

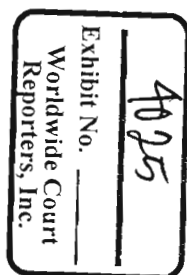
Instructions for use of the Formation Pressure Integrity Test (PIT) Workbook

General:

- This spreadsheet uses macros to generate the plot and to change units
- If you copy a sheet to a new workbook without the macros, the plot and units functions will not work.
- Enter all data before selecting the "Plot" button. Plot will not update until this button is pressed.

Spreadsheet Use:

1. Open the workbook and "Save As" a new workbook using the well name as the name of the file
2. Use the "Edit" "Move or Copy Sheet" function to make a copy of the "Blank Case" tab within this same workbook
3. Rename the tab of the copied worksheet with the name of the casing shoe
4. Fill in all yellow cells with the required information
 - a. Purple colored cells are not to be over written, these will complete themselves
 - b. Time data should be in minutes (or fractions thereof) in the "number" format
 - c. No alpha text should be written in the casing test or PIT test data cells
 - d. The alpha text "ISIP" can be written in the PIT VOL (bbl) column in the first cell below the last volume reading if desired
 - e. The alpha text "ISIP" signifies "Initial Shut In Pressure"
 - f. Time data for the casing test is not required. Casing test data well in excess of the maximum surface pressure used during the PIT will be ignored.
 - g. Time data below row 325 is ignored at this time. If more than 300 points is required, contact Mark Alberty.
 - h. Do not enter volume data after shut-in, graph will automatically switch to time based reading at that point if you do not enter volume data
5. Once all data is entered, press plot to update the graph.



BP Exploration and Production Formation Pressure Integrity Test (PIT) Procedure, Version 1.0

Document Authority: Wells Director: Harry Thierens

Procedure Custodian: Drilling Excellence Advisor: Terry Jordan

Segment Technical Authority: Mark Alberty

Pre-Job Considerations:

- Graph casing pressure test versus volume pumped and use as a baseline for the PIT test.
- Use cement unit and cement unit gauges. Ensure sufficient mud supply to the cement unit.
- Calculate estimated Leak-off Test (LOT)/Formation Integrity Test (FIT) pressure and test lines to 1000 psi over expected LOT/FIT pressure.

Operations

1. Drill out the cement shoe track, cleanout rathole, and drill 10-ft of new formation or as otherwise specified in well specific program.

Technical Note:

MMS regulations require a minimum of 10-ft md and a maximum of 50-ft md of new formation.

2. Circulate cuttings out of the well or at least above the BOPs. If minimal cuttings have been drilled, circulate a minimum of 1,000-ft above the BHA. Ensure consistent mud weight with surface samples with pressurized scales.
3. Pull bit back into shoe and space out to close the appropriate BOPs.
4. While keeping drill string still, circulate up consistent downhole equivalent static densities (ESDs) from the pressure while drilling (PWD) tool to achieve < 0.05 ppg consistency.
5. Displace the appropriate choke or kill line to fresh mud.

Technical Note:

The test will be performed pumping down the drill pipe and down the annulus simultaneously via the appropriate choke or kill line to reduce friction pressure.

6. Rig up to pump down the drill pipe and down choke or kill line with the cement unit.
7. Break circulation down the drill pipe and down the choke or kill line.
8. Close the appropriate surface valve on the drill pipe side, and the appropriate choke/kill line valve at the BOP stack. Test lines to 1,000 psi over anticipated maximum LOT or FIT surface pressure.
9. Bleed off test pressure but do not completely drain lines. Open valves and break circulation down drill pipe and down the choke or kill line.
10. Shutdown and re-zero pressure gauge at cement unit to account for hydrostatic between cement unit and rig floor.
11. Close appropriate BOP and monitor return line to ensure no returns during PIT.
12. Perform LOT/FIT, pumping a maximum of ½ barrel per minute (bpm).
13. Record volume pumped and surface pressure consistent with pump rate. For example, if pumping ½ bpm, record data every ½ bbl. If pumping ¼ bpm, record data every ¼ bbl.
14. Graph data on a Surface Pressure versus Volume Pumped/Time graph.

Technical Note:

Technical Note:

There are four potential values to extract from conducting a pressure integrity test:

Surface Measured Pressure Integrity Test: This is the value we are required to report to the MMS

Downhole Measured Pressure Integrity Test: This is the value we use for operations with PWD

Surface Leak-off Test (LOT): This is the value we use as minimum horizontal stress for wellbore stability and stress cage calculations

Downhole Leak-off Test (LOT): This is the value we use as minimum horizontal stress for wellbore stability and stress cage calculations

20. Record the following data on the IADC book (official MMS record) as written:

- Formation Pressure Integrity Test (PIT) data:
- Maximum Surface Pressure ____ psi
- Test Surface Mud Weight ____ ppg
- Surface Equivalent Mud Weight ____ ppg

