

GIRAL LIGNITE PROJECT, BARMER
LITHOLOGY IN BOREHOLES OF JALELA BLOCK

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-25	0.00	1.00	1.00	Aeolian Sand
	1.00	16.60	15.60	Bentonitic Clay
	16.60	17.20	0.60	Carbonaceous clay
	17.20	17.60	0.40	Clay
	17.60	18.50	0.90	l/Cal. Of lignite & Carb. Clay
	18.50	26.80	8.30	Clay
	26.80	27.00	0.20	l/Cal. Of lignite & Carb. Clay
	27.00	27.80	0.80	Lignite
	27.80	28.20	0.40	clay
	28.20	29.00	0.80	l/Cal. Of lignite & Carb. Clay
	29.00	30.20	1.20	Clay
	30.20	30.60	0.40	l/Cal. Of lignite & Carb. Clay
	30.60	41.50	10.90	Grey Black Clay
	41.50	42.60	1.10	Lignite
	42.60	43.20	0.60	Grey Black Clay
	43.20	43.60	0.40	l/Cal. Of lignite & Carb. Clay
	43.60	44.60	1.00	Grey Black Clay
	44.60	45.20	0.60	Lignite
	45.20	45.50	0.30	l/Cal. Of lignite & Carb. Clay
	45.50	46.50	1.00	Greenish Grey Clay
	46.50	46.80	0.30	Lignite
	46.80	47.30	0.50	Greenish Grey Clay
	47.30	47.80	0.50	Lignite
	47.80	48.00	0.20	Greenish Grey Clay
B.H.No.	DEPTH		THICKNESS	LITHOLOGY
R-26	FROM	TO		
	0.00	1.50	1.50	Aeolian Sand
	1.50	18.60	17.10	Bentonite Variegated
	18.60	18.90	0.30	l/Cal. Of lignite & Carb. Clay
	18.90	23.00	4.10	Greenish Grey Clay
	23.00	24.40	1.40	Lignite
	24.40	28.80	4.40	Greenish Grey Clay
	28.80	29.50	0.70	Carbonaceous clay
	29.50	29.80	0.30	Greenish Grey Clay
	29.80	30.10	0.30	l/Cal. Of lignite & Carb. Clay
	30.10	30.90	0.80	Greenish Grey Clay
	30.90	31.50	0.60	Lignite
	31.50	32.20	0.70	Greenish Grey Clay
	32.20	32.70	0.50	Lignite
	32.70	37.00	4.30	Greenish Grey Clay
	37.00	37.40	0.40	Carbonaceous clay
	37.40	38.30	0.90	l/Cal. Of lignite & Carb. Clay

Lithology of Jalelo Block

	38.30	40.00	1.70	Greenish Grey Clay
	40.00	41.70	1.70	l/Cal. Of lignite & Carb. Clay
	41.70	48.60	6.90	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-27	0.00	1.00	1.00	Aeolian Sand
	1.00	19.60	18.60	Bentonite Variegated clay
	19.60	20.00	0.40	Carbonaceous clay
	20.00	22.50	2.50	Grey Clay
	22.50	23.60	1.10	Lignite
	23.60	27.50	3.90	Greenish Grey Clay
	27.50	28.30	0.80	Lignite
	28.30	28.80	0.50	Greenish Grey Clay
	28.80	29.20	0.40	l/Cal. Of lignite & Carb. Clay
	29.20	30.00	0.80	Greenish Grey Clay
	30.00	30.60	0.60	Lignite
	30.60	31.40	0.80	Greenish Grey Clay
	31.40	31.90	0.50	l/Cal. Of lignite & Carb. Clay
	31.90	36.00	4.10	Greenish Grey Clay
	36.00	36.40	0.40	Lignite
	36.40	37.20	0.80	l/Cal. Of lignite & Carb. Clay
	37.20	37.60	0.40	Greenish Grey Clay
	37.60	38.00	0.40	l/Cal. Of lignite & Carb. Clay
	38.00	38.40	0.40	Carbonaceous clay
	38.40	40.20	1.80	Greenish Grey Clay
	40.20	41.00	0.80	l/Cal. Of lignite & Carb. Clay
	41.00	43.00	2.00	Greenish Grey Clay
	43.00	43.60	0.60	Carbonaceous clay
	43.60	55.60	12.00	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-28	0.00	1.00	1.00	Aeolian Sand
	1.00	6.00	5.00	Bentonite Variegated
	6.00	15.40	9.40	Bentonite Variegated clay
	15.40	17.50	2.10	Greenish Grey Clay
	17.50	18.20	0.70	Carbonaceous clay
	18.20	29.00	10.80	Greenish Grey Clay
	29.00	29.40	0.40	l/Cal. Of lignite & Carb. Clay
	29.40	30.40	1.00	Greenish Grey Clay
	30.40	30.80	0.40	Lignite
	30.80	31.80	1.00	Carbonaceous clay
	31.80	32.30	0.50	Lignite
	32.30	33.00	0.70	Grey black clay
	33.00	33.40	0.40	Lignite

Lithology of Jalelo Block

	33.40	34.20	0.80	Grey black clay
	34.20	34.80	0.60	Lignite
	34.80	40.60	5.80	Grey black clay
	40.60	41.30	0.70	Lignite
	41.30	48.00	6.70	Greenish Grey Clay
	48.00	48.60	0.60	Carbonaceous clay
	48.60	49.00	0.40	Greenish Grey Clay
	49.00	49.40	0.40	Carbonaceous clay
	49.40	61.40	12.00	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-29	0.00	1.00	1.00	Aeolian Sand
	1.00	6.00	5.00	Bentonite Variegated
	6.00	23.80	17.80	Bentonite Variegated clay
	23.80	24.40	0.60	l/Cal. Of lignite & Carb. Clay
	24.40	26.20	1.80	Grey Clay
	26.20	26.50	0.30	Lignite
	26.50	34.00	7.50	Greenish Grey Clay
	34.00	34.70	0.70	Lignite
	34.70	44.00	9.30	Greenish Grey Clay
	44.00	44.80	0.80	Lignite
	44.80	45.60	0.80	Greenish Grey Clay
	45.60	46.20	0.60	Lignite
	46.20	46.70	0.50	Greenish Grey Clay
	46.70	47.20	0.50	Lignite
	47.20	47.60	0.40	Clay
	47.60	48.00	0.40	Lignite
	48.00	48.80	0.80	Greenish Grey Clay
	48.80	49.20	0.40	l/Cal. Of lignite & Carb. Clay
	49.20	54.00	4.80	Greenish Grey Clay
	54.00	54.40	0.40	Lignite
	54.40	54.70	0.30	Greenish Grey Clay
	54.70	55.10	0.40	l/Cal. Of lignite & Carb. Clay
	55.10	56.00	0.90	Greenish Grey Clay
	56.00	56.60	0.60	Lignite
	56.60	57.60	1.00	Greenish Grey Clay
	57.60	58.20	0.60	l/Cal. Of lignite & Carb. Clay
	58.20	58.40	0.20	Clay
	58.40	58.80	0.40	Lignite
	58.80	65.50	6.70	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-30	0.00	1.00	1.00	Aeolian Sand
	1.00	18.30	17.30	Bentonite Variegated
	18.30	18.50	0.20	Grey Clay

