

**Form MMS 123A/123S - Electronic Version**  
**Application for Revised Bypass**

**Lease** G32306    **Area/Block** MC 252    **Well Name** 001    **ST** 00    **BP** 01    **Well Type** Exploration  
**Application Status** Approved    **Operator** 02481    BP Exploration & Production Inc.

**Pay.gov**  
**Amount:**

**Agency**  
**Tracking ID:**

**Pay.gov**  
**Tracking ID:**

04/15/10 - Inadvertently removed the 9-7/8" liner from the well design information. Have reincorporated it.

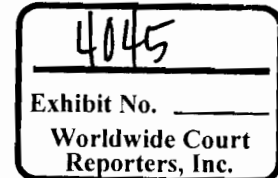
04/15/10 - Correct casing program. the 9-7/8" & 7" are actually a tapered casing. Please see corrected well design information.

04/14/10 - Revise casing program to include running a 7" production casing.

Revised data includes:  
- wellbore schematic

03/26/10 - Revise casing program to include running a 9.875" liner.

Revised data includes:  
- directional  
- wellbore schematic  
- pore pressure chart  
- procedure



01-25-10 -

1) Revise Annular Pressure test from 5000 psi to 3500 psi.

2) Request departure to stump test the 6-5/8" and 5-1/2" drill pipe but only the 6-5/8" drillpipe subsea. The only time the 5-1/2" will be run below the stack is as an inner string during the 16" casing job. Once the 16" string is landed out and cemented, the seal assemble will be set, and the inner string pulled out of the wellbore. During this time the 5-1/2" will be below the stack inside the casing

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01-12-10 - Revision to use the Deepwater Horizon to finish drilling operations (Marianas sent to shipyard for repairs, no longer under BP contract).

Revised attachments include:  
1) Horizon BOP schematic  
2) Wellbore schematic with revised RKB  
3) Revised Departure List (removed departure for 250.449 (f)  
4) Revised Pore Pressure Plot with Horizon RKB

The casing information has been updated to reflect actual setting depths, mudweights, etc.

Attachments referring to the Marianas BOPs and mooring have been removed.

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10-29-09 - Revised to show shallow setting depth and revised cement volume for the 18" casing.

Revision I: 10-15-09

This RPD is to request approval to replace the upper annular element from the originally approved standard element rated to 10k on 5-1/2" pipe to a 6-5/8" element which is rated to 7.5k on 5-1/2" and 10k on 6-5/8".

Please see the attached chart which shows the rating of each element. Our max annular tests per the approved APD will be 5k both on the stump test and down hole.

General Well Information

API Number 608174116901	Approval Date 04/15/2010	Approved By Frank Patton
Date of Request 04/15/2010	Req Spud Date 03/16/2010	Kickoff Point
Water Depth (ft.) 4992	Drive Size (in) 36	Mineral Code Hydrocarbon
RKB Elevation 75	Drive Depth (ft.) 5361	Subsea BOP Yes
Verbal Approval Date	Verbal Approval By	

Proposed Well Location

Surface Location

LEASE (OCS) G32306	Area/Block MC 252	Authority Federal Lease
Entered NAD 27 Data	Calculated NAD 27 Departures	Calculated NAD 27 X-Y Coordinates
Lat: 28.73836889	N 6857	X 1202802.892336
Lon: -88.36593389	E 1037	Y 10431702.916855
Surface Plan	Plan Lease (OCS)	Area/Block

Bottom Location

LEASE (OCS) G32306		Area/Block MC 252	
Entered NAD 27 Data		Calculated NAD 27 Departures	Calculated NAD 27 X-Y Coordinates
Lat: 28.73836889	N	6857	X 1202802.892336
Lon: -88.36593389	E	1037	Y 10431702.916855
Bottom Plan	Plan Lease (OCS)	Area/Block	

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<b>Application Status</b>	Approved		<b>Operator</b>	02481		BP Exploration & Production Inc.					

