

Attachment C – Estimated Mud Composition for C-16/C-17 Wells (Platform Hidalgo)

Attachment C - Estimated Drilling Mud Composition (C-16 Well)
Water Based Mud

INTERVAL (FT)	PRODUCTS	PACKAGE	UNITS sx	TOTAL Pounds
0 - 1,023' 675 bbl Starting Volume 1500 bbl of mud build for interval	DUROGEL	50 lb/sx	589	29,450
	Soda Ash	50 lb/sx	18	900
	Sodium Bicarbonate	50 lb/sx	30	1,500
	MI-GEL	100 lb/sx	295	29,500
1,023' - 1,800' 1900 bbl Starting Volume 2350 bbl of mud build for interval	DUROGEL	50 lb/sx	50	2,500
	Soda Ash	50 lb/sx	40	2,000
	POLYPAC	50 lb/sx	65	3,250
	DUOVIS	50 lb/sx	20	1,000
	GELITE	50 lb/sx	100	5,000
	SALT 96%	50 lb/sx	300	15,000
	TACKLE	5 gal	5	25
	M-I GEL	100 lb/sx	205	20,500
	MI-BAR	100 lb/sx	1425	142,500
	Sodium Bicarbonate	50 lb/sx	20	1,000
	SP 101	50 lb/sx	65	3,250
1,800' - 5,500' 1950 bbl Starting Volume 4600 bbl of mud build for interval	DUROGEL	50 lb/sx	50	2500
	Soda Ash	50 lb/sx	96	4800
	POLYPAC	50 lb/sx	185	9250
	DUOVIS	50 lb/sx	165	8250
	SALT 96%	50 lb/sx	750	37500
	TACKLE	5 gal	5	25
	Lube 167	55 Gal	10	11575
	GELITE	50 lb/sx	286	14300
	M-I GEL	100 lb/sx	143	14300
	Sodium Bicarbonate	50 lb/sx	30	1500
	MI-BAR	100 lb/sx	740	74000

INTERVAL (FT)	PRODUCTS	PACKAGE	UNITS sx	TOTAL Pounds
5,500' - 17,150' 2037 bbl Starting Volume 8,000 bbl of mud build for interval	SALT 96%	50 lb/sx	1500	75,000
	Citric Acid	50 lb/sx	10	500
	POLYPAC	50 lb/sx	150	7,500
	ULTRAFREE	55 gal	68	81,030
	ULTRAHIB	55 gal	95	113,204
	ULTRACAP	50 lb/sx	475	23,750
	Duovis	25 lb/sx	320	8,000
	MI-BAR	100 lb/sx	2490	249,000
	Sodium Bicarbonate	50 lb/sx	30	1,500

17,150' - 19,564' 2470 bbl Starting Volume 2100 bbl of mud build for interval	SALT 96%	50 lb/sx	250	12,500
	POLYPAC	50 lb/sx	45	2,250
	ULTRAFREE	55 gal	18	21,449
	ULTRAHIB	55 gal	25	29,790
	Duovis	25 lb/sx	85	2,125

Attachment C - Estimated Drilling Mud Composition (C-17 Well)
Water Based Mud

INTERVAL (FT)	PRODUCTS	PACKAGE	UNITS sx	TOTAL Pounds
0 - 1,023' 675 bbl Starting Volume 1500 bbl of mud build for interval	DUROGEL	50 lb/sx	589	29,450
	Soda Ash	50 lb/sx	18	900
	Sodium Bicarbonate	50 lb/sx	30	1,500
	MI-GEL	100 lb/sx	295	29,500
1,023' - 1,800' 1900 bbl Starting Volume 2350 bbl of mud build for interval	DUROGEL	50 lb/sx	50	2,500
	Soda Ash	50 lb/sx	40	2,000
	POLYPAC	50 lb/sx	65	3,250
	DUOVIS	50 lb/sx	20	1,000
	GELITE	50 lb/sx	100	5,000
	SALT 96%	50 lb/sx	300	15,000
	TACKLE	5 gal	5	25
	M-I GEL	100 lb/sx	205	20,500
	MI-BAR	100 lb/sx	1425	142,500
	Sodium Bicarbonate	50 lb/sx	20	1,000
	SP 101	50 lb/sx	65	3,250
1,800' - 5,500' 1950 bbl Starting Volume 4600 bbl of mud build for interval	DUROGEL	50 lb/sx	50	2500
	Soda Ash	50 lb/sx	96	4800
	POLYPAC	50 lb/sx	185	9250
	DUOVIS	50 lb/sx	165	8250
	SALT 96%	50 lb/sx	750	37500
	TACKLE	5 gal	5	25
	Lube 167	55 gal	10	11575
	GELITE	50 lb/sx	286	14300
	M-I GEL	100 lb/sx	143	14300
	Sodium Bicarbonate	50 lb/sx	30	1500
	MI-BAR	100 lb/sx	740	74000

