light brown, coarsely crystalline, dense, little visible porosity, no show		
							Shale: dark gray		
							Shale: red to dark gray		
							Sandstone: light green, very fine grained, well sorted, fair calcareous cement, good intergranular porosity, no show, trace mica & much gray to green shale		
							Sandstone: light green, very fine grained, well sorted, fair calcareous cement, fair intergranular porosity, no show, trace mica & much gray to green shale		
							Shale: red to dark gray		
							Shale: greenish gray, arenaceous, no show		
							Shale: greenish gray, arenaceous, no show		
							Shale: dark gray		
							Limestone: light brown, micritic, little visible porosity, no show, fossiliferous w/fusulinids		
							Shale: dark gray		

Cobalt Energy, LLC 1683 KB
Toman Unit "A" #1-36
2,306 FNL & 2,296 FWL 36-15S-9W
Ellsworth County, Kansas

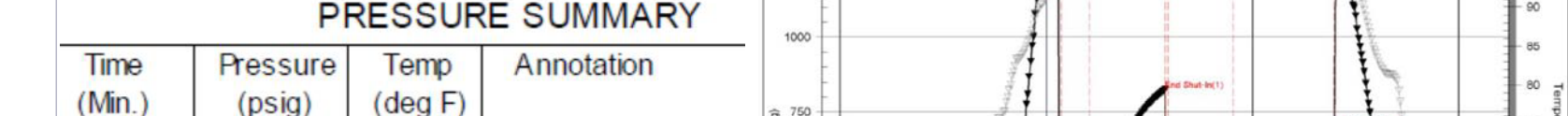
Comments:

DST #1
Interval: 2751.00 ft (KB) To 2776.00 ft (KB) (TVD)
Total Depth: 2776.00 ft (KB) (TVD)
30-60-60-90

TEST COMMENT: IF: Strong blow BOB 15 min
IS: no blow
FF: Strong blow BOB 25 min
FSI: No blow back

Recovery

Length (ft)	Description	Volume (bb)
0.00	310' GIP	0.00
130.00	Mud with oil spots	0.78



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1272.56	92.98	Initial Hydro-static
0	216.93	95.59	Open To Flow (1)
28	184.87	94.86	Shut-In(1)
94	825.76	95.24	End Shut-In(1)
96	138.20	95.67	Open To Flow (2)
153	117.75	96.69	Shut-In(2)
241	690.38	97.59	End Shut-In(2)
244	1244.56	97.33	Final Hydro-static

DST #2
Interval: 2827.00 ft (KB) To 2836.00 ft (KB) (TVD)
Total Depth: 2836.00 ft (KB) (TVD)
30-60-60-90

TEST COMMENT: IF: Weak blow 3 1/4"
IS: No blow back
FF: Fair blow 7"
FSI: No blow back

Recovery

Length (ft)	Description	Volume (bb)
60.00	MW Oil Spots	0.30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1330.99	89.40	Initial Hydro-static
4	16.77	89.98	Open To Flow (1)
37	35.00	92.75	Shut-In(1)
90	870.42	95.10	End Shut-In(1)
92	20.63	95.08	Open To Flow (2)
151	35.84	97.01	Shut-In(2)
243	935.00	98.65	End Shut-In(2)
245	1302.63	98.93	Final Hydro-static

DST Results Provided By: **TRILOBITE TESTING, INC**