

CEMENT JOB REPORT



CUSTOMER MARATHON OIL (HOUSTON)		DATE 12-JUL-09		F.R. # 1001468987		SERV. SUPV. DELBERT S GALLEGOS	
LEASE & WELL NAME 596-20C-21		LOCATION		COUNTY-PARISH-BLOCK Garfield Colorado			
DISTRICT Grand Junction		DRILLING CONTRACTOR RIG # H&P 324		TYPE OF JOB Surface			

SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE	PHYSICAL SLURRY PROPERTIES						
SIZE	TYPE		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT ³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
Cement Plug, Rubber, Top 9-5/8 in		Float Shoe 9-5/8 - 8rd							
MATERIALS FURNISHED BY BJ									
35.65 Type III w/ Additives			1,043	12.3	2.09	11.62	03:55	387.33	288.51
Type III with Additives			150	14.2	1.47	7.35	01:51	39.32	26.24
Water				8.34				170	
Fresh Water				8.34				20	
Available Mix Water <u>2000</u> Bbl. Available Displ. Fluid <u>2000</u> Bbl.								TOTAL	616.65 314.75

HOLE			TBG-CSG-D.P.				COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	GRADE	SHOE	FLOAT	STAGE
14.75		2260	9.625	36	CSG	2246		2246	2199	

LAST CASING				PKR-CMT RET-BR PL-LINER		PERF. DEPTH		TOP CONN		WELL FLUID	
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
20	52.73		120			0	0	9.625	8RND	WATER BASED MU	8.8

DISPL. VOLUME		DISPL. FLUID		CAL. PSI		CAL. MAX PSI		OP. MAX		MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator				
170	BBLs	Water	8.34	1200	0	0	0	0	0	3520	2816	frac tanks		

Circulation Prior to Job

Circulated Well: Rig ☒ BJ ☐ Circulation Time: 1 Circulation Rate: 4 BPM
Mud Density In: 8.8 LBS/GAL Mud Density Out: 8.8 LBS/GAL PV & YP Mud In: 20 PV & YP Mud Out: 20
Gas Present: NO ☒ YES ☐ Units: Solids Present at End of Circulation: NO ☒ YES ☐

Displacement And Mud Removal

Displaced By: Rig ☐ BJ ☒ Amount Bled Back After Job: 1.5 BBLs
Returns During Job: ☐ NONE ☐ PARTIAL ☐ FULL Method Used to Verify Returns: Visual
Cement Returns at Surface: ☐ YES ☒ NO Were Returns Planned at Surface: ☒ NO ☐ YES
Pipe Movement: ☐ ROTATION ☐ RECIPROCATION ☐ NONE ☐ UNABLE DUE TO STUCK PIPE
Centralizers: ☒ NO ☐ YES Quantity: Type: ☐ BOW ☐ RIGID
Job Pumped Through: ☐ CHOKE MANIFOLD ☐ SQUEEZE MANIFOLD ☒ MANIFOLD ☐ NO MANIFOLD

Plugs

Number of Attempts by BJ: Competition: Wiper Balls Used: ☒ NO ☐ YES Quantity:
Plug Catcher Used: ☒ NO ☐ YES Parabow Used: ☒ NO ☐ YES
Was There a Bottom: ☒ NO ☐ YES Top of Plug: FT Bottom of Plug: FT

Squeezes (Update Original Treatment Report for Primary Job)

BLOCK SQUEEZE ☐ SHOE SQUEEZE ☐ TOP OF LINER SQUEEZE ☐ PLANNED ☐ UNPLANNED ☐
Liner Packer: ☒ NO ☐ YES Bond Log: ☒ NO ☐ YES PSI Applied: Fluid Weight: LBS/GAL

Casing Test (Update Original Treatment Report for Primary Job)

Casing Test Pressure: PSI With LBS/GAL Mud Time Held: Hours Minutes

Shoe Test (Update Original Treatment Report for Primary Job)

Depth Drilled out of Shoe: FT Target EMW: LBS/GAL Actual EMW: LBS/GAL
Number of Times Tests Conducted: Mud Weight When Test was Conducted: LBS/GAL

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

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Problems Before Job (I.E. Running Casing, Circulating Well, ETC)