**Approval Comments**

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**Geologic Information**

<b>H2S Designation</b> Absent	<b>H2S TVD</b>
<b>Anticipated Geologic Markers</b>	
<b>Name</b>	<b>Top MD</b>
Catinaster coalitus	13145
Discoaster kugleri	14153
Cyclicargolithus floridanus	17481
Globorotalia peripheroronda	18400
Sphenolithus heteromorphus	19120
Discoaster petaliformis	19594

**Rig Information**

<b>RIG SPECIFICATIONS</b>		<b>ANCHORS</b>	No
<b>Rig Name</b>	T.O. DEEPWATER HORIZON		
<b>Type</b>	SEMISUBMERSIBLE	<b>ID Number</b>	46428
<b>Function</b>	DRILLING	<b>Constructed Year</b>	2001
<b>Shipyard</b>	HYUNDAI	<b>Refurbished Year</b>	
<b>RATED DEPTHS</b>			
<b>Water Depth</b>	10000	<b>Drill Depth</b>	35000
<b>CERTIFICATES</b>			
<b>ABS/DNV</b>	02/28/2011	<b>Coast Guard</b>	07/27/2011
<b>SAFE WELDING AREA</b>			
<b>Approval Date</b>	09/26/2001	<b>District</b>	1
<b>Remarks</b>			

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Number	Question	Response	Response Text
1	Will you maintain quantities of mud and mud material (including weight materials and additives) sufficient to raise the entire system mud weight 1/2	YES	
2	If hydrocarbon-based drilling fluids were used, is the drilling rig outfitted for zero discharge, and will zero discharge procedures be followed?	N/A	
3	If drilling the shallow casings strings riserless, will you maintain kill weight mud on the rig and monitor the wellbore with an ROV to ensure that it i	N/A	
4	If requesting a waiver of the conductor casing, have you submitted a log to MMS G&G that is with in 500 feet of the proposed bottom hole location for th	N/A	
5	Will the proposed operation be covered by an EPA Discharge Permit? (please provide permit number in comments for this question)	YES	Number not yet assigned
6	Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to well on the plat	N/A	

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**Permit Attachments**

File Type	File Description	Status
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**Required Attachments**

pdf	Drilling prognosis and summary of drilling, cementing, and mud processes	Attached
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**Optional/Supplemental Attachments**

pdf	Wellbore Schematic	Attached
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**Contacts Information**

<b>Name</b>	Heather Powell
<b>Company</b>	02481                      BP Exploration & Production Inc.
<b>Phone Number</b>	281-504-0984
<b>E-mail Address</b>	heather.powell@bp.com
<b>Contact Description</b>	Regulatory

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**Well Design Information**

Interval Number 1			Type	Casing	Name		Conductor	
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD	TVD	Pore Pressure (ppg)
1	28.000	218.0	X-52	2437	952	6217	6217	8.6
<b>GENERAL INFORMATION</b>			<b>PREVENTER INFORMATION</b>			<b>TEST INFORMATION</b>		
Hole Size (in) 32.500			Type No Preventers			Annular Test (psi) 0		
Mud Weight (ppg) 8.6			Size (in) N/A			BOP/Diverter Test (psi) 0		
Mud Type Code Gelled Sea Water			Wellhead Rating (psi) 0			Test Fluid Weight (ppg) 0.0		
Fracture Gradient (ppg) 9.8			Annular Rating (psi) 0			Casing/Liner Test (psi) 0		
Liner Top Depth (ft)			BOP/Diverter Rating (psi) 0			Formation Test (ppg) 0.0		
Cement Volume (cu ft) 4636								

Interval Number 2			Type	Casing	Name		Surface	
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD	TVD	Pore Pressure (ppg)
1	22.000	277.0	X-80	7955	6670	5227	5227	8.6
2	22.000	224.0	X-80	6363	3876	7937	7937	9.3
<b>GENERAL INFORMATION</b>			<b>PREVENTER INFORMATION</b>			<b>TEST INFORMATION</b>		
Hole Size (in) 26.000			Type Blowout			Annular Test (psi) 5000		
Mud Weight (ppg) 9.5			Size (in) 18.75			BOP/Diverter Test (psi) 6500		
Mud Type Code Water Base			Wellhead Rating (psi) 15000			Test Fluid Weight (ppg) 8.6		
Fracture Gradient (ppg) 10.5			Annular Rating (psi) 10000			Casing/Liner Test (psi) 3400		
Liner Top Depth (ft)			BOP/Diverter Rating (psi) 15000			Formation Test (ppg) 10.5		
Cement Volume (cu ft) 6301								

