

# Log Analysis

GEOLOGY

4703301246

Schlumberger

COMPANY  
**CONSOLIDATED GAS SUPPLY CORPORATION**  
 FIELD COUNTY  
 UNION DISTRICT **HARRISON**

WELL  
**I. W. STUTTLER #12063**  
 STATE  
**WEST VIRGINIA**

DEPTH	$R_B$	$\phi_D$	$R_T$	$\sqrt{\frac{R_w}{R_T}}$	% POROSITY	% WATER	REMARKS
3462-64	2.63	3.5	25	.045	3.5	100	
✓ 64-66	2.55	6.2	36	.037	6.2	59	
✓ 66-68	2.48	8.6	49	.032	8.6	37	
# 68-70	2.56	5.7	43	.034	5.7	59	
70-72	2.58	5	43	.034	5	68	
✓ 72-74	2.55	6	51	.031	6	52	
3474-76	2.57	5.3	45	.033	5.3	62	
✓ 3484-86	2.53			.029	6.5	40	
3480-82	2.58	5.1	35	.038	5.1	74	
✓ 82-84	2.55	6	48	.032	6	53	
✓ 84-86	2.55	6	52	.031	6	52	
86-88	2.58	4.9	45	.033	4.9	66	
✓ 88-90	2.54	6.3	55	.030	6.3	47	
✓ 90-92	2.51	7.3	70	.027	7.3	37	
✓ 92-94	2.52	7.0	67	.027	7.0	38	
✓ 3494-96	2.54	6.4	48	.032	6.4	50	
4334-36	2.59	5	25	.045	5	89	
4336-38	2.51	7.6	43	.034	7.6	45	
4338-40	2.54	6.5	43	.034	6.5	52	
4432-34	2.58	5.2	34	.038	5.2	73	
34-36	2.51	7.5	49	.032	7.5	42	
36-38	2.50	7.7	68	.027	7.7	35	
38-40	2.58	4.8	60	.029	4.8	60	
4440-42	2.56	5.7	45	.033	5.7	58	
4582-84	2.57	5.3	50	.032	5.3	60	
84-86	2.53	6.5	90	.024	6.5	37	
86-88	2.54	6.2	83	.025	6.2	41	
88-90	2.51	7.4	70	.027	7.4	37	
90-92	2.52	7	61	.029	7	41	
92-94	2.57	5.2	55	.030	5.2	57	
94-96	2.56	5.7	46	.033	5.7	58	
96-98	2.57	5.4	44	.034	5.4	63	
4598-00	2.57	5.3	48	.032	5.3	60	
4600-02	2.57	5.3	45	.033	5.3	62	

$R_{ma} = 2.68$

$R_w = .05$

$\phi_D = \frac{R_{ma} - R_B + \sqrt{\frac{R_w}{R_T}}}{R_{ma}}$  "AIR HOLE FORMULA"

$S_w = \frac{1}{\phi} \sqrt{\frac{R_w}{R_T}}$

All interpretations are opinions based on inferences from electrical and other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

DATE  
5/22/78

LOCATION  
FAIRMONT

ENGINEER  
JORDAN

SWS-1325-D