21. On the DIMS morning report, record the following:

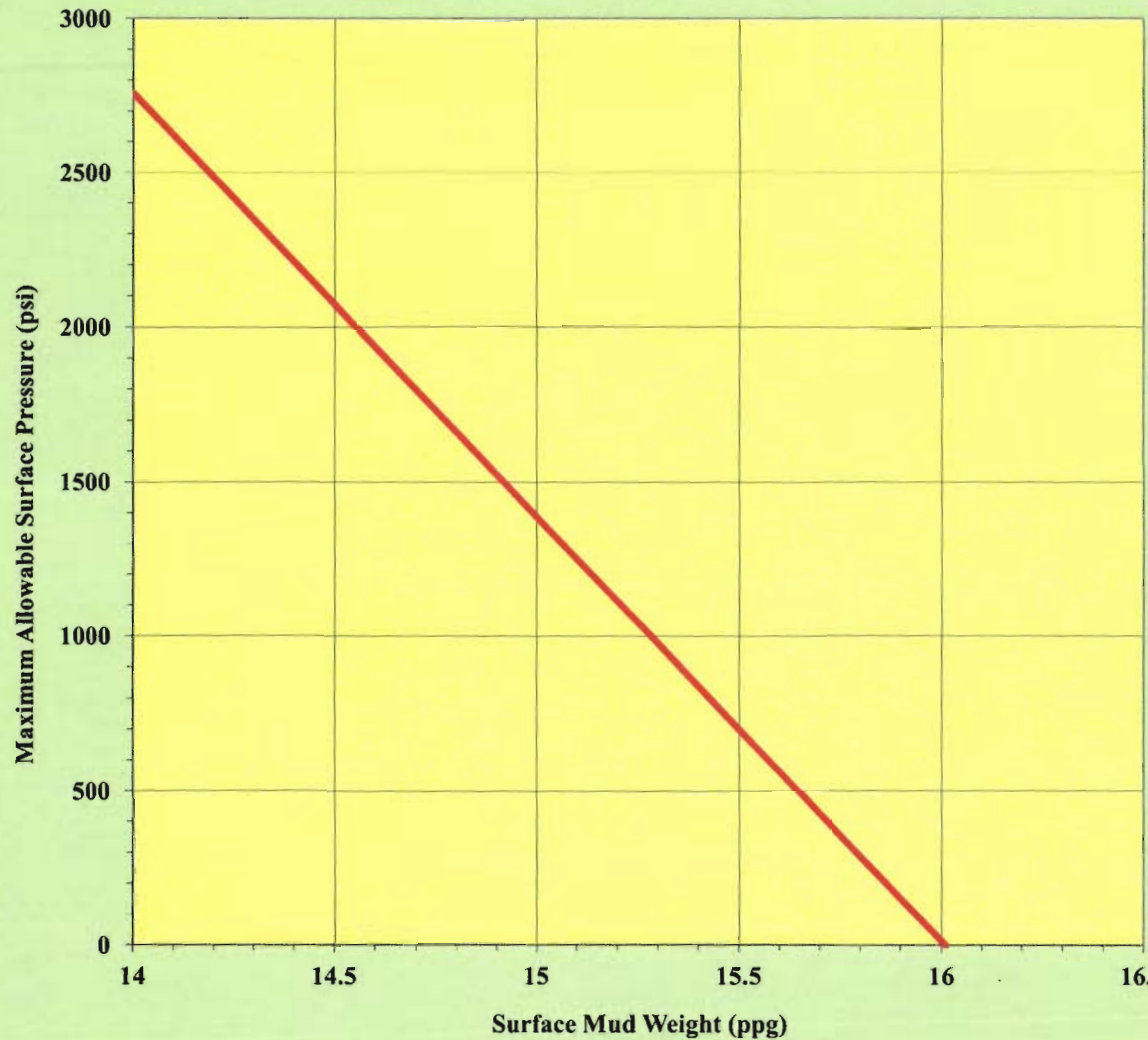
- Surface Measured Formation Pressure Integrity Test (PIT) = ____ ppg
- Downhole Measured Formation Pressure Integrity Test (PIT) data = ____ ppg
- Surface Measured Leak-off Test (LOT) data = ____ ppg (if leak-off reached)
- Downhole Measured Leak-off Test (LOT) data = ____ ppg (if leak-off reached)

22. Record and plot the data on the approved BP GoM PIT Data Spreadsheet and Graph.

23. Record and plot the MMS required Maximum Allowable Surface Casing Pressure (psi) versus Mud Weight (ppg) and post on the rig floor.

Maximum Surface Pressure

bp



Well Name: OCS-G 19530 # 1

O.D.Casing/Liner @
Shoe: 11.875 in

Shoe Depth (MD):
26956 ft

Shoe Depth
(TVD): 26409 ft

PIT @ Shoe: 16.01 ppg

Lowest mud weight
to be used: 14 ppg

BOP system rated
working pressure: 10000 psi

70% of lowest
casing/liner burst
rating: 4500 psi

FORMATION PRESSURE INTEGRITY TEST (PIT) REPORTING SPREADSHEET

WELL NAME	OCS-G 32306 #1	RIG	Deepwater Horizon	SUPERVISOR	M. Sepulvado	TEST TYPE			
FIELD	MC 252 #1	DATE	11-Feb-10			<input type="radio"/> FIT <input type="radio"/> LOT			
ELEVATION KB	75 ft	HOLE TD (MD)	9,086 ft	CSG SIZE OD	18	CSG SHOE (MD)	8,969 ft	INCLINATION	00.0 deg
WATER DEPTH	4,992 ft	HOLE TD (TVD)	9,086 ft	TYPE	Liner	CSG SHOE (TVD)	8,969 ft	AT SHOE	

MUD WEIGHT	SURFACE	DH ESD	TEST	
	10.6 ppg	10.81 ppg	RATE (bpm)	1.00

PRE-TEST CALCULATIONS/RECORDINGS

PROJECTED FIT/LOT: (Surface) (Downhole)
 Expected pressure for "Projected FIT/LOT", (psi): 652

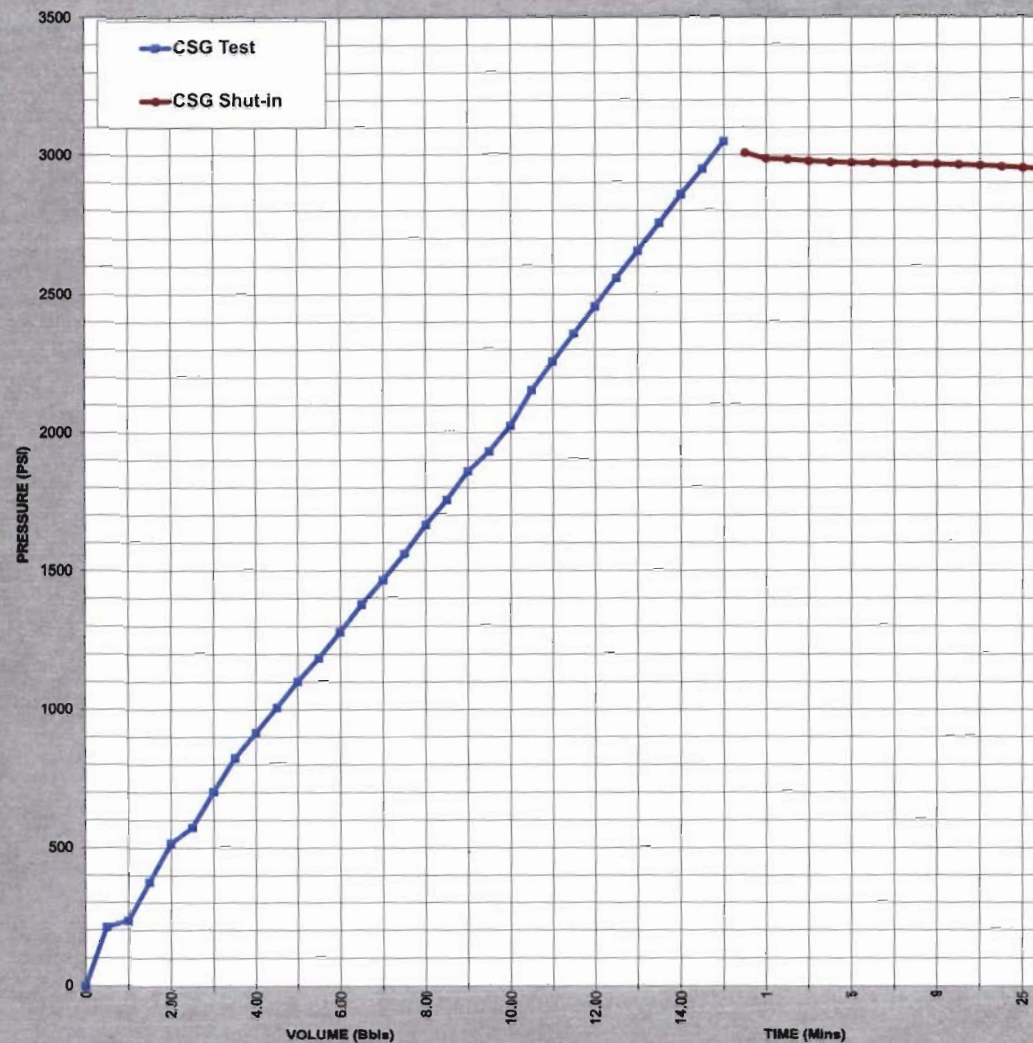
POST-TEST RESULTS

MAXIMUM OBSERVED PRESS (psi): 440
 INITIAL SHUT-IN (ISIP) OR LOT PRESS (psi):
 MUD PUMPED (bbl):
 MUD FLOW BACK (bbl):