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**Application Status** Approved **Operator** 02481 **BP Exploration & Production Inc.**

Interval Number 3			Type	Liner	Name		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD	Depth (ft) TVD
1	18.000	117.0	P-110	6680	2110	8969	8969

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	22.000	Type	Blowout	Annular Test (psi)	3500
Mud Weight (ppg)	10.2	Size (in)	18.75	BOP/Diverter Test (psi)	6500
Mud Type Code	Synthetic Base	Wellhead Rating (psi)	15000	Test Fluid Weight (ppg)	10.2
Fracture Gradient (ppg)	11.8	Annular Rating (psi)	10000	Casing/Liner Test (psi)	3000
Liner Top Depth (ft)	7489.0	BOP/Diverter Rating (psi)	15000	Formation Test (ppg)	11.8
Cement Volume (cu ft)	993				

Interval Number 4			Type	Casing	Name		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD	Depth (ft) TVD
1	16.000	97.0	P-110	6920	2340	11585	11585

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	20.000	Type	Blowout	Annular Test (psi)	3500
Mud Weight (ppg)	11.2	Size (in)	18.75	BOP/Diverter Test (psi)	6500
Mud Type Code	Synthetic Base	Wellhead Rating (psi)	15000	Test Fluid Weight (ppg)	11.2
Fracture Gradient (ppg)	13.0	Annular Rating (psi)	10000	Casing/Liner Test (psi)	3600
Liner Top Depth (ft)		BOP/Diverter Rating (psi)	15000	Formation Test (ppg)	13.0
Cement Volume (cu ft)	1120				

Interval Number 5			Type	Liner	Name		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD	Depth (ft) TVD
1	13.625	88.2	Q-125	10030	4800	13145	13145

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	16.000	Type	Blowout	Annular Test (psi)	3500
Mud Weight (ppg)	12.3	Size (in)	18.75	BOP/Diverter Test (psi)	6500
Mud Type Code	Synthetic Base	Wellhead Rating (psi)	15000	Test Fluid Weight (ppg)	12.1
Fracture Gradient (ppg)	14.7	Annular Rating (psi)	10000	Casing/Liner Test (psi)	2500
Liner Top Depth (ft)	11153.0	BOP/Diverter Rating (psi)	15000	Formation Test (ppg)	14.7
Cement Volume (cu ft)	410				

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Interval Number 6		Type	Liner	Name		Intermediate	
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD	Pore Pressure (ppg) TVD
1	11.875	71.8	Q-125	10720	5630	15113	15102 13.1

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	14.500	Type	Blowout	Annular Test (psi)	3500
Mud Weight (ppg)	13.3	Size (in)	18.75	BOP/Diverter Test (psi)	6500
Mud Type Code	Synthetic Base	Wellhead Rating (psi)	15000	Test Fluid Weight (ppg)	13.3
Fracture Gradient (ppg)	14.6	Annular Rating (psi)	10000	Casing/Liner Test (psi)	1800
Liner Top Depth (ft)	12800.0	BOP/Diverter Rating (psi)	15000	Formation Test (ppg)	14.6
Cement Volume (cu ft)	340				

Interval Number 7		Type	Liner	Name		Intermediate	
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD	Pore Pressure (ppg) TVD
1	9.875	62.8	Q-125	13840	11140	17511	17500 13.7

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	12.250	Type	Blowout	Annular Test (psi)	3500
Mud Weight (ppg)	13.9	Size (in)	18.75	BOP/Diverter Test (psi)	6500
Mud Type Code	Synthetic Base	Wellhead Rating (psi)	15000	Test Fluid Weight (ppg)	13.9
Fracture Gradient (ppg)	15.0	Annular Rating (psi)	10000	Casing/Liner Test (psi)	1000
Liner Top Depth (ft)	14900.0	BOP/Diverter Rating (psi)	15000	Formation Test (ppg)	15.0
Cement Volume (cu ft)	160				

Interval Number 8		Type	Casing	Name		Production	
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating	Collapse Rating (psi)	Depth (ft) MD	Pore Pressure (ppg) TVD
1	9.875	62.8	Q-125	13840	11140	12300	12289 13.9
2	7.000	32.0	Q-125	14160	11710	18360	18349 13.9