Lithology of Jalelo Block

	18.50	19.20	0.70	I/Cal. Of lignite & Carb. Clay
	19.20	23.70	4.50	Greenish Grey Clay
	23.70	24.90	1.20	Lignite
	24.90	26.30	1.40	Gray Black Clay
	26.30	26.70	0.40	Carbonaceous Clay
	26.70	27.10	0.40	Greenish Grey Clay
	27.10	27.40	0.30	I/Cal. Of lignite & Carb. Clay
	27.40	28.40	1.00	Gray Black Clay
	28.40	29.00	0.60	I/Cal. Of lignite & Carb. Clay
	29.00	30.80	1.80	Gray Black Clay
	30.80	31.10	0.30	I/Cal. Of lignite & Carb. Clay
	31.10	31.50	0.40	Greenish Grey Clay
	31.50	31.80	0.30	Lignite
	31.80	36.30	4.50	Greenish Grey Clay
	36.30	37.50	1.20	Lignite
	37.50	38.00	0.50	Greenish Grey Clay
	38.00	38.60	0.60	Lignite
	38.60	39.30	0.70	Greenish Grey Clay
	39.30	39.70	0.40	Lignite
	39.70	40.10	0.40	Greenish Grey Clay
	40.10	40.30	0.20	Lignite
	40.30	41.00	0.70	Gray Black Clay
	41.00	41.60	0.60	Lignite
	41.60	42.40	0.80	Greenish Grey Clay
	42.40	42.60	0.20	Carbonaceous Clay
	42.60	46.05	3.45	Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-31	0.00	1.00	1.00	Aeolian Sand
	1.00	15.20	14.20	Bentonite clay
	15.20	16.00	0.80	Carbonaceous Clay
	16.00	20.60	4.60	Clay
	20.60	21.20	0.60	Carbonaceous Clay
	21.20	24.50	3.30	Clay
	24.50	25.20	0.70	Lignite
	25.20	28.80	3.60	Clay
	28.80	29.40	0.60	Carbonaceous Clay
	29.40	30.80	1.40	Clay
	30.80	31.30	0.50	Lignite
	31.30	31.60	0.30	Clay
	31.60	31.70	0.10	Lignite
	31.70	34.20	2.50	Clay
	34.20	35.50	1.30	Lignite
	35.50	36.40	0.90	Clay
	36.40	37.10	0.70	I/Cal. Of lignite & Carb. Clay
	37.10	40.70	3.60	Clay

Lithology of Jalelo Block

	40.70	41.10	0.40	I/Cal. Of lignite & Carb. Clay
	41.10	42.10	1.00	Clay
	42.10	42.50	0.40	Lignite
	42.50	42.60	0.10	Carbonaceous Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-32	0.00	1.00	1.00	Aeolian Sand
	1.00	18.00	17.00	Bentonite Variegated
	18.00	35.60	17.60	Greenish Grey Clay
	35.60	36.10	0.50	Lignite
	36.10	45.00	8.90	Greenish Grey Clay
	45.00	45.60	0.60	Lignite
	45.60	46.40	0.80	Greenish Grey Clay
	46.40	46.90	0.50	Lignite
	46.90	47.50	0.60	Greenish Grey Clay
	47.50	48.00	0.50	Lignite
	48.00	48.60	0.60	Greenish Grey Clay
	48.60	49.00	0.40	Carbonaceous Clay
	49.00	53.60	4.60	Greenish Grey Clay
	53.60	54.00	0.40	Lignite
	54.00	56.60	2.60	Clay
	56.60	57.10	0.50	Lignite
	57.10	57.40	0.30	Greenish Grey Clay
	57.40	57.70	0.30	Lignite
	57.70	61.20	3.50	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-33	0.00	1.00	1.00	Aeolian Sand
	1.00	18.40	17.40	Bentonite Variegated
	18.40	27.20	8.80	Grey Clay
	27.20	27.60	0.40	Lignite
	27.60	29.00	1.40	Greenish Grey Clay
	29.00	29.70	0.70	Carbonaceous Clay
	29.70	30.20	0.50	I/Cal. Of lignite & Carb. Clay
	30.20	30.60	0.40	Carbonaceous Clay
	30.60	34.00	3.40	Greenish Grey Clay
	34.00	34.70	0.70	Lignite
	34.70	35.50	0.80	Greenish Grey Clay
	35.50	36.00	0.50	I/Cal. Of lignite & Carb. Clay
	36.00	36.40	0.40	Gray Black Clay
	36.40	36.70	0.30	Lignite
	36.70	37.10	0.40	Gray Black Clay
	37.10	37.80	0.70	Lignite
	37.80	38.60	0.80	Gray Black Clay
	38.60	38.90	0.30	I/Cal. Of lignite & Carb. Clay

Lithology of Jalelo Block

	38.90	45.50	6.60	Greenish Grey Clay
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B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-34	0.00	1.00	1.00	Aeolian Sand
	1.00	7.70	6.70	Bentonite Variegated
	7.70	8.40	0.70	Sandy Clay
	8.40	23.50	15.10	Bentonite Clay
	23.50	24.00	0.50	Greenish Grey Clay
	24.00	24.50	0.50	l/Cal. Of lignite & Carb. Clay
	24.50	31.00	6.50	Greenish Grey Clay
	31.00	31.30	0.30	l/Cal. Of lignite & Carb. Clay
	31.30	31.60	0.30	Clay
	31.60	32.10	0.50	Lignite
	32.10	36.60	4.50	Greenish Grey Clay
	36.60	37.60	1.00	Lignite
	37.60	38.20	0.60	Greenish Grey Clay
	38.20	38.60	0.40	Lignite
	38.60	40.40	1.80	Greenish Grey Clay
	40.40	40.90	0.50	l/Cal. Of lignite & Carb. Clay
	40.90	41.80	0.90	Greenish Grey Clay
	41.80	42.20	0.40	Lignite
	42.20	45.20	3.00	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-35	0.00	1.50	1.50	Aeolian Sand
	1.50	21.20	19.70	Bentonite Variegated clay
	21.20	21.80	0.60	l/Cal. Of lignite & Carb. Clay
	21.80	27.00	5.20	Greenish Grey Clay
	27.00	27.60	0.60	Carbonaceous Clay
	27.60	28.10	0.50	Grey Black Clay
	28.10	28.30	0.20	Carbonaceous Clay
	28.30	35.90	7.60	Greenish Grey Clay
	35.90	36.50	0.60	l/Cal. Of lignite & Carb. Clay
	36.50	37.20	0.70	Greenish Grey Clay
	37.20	37.70	0.50	Lignite
	37.70	37.85	0.15	l/Cal. Of lignite & Carb. Clay
	37.85	42.80	4.95	Greenish Grey Clay
	42.80	43.00	0.20	l/Cal. Of lignite & Carb. Clay
	43.00	44.10	1.10	Greenish Grey Clay
	44.10	44.40	0.30	l/Cal. Of lignite & Carb. Clay
	44.40	47.00	2.60	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-36	0.00	1.00	1.00	Aeolian Sand

Lithology of Jalelo Block

	1.00	8.70	7.70	Bentonitic clay Variegated
	8.70	17.60	8.90	Greenish Grey Clay
	17.60	18.00	0.40	Carbonaceous Clay
	18.00	27.30	9.30	Greenish Grey Clay
	27.30	27.70	0.40	l/Cal. Of lignite & Carb. Clay
	27.70	29.50	1.80	Grey clay
	29.50	30.30	0.80	l/Cal. Of lignite & Carb. Clay
	30.30	31.60	1.30	Grey clay
	31.60	32.30	0.70	Lignite
	32.30	33.40	1.10	Greenish Grey Clay
	33.40	33.80	0.40	Lignite
	33.80	34.40	0.60	Greenish Grey Clay
	34.40	34.90	0.50	Lignite
	34.90	35.30	0.40	Greenish Grey Clay
	35.30	35.50	0.20	Lignite
	35.50	36.60	1.10	Greenish Grey Clay
	36.60	36.90	0.30	Lignite
	36.90	42.10	5.20	Greenish Grey Clay
	42.10	42.50	0.40	Lignite
	42.50	42.70	0.20	Greenish Grey Clay
	42.70	43.20	0.50	Lignite
	43.20	44.50	1.30	Greenish Grey Clay
	44.50	45.00	0.50	l/Cal. Of lignite & Carb. Clay
	45.00	50.50	5.50	Greenish Grey Clay
	50.50	51.20	0.70	l/Cal. Of lignite & Carb. Clay
	51.20	51.90	0.70	Greenish Grey Clay
	51.90	52.10	0.20	Lignite
	52.10	53.70	1.60	Greenish Grey Clay
	53.70	54.40	0.70	Lignite
	54.40	55.40	1.00	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-37	0.00	1.00	1.00	Aeolian Sand
	1.00	14.90	13.90	Bentonitic clay Variegated
	14.90	18.70	3.80	Grey clay
	18.70	19.20	0.50	Lignite
	19.20	19.60	0.40	Greenish Grey Clay
	19.60	20.00	0.40	Carbonaceous Clay
	20.00	22.00	2.00	Greenish Grey Clay
	22.00	22.90	0.90	Lignite
	22.90	24.00	1.10	Gray Black Clay
	24.00	24.20	0.20	Lignite
	24.20	24.50	0.30	Clay
	24.50	24.80	0.30	Lignite
	24.80	25.70	0.90	Greenish Grey Clay
	25.70	26.20	0.50	l/Cal. Of lignite & Carb. Clay