MMS Value --> MEASURED PIT (EMW) = 11.54 ppg 11.75 ppg
 MEASURED LOT (EMW) =

(PIT: RECORDED VOLUME PUMPED EVERY 0.25 BBL or 0.5 BBL PUMPED)

CASING TEST			FORMATION PRESSURE INTEGRITY TEST		
TIME (min)	VOL (bbl)	PRESSURE	TIME (min)	VOL (bbl)	PRESSURE
0	0.00	0.0		0.00	0
0.5	0.50	212.0		0.50	115
1.0	1.00	234.0		1.00	202
1.5	1.50	376.0		1.50	270
2.0	2.00	517.0		2.00	311
2.5	2.50	574.0		2.50	341
3.0	3.00	703.0		3.00	360
3.5	3.50	824.0		3.50	371
4.0	4.00	916.0		4.00	387
4.5	4.50	1008.0		4.50	403
5.0	5.00	1102.0		5.00	419
5.5	5.50	1186.0		5.50	431
6.0	6.00	1279.0		6.00	440
6.5	6.50	1378.0	0.0		374
7.0	7.00	1466.0	1.0		345
7.5	7.50	1561.0	2.0		333
8.0	8.00	1665.0	3.0		324
8.5	8.50	1755.0	4.0		317
9.0	9.00	1859.0	5.0		309
9.5	9.50	1931.0	6.0		308
10.0	10.00	2025.0	7.0		303
10.5	10.50	2155.0	8.0		301
11.0	11.00	2258.0	9.0		296
11.5	11.50	2358.0	10.0		294
12.0	12.00	2456.0			
12.5	12.50	2560.0			
13.0	13.00	2657.0			
13.5	13.50	2756.0			
14.0	14.00	2858.0			
14.5	14.50	2950.0			
15.0	15.00	3050.0			
0.0		3008.0			
1.0		2987.0			
2.0		2984.0			
3.0		2976.0			
4.0		2974.0			
5.0		2972.0			
6.0		2971.0			
7.0		2969.0			
8.0		2967.0			
9.0		2967.0			
10.0		2965.0			
15.0		2962.0			
20.0		2958.0			
25.0		2954.0			
30.0		2950.0			



WELL NAME	OCS-G 32306 #1	RIG	Deepwater Horizon	SUPERVISOR	M. Sepulvado	TEST TYPE			
FIELD	MC 252 #1	DATE	11-Feb-10			<input type="radio"/> FIT <input type="radio"/> LOT			
ELEVATION KB	75 ft	HOLE TD (MD)	9,086 ft	CSG SIZE OD	18	CSG SHOE (MD)	8,969 ft	INCLINATION	00.0 deg
WATER DEPTH	4,992 ft	HOLE TD (TVD)	9,086 ft	TYPE	Liner	CSG SHOE (TVD)	8,969 ft	AT SHOE	

MUD WEIGHT	SURFACE	DH ESD	TEST	
	10.6 ppg	10.81 ppg	RATE (bpm)	1.00

PRE-TEST CALCULATIONS/RECORDINGS (Surface) (Downhole)

PROJECTED FIT/LOT:	12. ppg
Expected pressure for "Projected FIT/LOT", (psi):	652

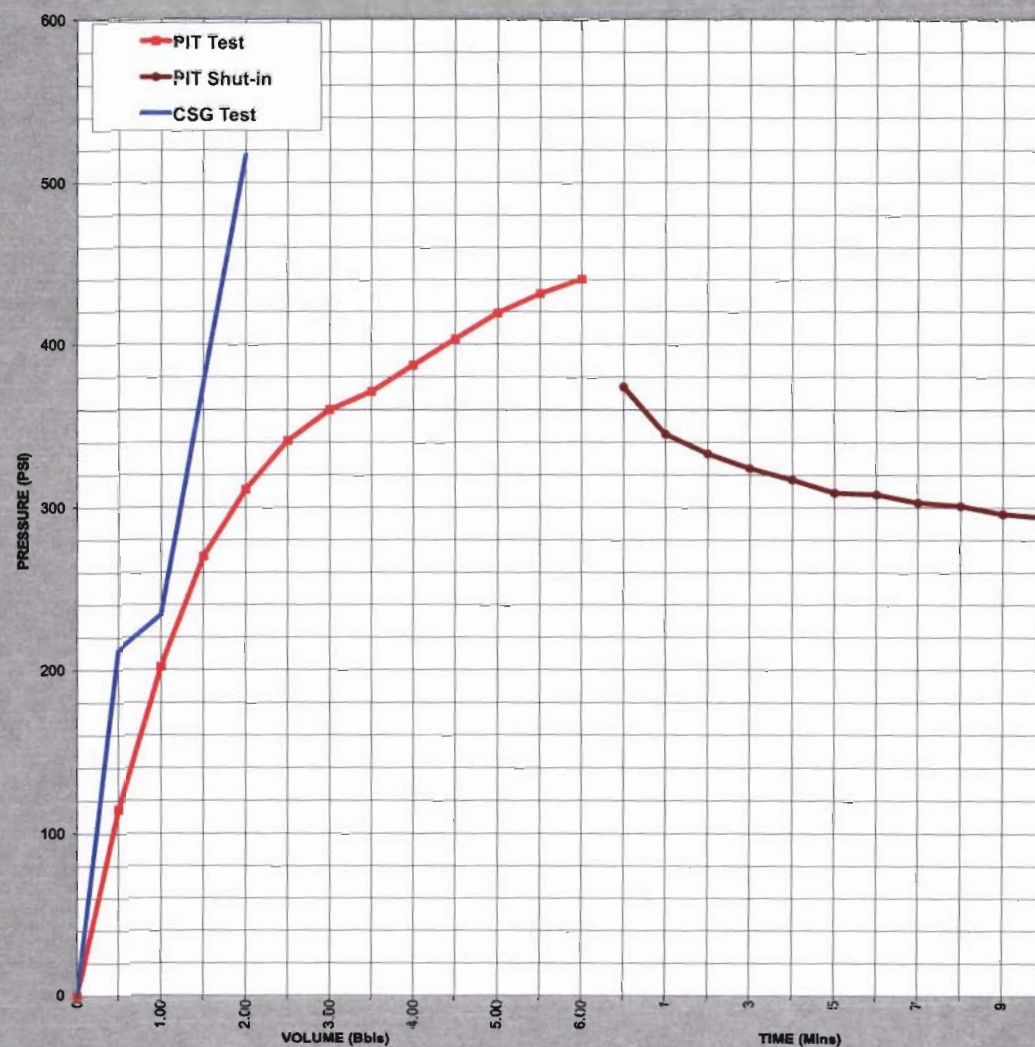
POST-TEST RESULTS

MAXIMUM OBSERVED PRESS (psi):	413
INITIAL SHUT-IN (ISIP) OR LOT PRESS (psi):	
MUD PUMPED (bbl):	
MUD FLOW BACK (bbl):	

