

From: Morel, Brian P
Sent: Fri Mar 12 23:04:56 2010
To: Haffle, Mark E; Cocales, Brett W; Sims, David C; Walz, Gregory S
Cc: Rivera, Rodolfo; Guide, John
Subject: RE: Copy of Macondo_MC 252_1 _Schematic_Rev14 1_03122010.xls
Importance: Normal
Attachments: Copy of Macondo_MC 252_1 _Schematic_Rev14 3_03122010.xls

Sorry to send another email, but just got the PP/FG data and have updated the schematics accordingly. I will work on getting the APD completed and updating the MMS PP/FG chart over the weekend. That way we should be ready to submit the permit Monday morning. Let me know if you want to discuss anything about the design changes being presented.

David,

Who else do I need to contact regarding 7" through the production interval? The completions engineers working this project have given their blessing, and I have requested that Steve Morey update the stress check design. I will send a note to Rich Miller to check APD, but don't see any issues as these are all liners, with very small laps and high pipe ratings.

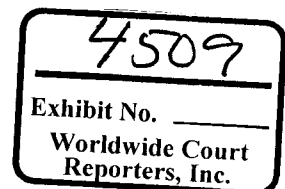
Thank You,
Brian Morel
<<...>>

From: Morel, Brian P
Sent: Friday, March 12, 2010 4:52 PM
To: Haffle, Mark E; Cocales, Brett W; Sims, David C; Walz, Gregory S
Cc: Rivera, Rodolfo; Guide, John
Subject: Copy of Macondo_MC 252_1 _Schematic_Rev14 1_03122010.xls

All,

Please review the attached schematics. I have created multiple copies: (1) current situations (2) BP sidetrack option, (3) MMS sidetrack permit, and (4) MMS actual plugging. The BP sidetrack options is our primary design after discussions between myself, Brett and Mark. In this design we will set the 9-7/8" above the anticipated productive interval and run 7" to TD. I have not got exact PP/FG estimates from Marty yet, but will add once I have those. The MMS version is slightly different as we plan to permit putting the 11-7/8" deeper and not permitting the 9-7/8" until its needed. Pore pressures are included on this chart based on one of Marty's less conservative pore pressure estimates. By permitting deeper and leaving out the 9-7/8" casing we have flexibility in what depth to set the 11-7/8" and won't have to change permit details if we are able to get 9-7/8" set below the productive interval. We do not feel following the MMS design in reality is a good option unless something changes in this well to indicate the margins have opened more and we are back on track with the initial pore pressure estimates, as trying to push casing points has been getting us into trouble.

Thank You,
Brian Morel
<<File: Copy of Macondo_MC 252_1 _Schematic_Rev14 1_03122010.xls>>



BP GoM Deepwater Exploration

Macondo - MC252#1

OPERATOR: BP PARTNER: Anadarko, MOEX DATE: 3/12/2010_Rev 14.3
 NAME: MC 252 #1, MACONDO PROSPECT, OCS-G-32306 PTD: 19,650' MD/TVD
 FIELD / PROSPECT: WILDCAT AREA: OFFSHORE STATE: LA RF ELEV: 75' (Horizon) WD: 4992'
 SURFACE LOCATION: X=1,202,803.88 Y=10,431,617.00 PBHL: X=1,202,803.88 Y=10,431,617.00
 OBJECTIVE ZONE(S): M56 RIG: Transocean Deepwater Horizon

DRILL-QUIP, SS-15 BIGBORE II - 27" O.D. HD-H4 Conn.

HOLE

LPWH Stickup - 10'

DEPTH (RKB)

WELLHEAD SYSTEM WITH 18.500" ID

SIZE

CASING

MUD

ML @ 5067' MD/TVD

16" supplemental adapter @
 ~5227' in 22" extension joint
 18.375" ID (1.25" wall pipe above)

36" @ 5,321' MD/TVD (254' bml)

TOC @ ~ 5067' MD/TVD (Mudline)

28" @ 6217' MD/TVD (1150' bml)

TOC @ ~ 5067' MD/TVD (Mudline)

18" supplemental adapter @ ~ 7489'
 18.250" ID

22" @ 7937' MD/TVD (2891' bml)

TOC @ ~ 8040' MD/TVD

18" @ 8969' MD/TVD (3902' bml)

TOC @ ~ 10,500' MD/TVD

TOL - 11,385'

Top of Plug #2 - 11385'