Lithology of Jalelo Block

	26.20	27.00	0.80	Greenish Grey Clay
	27.00	27.20	0.20	Lignite
	27.20	32.10	4.90	Greenish Grey Clay
	32.10	32.50	0.40	l/Cal. Of lignite & Carb. Clay
	32.50	32.70	0.20	Greenish Grey Clay
	32.70	33.80	1.10	Lignite
	33.80	34.20	0.40	Gray Black Clay
	34.20	34.80	0.60	Lignite
	34.80	37.70	2.90	Gray Black Clay
	37.70	38.20	0.50	l/Cal. Of lignite & Carb. Clay
	38.20	38.40	0.20	Gray Black Clay
	38.40	38.80	0.40	Lignite
	38.80	55.30	16.50	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-38	0.00	1.00	1.00	Aeolian Sand
	1.00	23.20	22.20	Bentonitic clay Variegated
	23.20	37.70	14.50	Greenish Grey Clay
	37.70	37.90	0.20	l/Cal. Of lignite & Carb. Clay
	37.90	38.20	0.30	Greenish Grey Clay
	38.20	38.70	0.50	Lignite
	38.70	39.20	0.50	Grey clay
	39.20	39.50	0.30	Lignite
	39.50	42.70	3.20	Grey clay
	42.70	42.90	0.20	Lignite
	42.90	43.60	0.70	Grey clay
	43.60	44.30	0.70	Lignite
	44.30	47.40	3.10	Greenish Grey Clay
	47.40	47.60	0.20	l/Cal. Of lignite & Carb. Clay
	47.60	48.30	0.70	Greenish Grey Clay
	48.30	48.50	0.20	l/Cal. Of lignite & Carb. Clay
	48.50	49.90	1.40	Grey Black Clay
	49.90	50.50	0.60	Lignite
	50.50	52.00	1.50	Greenish Grey Clay
	52.00	52.05	0.05	l/Cal. Of lignite & Carb. Clay
	52.05	55.00	2.95	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-39	0.00	1.00	1.00	Aeolian Sand
	1.00	23.00	22.00	Bentonitic clay Variegated
	23.00	32.80	9.80	Greenish Grey Clay
	32.80	33.00	0.20	Carbonaceous Clay
	33.00	34.40	1.40	Greenish Grey Clay
	34.40	34.80	0.40	Carbonaceous Clay
	34.80	42.60	7.80	Greenish Grey Clay

Lithology of Jalelo Block

	42.60	42.90	0.30	I/Cal. Of lignite & Carb. Clay
	42.90	43.10	0.20	Carbonaceous Clay
	43.10	46.40	3.30	Greenish Grey Clay
	46.40	46.80	0.40	I/Cal. Of lignite & Carb. Clay
	46.80	47.80	1.00	Greenish Grey Clay
	47.80	48.00	0.20	Carbonaceous Clay
	48.00	49.00	1.00	Greenish Grey Clay
	49.00	49.20	0.20	Carbonaceous Clay
	49.20	54.00	4.80	Greenish Grey Clay
	54.00	54.40	0.40	I/Cal. Of lignite & Carb. Clay
	54.40	56.20	1.80	Greenish Grey Clay
	56.20	56.60	0.40	Lignite
	56.60	57.60	1.00	Clay
	57.60	57.80	0.20	Lignite
	57.80	58.60	0.80	Clay
	58.60	58.80	0.20	I/Cal. Of lignite & Carb. Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-40	0.00	1.50	1.50	Aeolian Sand
	1.50	17.40	15.90	Bentonitic clay Variegated
	17.40	17.80	0.40	Carbonaceous Clay
	17.80	26.70	8.90	Greenish Grey Clay
	26.70	27.20	0.50	Carbonaceous Clay
	27.20	30.20	3.00	Greenish Grey Clay
	30.20	30.30	0.10	Carbonaceous Clay
	30.30	33.20	2.90	Greenish Grey Clay
	33.20	35.20	2.00	Lignite
	35.20	35.40	0.20	Carbonaceous Clay
	35.40	38.00	2.60	Greenish Grey Clay
	38.00	38.50	0.50	Lignite
	38.50	44.50	6.00	Grey Black Clay
	44.50	45.10	0.60	I/Cal. Of lignite & Carb. Clay
	45.10	47.00	1.90	Grey Black Clay
	47.00	47.20	0.20	Lignite
	47.20	47.60	0.40	Clay
	47.60	48.80	1.20	Lignite
	48.80	49.80	1.00	Greenish Grey Clay
	49.80	49.95	0.15	Lignite
	49.95	50.15	0.20	Carbonaceous Clay
	50.15	50.30	0.15	I/Cal. Of lignite & Carb. Clay
	50.30	55.00	4.70	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-41	0.00	1.50	1.00	Aeolian Sand
	1.50	21.40	19.90	Bentonitic clay Variegated

Lithology of Jalelo Block

	21.40	25.40	4.00	Greenish Grey Clay
	25.40	26.00	0.60	Argillaceous sandstone
	26.00	35.40	9.40	Greenish Grey Clay
	35.40	35.80	0.40	Lignite
	35.80	36.60	0.80	Greenish Grey Clay
	36.60	36.80	0.20	l/Cal. Of lignite & Carb. Clay
	36.80	38.00	1.20	Greenish Grey Clay
	38.00	38.40	0.40	l/Cal. Of lignite & Carb. Clay
	38.40	39.20	0.80	Greenish Grey Clay
	39.20	39.40	0.20	Lignite
	39.40	45.80	6.40	Greenish Grey Clay
	45.80	46.80	1.00	Lignite
	46.80	47.80	1.00	Greenish Grey Clay
	47.80	48.00	0.20	Lignite
	48.00	55.00	7.00	Greenish Grey Clay
	55.00	55.20	0.20	Lignite
	55.20	56.40	1.20	Greenish Grey Clay
	56.40	57.00	0.60	l/Cal. Of lignite & Carb. Clay
	57.00	57.40	0.40	Greenish Grey Clay
	57.40	57.60	0.20	l/Cal. Of lignite & Carb. Clay
	57.60	58.40	0.80	Clay
	58.40	58.80	0.40	Carbonaceous Clay
	58.80	60.50	1.70	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-42	0.00	1.00	1.00	Aeolian Sand
	1.00	7.60	6.60	Bentonitic clay Variegated
	7.60	21.50	13.90	Grey Clay
	21.50	22.00	0.50	Lignite
	22.00	28.60	6.60	Greenish Grey Clay
	28.60	28.80	0.20	Carbonaceous Clay
	28.80	29.30	0.50	Greenish Grey Clay
	29.30	29.60	0.30	Carbonaceous Clay
	29.60	36.20	6.60	Greenish Grey Clay
	36.20	36.40	0.20	l/Cal. Of lignite & Carb. Clay
	36.40	38.00	1.60	Greenish Grey Clay
	38.00	39.20	1.20	Lignite
	39.20	39.80	0.60	Clay
	39.80	40.00	0.20	l/Cal. Of lignite & Carb. Clay
	40.00	41.80	1.80	Greenish Grey Clay
	41.80	42.00	0.20	Carbonaceous Clay
	42.00	43.40	1.40	Grey Black Clay
	43.40	43.90	0.50	Carbonaceous Clay
	43.90	44.60	0.70	Greenish Grey Clay
	44.60	45.00	0.40	Carbonaceous Clay
	45.00	52.00	7.00	Greenish Grey Clay