MMS Value --> MEASURED PIT (EMW) =	11.49 ppg	11.7 ppg
MEASURED LOT (EMW) =		

(PIT: RECORDED VOLUME PUMPED EVERY 0.25 BBL or 0.5 BBL PUMPED)

CASING TEST			FORMATION PRESSURE INTEGRITY TEST		
TIME (min)	VOL (bbl)	PRESSURE	TIME (min)	VOL (bbl)	PRESSURE
0	0.00	0.0		0.00	0
0.5	0.50	212.0		0.50	169
1.0	1.00	234.0		1.00	224
1.5	1.50	376.0		1.50	263
2.0	2.00	517.0		2.00	307
2.5	2.50	574.0		2.50	339
3.0	3.00	703.0		3.00	372
3.5	3.50	824.0		3.50	395
4.0	4.00	916.0		4.00	407
4.5	4.50	1006.0		4.50	413
5.0	5.00	1102.0			
5.5	5.50	1186.0			
6.0	6.00	1279.0			
6.5	6.50	1378.0			
7.0	7.00	1466.0			
7.5	7.50	1561.0			
8.0	8.00	1665.0			
8.5	8.50	1755.0			
9.0	9.00	1859.0			
9.5	9.50	1931.0			
10.0	10.00	2025.0			
10.5	10.50	2155.0			
11.0	11.00	2258.0			
11.5	11.50	2358.0			
12.0	12.00	2456.0			
12.5	12.50	2560.0			
13.0	13.00	2657.0			
13.5	13.50	2756.0			
14.0	14.00	2858.0			
14.5	14.50	2950.0			
15.0	15.00	3050.0			
0.0		3008.0			
1.0		2987.0			
2.0		2984.0			
3.0		2978.0			
4.0		2974.0			
5.0		2972.0			
6.0		2971.0			
7.0		2969.0			
8.0		2967.0			
9.0		2967.0			
10.0		2965.0			
15.0		2962.0			
20.0		2958.0			
25.0		2954.0			
30.0		2950.0			



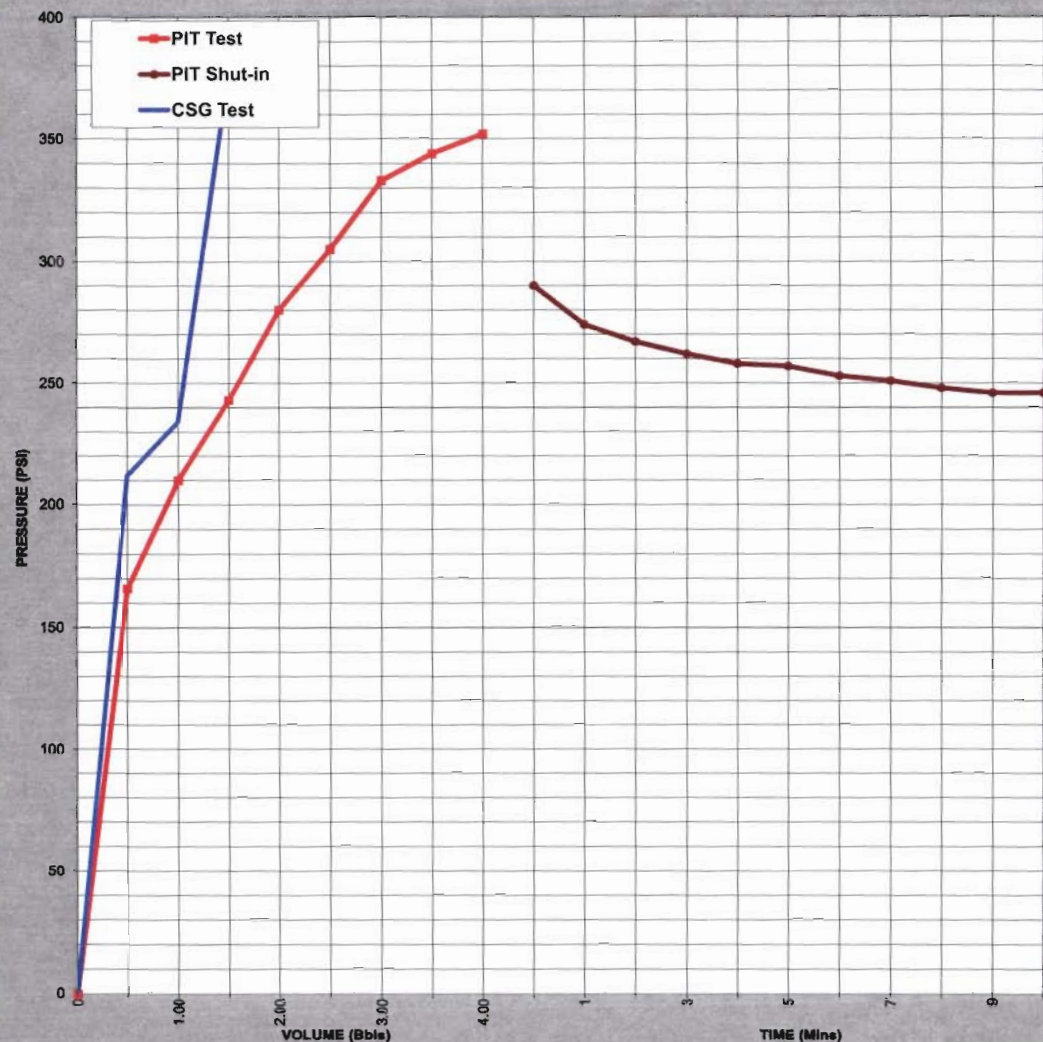
WELL NAME	OCS-G 32306 #1			RIG	Deepwater Horizon	SUPERVISOR	M. Sepulvado	TEST TYPE	
FIELD	MC 252 #1			DATE	11-Feb-10			<input type="radio"/> FIT	<input type="radio"/> LOT
ELEVATION KB	75 ft	HOLE TD (MD)	9,086 ft	CSG SIZE OD	18	CSG SHOE (MD)	8,969 ft	INCLINATION	00.0 deg
WATER DEPTH	4,992 ft	HOLE TD (TVD)	9,086 ft	TYPE	Liner	CSG SHOE (TVD)	8,969 ft	AT SHOE	