5,500' - 16,314' 2031 bbl Starting Volume 7,431 bbl of mud build for interval	SALT 96%	50	lb/sx	1350	67,500
	Citric Acid	50	lb/sx	10	500
	POLYPAC	50	lb/sx	135	6,750
	ULTRAFREE	55	gal	62	81,030
	ULTRAHIB	55	gal	86	113,204
	ULTRACAP	50	lb/sx	435	21,750
	Duovis	25	lb/sx	290	7,250
	MI-BAR	100	lb/sx	2245	224,500
	Sodium Bicarbonate	50	lb/sx	30	1,500

17,150' - 18,473' 2415 bbl Starting Volume 1965 bbl of mud build for interval	SALT 96%	50	lb/sx	250	12,500
	POLYPAC	50	lb/sx	45	2,250
	ULTRAFREE	55	gal	18	21,449
	ULTRAHIB	55	gal	25	29,790
	Duovis	25	lb/sx	85	2,125



PXP

WESTERN HALF OCS-P 0450 EXTENDED REACH WELL

C16 WELL - HIDALGO PLATFORM

Estimate Cuttings and Liquid Volumes

Casing Size Inch.	Casing set at feet	Hole Size Inch
24	1023	30
18.625	1800	22
13.375	5500	17.5
9.625	17150	12.25
7	19564	8.5

Water Base Mud

INTERVAL FEET	EST. CUTTINGS BBL	EST. CUTTINGS TON	EST. LIQUID BBL
0 - 1023	1288	533	3155
1023 - 1800	483	200	1184
1800 - 5500	1456	602	3567
5500 - 17150	2246	929	5503
17150 - 19564	224	93	627
TOTAL	5697	2357	14036

19733

The values calculated are based on the following parameters:

Solids Removal Efficiency	70 - 99 %
Hole Washout %	0 - 10%
LGS %	< 7%
Cutting Water/Oil Retention	3.5 for WBM



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WESTERN HALF OCS-P 0450 EXTENDED REACH WELL

C17 WELL - HIDALGO PLATFORM

Estimate Cuttings and Liquid Volumes

Casing Size Inch.	Casing set at feet	Hole Size Inch
24	1023	30
18.625	1800	22
13.375	5500	17.5
9.625	16314	12.25
7	18473	8.5

Water Base Mud

INTERVAL FEET	EST. CUTTINGS BBL	EST. CUTTINGS TON	EST. LIQUID BBL
0 - 1023	1288	533	3155
1023 - 1800	483	200	1184
1800 - 5500	1456	602	3567
5500 - 16314	2085	862	5108
16314 - 18473	200	83	561
TOTAL	5512	2280	13575

19087

The values calculated are based on the following parameters:

Solids Removal Efficiency	70 - 99 %
Hole Washout %	0 - 10%
Maximum LGS %	< 7%
Cutting Water/Oil Retention	3.5 for WBM



Drilling Fluid and Cuttings Disposal Volumes

Water Base Mud

HOLE SIZE	CSG SIZE	CAP BBL/FT	SCE	LGS%	WASHOUT %	CUT FLUID RET	PIT VOL	MUD TYPE
30	24	0.5433	70%	7.0%	20%	3.5	400	WBM
22	18.625	0.3062	70%	7.0%	15%	3.5	400	WBM
17.5	13.375	0.1546	70%	7.0%	15%	3.5	400	WBM
12.25	9.625	0.0758	70%	7.0%	15%	3.5	400	WBM
8.5	7	0.0222	80%	7.0%	15%	3.5	400	WBM

INITIAL DEPTH FT	FINAL DEPTH FT	CSG VOL BBL	HOLE SIZE DRILLED INCH	ESTIMATE CUT. DRILLED BBL	ESTIMATE CUT. DRILLED TON	CUTTINGS INCORPORED BBL	DILUTION BBL	CUTTINGS GENERATED BBL	LIQUID VOL GENERATED BBL	CUT+LIQ GENERATED BBL	TOTAL FLUID TO DRILL BBL
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C-16	<i>HIDALGO</i>	0	1023	555.80	36.00	1288	533	386	5520	902	3155	4057	6306
		1023	1800	551.16	25.30	483	200	145	2071	338	1184	1522	3171
		1800	5500	850.30	20.13	1456	602	437	6239	1019	3567	4586	7627
		5500	17150	1299.97	14.09	2246	929	674	9626	1572	5503	7075	11550
		17150	19564	1358.00	9.78	224	93	45	640	179	627	807	2385

C-17	<i>HIDALGO</i>	0	1023	555.80	36.00	1288	533	386	5520	902	3155	4057	6306
		1023	1800	551.16	25.30	483	200	145	2071	338	1184	1522	3171
		1800	5500	850.30	20.13	1456	602	437	6239	1019	3567	4586	7627
		5500	16314	1236.60	14.09	2085	862	625	8935	1459	5108	6567	10811
		16314	18473	1288.97	9.78	200	83	40	573	160	561	721	2249