

Drilling Parameters

Company: Noble Energy

Date: 27-Jun **thru** 4-Jul

Well Name: **BM 36-23C**

Bit to Survey: 73 Ft.

Co. Rep. : CLIFT

Page: 1 of 2

BHA	Survey Depth	Incl. Degree	Azimuth Degree	Depth From	Depth To	Feet	Drill O/R PD	Tool Face / RPM	PD-TF / %	Down Link #	Drill Hrs.	WOB 1000#	PU,SO & ROT WT	Pump SPM	Flow Rate	Pressure OFF/ON	Date	Comments
1				121	131	10	R	35			0.75	6	30,30,30	170	600	400/500	27-Jun	
1				131	136	5	O	90			0.50	6	35,35,35	120	400	350/440	27-Jun	HANGING IN HOLE LOSING MUD
1				136	168	32	R	45			0.50	6	35,35,35	120	400	350/440	27-Jun	LOSING MUD HOLE IS TIGHT
1				168	180	12	O	90			0.50	10	35,35,35	120	400	350/440	27-Jun	LOSING MUD HOLE IS TIGHT
1				180	219	39	R	45			0.50	10	50,30,40	120	400	350/440	27-Jun	LOSS RETURN COMPLETELY
2				219	341	122	R	45			4.25	10	50,30,40	120	400	350/440	30-Jun	
2				341	341		O	100M			1.25	15	50,30,40	120	400	350/440	1-Jul	
2	339.00	2.30	148.70	341	412	71	R	45			2.00	15	50,30,40	120	400	350/440	1-Jul	
2				412	432	20	O	80M			0.50	15	50,30,40	120	400	350/440	1-Jul	
2	429.00	3.60	124.10	432	502	70	R	45			1.25	15	50,30,40	120	400	350/440	1-Jul	
2				502	517	15	O	50M			0.25	20	50,30,40	120	400	350/440	1-Jul	
2	521.00	4.60	122.00	517	594	77	R	45			1.25	20	50,30,40	120	400	350/440	1-Jul	
2				594	614	20	O	80L			0.25	20	50,30,40	120	400	350/440	1-Jul	
2	613.00	5.70	113.00	614	686	72	R	45			1.25	20	50,30,40	120	400	350/440	1-Jul	
2				686	706	20	O	80L			0.25	20	78,56,62	120	400	350/440	1-Jul	
2	705.00	6.20	99.00	706	778	72	R	45			0.75	20	78,56,62	120	400	350/440	1-Jul	
2				778	792	14	O	HS			0.50	20	78,56,62	120	400	350/440	1-Jul	
2				792	839	47	R	45			0.50	20	78,56,62	120	400	350/440	1-Jul	
3	808.00	7.50	90.40	839	872	33	R	40			0.50	12	80,50,60	120	400	350/440	3-Jul	
3				872	882	10	O	90			0.50	12	80,50,60	120	400	350/440	3-Jul	
3	903.00	9.00	96.40	882	965	83	R	50			0.75	12	80,50,60	120	400	350/440	3-Jul	
3				965	975	10	O	130			0.50	12	80,50,60	120	400	350/440	3-Jul	
3	998.00	8.90	97.60	975	1060	85	R	50			0.50	12	80,50,60	120	400	350/440	3-Jul	
3				1060	1074	14	O	80			0.25	12	80,50,60	120	400	350/440	4-Jul	
3	1190.00	10.40	101.00	1074	1252	178	R	50			1.50	12	80,50,60	120	400	350/440	4-Jul	
3				1252	1264	12	O	135			0.50	12	80,50,60	120	400	350/440	4-Jul	
3	1284.00	11.30	105.10	1264	1346	82	R	45			0.75	12	80,50,60	120	400	350/440	4-Jul	
3				1346	1359	13	O	230			0.50	12	80,50,60	120	400	350/440	4-Jul	
3	1476.00	11.40	102.50	1359	1538	179	R	45			1.00	12	80,50,60	120	400	350/440	4-Jul	
3	1572.00	11.50	99.00	1538	1634	96	R	45			0.50	12	80,50,60	120	400	350/440	4-Jul	
3				1634	1644	10	O	70R			1.00	12	80,50,60	120	400	350/440	4-Jul	
3	1667.00	12.00	99.70	1644	1729	85	R	45			0.75	12	80,50,60	120	400	350/440	4-Jul	
3	1762.00	12.10	95.60	1729	1824	95	R	45			1.00	12	80,50,60	120	400	350/440	4-Jul	
3				1824	1836	12	O	70R			1.00	12	80,50,60	120	400	350/440	4-Jul	
Sliding Data:				Footage=	187		Hrs=	8.25		Ft/Hr=	22.67							
Rotating Data:				Footage=	1528		Hrs=	20.25		Ft/Hr=	75.46							
Rotary Steerable Data:				Footage=			Hrs=			Ft/Hr=								
D&M Directional Sup.:																		



Drilling Parameters

Company: Noble Energy

Date: 4-Jul **thru** 5-Jul

Well Name: **BM 36-23C**

Bit to Survey: 62 Ft.

Co. Rep. : CLIFT

Page: 2 of 2[illegible]