Lithology of Jalelo Block

	52.00	52.80	0.80	Lignite
	52.80	54.80	2.00	l/Cal. Of lignite & Carb. Clay
	54.80	56.20	1.40	Clay
	56.20	56.80	0.60	Lignite
	56.80	57.20	0.40	Clay
	57.20	57.60	0.40	Lignite
	57.60	59.20	1.60	Greenish Grey Clay
	59.20	59.60	0.40	Lignite
	59.60	60.00	0.40	Greenish Grey Clay
	60.00	60.40	0.40	Carbonaceous Clay
	60.40	61.40	1.00	Greenish Grey Clay
	61.40	62.00	0.60	l/Cal. Of lignite & Carb. Clay
	62.00	63.40	1.40	Grey Black Clay
	63.40	63.80	0.40	Carbonaceous Clay
	63.80	65.50	1.70	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-43	0.00	1.00	1.00	Aeolian Sand
	1.00	21.00	20.00	Bentonitic clay Variegated
	21.00	21.40	0.40	l/Cal. Of lignite & Carb. Clay
	21.40	21.80	0.40	Grey Clay
	21.80	22.20	0.40	Lignite
	22.20	45.80	23.60	Greenish Grey Clay
	45.80	46.20	0.40	Lignite
	46.20	47.60	1.40	Greenish Grey Clay
	47.60	48.00	0.40	Carbonaceous Clay
	48.00	49.60	1.60	Greenish Grey Clay
	49.60	50.00	0.40	Lignite
	50.00	52.20	2.20	Greenish Grey Clay
	52.20	52.60	0.40	Lignite
	52.60	52.80	0.20	Greenish Grey Clay
	52.80	53.20	0.40	Lignite
	53.20	58.40	5.20	Greenish Grey Clay
	58.40	59.00	0.60	Lignite
	59.00	59.60	0.60	l/Cal. Of lignite & Carb. Clay
	59.60	61.00	1.40	Greenish Grey Clay
	61.00	61.80	0.80	Lignite
	61.80	67.80	6.00	Greenish Grey Clay
	67.80	68.80	1.00	Carbonaceous Clay
	68.80	71.50	2.70	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-46	0.00	1.50	1.50	Aeolian Sand
	1.50	23.00	21.50	Bentonitic clay Variegated
	23.00	23.50	0.50	l/Cal. Of lignite & Carb. Clay

Lithology of Jalelo Block

	23.50	29.20	5.70	Greenish Grey Clay
	29.20	29.80	0.60	l/Cal. Of lignite & Carb. Clay
	29.80	33.00	3.20	Greenish Grey Clay
	33.00	33.40	0.40	l/Cal. Of lignite & Carb. Clay
	33.40	34.00	0.60	Grey black clay
	34.00	34.40	0.40	l/Cal. Of lignite & Carb. Clay
	34.40	35.20	0.80	Greenish Grey Clay
	35.20	36.00	0.80	l/Cal. Of lignite & Carb. Clay
	36.00	41.20	5.20	Greenish Grey Clay
	41.20	41.90	0.70	Lignite
	41.90	42.60	0.70	l/Cal. Of lignite & Carb. Clay
	42.60	44.60	2.00	Grey black clay
	44.60	45.20	0.60	Lignite
	45.20	45.80	0.60	clay
	45.80	46.40	0.60	Carbonaceous Clay
	46.40	53.60	7.20	Clay & Silt in Alternate Grey Black
	53.60	54.60	1.00	Lignite
	54.60	58.80	4.20	Greenish Grey Clay
	58.80	59.20	0.40	l/Cal. Of lignite & Carb. Clay
	59.20	60.00	0.80	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-47	0.00	3.80	3.80	Aeolian Sand
	3.80	14.00	10.20	Bentonitic clay Variegated
	14.00	17.20	3.20	Clay & Silt in Alternate Greenish grey
	17.20	17.80	0.60	Carbonaceous Clay
	17.80	26.00	8.20	Greenish Grey Clay
	26.00	27.00	1.00	l/Cal. Of lignite & Carb. Clay
	27.00	34.20	7.20	Greenish Grey Clay
	34.20	34.60	0.40	Lignite
	34.60	35.60	1.00	Greenish Grey Clay
	35.60	36.00	0.40	l/Cal. Of lignite & Carb. Clay
	36.00	36.40	0.40	Greenish Grey Clay
	36.40	36.80	0.40	Lignite
	36.80	38.00	1.20	Grey black clay
	38.00	38.40	0.40	Lignite
	38.40	39.00	0.60	clay
	39.00	39.40	0.40	Lignite
	39.40	39.60	0.20	clay
	39.60	39.80	0.20	Carbonaceous Clay
	39.80	40.40	0.60	Greenish Grey Clay
	40.40	40.70	0.30	Lignite
	40.70	46.60	5.90	Greenish Grey Clay
	46.60	47.30	0.70	Lignite
	47.30	48.80	1.50	Greenish Grey Clay
	48.80	49.60	0.80	Lignite

Lithology of Jalelo Block

	49.60	50.60	1.00	I/Cal. Of lignite & Carb. Clay
	50.60	56.80	6.20	Greenish Grey Clay
	56.80	57.20	0.40	Lignite
	57.20	59.40	2.20	Greenish Grey Clay
	59.40	60.00	0.60	Lignite
	60.00	61.50	1.50	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-48	0.00	1.50	1.50	Aeolian Sand
	1.50	7.00	5.50	Bentonitic clay Variegated
	7.00	7.10	0.10	SID. Siltstone/sandstone
	7.10	12.20	5.10	Bentonitic clay Variegated
	12.20	22.50	10.30	Greenish Grey Clay
	22.50	22.80	0.30	Lignite
	22.80	24.60	1.80	clay
	24.60	25.80	1.20	Lignite
	25.80	26.40	0.60	Carbonaceous Clay
	26.40	27.80	1.40	Grey black clay
	27.80	28.10	0.30	I/Cal. Of lignite & Carb. Clay
	28.10	29.40	1.30	Carbonaceous Clay
	29.40	29.70	0.30	I/Cal. Of lignite & Carb. Clay
	29.70	31.40	1.70	Grey black clay
	31.40	31.80	0.40	Lignite
	31.80	32.50	0.70	Grey black clay
	32.50	32.80	0.30	I/Cal. Of lignite & Carb. Clay
	32.80	37.80	5.00	Greenish Grey Clay
	37.80	38.80	1.00	Lignite
	38.80	39.70	0.90	Grey black clay
	39.70	40.00	0.30	Carbonaceous Clay
	40.00	40.60	0.60	clay
	40.60	41.00	0.40	I/Cal. Of lignite & Carb. Clay
	41.00	41.40	0.40	clay
	41.40	41.80	0.40	Lignite
	41.80	43.00	1.20	Greenish Grey Clay
	43.00	43.30	0.30	Lignite
	43.30	46.00	2.70	Greenish Grey Clay
	46.00	46.40	0.40	Lignite
	46.40	48.80	2.40	Greenish Grey Clay
	48.80	49.20	0.40	Carbonaceous Clay
	49.20	55.20	6.00	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-49	0.00	4.20	4.20	Aeolian Sand
	4.20	9.20	5.00	Bentonitic clay Variegated
	9.20	11.40	2.20	Ferruginous sandstone

Lithology of Jalelo Block

	11.40	23.80	12.40	Bentonitic clay Variegated
	23.80	24.10	0.30	Grey clay
	24.10	24.20	0.10	Carbonaceous Clay
	24.20	28.40	4.20	Greenish Grey Clay
	28.40	28.80	0.40	Carbonaceous Clay
	28.80	30.90	2.10	Greenish Grey Clay
	30.90	31.30	0.40	Carbonaceous Clay
	31.30	31.80	0.50	Clay & Silt in Alternate grey
	31.80	32.00	0.20	Carbonaceous Clay
	32.00	32.45	0.45	Grey clay
	32.45	32.55	0.10	Carbonaceous Clay
	32.55	33.90	1.35	Clay & Silt in Alternate grey
	33.90	34.05	0.15	Carbonaceous Clay
	34.05	40.20	6.15	Clay & Silt in Alternate grey
	40.20	40.80	0.60	l/Cal. Of lignite & Carb. Clay
	40.80	43.00	2.20	Grey clay
	43.00	43.40	0.40	Carbonaceous Clay
	43.40	45.00	1.60	Grey clay
	45.00	45.60	0.60	l/Cal. Of lignite & Carb. Clay
	45.60	46.80	1.20	Greenish Grey Clay
	46.80	47.40	0.60	Lignite
	47.40	48.20	0.80	l/Cal. Of lignite & Carb. Clay
	48.20	48.40	0.20	Lignite
	48.40	51.00	2.60	Greenish Grey Clay
	51.00	51.10	0.10	Carbonaceous Clay
	51.10	52.00	0.90	Grey clay
	52.00	52.10	0.10	Carbonaceous Clay
	52.10	52.20	0.10	l/Cal. Of lignite & Carb. Clay
	52.20	52.30	0.10	Greenish Grey Clay
	52.30	53.60	1.30	Lignite
	53.60	54.60	1.00	Greenish Grey Clay
	54.60	55.00	0.40	Lignite
	55.00	57.00	2.00	Greenish Grey Clay
	57.00	57.15	0.15	Carbonaceous Clay
	57.15	59.80	2.65	Greenish Grey Clay
	59.80	60.10	0.30	Carbonaceous Clay
	60.10	61.20	1.10	Greenish Grey Clay
	61.20	61.70	0.50	l/Cal. Of lignite & Carb. Clay
	61.70	63.60	1.90	Greenish Grey Clay
	63.60	64.20	0.60	Lignite
	64.20	64.35	0.15	Carbonaceous Clay
	64.35	64.45	0.10	l/Cal. Of lignite & Carb. Clay
	64.45	68.00	3.55	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-50	0.00	4.80	4.80	Aeolian Sand