GENERAL INFORMATION		PREVENTER INFORMATION		TEST INFORMATION	
Hole Size (in)	9.875	Type	Blowout	Annular Test (psi)	3500
Mud Weight (ppg)	14.0	Size (in)	18.75	BOP/Diverter Test (psi)	6500
Mud Type Code	Synthetic Base	Wellhead Rating (psi)	15000	Test Fluid Weight (ppg)	14.0
Fracture Gradient (ppg)	16.0	Annular Rating (psi)	10000	Casing/Liner Test (psi)	2500
Liner Top Depth (ft)	0.0	BOP/Diverter Rating (psi)	15000	Formation Test (ppg)	15.2

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<b>Cement Volume (cu ft)</b> 150		
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PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq. Requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 27 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form for the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849

Input data in light yellow cells

Well Name	Water Depth (ft)	RKB Elevation (ft)
MC 252 #1 - Macondo Prospect	4992	75



BP Gulf of Mexico  
MMS APD Worksheet

Structural / Drive Pipe (Jettied) Depth: 5321' ( 254' bml ) Size: 36"

Interval Number: 1			Type: Conductor			Name: Conductor		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth (ft)		Pore Pressure (ppg)
						MD	TVD	
1	28.000	218.0	X-52	2437	952	6217	6217	8.6
<b>GENERAL INFORMATION:</b>			<b>PREVENTER INFORMATION:</b>			<b>TEST INFORMATION:</b>		
Hole Size (in)	32.500		Preventer Type	NA		Annular Test (psi)		riserless section - no BOP
Mud Weight (ppg)	8.6		Preventer Size (in)			BOP/Diverter Test (psi)		
Mud Type Code	SW		Wellhead Rating (psi)			Mud Test Weight (ppg)		
Fracture Gradient (ppg)	9.8		Annular Rating (psi)			Casing/Liner Test (psi)		
Liner Top MD (ft)	0		BOP/Diverter Rating (psi)			Formation Test (ppg)		
Cement Volume (cu ft)	4636							

Interval Number: 2			Type: Casing			Name: Surface		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth (ft)		Pore Pressure (ppg)
						MD	TVD	
1	22.000	277.0	X-80	7950	6670	5227	5227	8.6
2	22.000	224.0	X-80	6360	3870	7937	7937	9.3
<b>GENERAL INFORMATION:</b>			<b>PREVENTER INFORMATION:</b>			<b>TEST INFORMATION:</b>		
Hole Size (in)	26.000		Preventer Type	Blowout		Annular Test (psi)	5000	
Mud Weight (ppg)	9.5		Preventer Size (in)	18.75		BOP/Diverter Test (psi)	6500	
Mud Type Code	WB		Wellhead Rating (psi)	15000		Mud Test Weight (ppg)	8.6	
Fracture Gradient (ppg)	10.5		Annular Rating (psi)	10000		Casing/Liner Test (psi)	3,400	
Liner Top MD (ft)			BOP/Diverter Rating (psi)	15000		Formation Test (ppg)	10.5	
Cement Volume (cu ft)	6301							

Interval Number: 3			Type: Liner			Name: Intermediate		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth (ft)		Pore Pressure (ppg)
						MD	TVD	
1	18.000	117.0	P-110	6680	2110	8969	8969	10.1
<b>GENERAL INFORMATION:</b>			<b>PREVENTER INFORMATION:</b>			<b>TEST INFORMATION:</b>		
Hole Size (in)	22.000		Preventer Type	Blowout		Annular Test (psi)	3500	
Mud Weight (ppg)	10.2		Preventer Size (in)	18.75		BOP/Diverter Test (psi)	6500	
Mud Type Code	SBM		Wellhead Rating (psi)	15000		Mud Test Weight (ppg)	10.2	
Fracture Gradient (ppg)	11.8		Annular Rating (psi)	10000		Casing/Liner Test (psi)	3,000	
Liner Top MD (ft)	7489		BOP/Diverter Rating (psi)	15000		Formation Test (ppg)	11.8	
Cement Volume (cu ft)	993							