16" @ 11,585' MD / TVD (6518' bml)

16" = 14.85" ID

162 °F

Top of Plug #1 / Base of Plug #2 - xxxxx'

Plug #1 - x bbls (xxx cu ft)

Cut HWDP / Base of Plug #1 @ 12,100'

Plug @ 12,150'

Fish - SCBL & Temp Log @ 12,197' - 12,163' (~34.1' long)

12255' - 20" hole

Jars @ 12,668' - 12,700'

Base HWDP @ 12,977'

11.9 ppg

11.9 ppg

16.5" hole - 13184'

14-3/4" x 16-1/2" BHA

Bit - 13,295'

14.75" hole TD @ 13,305'

11.9 ppg

SOBM

TOC - 12,600' MD/TVD

TOL - 12,800' MD/TVD

TOL - 12,800' MD/TVD

13-5/8" @ 13,100' MD/TVD

12.3 PP

13.9 FIT/LOT

12-1/4" x 14.5" Hole

TOC - 14,500' MD/TVD

TOL - 14,700' MD/TVD

11-7/8" @ 15,000' MD/TVD

13.1 PP

14.6 FIT/LOT

10-5/8" x 12-1/4" Hole

TOC - 17,250' MD/TVD

9-7/8" @ 18,250' MD/TVD

13.8 PP

15.5 FIT/LOT

8-1/2" Hole

14.1 PP

FIT/LOT

TD @ 19,650'