Lithology of Jalelo Block

	4.80	35.80	31.00	Bentonitic clay Variegated
	35.80	36.20	0.40	Lignite
	36.20	41.40	5.20	Grey Black Clay
	41.40	41.90	0.50	Lignite
	41.90	45.40	3.50	Greenish Grey Clay
	45.40	46.40	1.00	l/Cal. Of lignite & Carb. Clay
	46.40	47.00	0.60	Greenish Grey Clay
	47.00	47.20	0.20	Lignite
	47.20	47.60	0.40	Carbonaceous Clay
	47.60	48.40	0.80	Greenish Grey Clay
	48.40	48.80	0.40	Lignite
	48.80	49.40	0.60	Greenish Grey Clay
	49.40	49.80	0.40	Lignite
	49.80	56.80	7.00	Greenish Grey Clay
	56.80	57.60	0.80	Carbonaceous Clay
	57.60	58.00	0.40	Greenish Grey Clay
	58.00	58.20	0.20	Carbonaceous Clay
	58.20	59.00	0.80	Greenish Grey Clay
	59.00	59.60	0.60	Carbonaceous Clay
	59.60	62.80	3.20	Greenish Grey Clay
	62.80	63.20	0.40	Carbonaceous Clay
	63.20	66.00	2.80	Greenish Grey Clay
	66.00	66.80	0.80	l/Cal. Of lignite & Carb. Clay
	66.80	70.50	3.70	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
MT-51	0.00	1.00	1.00	Aeolian Sand
	1.00	22.20	21.20	Grey Black Clay
	22.20	22.90	0.70	Lignite
	22.90	26.00	3.10	Greenish grey black clay
	26.00	26.60	0.60	l/Cal. Of lignite & Carb. Clay
	26.60	27.20	0.60	Greenish grey black clay
	27.20	27.60	0.40	l/Cal. Of lignite & Carb. Clay
	27.60	32.40	4.80	Greenish grey black clay
	32.40	33.20	0.80	Lignite
	33.20	33.80	0.60	Greenish grey black clay
	33.80	34.40	0.60	l/Cal. Of lignite & Carb. Clay
	34.40	36.00	1.60	Greenish Grey Clay
	36.00	36.90	0.90	Lignite
	36.90	37.15	0.25	Grey Black Clay
	37.15	37.40	0.25	l/Cal. Of lignite & Carb. Clay
	37.40	61.20	23.80	Greenish Grey Clay
	61.20	69.80	8.60	Glauconitic Sandstone
	69.80	72.80	3.00	Greenish Grey Clay
	72.80	85.50	12.70	Glauconitic Sandstone

Lithology of Jalelo Block

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
MT-84	0.00	0.50	0.50	Aeolian Sand
	0.50	17.00	16.50	Bentonite
	17.00	20.60	3.60	Greenish Gr. Black Greenish grey clay
	20.60	21.00	0.40	Carbonaceous Clay
	21.00	29.40	8.40	Greenish Gr. Black Greenish grey clay
	29.40	29.80	0.40	Carbonaceous Clay
	29.80	30.20	0.40	Greenish grey black clay
	30.20	30.60	0.40	Carbonaceous Clay
	30.60	38.00	7.40	Greenish grey black clay
	38.00	38.40	0.40	Carbonaceous Clay
	38.40	39.10	0.70	Greenish grey black clay
	39.10	39.90	0.80	l/Cal. Of lignite & Carb. Clay
	39.90	40.30	0.40	Greenish grey black clay
	40.30	40.80	0.50	Lignite
	40.80	41.50	0.70	Greenish grey black clay
	41.50	42.00	0.50	Lignite
	42.00	44.00	2.00	Greenish grey black clay
	44.00	44.70	0.70	l/Cal. Of lignite & Carb. Clay
	44.70	50.70	6.00	Greenish Grey Clay
	50.70	51.10	0.40	Carbonaceous Clay
	51.10	70.80	19.70	Greenish Grey Clay
	70.80	82.00	11.20	Glauconitic Sandstone

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
MT-53	0.00	1.00	1.00	Aeolian Sand
	1.00	14.00	13.00	Bentonite
	14.00	16.00	2.00	Greenish Grey Clay
	16.00	16.20	0.20	Lignite
	16.20	20.80	4.60	Greenish Grey Clay
	20.80	22.60	1.80	Lignite
	22.60	22.80	0.20	l/Cal. Of lignite & Carb. Clay
	22.80	24.20	1.40	Greenish Grey Clay
	24.20	25.20	1.00	Lignite
	25.20	26.30	1.10	Greenish Grey Clay
	26.30	27.10	0.80	l/Cal. Of lignite & Carb. Clay
	27.10	29.40	2.30	Greenish Grey Clay
	29.40	30.20	0.80	Carbonaceous Clay
	30.20	35.20	5.00	Greenish Grey Clay
	35.20	36.20	1.00	Carbonaceous Clay
	36.20	37.40	1.20	Greenish Grey Clay
	37.40	37.90	0.50	l/Cal. Of lignite & Carb. Clay
	37.90	38.90	1.00	Greenish Gr. Black Greenish grey clay
	38.90	40.30	1.40	Lignite

Lithology of Jalelo Block

	40.30	41.00	0.70	Greenish Grey Clay
	41.00	41.40	0.40	l/Cal. Of lignite & Carb. Clay
	41.40	41.60	0.20	Carbonaceous Clay
	41.60	41.95	0.35	l/Cal. Of lignite & Carb. Clay
	41.95	42.25	0.30	Carbonaceous Clay
	42.25	42.45	0.20	Lignite
	42.45	42.60	0.15	l/Cal. Of lignite & Carb. Clay
	42.60	62.20	19.60	Greenish Grey Clay
	62.20	73.20	11.00	Glauconitic Sandstone

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
MT-78	0.00	1.00	1.00	Aeolian Sand
	1.00	16.00	15.00	Bentonite
	16.00	19.60	3.60	Greenish Grey Clay
	19.60	20.20	0.60	l/Cal. Of lignite & Carb. Clay
	20.20	42.90	22.70	Greenish Grey Clay
	42.90	43.50	0.60	Carbonaceous Clay
	43.50	43.90	0.40	Greenish Grey Clay
	43.90	44.20	0.30	l/Cal. Of lignite & Carb. Clay
	44.20	47.60	3.40	Greenish Grey Clay
	47.60	48.00	0.40	l/Cal. Of lignite & Carb. Clay
	48.00	49.10	1.10	Greenish Grey Clay
	49.10	49.80	0.70	Lignite
	49.80	51.20	1.40	Greenish Grey Clay
	51.20	51.70	0.50	l/Cal. Of lignite & Carb. Clay
	51.70	54.20	2.50	Grey Black Clay
	54.20	54.60	0.40	Lignite
	54.60	55.20	0.60	Clay
	55.20	55.60	0.40	Lignite
	55.60	56.80	1.20	Greenish Grey Clay
	56.80	58.20	1.40	Lignite
	58.20	58.80	0.60	Greenish Grey Clay
	58.80	59.40	0.60	l/Cal. Of lignite & Carb. Clay
	59.40	78.80	19.40	Greenish Grey Clay
	78.80	103.80	25.00	Glauconitic Sandstone

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
MT-87	0.00	1.00	1.00	Aeolian Sand
	1.00	20.20	19.20	Bentonite
	20.20	23.90	3.70	Greenish Grey Clay
	23.90	24.10	0.20	l/Cal. Of lignite & Carb. Clay
	24.10	24.50	0.40	Lignite
	24.50	25.20	0.70	Greenish Gr. Black Greenish grey clay
	25.20	25.40	0.20	Carbonaceous Clay
	25.40	26.00	0.60	l/Cal. Of lignite & Carb. Clay

