File C.#2 ACT/007/016
Copy to Pam

R-234 0026

Memorandum

UTAH DEPARTMENT OF TRANSPORTATION

DATE: June 22, 1984

TO : Pam Littig, Reclamation Eng.
Division of Oil, Gas, & Mining

FROM : Albert J. Spensko,
District 4, Materials Engineer

SUBJECT: Tests taken on Settlement Pond
Beaver Creek Coal Co.

The results of the tests taken June 13, 1984 on the settleing pond at the Beaver Creek Coal Co. are as follows;

T-99-D Proctor	115.9 Lbs Cu/Ft.
Optimum Moisture	13.7 %
Density Test No. 1	97.2 % Compaction 14.9 % Moisture
Density Test No. 2	98.4 % Compaction 13.1 % Moisture
Density Test No. 3	96.2 % Compaction 13.1 % Moisture
Liquid Limit	32,6 %
Plasticity Index	14.4 %

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The density tests were taken with a TROXLER Moisture-Density device at locations and depths as directed by the Division of Oil, Gas, And Mining Representive.

AJS/dmj

Form R-288
(Rev. 1-2-69)

UTAH STATE DEPARTMENT OF HIGHWAYS
NUCLEAR MOISTURE - DENSITY DETERMINATIONS

PROJECT NAME DIVISION OF GAS, OIL & MINING DATE 6-13-84

PROJECT NO. BEAVER CREEK COAL CO. AUTH. NO.

INSTRUMENT USED AND NO.: 7514 3411-b TROXLER MATERIAL TYPE: CLAY w/ROCK

DENSITY BEFORE		DENSITY AFTER		MOISTURE BEFORE		MOISTURE AFTER	
1		1		1		1	
2		2		2		2	
3		3		3		3	
Total		Total		Total		Total	
Ave.		Ave.		Ave.		Ave.	
Day Ave. CPM				Day Ave. CPM			

Test No.	Station Ft. Rt. or Lt. of Line	Fin.	Prog.		Air Gap Reading	Counts Per Min.	Count Ratio	Lbs. Ft.^{3}	Dry Den.	Proctor	T-180 T-99	% Comp.
1	2 Ft depth			Density	2695	1836	NA	129.5	112.7	115.9	X	97.2
	Hole #1 6" Probe			Moisture	519	182		16.8		14.9 %		
2	4 Ft depth			Density	2695	1847	NA	129.0	114.1	115.9		98.4
	Same HOLE AS #1 6" Probe			Moisture	519	164		14.9		13.1 %		
3	6 Ft depth			Density	2695	1260	NA	126.2	111.5	115.9		96.2
	Hole #2 8" Probe			Moisture	519	161		14.6		13.1 %		
				Density								
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Count Ratio = Field Count / Standard Count

Air Gap Ratio = Air Gap Reading / Direct Contact Reading

CPM = Counts Per Min.

Remarks

Tested By Dale M Fowler Project Engineer