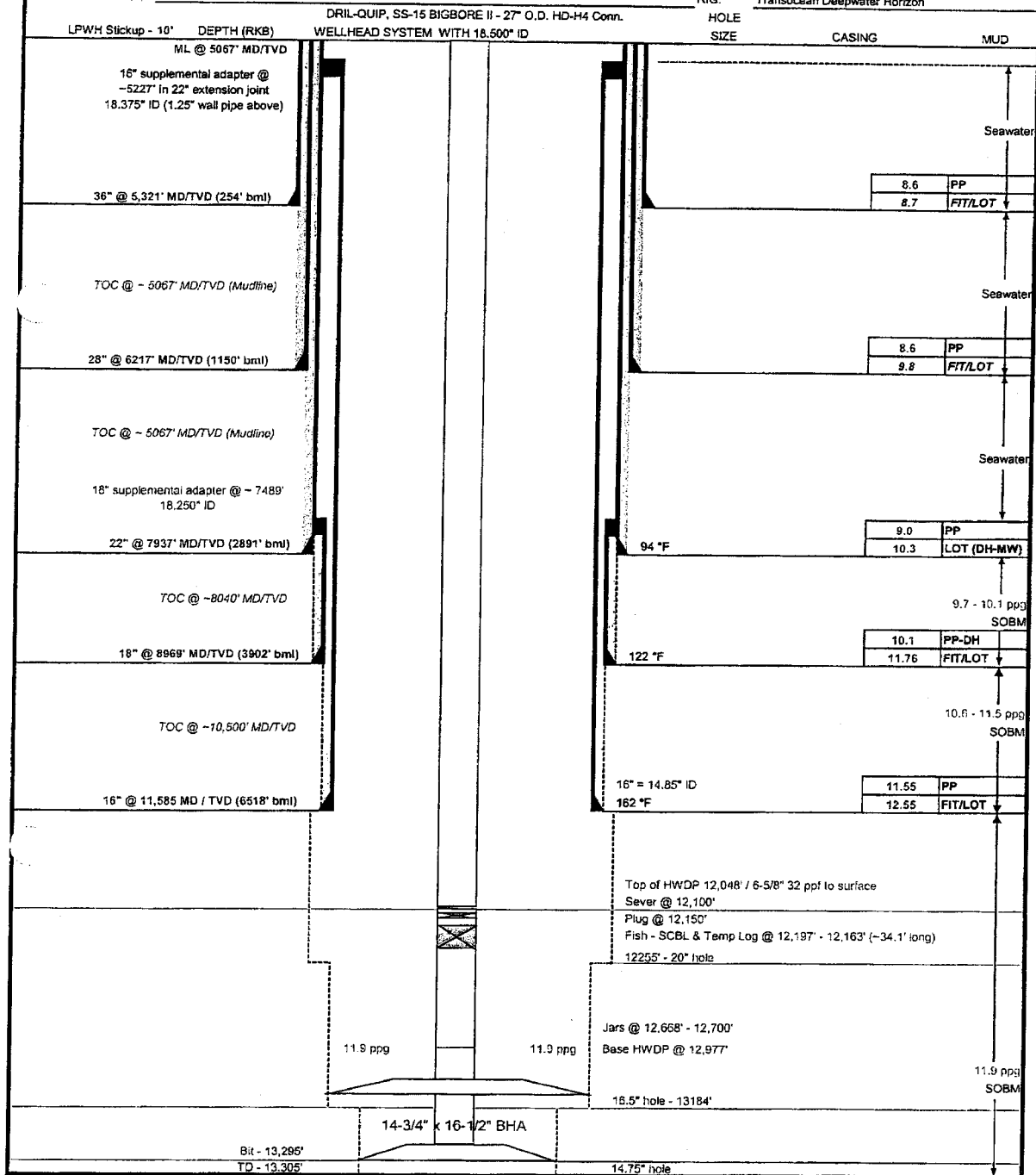
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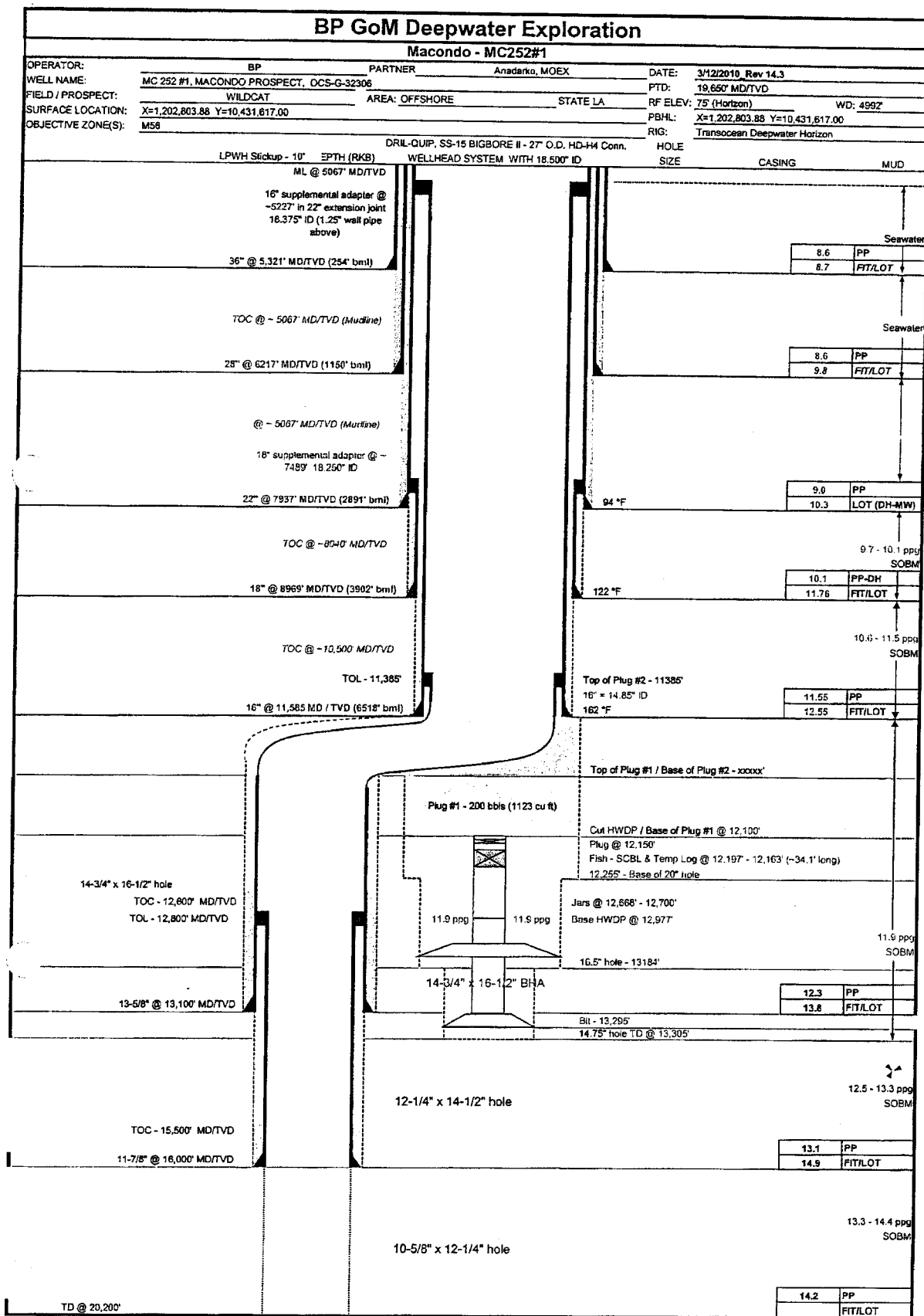
BP Sidekick, 4/18/2011