Lithology of Jalelo Block

	26.00	41.80	15.80	Greenish Gr. Black Greenish grey clay
	41.80	42.20	0.40	Lignite
	42.20	42.80	0.60	l/Cal. Of lignite & Carb. Clay
	42.80	46.20	3.40	Greenish Grey Clay
	46.20	46.80	0.60	Lignite
	46.80	47.10	0.30	Greenish Gr. Black Greenish grey clay
	47.10	47.50	0.40	Lignite
	47.50	48.10	0.60	Greenish Grey Clay
	48.10	48.50	0.40	Lignite
	48.50	48.90	0.40	l/Cal. Of lignite & Carb. Clay
	48.90	55.20	6.30	Greenish Grey Clay
	55.20	56.40	1.20	Lignite
	56.40	68.00	11.60	Greenish Grey Clay
	68.00	68.50	0.50	Lignite
	68.50	87.30	18.80	Greenish Gr. Black Greenish grey clay
	87.30	91.60	4.30	Glauconitic Sandstone

GIRAL LIGNITE PROJECT, BARMER
LITHOLOGY IN BOREHOLES OF GB-II BLOCK

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
MT-47	0.00	2.00	2.00	Aeolian Sand
	2.00	4.00	2.00	Kankar
	4.00	6.50	2.50	Bentonite
	6.50	18.00	11.50	Variegated Clay
	18.00	27.00	9.00	Fuller's earth
	27.00	30.40	3.40	Variegated Clay, steel Grey
	30.40	30.60	0.20	Ferruginous Sandstone
	30.60	32.00	1.40	Greenish Grey Clay
	32.00	32.30	0.30	Ferruginous Sandstone
	32.30	51.80	19.50	Greenish Grey Clay
	51.80	52.10	0.30	I/Cal. Of Lignite /Carb. Clay
	52.10	52.60	0.50	Lignite
	52.60	59.20	6.60	Grey Black Clay
	59.20	60.00	0.80	Lignite
	60.00	60.10	0.10	Carbonaceous Clay
	60.10	64.30	4.20	Grey Black Clay
	64.30	65.20	0.90	Lignite
	65.20	66.60	1.40	Grey Black Clay
	66.60	67.10	0.50	Lignite
	67.10	67.80	0.70	Grey Black Clay
	67.80	68.40	0.60	I/Cal. Of Lignite /Carb. Clay
	68.40	71.20	2.80	Greenish Grey Clay
	71.20	72.80	1.60	Glauconitic Sandstone
	72.80	75.00	2.20	Greenish Grey Clay
	75.00	75.90	0.90	Lignite
	75.90	76.80	0.90	Greenish Grey Clay
	76.80	77.60	0.80	I/Cal. Of Lignite /Carb. Clay
	77.60	77.80	0.20	Lignite
	77.80	111.00	33.20	Grey Black Clay
	111.00	116.00	5.00	Glauconitic Sandstone

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-86	0.00	3.60	3.60	Aeolian Sand
	3.60	7.00	3.40	Variegated Clay
	7.00	8.00	1.00	Sand
	8.00	30.60	22.60	Bentonite Veriegated
	30.60	47.60	17.00	Grey Clay
	47.60	48.00	0.40	Lignite
	48.00	50.00	2.00	Clay
	50.00	50.50	0.50	Lignite

Lithology of GB-II Block

	50.50	51.20	0.70	Clay
	51.20	51.50	0.30	Lignite
	51.50	52.20	0.70	Clay
	52.20	52.60	0.40	Lignite
	52.60	53.20	0.60	Clay
	53.20	53.40	0.20	I/Cal. Of Lignite & Carb. Clay
	53.40	54.00	0.60	Grey Clay
	54.00	54.30	0.30	I/Cal. Of Lignite & Carb. Clay
	54.30	58.40	4.10	Clay
	58.40	59.20	0.80	Sand
	59.20	63.00	3.80	Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
MT-48	0.00	2.00	2.00	Aeolian Sand
	2.00	10.00	8.00	Fuller's Earth
	10.00	16.00	6.00	Bentonitic Clay Variegated
	16.00	20.40	4.40	Clay Steel Grey
	20.40	20.80	0.40	Lignite
	20.80	21.00	0.20	I/Cal. Of Lignite /Carb. Clay
	21.00	27.60	6.60	Grey Black Clay
	27.60	28.00	0.40	Lignite
	28.00	29.90	1.90	Greenish Grey Black Clay
	29.90	30.00	0.10	Lignite
	30.00	30.80	0.80	Grey Black Clay
	30.80	31.20	0.40	I/Cal. Of Lignite /Carb. Clay
	31.20	32.20	1.00	Greenish Grey Black Clay
	32.20	32.45	0.25	Carbonaceous Clay
	32.45	33.20	0.75	Lignite
	33.20	34.80	1.60	Greenish Grey Black Clay
	34.80	35.15	0.35	I/Cal. Of Lignite /Carb. Clay
	35.15	35.60	0.45	Lignite
	35.60	36.00	0.40	Greenish Grey Black Clay
	36.00	36.50	0.50	Carbonaceous Clay
	36.50	51.20	14.70	Greenish Grey Clay
	51.20	51.50	0.30	Lignite
	51.50	51.80	0.30	I/Cal. Of Lignite /Carb. Clay
	51.80	52.40	0.60	Lignite
	52.40	53.60	1.20	Greenish Grey Black Clay
	53.60	54.20	0.60	Lignite
	54.20	55.00	0.80	Greenish Grey Clay
	55.00	55.40	0.40	I/Cal. Of Lignite /Carb. Clay
	55.40	82.60	27.20	Greenish Grey Black Clay
	82.60	91.60	9.00	Glauconitic Sandstone

Lithology of GB-II Block

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-71	0.00	2.00	2.00	Aeolian sand
	2.00	4.00	2.00	sand
	4.00	9.80	5.80	Bentonitic Clay Variegated
	9.80	14.80	5.00	Sand
	14.80	20.00	5.20	Ferruginous clay
	20.00	20.60	0.60	Lignite
	20.60	21.60	1.00	Greenish Black Clay
	21.60	22.00	0.40	Lignite
	22.00	23.40	1.40	Greenish Black Clay
	23.40	23.80	0.40	Lignite
	23.80	25.00	1.20	Greenish Black Clay
	25.00	25.40	0.40	Lignite
	25.40	26.00	0.60	Greenish Black Clay
	26.00	26.40	0.40	Lignite
	26.40	39.60	13.20	Greenish Black Clay
	39.60	40.60	1.00	Lignite
	40.60	41.40	0.80	Greenish Black Clay
	41.40	41.80	0.40	Lignite
	41.80	42.40	0.60	Greenish Black Clay
	42.40	43.20	0.80	Lignite
	43.20	44.70	1.50	Greenish Black Clay
	44.70	45.20	0.50	Lignite
	45.20	50.00	4.80	Greenish Black greenish grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-85	0.00	2.00	2.00	Aeolian Sand
	2.00	7.00	5.00	Argillaceous Sand
	7.00	12.00	5.00	Bentonite Variegated
	12.00	25.80	13.80	Grey Clay
	25.80	26.40	0.60	Lignite
	26.40	26.80	0.40	Grey Clay
	26.80	27.00	0.20	Lignite
	27.00	27.20	0.20	Grey Clay
	27.20	27.60	0.40	Lignite
	27.60	29.20	1.60	Grey Clay
	29.20	29.60	0.40	Lignite
	29.60	31.00	1.40	Grey Clay
	31.00	31.50	0.50	Lignite
	31.50	32.40	0.90	Clay
	32.40	32.80	0.40	Lignite
	32.80	33.40	0.60	Clay
	33.40	33.80	0.40	Lignite