MUD WEIGHT	SURFACE	DH ESD	TEST RATE (bpm)	1.00
	10.6 ppg	10.79 ppg		

PRE-TEST CALCULATIONS/RECORDINGS	(Surface)	(Downhole)
PROJECTED FIT/LOT:	12. ppg	
Expected pressure for "Projected FIT/LOT", (psi):	652	
POST-TEST RESULTS		
MAXIMUM OBSERVED PRESS (psi):	352	
INITIAL SHUT-IN (ISIP) OR LOT PRESS (psi):		
MUD PUMPED (bbl):		
MUD FLOW BACK (bbl):		
MMS Value --> MEASURED PIT (EMW) =	11.36 ppg	11.55 ppg
MEASURED LOT (EMW) =		

(PIT: RECORDED VOLUME PUMPED EVERY 0.25 BBL or 0.5 BBL PUMPED)

CASING TEST			FORMATION PRESSURE INTEGRITY TEST		
TIME (min)	VOL (bbl)	PRESSURE	TIME (min)	VOL (bbl)	PRESSURE
0	0.00	0.0		0.00	0
0.5	0.50	212.0		0.50	166
1.0	1.00	234.0		1.00	210
1.5	1.50	376.0		1.50	243
2.0	2.00	517.0		2.00	280
2.5	2.50	574.0		2.50	305
3.0	3.00	703.0		3.00	333
3.5	3.50	824.0		3.50	344
4.0	4.00	916.0		4.00	352
4.5	4.50	1008.0	0.0		290
5.0	5.00	1102.0	1.0		274
5.5	5.50	1186.0	2.0		267
6.0	6.00	1279.0	3.0		262
6.5	6.50	1378.0	4.0		258
7.0	7.00	1466.0	5.0		257
7.5	7.50	1561.0	6.0		253
8.0	8.00	1665.0	7.0		251
8.5	8.50	1755.0	8.0		248
9.0	9.00	1859.0	9.0		246
9.5	9.50	1931.0	10.0		246
10.0	10.00	2025.0			
10.5	10.50	2155.0			
11.0	11.00	2258.0			
11.5	11.50	2358.0			
12.0	12.00	2456.0			
12.5	12.50	2560.0			
13.0	13.00	2657.0			
13.5	13.50	2756.0			
14.0	14.00	2858.0			
14.5	14.50	2950.0			
15.0	15.00	3050.0			
0.0		3008.0			
1.0		2987.0			
2.0		2984.0			
3.0		2978.0			
4.0		2974.0			
5.0		2972.0			
6.0		2971.0			
7.0		2969.0			
8.0		2967.0			
9.0		2967.0			
10.0		2965.0			
15.0		2962.0			
20.0		2958.0			
25.0		2954.0			
30.0		2950.0			



WELL NAME	OCS-G 32306 #1	RIG	Deepwater Horizon	SUPERVISOR	M. Sepulvado	TEST TYPE			
FIELD	MC 252 #1	DATE	11-Feb-10			<input type="radio"/> FIT <input type="radio"/> LOT			
ELEVATION KB	75 ft	HOLE TD (MD)	9,086 ft	CSG SIZE OD	18	CSG SHOE (MD)	8,969 ft	INCLINATION AT SHOE	00.0 deg
WATER DEPTH	4,992 ft	HOLE TD (TVD)	9,086 ft	TYPE	Liner	CSG SHOE (TVD)	8,969 ft		

MUD WEIGHT	SURFACE	DH ESD	TEST RATE (bpm)	0.50
	10.6 ppg	10.84 ppg		

PRE-TEST CALCULATIONS/RECORDINGS (Surface) (Downhole)

PROJECTED FIT/LOT: 12. ppg

Expected pressure for "Projected FIT/LOT", (psi): 652

POST-TEST RESULTS

MAXIMUM OBSERVED PRESS (psi): 317

INITIAL SHUT-IN (ISIP) OR LOT PRESS (psi):

MUD PUMPED (bbl):

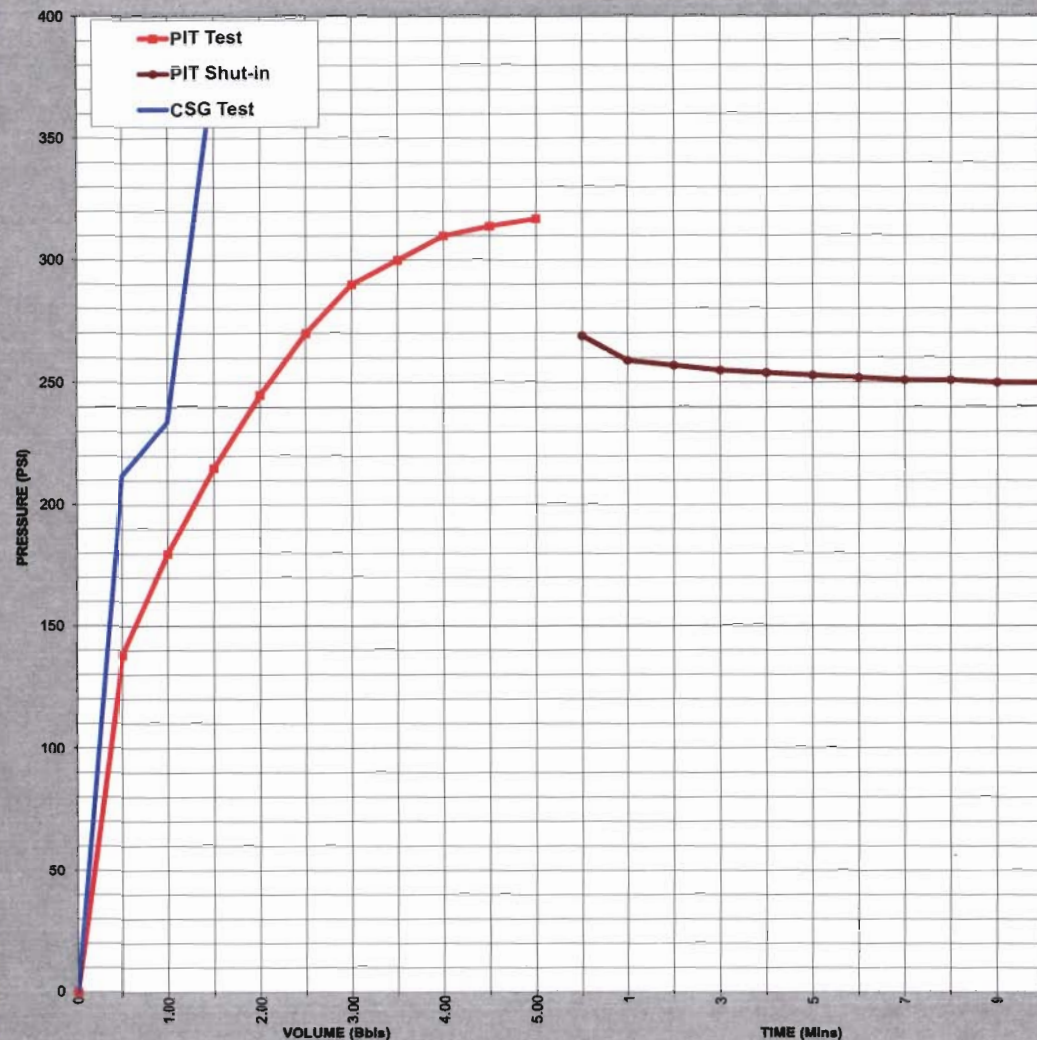
MUD FLOW BACK (bbl):