BP GoM Deepwater Exploration

Macondo - MC252#1

OPERATOR: BP PARTNER: Anadarko, MOEX DATE: 3/12/2010 Rev 14.3
 WELL NAME: MC 252 #1, MACONDO PROSPECT, OCS-G-32306 PTD: 19,650' MD/TVD
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 OBJECTIVE ZONE(S): M56 RIG: Transocean Deepwater Horizon

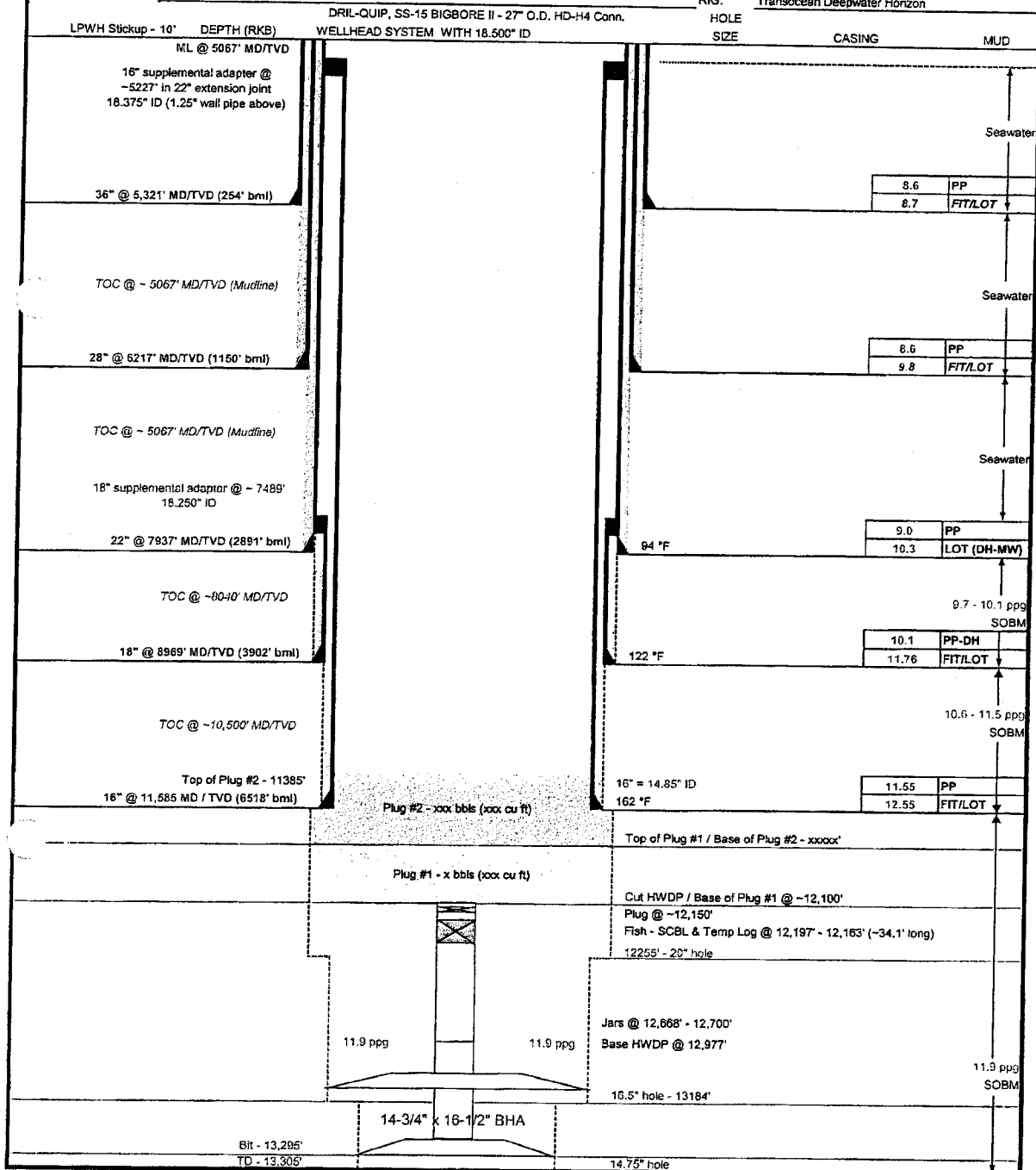




BP GoM Deepwater Exploration

Macondo - MC252#1

OPERATOR: BP PARTNER: Anadarko, MOEX DATE: 3/10/2010 Rev 14.3
 WELL NAME: MC 252 #1, MACONDO PROSPECT, QCS-G-32306 PTD: 19,650' MD/TVD
 FIELD / PROSPECT: WILDCAT AREA: OFFSHORE STATE LA RF ELEV: 75' (Horizon) WD: 4992'
 SURFACE LOCATION: X=1,202,803.88 Y=10,431,617.00 PBHL: X=1,202,803.88 Y=10,431,617.00
 OBJECTIVE ZONE(S): M56 RIG: Transocean Deepwater Horizon



Component	Component Type	Component Detail	Jts	Length (ft)	Cum Length (ft)	OD (in)	ID (in)	Blade OD (in)	Bend Angle (°)	Connection		P/B
										Size (in)	Type	
Heavy Weight	Heavy Weight Drill Pipe	HWDP	20	619.96	619.96	6.625	4.500			6.625	FH	B
Jar	Drilling Jar	DRILLING JARS	1	32.25	652.19	8.000	3.000			6.625	FH	B
Heavy Weight	Heavy Weight Drill Pipe	HWDP	9	271.81	924.00	6.625	4.500			6.625	FH	B
Sub	Cross Over	CROSS OVER SUB	1	4.98	928.98	9.000	3.000			6.625	FH	B
Drill Collar	Drill Collar	8 1/4" COLLAR	1	31.23	960.21	8.250	3.000			6.625	REG	B
Drill Collar	Drill Collar	8 1/4" COLLAR	1	31.24	991.45	8.250	3.000			6.625	REG	B