Lithology of GB-II Block

	33.80	34.60	0.80	Grey Clay
	34.60	35.00	0.40	Lignite
	35.00	48.20	13.20	Grey Clay
	48.20	48.80	0.60	Lignite
	48.80	49.00	0.20	Grey Clay
	49.00	49.80	0.80	Lignite
	49.80	55.50	5.70	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
MT-38	0.00	1.00	1.00	Aeolian Sand
	1.00	14.30	13.30	Bentonite
	14.30	19.60	5.30	Greenish grey Black Clay
	19.60	20.35	0.75	Lignite
	20.35	20.75	0.40	Greenish grey Black Clay
	20.75	21.25	0.50	I/Cal. Of Lignite /Carb. Clay
	21.25	22.70	1.45	Greenish Grey Clay
	22.70	23.15	0.45	I/Cal. Of Lignite /Carb. Clay
	23.15	24.80	1.65	Greenish grey Black Clay
	24.80	25.20	0.40	Lignite
	25.20	25.60	0.40	Greenish grey Black Clay
	25.60	26.20	0.60	Lignite
	26.20	28.00	1.80	Grey Black Clay
	28.00	28.30	0.30	I/Cal. Of Lignite /Carb. Clay
	28.30	39.80	11.50	Greenish grey Black Clay
	39.80	40.80	1.00	Lignite
	40.80	41.20	0.40	Clay
	41.20	41.60	0.40	Lignite
	41.60	42.20	0.60	Grey Black Clay
	42.20	43.00	0.80	Lignite
	43.00	74.20	31.20	Grey Black Clay
	74.20	91.60	17.40	Glauconitic Sandstone

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-87	0.00	4.00	4.00	Soil Sandy
	4.00	6.40	2.40	Kanker
	6.40	13.60	7.20	Argillaceous Sand Grey
	13.60	29.00	15.40	Variegated Clay
	29.00	31.00	2.00	Sandy Clay Grey
	31.00	54.00	23.00	Greenish Black Clay
	54.00	54.30	0.30	Lignite
	54.30	54.50	0.20	Variegated Clay
	54.50	55.00	0.50	Lignite
	55.00	57.60	2.60	Greenish Black Clay

Lithology of GB-II Block

	57.60	58.00	0.40	Lignite
	58.00	59.00	1.00	Greenish Black Clay
	59.00	59.60	0.60	Lignite
	59.60	60.00	0.40	Greenish Black Clay
	60.00	60.40	0.40	Lignite
	60.40	61.50	1.10	Greenish Black Clay
	61.50	61.80	0.30	Lignite
	61.80	63.20	1.40	Grey Black Clay
	63.20	63.50	0.30	I/Cal. Of Lignite & Carb. Clay
	63.50	68.50	5.00	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-88	0.00	2.80	2.80	Soil Sandy
	2.80	7.00	4.20	Sand
	7.00	9.60	2.60	Kanker
	9.60	32.00	22.40	Varigated Fullers earth
	32.00	32.40	0.40	Carbonaceous Clay
	32.40	33.60	1.20	Greenish Black Clay
	33.60	34.00	0.40	Greenish Black Claystone
	34.00	44.80	10.80	Greenish Black Clay
	44.80	45.40	0.60	Lignite
	45.40	46.00	0.60	Grey clay
	46.00	46.60	0.60	Lignite
	46.60	48.00	1.40	Greenish Black Clay
	48.00	48.40	0.40	Lignite
	48.40	49.60	1.20	Grey clay
	49.60	50.60	1.00	Lignite
	50.60	51.80	1.20	Grey clay
	51.80	52.30	0.50	Lignite
	52.30	56.10	3.80	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
GTBH-3	0.00	6.80	6.80	Aeolian Sand
	6.80	28.50	21.70	Grey yellow Bentonite
	28.50	37.50	9.00	Green Black clay
	37.50	38.60	1.10	Lignite
	38.60	40.30	1.70	Green Clay
	40.30	40.60	0.30	Lignite
	40.60	42.55	1.95	Green Clay
	42.55	42.85	0.30	Intercalation
	42.85	43.80	0.95	Green Black clay
	43.80	44.50	0.70	Lignite
	44.50	45.00	0.50	Green Clay

Lithology of GB-II Block

	45.00	45.50	0.50	Lignite
	45.50	46.10	0.60	Green Clay
	46.10	46.50	0.40	Lignite
	46.50	48.00	1.50	Green Clay
	48.00	56.20	8.20	Green Clay with clay stone
	56.20	57.20	1.00	Lignite
	57.20	59.20	2.00	Green Black clay
	59.20	60.20	1.00	Lignite
	60.20	61.00	0.80	Green Clay
	61.00	61.60	0.60	Lignite
	61.60	72.90	11.30	Green Clay
	72.90	75.00	2.10	Glauconitic Sandstone/sand stone
	75.00	85.00	10.00	Green Black clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
MT-49	0.00	2.00	2.00	Aeolian Sand
	2.00	21.00	19.00	Fuller's earth
	21.00	48.40	27.40	Greenish Grey Black Clay
	48.40	48.90	0.50	I/Cal. Of Lignite /Carb. Clay
	48.90	54.80	5.90	Grey Black Clay
	54.80	55.60	0.80	Carbonaceous Clay
	55.60	58.20	2.60	Grey Black Clay
	58.20	58.40	0.20	Lignite
	58.40	59.70	1.30	Grey Black Clay
	59.70	60.40	0.70	I/Cal. Of Lignite /Carb. Clay
	60.40	61.00	0.60	Grey Black Clay
	61.00	61.30	0.30	Lignite
	61.30	62.20	0.90	Grey Black Clay
	62.20	62.80	0.60	Lignite
	62.80	68.20	5.40	Grey Black Clay
	68.20	69.00	0.80	I/Cal. Of Lignite /Carb. Clay
	69.00	70.40	1.40	Grey Black Clay
	70.40	71.20	0.80	I/Cal. Of Lignite /Carb. Clay
	71.20	75.70	4.50	Grey Black Clay
	75.70	76.00	0.30	Lignite
	76.00	99.30	23.30	Grey Black Clay
	99.30	112.00	12.70	Glauconitic Sandstone

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-89	0.00	3.00	3.00	Aeolian sand
	3.00	25.00	22.00	Bentonitic Clay Variegated
	25.00	61.00	36.00	Greenish Grey Clay
	61.00	61.60	0.60	Lignite

Lithology of GB-II Block

	61.60	62.10	0.50	Grey Black Clay
	62.10	62.90	0.80	Lignite
	62.90	63.80	0.90	Grey Black Clay
	63.80	64.20	0.40	Lignite
	64.20	71.20	7.00	Greenish Black Clay
	71.20	71.80	0.60	Lignite
	71.80	73.00	1.20	Grey Black Clay
	73.00	73.70	0.70	Lignite
	73.70	75.20	1.50	Grey Black Clay
	75.20	75.60	0.40	Lignite
	75.60	81.20	5.60	Greenish Black Clay
	81.20	81.30	0.10	Lignite
	81.30	82.00	0.70	Grey Black Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
MT-11	0.00	2.00	2.00	Aeolian Sand
	2.00	25.00	23.00	Bentonite
	25.00	48.10	23.10	Greenish Grey Clay
	48.10	48.80	0.70	Lignite
	48.80	49.40	0.60	Greenish Grey Clay
	49.40	49.60	0.20	Lignite
	49.60	50.00	0.40	I/Cal. Of Lignite /Carb. Clay
	50.00	50.30	0.30	Lignite
	50.30	60.10	9.80	Greenish Grey Clay
	60.10	61.40	1.30	Lignite
	61.40	61.80	0.40	Greenish Grey Clay
	61.80	62.35	0.55	Lignite
	62.35	63.40	1.05	Greenish Grey Clay
	63.40	63.80	0.40	Lignite
	63.80	72.80	9.00	Greenish Grey Clay
	72.80	73.60	0.80	I/Cal. Of Lignite /Carb. Clay
	73.60	74.20	0.60	Greenish Grey Clay
	74.20	75.00	0.80	Lignite
	75.00	75.30	0.30	I/Cal. Of Lignite /Carb. Clay
	75.30	75.70	0.40	Lignite
	75.70	76.40	0.70	Carbonaceous Clay
	76.40	76.90	0.50	Lignite
	76.90	77.40	0.50	Greenish Grey Clay
	77.40	78.00	0.60	Lignite
	78.00	79.80	1.80	Greenish Grey Clay
	79.80	80.30	0.50	Lignite
	80.30	81.30	1.00	Greenish Grey Clay
	81.30	81.50	0.20	Lignite
	81.50	107.00	25.50	Greenish Grey Clay