Interval Number: 4			Type: Casing			Name: Intermediate		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth (ft)		Pore Pressure (ppg)
						MD	TVD	
1	16.000	97.0	P-110	6660	2340	11585	11585	11.0
<b>GENERAL INFORMATION:</b>			<b>PREVENTER INFORMATION:</b>			<b>TEST INFORMATION:</b>		
Hole Size (in)	20.000		Preventer Type	Blowout		Annular Test (psi)	3500	
Mud Weight (ppg)	11.2		Preventer Size (in)	18.75		BOP/Diverter Test (psi)	6500	
Mud Type Code	SBM		Wellhead Rating (psi)	15000		Mud Test Weight (ppg)	11.2	
Fracture Gradient (ppg)	13.0		Annular Rating (psi)	10000		Casing/Liner Test (psi)	3,600	
Liner Top MD (ft)	5227		BOP/Diverter Rating (psi)	15000		Formation Test (ppg)	13.0	
Cement Volume (cu ft)	1120							

Interval Number: 5			Type: Liner			Name: Intermediate Drilling Liner		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth (ft)		Pore Pressure (ppg)
						MD	TVD	
1	13.625	38.7	Q-125	10030	4800	13145	13145	11.7

**GENERAL INFORMATION:**

Hole Size (in) 16.500  
Mud Weight (ppg) 12.3  
Mud Type Code SBM  
Fracture Gradient (ppg) 14.7  
Liner Top MD (ft) 11,153  
Cement Volume (cu ft) 410

**PREVENTER INFORMATION:**

Preventer Type Blowout  
Preventer Size (in) 18.75  
Wellhead Rating (psi) 15000  
Annular Rating (psi) 10000  
BOP/Diverter Rating (psi) 15000

**TEST INFORMATION:**

Annular Test (psi) 3500  
BOP/Diverter Test (psi) 6500  
Mud Test Weight (ppg) **12.1**  
Casing/Liner Test (psi) **2,500**  
Formation Test (ppg) 14.7

Interval Number: 6			Type: Liner			Name:		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth (ft)		Pore Pressure (ppg)
						MD	TVD	
1	11.875	71.8	Q-125	10720	5630	15113	15102	13.1

**GENERAL INFORMATION:**

Hole Size (in) 14.500  
Mud Weight (ppg) 13.3  
Mud Type Code SBM  
Fracture Gradient (ppg) 14.6  
Liner Top MD (ft) 12800  
Cement Volume (cu ft) 696

**PREVENTER INFORMATION:**

Preventer Type Blowout  
Preventer Size (in) 18.75  
Wellhead Rating (psi) 15000  
Annular Rating (psi) 10000  
BOP/Diverter Rating (psi) 15000

**TEST INFORMATION:**

Annular Test (psi) 3500  
BOP/Diverter Test (psi) 6500  
Mud Test Weight (ppg) **13.3**  
Casing/Liner Test (psi) **1,800**  
Formation Test (ppg) 14.6

Interval Number: 7			Type: Liner			Name:		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth (ft)		Pore Pressure (ppg)
						MD	TVD	
1	9.875	62.8	Q-125	13840	11140	17168	17159	13.8

**GENERAL INFORMATION:**

Hole Size (in) 12.250  
Mud Weight (ppg) 13.9  
Mud Type Code SBM  
Fracture Gradient (ppg) 16.0  
Liner Top MD (ft) 14759  
Cement Volume (cu ft) 450

**PREVENTER INFORMATION:**

Preventer Type Blowout  
Preventer Size (in) 18.75  
Wellhead Rating (psi) 15000  
Annular Rating (psi) 10000  
BOP/Diverter Rating (psi) 15000

**TEST INFORMATION:**

Annular Test (psi) 3500  
BOP/Diverter Test (psi) 6500  
Mud Test Weight (ppg) **13.9**  
Casing/Liner Test (psi) **1,000**  
Formation Test (ppg) 16.0

Interval Number: 8			Type: Casing			Name: Production		
Section Number	Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	Burst Rating (psi)	Collapse Rating (psi)	Depth (ft)		Pore Pressure (ppg)
						MD	TVD	
1	9.875	62.8	Q-125	13840	11140	12300	12289	13.9