MMS Value --> MEASURED PIT (EMW) = 11.28 ppg

MEASURED LOT (EMW) = 11.52 ppg

(PIT: RECORDED VOLUME PUMPED EVERY 0.25 BBL or 0.5 BBL PUMPED)

CASING TEST			FORMATION PRESSURE INTEGRITY TEST		
TIME (min)	VOL (bbl)	PRESSURE	TIME (min)	VOL (bbl)	PRESSURE
0	0.00	0.0		0.00	0
0.5	0.50	212.0		0.50	138
1.0	1.00	234.0		1.00	180
1.5	1.50	376.0		1.50	215
2.0	2.00	517.0		2.00	245
2.5	2.50	574.0		2.50	270
3.0	3.00	703.0		3.00	290
3.5	3.50	824.0		3.50	300
4.0	4.00	916.0		4.00	310
4.5	4.50	1008.0		4.50	314
5.0	5.00	1102.0		5.00	317
5.5	5.50	1186.0	0.0		269
6.0	6.00	1279.0	1.0		259
6.5	6.50	1378.0	2.0		257
7.0	7.00	1466.0	3.0		255
7.5	7.50	1561.0	4.0		254
8.0	8.00	1665.0	5.0		253
8.5	8.50	1755.0	6.0		252
9.0	9.00	1859.0	7.0		251
9.5	9.50	1931.0	8.0		251
10.0	10.00	2025.0	9.0		250
10.5	10.50	2155.0	10.0		250
11.0	11.00	2258.0			
11.5	11.50	2358.0			
12.0	12.00	2456.0			
12.5	12.50	2560.0			
13.0	13.00	2657.0			
13.5	13.50	2756.0			
14.0	14.00	2858.0			
14.5	14.50	2950.0			
15.0	15.00	3050.0			
0.0		3008.0			
1.0		2987.0			
2.0		2984.0			
3.0		2978.0			
4.0		2974.0			
5.0		2972.0			
6.0		2971.0			
7.0		2969.0			
8.0		2967.0			
9.0		2967.0			
10.0		2965.0			
15.0		2962.0			
20.0		2958.0			
25.0		2954.0			
30.0		2950.0			



WELL NAME	OCS-G 32308 #1	RIG	Deepwater Horizon	SUPERVISOR	Murry Sepulvado	TEST TYPE		
FIELD	Mississippi Canyon 252 (Macondo)	DATE	7-Mar-10			<input type="radio"/> FIT <input checked="" type="radio"/> LOT		
ELEVATION KB	75 ft	HOLE TD (MD)	11,638 ft	CSG SIZE OD	16	CSG SHOE (MD)	11,585 ft	INCLINATION
WATER DEPTH	4,992 ft	HOLE TD (TVD)	11,638 ft	TYPE	Liner	CSG SHOE (TVD)	11,585 ft	AT SHOE
								00.0 deg

MUD WEIGHT	SURFACE	DH ESD	TEST	
	11.5 ppg	11.71 ppg	RATE (bpm)	0.50

PRE-TEST CALCULATIONS/RECORDINGS

PROJECTED FIT/LOT: (Surface) (Downhole)

Expected pressure for "Projected FIT/LOT", (psi): 782

POST-TEST RESULTS

MAXIMUM OBSERVED PRESS (psi): 631

INITIAL SHUT-IN (ISIP) OR LOT PRESS (psi): 592

MUD PUMPED (bbl): 7.50

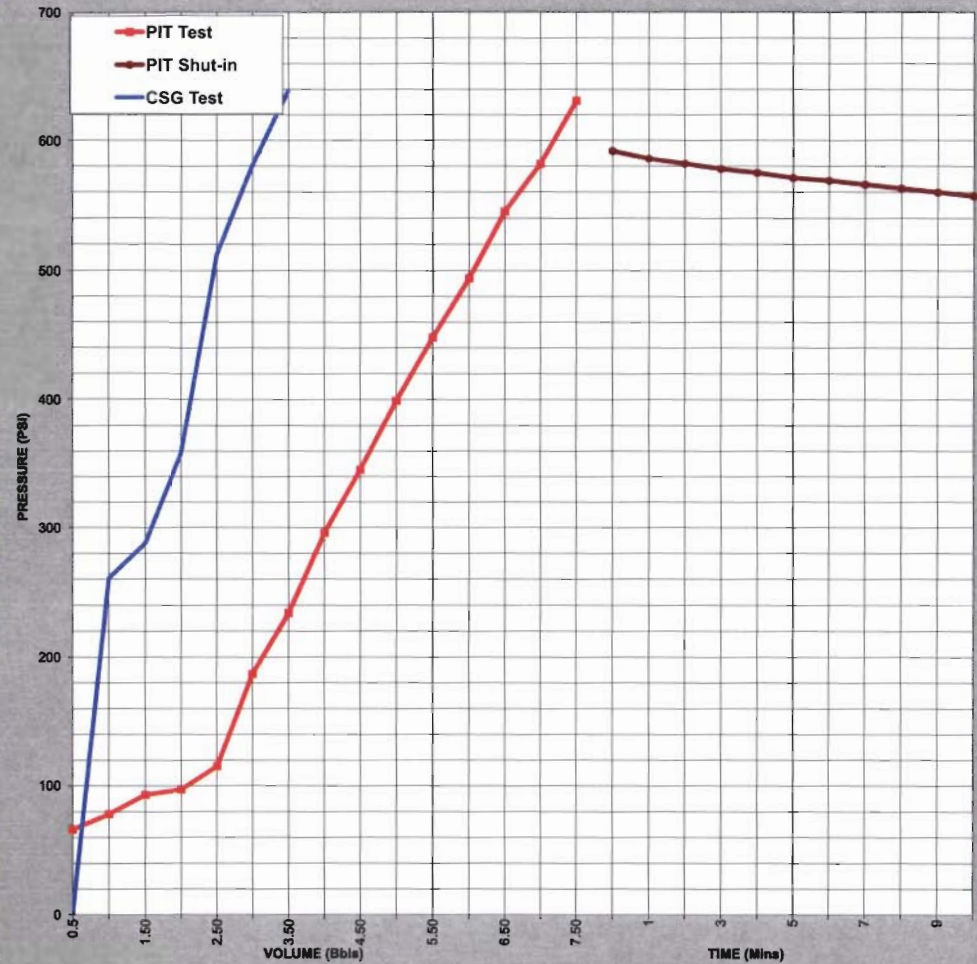
MUD FLOW BACK (bbl): 7.50

MMS Value → MEASURED PIT (EMW) = 12.55 ppg 12.76 ppg

MEASURED LOT (EMW) = 12.48 ppg 12.69 ppg

(PIT: RECORDED VOLUME PUMPED EVERY 0.25 BBL or 0.5 BBL PUMPED)