Lithology of GB-II Block

	107.00	126.00	19.00	Glauconitic Sandstone
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B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-101	0.00	4.00	4.00	Aeolian Sand
	4.00	33.00	29.00	Bentonitic Clay Variegated
	33.00	45.20	12.20	Greenish Grey Clay
	45.20	45.60	0.40	Lignite
	45.60	46.60	1.00	Greenish Black Clay
	46.60	47.00	0.40	Lignite
	47.00	62.20	15.20	Greenish Grey Clay
	62.20	62.40	0.20	Carbonaceous Clay
	62.40	63.40	1.00	Greenish Black Clay
	63.40	63.80	0.40	Lignite
	63.80	64.40	0.60	Greenish Grey Clay
	64.40	67.70	3.30	Carbonaceous Clay
	67.70	79.30	11.60	Greenish Grey Clay
	79.30	79.60	0.30	Lignite
	79.60	80.80	1.20	Greenish Black Clay
	80.80	81.00	0.20	I/Cal. Of Lignite & Carb. Clay
	81.00	81.40	0.40	Grey Black Clay
	81.40	81.60	0.20	I/Cal. Of Lignite & Carb. Clay
	81.60	84.70	3.10	Greenish Grey Clay
	84.70	85.10	0.40	Lignite
	85.10	88.80	3.70	Greenish Black Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-73	0.00	2.80	2.80	Soil Sandy
	2.80	5.20	2.40	Variegated Clay
	5.20	13.20	8.00	Bentonitic Clay Variegated
	13.20	13.40	0.20	Carbonaceous Clay
	13.40	17.60	4.20	Greenish Black Clay
	17.60	18.00	0.40	Lignite
	18.00	18.20	0.20	Carbonaceous Clay
	18.20	18.80	0.60	Greenish Grey Clay
	18.80	19.20	0.40	Lignite
	19.20	19.60	0.40	Greenish Black Clay
	19.60	20.00	0.40	Carbonaceous Clay
	20.00	26.00	6.00	Greenish Grey Clay
	26.00	30.60	4.60	Greenish Grey Silty Clay
	30.60	31.20	0.60	Lignite
	31.20	31.60	0.40	I/Cal. Of Lignite & Carb. Clay
	31.60	32.00	0.40	Greenish Black Clay
	32.00	32.20	0.20	I/Cal. Of Lignite & Carb. Clay

Lithology of GB-II Block

	32.20	32.60	0.40	Greenish Black Clay
	32.60	33.00	0.40	Lignite
	33.00	34.00	1.00	Greenish Black Clay
	34.00	34.30	0.30	Lignite
	34.30	34.80	0.50	Greenish Black Clay
	34.80	35.60	0.80	Lignite
	35.60	39.60	4.00	Greenish Black Clay
	39.60	40.10	0.50	Lignite
	40.10	45.60	5.50	Greenish Black Clay
	45.60	46.00	0.40	Carbonaceous Clay
	46.00	48.00	2.00	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-90	0.00	2.00	2.00	Soil Sandy
	2.00	21.00	19.00	Bentonitic Clay Variegated
	21.00	21.50	0.50	Greenish Grey Clay
	21.50	22.10	0.60	Lignite
	22.10	42.20	20.10	Greenish Grey Clay
	42.20	42.60	0.40	Carbonaceous Clay
	42.60	43.40	0.80	Grey Black Clay
	43.40	44.20	0.80	Lignite
	44.20	44.40	0.20	Grey Black Clay
	44.40	45.20	0.80	Lignite
	45.20	55.00	9.80	Grey Black Clay
	55.00	55.30	0.30	Carbonaceous Clay
	55.30	56.20	0.90	Grey Black Clay
	56.20	57.20	1.00	Lignite
	57.20	58.20	1.00	Greenish Grey Clay
	58.20	58.50	0.30	Lignite
	58.50	58.80	0.30	Grey Black Clay
	58.80	59.60	0.80	Lignite
	59.60	62.00	2.40	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-91	0.00	4.80	4.80	Aeolian Sand
	4.80	20.00	15.20	Bentonitic Clay Variegated
	20.00	36.00	16.00	Greenish Grey Clay
	36.00	36.50	0.50	Lignite
	36.50	41.40	4.90	Greenish Grey Clay
	41.40	41.80	0.40	Lignite
	41.80	42.80	1.00	Grey Black Clay
	42.80	43.20	0.40	Lignite
	43.20	49.20	6.00	Greenish Grey Clay

Lithology of GB-II Block

	49.20	50.20	1.00	Lignite
	50.20	50.80	0.60	Grey Black Clay
	50.80	51.30	0.50	Lignite
	51.30	51.80	0.50	Grey Black Clay
	51.80	52.40	0.60	Lignite
	52.40	53.40	1.00	Grey Black Clay
	53.40	53.60	0.20	Lignite
	53.60	54.10	0.50	Grey Black Clay
	54.10	54.80	0.70	Lignite
	54.80	56.00	1.20	Greenish Grey Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
R-84	0.00	2.00	2.00	Soil Sandy
	2.00	14.00	12.00	Bentonitic Clay Variegated
	14.00	26.60	12.60	Greenish Black Clay
	26.60	27.60	1.00	Lignite
	27.60	28.60	1.00	Greenish Black Clay
	28.60	29.00	0.40	Lignite
	29.00	30.60	1.60	Greenish Black Clay
	30.60	31.00	0.40	Lignite
	31.00	32.20	1.20	Grey clay
	32.20	32.60	0.40	Lignite
	32.60	33.40	0.80	Greenish Grey Clay
	33.40	33.80	0.40	Lignite
	33.80	38.40	4.60	Greenish Black Clay
	38.40	38.70	0.30	I/Cal. Of Lignite & Carb. Clay
	38.70	39.00	0.30	Lignite
	39.00	39.40	0.40	Greenish Black Clay
	39.40	39.60	0.20	I/Cal. Of Lignite & Carb. Clay
	39.60	40.40	0.80	Greenish Black Clay
	40.40	40.60	0.20	I/Cal. Of Lignite & Carb. Clay
	40.60	40.80	0.20	Greenish Black Clay
	40.80	41.30	0.50	Lignite
	41.30	42.80	1.50	Greenish Black Clay
	42.80	43.20	0.40	Lignite
	43.20	44.40	1.20	Grey Black Clay
	44.40	45.00	0.60	Lignite
	45.00	50.00	5.00	Grey Black Clay

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
MT-111	0.00	1.00	1.00	Aeolian Sand
	1.00	14.00	13.00	Variegated Clay
	14.00	15.20	1.20	Lignite

Lithology of GB-II Block

	15.20	17.00	1.80	Grey Black Clay
	17.00	17.40	0.40	Lignite
	17.40	33.20	15.80	Grey Black Clay
	33.20	33.70	0.50	Lignite
	33.70	34.00	0.30	Grey Black Clay
	34.00	34.20	0.20	Carbonaceous Clay
	34.20	36.00	1.80	Glauconitic Sandstone
	36.00	36.30	0.30	I/Cal. Of Lignite /Carb. Clay
	36.30	37.00	0.70	Glauconitic Sandstone
	37.00	37.80	0.80	I/Cal. Of Lignite /Carb. Clay
	37.80	39.30	1.50	Greenish Grey Clay
	39.30	39.60	0.30	Lignite
	39.60	59.40	19.80	Greenish Grey Clay
	59.40	73.30	13.90	Glauconitic Sandstone

B.H.No.	DEPTH		THICKNESS	LITHOLOGY
	FROM	TO		
MT-35	0.00	1.00	1.00	Aeolian Sand
	1.00	20.30	19.30	Bentonite
	20.30	22.80	2.50	Clay
	22.80	24.00	1.20	I/Cal. Of Lignite /Carb. Clay
	24.00	25.90	1.90	Clay
	25.90	27.00	1.10	Carbonaceous Clay
	27.00	28.80	1.80	Greenish Grey Clay
	28.80	29.70	0.90	I/Cal. Of Lignite /Carb. Clay
	29.70	32.80	3.10	Clay
	32.80	33.20	0.40	Lignite
	33.20	37.40	4.20	Greenish Grey Clay
	37.40	37.80	0.40	Lignite
	37.80	38.20	0.40	Greenish Grey Clay
	38.20	38.70	0.50	I/Cal. Of Lignite /Carb. Clay
	38.70	62.40	23.70	Greenish Grey Clay
	62.40	73.30	10.90	Glauconitic Sandstone