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	3500 PSI
						CIRCULATING WELL - RIG	<input checked="" type="checkbox"/> BJ <input type="checkbox"/>
21:30						Leave yard for location	
00:30						Arrive to H&P 324	
00:45						pre-rig up meeting	
01:00						spot trucks and rig up iron and lines	
02:45						Pre-job safety meeting	
02:55	3500	0	.5	2	FRESH WA	pressure test lines to 3500psi	
03:00	140	0	5	20	FRESH WA	Pump 20bbls fresh water spacer	
03:05	0	0	0	0	CEMENT	Batch up lead cement to 12.3ppg	
03:10	135	0	5	5	CEMENT	start pumping lead cement @ 12.3ppg	
03:18	336	0	5	50	CEMENT	rate pressure	
03:30	240	0	4.5	100	CEMENT	rate pressure	
03:43	230	0	4.5	150	CEMENT	rate pressure	
03:52	319	0	5	200	CEMENT	rate pressure	
04:04	300	0	5	250	CEMENT	rate pressure	
04:13	250	0	5	300	CEMENT	rate pressure	
04:26	290	0	5	350	CEMENT	rate pressure	
04:31	290	0	5	388	CEMENT	rate pressure	
04:34	200	0	2.1	5	CEMENT	Start tail slurry	
04:42	90	0	2.7	10	CEMENT	rate pressure	
04:45	90	0	2.7	20	CEMENT	rate pressure	
04:55	90	0	2.7	39	CEMENT	rate pressure	
04:56	0	0	0	0		shut down to wash lines and drop plug	
05:12	0	0	5	5	DISPLACE	start displacement	
05:15	0	0	4	10	DISPLACE	rate pressure	
05:18	0	0	4	20	DISPLACE	rate pressure	
05:21	0	0	4	30	DISPLACE	rate pressure	
05:23	0	0	4	40	DISPLACE	rate pressure	
05:26	0	0	4	50	DISPLACE	rate pressure	
05:29	0	0	4	60	DISPLACE	rate pressure	
05:31	0	0	4	70	DISPLACE	rate pressure	
05:34	0	0	4	80	DISPLACE	rate pressure	
05:37	0	0	4	90	DISPLACE	rate pressure	
05:40	0	0	4	100	DISPLACE	rate pressure	
05:43	0	0	4	110	DISPLACE	rate pressure	
05:46	0	0	4	120	DISPLACE	rate pressure	
05:48	0	0	4	130	DISPLACE	rate pressure	
05:50	0	0	4	140	DISPLACE	rate pressure	
05:53	0	0	4	150	DISPLACE	rate pressure	
05:56	0	0	4	160	DISPLACE	rate pressure	
05:59	800	0	4	171	DISPLACE	bump plug to 800psi hold for 5minutes	
06:04	0	0	0	0		float did not hold repressure hold for another 5 inutes	
06:05	1000	0	.5	1.5		hold pressure for 5 more minutes	

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PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	3500 PSI
06:10	0	0				CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
						bled off pressure float held	
						No Returns throughout Jo	
06:15	167	0	1.66	20	WATER	Pump 20bbls sugar water down parasite line	
						Wait 4 hours to top out well.	
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	Service Supervisor Signature:
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	1000	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	1.5	617	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

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CUSTOMER MARATHON OIL (HOUSTON)		DATE 23-JUL-09		F.R. # 1001472423		SERV. SUPV. DELBERT S GALLEGOS	
LEASE & WELL NAME 596-20C #21 - API 05045177070000		LOCATION 20-5S-96W		COUNTY-PARISH-BLOCK Garfield Colorado			
DISTRICT Grand Junction		DRILLING CONTRACTOR RIG # H&P 324		TYPE OF JOB Long String			

SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE	PHYSICAL SLURRY PROPERTIES						
			SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT ³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
Cement Plug, Rubber, Top 4-1/2 in	Float Shoe 4-1/2 - 8rd								
MATERIALS FURNISHED BY BJ									
Surfactant wash				8.34				20	
Mud Clean I				8.34				30	
surfactant wash				8.34				20	
typell+ .05lbsSF+.4%R-3+.25lbsCF+.5%CD-32+3lbsKS			904	12.5	2.5	13.08	05:41	402	281.18
.7%FL-52+.2%SMS+20%SF+.3%BA-59			0	12.5	2.5	13.08		0	0
claytreat water				8.34				168	
Available Mix Water <u>2000</u> Bbl. Available Displ. Fluid <u>2000</u> Bbl.								TOTAL	640 281.18

HOLE			TBG-CSG-D.P.				COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	GRADE	SHOE	FLOAT	STAGE
8.75		10373	4.5	11.6	CSG	10326		10326	10260	

LAST CASING				PKR-CMT RET-BR PL-LINER		PERF. DEPTH		TOP CONN		WELL FLUID	
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
9.625	36		2250			0	0	4.5	1502	WATER BASED MU	8.8

DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	
160	BBLs	claytreat water	8.34	1500	0	0	0	0	5350	4280	frac tank

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	1500 PSI
						CIRCULATING WELL - RIG <input type="checkbox"/> BJ <input type="checkbox"/>	
03:00						leave yard to location	
05:15						arrive to location	
05:30						pre-rig up meeting	
05:45						start rigging up iron for job	
08:30						pre-job safety meeting while rig circulates	
09:00						rig up iron to casing	
09:10	3600	0	.5	2	FRESH WA	pressure test lines to 3500psi	
09:15	188	0	4.8	20	SURFACTA	pump 20bbbls surfactant wash	
09:20	189	0	4.8	30	MUDCLEA	pump 30bbbls Mud-Clean Spacer	
09:25	177	0	4.7	20	SURFACTA	pump 20bbbls surfactant wash	
09:30	0	0	0	0	CEMENT	batch up cement to 12.5ppg	
09:32	332	0	4.8	5	CEMENT	start pumping cement downhole.	
09:45	430	0	4.8	50	CEMENT	rate pressure	
09:54	438	0	4.8	100	CEMENT	rate pressure	
10:05	477	0	4.8	150	CEMENT	rate and pressure	
10:15	270	0	3.7	200	CEMENT	rate and pressure	
10:25	450	0	4.8	250	CEMENT	rate and pressure	
10:35	511	0	4.8	300	CEMENT	rate and pressure	
10:45	500	0	4.8	350	CEMENT	rate and pressure	
10:55	500	0	4.8	390	CEMENT	rate and pressure	
10:56	0	0	0	0		wash lines to pit drop top plug	

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PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	1500 PSI
						CIRCULATING WELL - RIG <input type="checkbox"/> BJ <input type="checkbox"/>	
11:04	190	0	4	0	DISPLACE	start displacement 160bbls claytreat water	
11:15	400	0	4.5	50	DISPLACE	rate and pressure	
11:25	500	0	4.5	100	DISPLACE	rate and pressure	
11:35	600	0	4.5	150	DISPLACE	rate and pressure	
11:40	1475	0	0	161	DISPLACE	bumped plug to 1475 psi.	
11:40						final circulating pressure 883psi hold for 5 minutes	
11:45						bled off pressure float held	
11:45						kept returns throughout job NO cement to surface	

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	0	740	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CEMENT JOB REPORT



CUSTOMER Marathon Oil Company		DATE 13-JUL-09		F.R. # 527010115		SERV. SUPV. DELBERT S GALLEGOS					
LEASE & WELL NAME 596-20C-21		LOCATION		COUNTY-PARISH-BLOCK Garfield Colorado							
DISTRICT Grand Junction		DRILLING CONTRACTOR RIG # H&P 324		TYPE OF JOB Misc Pump - Misc							
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		PHYSICAL SLURRY PROPERTIES							
None				SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER	
MATERIALS FURNISHED BY BJ											
Type III+10% A-10+2% CACL+.04lbs static free				833	14	1.69	8.03	00:50	250.7	159.25	
Available Mix Water 2000 Bbl.		Available Displ. Fluid 2000 Bbl.		TOTAL				250.7	159.25		
HOLE		TBG-CSG-D.P.				COLLAR DEPTHS					
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	GRADE	SHOE	FLOAT	STAGE	
14.75		2246	9.625	36	CSG	2246					
LAST CASING		PKR-CMT RET-BR PL-LINER		PERF. DEPTH		TOP CONN		WELL FLUID			
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
						0	0	2	1502	WATER BASED MU	8.8
DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI	MAX CSG PSI		MIX WATER	
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	
5	BBLs			0	0	0	0	0	5320	2816	
				FRAC TANK							

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	500 PSI
						CIRCULATING WELL - RIG <input type="checkbox"/> BJ <input type="checkbox"/>	
06:00						Wait 4 hours to perform first top out	
01:00						Rig welding on casing for gravel auger	
13:00	0	0	1	15	CEMENT	Top Out 1 pump 50sks while waiting for auger	
15:00	0	0	1	60	CEMENT	Top Out 2 200sks +3yards of gravel	
18:00	0	0	1	60	CEMENT	Top Out 3 200sks + 6yards of gravel	
21:00	0	0	1	60	CEMENT	Top Out 4 200sks + 7yards of gravel	
01:00	0	0	1	55	CEMENT	Top Out 5 182sks + 1yard gravel	
02:00						cement to surface shut down	
02:01						wait 2 hours on cement to see if it drops	
05:30						cement stayed at surface we are topped out.	
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		250	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	