Drill Collar	Drill Collar	8 1/4" COLLAR	1	30.77	1,022.22	8.250	3.000			6.625	REG	B
Sub	Cross Over	X-OVER SUB	1	4.35	1,026.57	8.000	2.812			6.625	REG	B
Drill Collar	Drill Collar	9 1/2" COLLAR	2	60.64	1,087.21	9.500	3.125			7.625	REG	B
Stabilizer	Integral Blade Stabilizer	14 5/8" STABILIZER	1	7.97	1,095.18	9.500	3.000			7.625	REG	B
Drill Collar	Drill Collar	9 1/2" COLLAR	1	29.88	1,125.06	9.500	3.000			7.625	REG	B
Underreamer	Underreamer	16 1/2" BAKER REAMER	1	10.71	1,135.77	9.520	3.500			7.625	REG	B
Stabilizer	Integral Blade Stabilizer	14 5/8" STABILIZER	1	5.01	1,140.78	9.562	3.625			7.625	REG	B
Sub	Filter Sub	FILTER SUB	1	7.91	1,148.69	9.500	4.000			7.625	REG	B
MWD	Pulser Sub	9 1/2" PULSAR	1	11.52	1,160.21	9.500	2.437			7.625	REG	B
MWD	Logging While Drilling	9 1/2" QBAT SONIC	1	22.11	1,182.32	9.500	2.437			7.625	REG	B
Stabilizer	Integral Blade Stabilizer	14 5/8" STABILIZER	1	3.57	1,185.89	9.500	2.437			7.625	REG	B
MWD	Logging While Drilling	9 1/2" M5 RLL		25.32	1,211.21	9.500	2.437			7.625	REG	B
Sub	Cross Over	NON MAG X-OVER SUB		1.88	1,213.07	9.500	2.437			7.625	REG	B
Drill Collar	Non-Mag Drill Collar	NON MAG FLEX JOINT	1	9.21	1,222.28	8.000	2.437			6.625	REG	B
Stabilizer	Integral Blade Stabilizer	14 5/8" STABILIZER	1	2.84	1,225.12	10.000	2.437			6.625	REG	B
MWD	Steering Tool	9600 GEO PILOT	1	18.88	1,244.00	10.000	2.437			6.625	REG	B
Bit	Polycrystalline Diamond Bit	14 3/4" PDC BIT	1	2.48	1,246.48	14.750	3.000			6.625	REG	B