CASING TEST			FORMATION PRESSURE INTEGRITY TEST		
TIME (min)	VOL (bbl)	PRESSURE	TIME (min)	VOL (bbl)	PRESSURE
0.0	0.00	0	1	0.50	66
1.0	0.50	176	2.0	1.00	78
2.0	1.00	261	3.0	1.50	93
3.0	1.50	288	4.0	2.00	97
4.0	2.00	358	5.0	2.50	115
5.0	2.50	512	6.0	3.00	187
6.0	3.00	581	7.0	3.50	234
7.0	3.50	639	8.0	4.00	296
8.0	4.00	713	9.0	4.50	345
9.0	4.50	834	10.0	5.00	399
10.0	5.00	959	11.0	5.50	448
11.0	5.50	1052	12.0	6.00	494
12.0	6.00	1106	13.0	6.50	545
13.0	6.50	1228	14.0	7.00	582
14.0	7.00	1274	15.0	7.50	631
15.0	7.50	1323	0.0	ISIP	592
16.0	8.00	1436	1.0		586
17.0	8.50	1549	2.0		582
18.0	9.00	1636	3.0		578
19.0	9.50	1711	4.0		575
20.0	10.00	1782	5.0		571
21.0	10.50	1879	6.0		569
22.0	11.00	2039	7.0		566
23.0	11.50	2091	8.0		563
24.0	12.00	2145	9.0		560
25.0	12.50	2262	10.0		557
26.0	13.00	2316			
27.0	13.50	2400			
28.0	14.00	2524			
29.0	14.50	2612			
30.0	15.00	2728			
31.0	15.50	2838			
32.0	16.00	2882			
33.0	16.50	3033			
34.0	17.00	3129			
35.0	17.50	3218			
36.0	18.00	3262			
37.0	18.50	3357			
38.0	19.00	3442			
39.0	19.50	3591			
40.0	20.00	3667			
41.0	ISIP	3640			
1.00		3618			
2.00		3614			
3.00		3614			
4.00		3613			
5.00		3611			
6.00		3609			
7.00		3608			
8.00		3608			
9.00		3606			
10.00		3605			
15.00		3601			
20.00		3599			
25.00		3597			
30.00		3594			



BP EXPLORATION AND PRODUCTION

FORMATION PRESSURE INTEGRITY TEST (PIT) REPORTING SPREADSHEET

WELL NAME	OCS-G 32306 #1			RIG	Deepwater Horizon	SUPERVISOR	R. Sepulvado	TEST TYPE	
FIELD	Mississippi Canyon 252 (Macondo)			DATE	21-Mar-10			<input type="radio"/> FIT	<input checked="" type="radio"/> LOT
ELEVATION KB	75 ft	HOLE TD (MD)	13,150 ft	CSG SIZE OD	13 5/8	CSG SHOE (MD)	13,145 ft	INCLINATION	
WATER DEPTH	4,992 ft	HOLE TD (TVD)	13,140 ft	TYPE	Casing	CSG SHOE (TVD)	13,135 ft	AT SHOE	

MUD WEIGHT	SURFACE	DH ESD	TEST	
	12.5 ppg	12.72 ppg	RATE (bpm)	0.50

PRE-TEST CALCULATIONS/RECORDINGS (Surface) (Downhole)

PROJECTED FIT/LOT: 13.8 ppg
Expected pressure for "Projected FIT/LOT", (psi): 887

