TECHNO-ECONOMIC ANALYSIS LOCATIONS KHBK

Location: BKH-6						
Play	**Bokabil**			**Kopili**		
Parameters	Min	M. Likely	Max	Min	M. Likely	Max
Area (Sq. km)	0.04	0.14	0.21	0.2	0.27	0.35
Net Pay (m)	13.7	19	26	5	6	11
Effective Porosity (%)	20	21.5	25	15	19	20
So (%)	40	55	65	43	49	50
FVF	1.2	1.3	1.35	1.1	1.1	1.1
API or Sp.gr of Oil	0.8431	0.8684	0.8729	0.82	0.82	0.82
RF (%)	15	25	30	20	20	20
Location: BKH-6						
Play	**Sylhet**			-		
Parameters	Min	M. Likely	Max	-	-	-
Area (Sq. km)	0.22	0.32	0.44	-	-	-
Net Pay (m)	7.88	10.5	11	-	-	-
Effective Porosity (%)	15	16	17	-	-	-
So (%)	53	55	58	-	-	-
FVF	1.23	1.24	1.25	-	-	-
API or Sp.gr of Oil	0.8283	0.8369	0.8375	-	-	-
RF (%)	20	20	20	-	-	-

Anticipated estimated volumes for the proposed locations

Prospect	Pay	Probability	Inplace (MMt/MMbl)	Reserves (MMt/MMbl)	Total OIIP (MMT/ MMbl)	Total Reserves (MMt/M Mbl)	Area (Sq Km)	Net Pay (m)	HC Saturation %
BKH-6	Bokabil	P90	0.12/0.87	0.03/0.19	0.53/ 3.87	0.12/0. 82	0.081	16.9	46
		Mean	**0.21/1.47**	**0.05/0.34**			**0.13**	**20.5**	**53.4**
		P10	0.30/2.10	0.07/0.50			0.175	23.7	60.2
	Kopili	P90	0.09/0.72	0.02/0.14			0.232	5.8	45
		Mean	**0.13/0.97**	**0.03/0.19**			**0.273**	**7.3**	**47.4**
		P10	0.17/1.27	0.03/0.25			0.315	9.2	49.2
	Sylhet	P90	0.15/1.15	0.03/0.23			0.266	8.8	54
		Mean	**0.19/1.43**	**0.04/0.29**			**0.327**	**9.8**	**55.3**
		P10	0.23/1.74	0.05/0.35			0.388	10.6	56.8

BLOCK		
LOCATION	**BKH-6**	
PLAY	Bokabil, Kopili & Sylhet	
HC TYPE	OIL	
Probability of Success % (POS)	35	
AREA (Sq.Km.)	0.73	
PROPOSED TD (MD- m)	3130	
INPLACE VOLUMES (MMBBL)	3.87	
RESERVES (MMBBL)	0.82	
PRODUCTION PROFILE		
PEAK WELL FLOW (M3/d)	50	
PLATEAU RATE (FIELD) (MBBL/d)	0.41	
YEARS TO PLATEAU	1	
PLATEAU DURATION (Years)	2	
FIELD PRODUCING LIFE (Years)	6	
EXPLRN/APPRAISAL/ENGINEERING		
NO. OF EXPL+APP WELLS	1+1	
TOTAL NO. OF PRODUCERS	0	
EXPORT OPTION (PL/TANKER)	Pipe line	
PIPELINE LENGTH (km)	1	
DEVELOPMENT CONCEPT	WELLPAD GROUP TO EXISTING MAIN PRODUCTION FACILITY	
COST ASSUMPTIOS	WELL COST: Rs. 112000 per metre (EXPL) & Rs. 80000 per metre (DEV). Pipeline cost: Rs.35lakh/km	
EXCHANGE RATE	Rs. 69 / USD	

PROSPECT		BKH-6	
PLAY		Bokabil, Kopili & Sylhet	
Estimated Reserves	MMBBL	0.82	
Estimated Expenditures			
Operating Expenses	$MM	2.99	
Exploration Capital	$MM	5.24	
Development Capital	$MM	3.42	
Life cycle cost	$MM	11.65	
Average Price	$/BBL	65	
Unit Operating Expenses	$/BBL	3.56	
Unit Exploration Capital	$/BBL	12.48	
Unit Development Capital	$/BBL	4.07	
Unit Life cycle cost	$/BBL	20.11	
Producing Life	Years	6.58	
Project Life	Years	7	
IRR	%	**39.78**	
NPV @ 0%	$MM	12.05	
NPV @ 5%	$MM	8.79	
NPV @ 8%	$MM	7.25	
NPV @ 10%	$MM	6.35	
NPV @ 12%	$MM	5.56	
NPV @ 14%	$MM	4.84	
Risk Analysis			
Risk Money	$MM	**5.24**	
Discovery Probability	%	37	
EMV @ 0%	$MM	1.16	
EMV @5%	$MM	0.18	
TE VIABILITY		**Viable**	

SENSITIVITY ANALYSIS								
BKH-6								
PLAY:	Bokabil, Kopili & Sylhet							
SENSITIVITY ON OIL PRICE								
VARIATION		-30%	-20%	-10%	0	10%	20%	30%
OIL PRICE	$/BBL	45.5	52	58.5	65	71.5	78	84.5
NPV @ 12%	MM$	0.94	2.48	4.02	5.56	7.09	8.63	10.17
NPV @ 14%	MM$	0.5	1.95	3.4	4.84	6.28	7.73	9.17
IRR	%	16.71	24.37	32	39.78	47.75	55.82	64.33
SENSITIVITY ON CAPEX								
VARIATION		-30%	-20%	-10%	0	10%	20%	30%
NPV @ 12%	MM$	8.11	7.27	6.41	5.56	4.7	3.84	2.98
NPV @ 14%	MM$	7.35	6.53	5.68	4.84	4	3.15	2.31
IRR	%	71.86	58.45	47.96	39.78	33.25	27.87	23.39
SENSITIVITY ON OPEX								
VARIATION		-30%	-20%	-10%	0	10%	20%	30%
NPV @ 12%	MM$	5.93	5.81	5.68	5.56	5.43	5.3	5.18
NPV @ 14%	MM$	5.19	5.07	4.96	4.84	4.72	4.61	4.49
IRR	%	41.59	40.99	40.39	39.78	39.25	38.64	38.04

As per proposal of KHBK (BKH-6)

23/2/2021

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