POST-TEST RESULTS

MAXIMUM OBSERVED PRESS (psi): 1480

INITIAL SHUT-IN (ISIP) OR LOT PRESS (psi): 1416

MUD PUMPED (bbl): 9.50

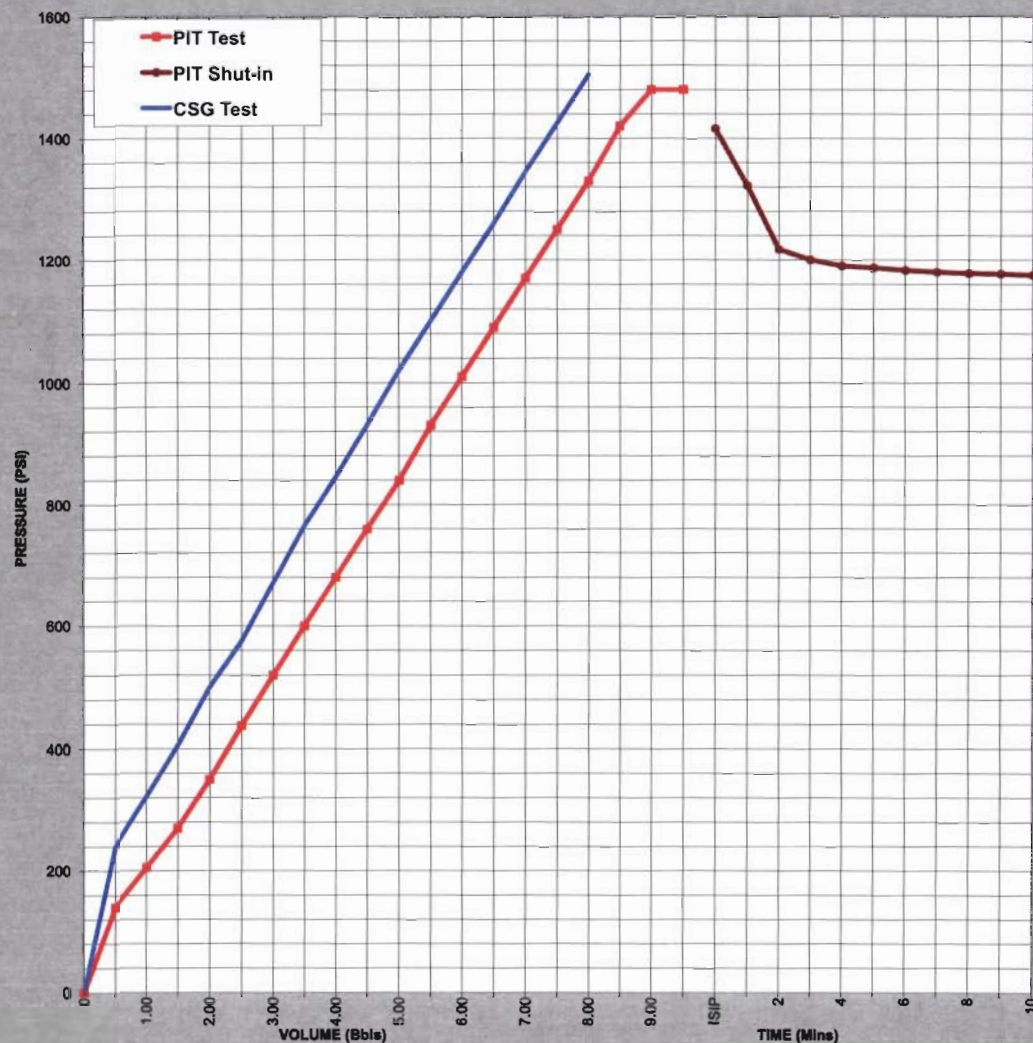
MUD FLOW BACK (bbl): 9.25

MMS Value --> MEASURED PIT (EMW) = 14.67 ppg 14.89 ppg

MEASURED LOT (EMW) = 14.58 ppg 14.8 ppg

(PIT: RECORDED VOLUME PUMPED EVERY 0.25 BBL or 0.5 BBL PUMPED)

CASING TEST			FORMATION PRESSURE INTEGRITY TEST		
TIME (min)	VOL (bbl)	PRESSURE	TIME (min)	VOL (bbl)	PRESSURE
0	0.00	0.0	0	0.00	0
1.0	0.50	240.0	1.0	0.50	140
2.0	1.00	322.0	2.0	1.00	205
3.0	1.50	405.0	3.0	1.50	270
4.0	2.00	500.0	4.0	2.00	350
5.0	2.50	575.0	5.0	2.50	438
6.0	3.00	670.0	6.0	3.00	520
7.0	3.50	765.0	7.0	3.50	600
8.0	4.00	845.0	8.0	4.00	680
9.0	4.50	930.0	9.0	4.50	760
10.0	5.00	1020.0	10.0	5.00	840
11.0	5.50	1100.0	11.0	5.50	930
12.0	6.00	1180.0	12.0	6.00	1010
13.0	6.50	1260.0	13.0	6.50	1090
14.0	7.00	1345.0	14.0	7.00	1170
15.0	7.50	1425.0	15.0	7.50	1250
16.0	8.00	1505.0	16.0	8.00	1330
17.0	8.50	1590.0	17.0	8.50	1420
18.0	9.00	1670.0	18.0	9.00	1480
19.0	9.50	1750.0	19.0	9.50	1480
20.0	10.00	1830.0	20.0	ISIP	1416
21.0	10.50	1900.0	21.0	1.00	1322
22.0	11.00	1980.0	22.0	2.00	1217
23.0	11.50	2060.0	23.0	3.00	1200
24.0	12.00	2140.0	24.0	4.00	1190
25.0	12.50	2220.0	25.0	5.00	1187
26.0	13.00	2310.0	26.0	6.00	1183
27.0	13.50	2400.0	27.0	7.00	1180
28.0	14.00	2490.0	28.0	8.00	1178
29.0	ISIP	2415.0	29.0	9.00	1177
30.0		2399.0	30.0	10.00	1175
31.0		2385.0			
32.0		2379.0			
33.0		2378.0			
34.0		2378.0			
		2377.0			
		2374.0			
		2377.0			
		2375.0			
		2379.0			
		2377.0			
		2374.0			
		2370.0			



WELL NAME	OCS-G 32306 #1	RIG	Deepwater Horizon	SUPERVISOR	M. Sepulvado	TEST TYPE			
FIELD	MC 252 #1	DATE	15-Feb-10			<input type="radio"/> FIT <input type="radio"/> LOT			
ELEVATION KB	75 ft	HOLE TD (MD)	9,096 ft	CSG SIZE OD	18	CSG SHOE (MD)	8,969 ft	INCLINATION	00.0 deg
WATER DEPTH	4,992 ft	HOLE TD (TVD)	9,096 ft	TYPE	Liner	CSG SHOE (TVD)	8,969 ft	AT SHOE	

MUD WEIGHT	SURFACE	DH ESD	TEST	
	10.6 ppg	10.7 ppg	RATE (bpm)	0.50

PRE-TEST CALCULATIONS/RECORDINGS		(Surface)	(Downhole)
PROJECTED FIT/LOT:		12. ppg	
Expected pressure for "Projected FIT/LOT", (psi):		652	
POST-TEST RESULTS			
MAXIMUM OBSERVED PRESS (psi):		550	
INITIAL SHUT-IN (ISIP) OR LOT PRESS (psi):		501	
MUD PUMPED (bbl):		4.25	
MUD FLOW BACK (bbl):		3.50	
MMS Value --> MEASURED PIT (EMW) =		11.78 ppg	11.88 ppg
MEASURED LOT (EMW) =		11.68 ppg	11.78 ppg

(PIT: RECORDED VOLUME PUMPED EVERY 0.25 BBL or 0.5 BBL PUMPED)

CASING TEST			FORMATION PRESSURE INTEGRITY TEST		
TIME (min)	VOL (bbl)	PRESSURE	TIME (min)	VOL (bbl)	PRESSURE
0	0.00	0.0		0.00	0
0.5	0.50	212.0		0.50	124
1.0	1.00	234.0		1.00	200
1.5	1.50	376.0		1.50	271
2.0	2.00	517.0		2.00	346
2.5	2.50	574.0		2.50	405
3.0	3.00	703.0		3.00	474
3.5	3.50	824.0		3.50	524
4.0	4.00	916.0		4.00	550
4.5	4.50	1008.0	0.0		501
5.0	5.00	1102.0	1.0		470
5.5	5.50	1186.0	2.0		464
6.0	6.00	1279.0	3.0		460
6.5	6.50	1378.0	4.0		457
7.0	7.00	1466.0	5.0		453
7.5	7.50	1561.0	6.0		448
8.0	8.00	1665.0	7.0		444
8.5	8.50	1755.0	8.0		441
9.0	9.00	1859.0	9.0		440
9.5	9.50	1931.0	10.0		439
10.0	10.00	2025.0			
10.5	10.50	2155.0			
11.0	11.00	2258.0			
11.5	11.50	2358.0			
12.0	12.00	2456.0			
12.5	12.50	2560.0			
13.0	13.00	2657.0			
13.5	13.50	2756.0			
14.0	14.00	2858.0			
14.5	14.50	2950.0			
15.0	15.00	3050.0			
0.0		3008.0			
1.0		2987.0			
2.0		2984.0			
3.0		2978.0			
4.0		2974.0			
5.0		2972.0			
6.0		2971.0			
7.0		2969.0			
8.0		2967.0			
9.0		2967.0			
10.0		2965.0			
15.0		2962.0			
20.0		2958.0			
25.0		2954.0			
30.0		2950.0			

