

CEMENT JOB REPORT



CUSTOMER FIRST LIBERTY ENERGY INC		DATE 24-MAR-13		F.R. # 1001974666		SERV. SUPV. Bryan L Culler	
LEASE & WELL NAME BASIN #1 - API 05105080190000		LOCATION 9-40N-5E		COUNTY-PARISH-BLOCK Rio Grande Colorado			
DISTRICT Farmington		DRILLING CONTRACTOR RIG # D&J		TYPE OF JOB Long String			

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
4-1/2" Top Cem Plug, Nitrile cvr, Phe	Float Shoe 4-1/2 - 8rd						
	Float Collar, Auto Fill, 4-1/2 - 8rd						

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES						
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
Fresh Water			8.34				10	
Chemical Wash			8.45				10	
Fresh Water			8.34				5	
Fresh Water			8.34				108.33	
PREMIUM LITE H.S. FM		243	12.5	1.99	9.86		85.94	57.02
Available Mix Water 500 Bbl.		Available Displ. Fluid 500 Bbl.		TOTAL		219.28		57.02

HOLE			TBG-CSG-O.P.					COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
6.125		7828	4	4.5	11.6	CSG	7000	7000		7016	6972	

LAST CASING				PKR-CMT RET-BR PL-LINER		PERF. DEPTH		TOP CONN		WELL FLUID			
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
6.4	7	23	CSG	4797	4797					4.5	8RD	WATER BASED ML	8.7

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	MIX WATER
108.3	BBLs	Fresh Water	8.34	1039	0	0	0	0	5350	4960	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 type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES 4231 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
13:00						ARRIVED ON LOCATION	
14:30						SAFETY MEETING	
15:07	4230				H2O	ST PRESSURE TEST	
15:09	560		4	0	H2O	ST 10 BBLs H2O	
15:11	532		4	10	H2O	ST 10 BBLs GELL	
15:14	530		4	10	GELL	ST 5 BBLs H2O	
15:15	700		4	5	H2O	ST 86 BBLs CMT@12.5	
15:35	0		0	86	CMT	SHUT DOWN DROP PLUG	
15:36	90		5	0	H2O	ST 108.3 BBLs DISPLACEMENT	
16:00	1391		0	108.3	H2O	BUMPED PLUG	
16:03	2051		0	0	H2O	CHECK FLOAT	

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	2051	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	219	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

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CUSTOMER		CUSTOMER (NOT FOR BILLIN)		DATE	09-MAR-13	F.R. #	1001970928	SERV. SUPV.		Donald D Wargo				
LEASE & WELL NAME				LOCATION		COUNTY-PARISH-BLOCK		TYPE OF JOB						
BASIN #1 - API 05105060190000				9-40N-5E		Rio Grande Colorado		Intermediate						
DISTRICT				DRILLING CONTRACTOR RIG #										
Farmington				D&J #1										
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS		MD	TVD	HANGER TYPES		MD TVD				
Cement Plug, Rubber, Top 7 in		Centralizer, with Pins, 7 in												
		Float Collar, Al Flap, 7 - 8rd												
		Float Shoe 7 - 8rd												
		Stage Cementing Tool 7 - 8rd												
MATERIALS FURNISHED BY BJ				LAB REPORT NO.		PHYSICAL SLURRY PROPERTIES								
						SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER		
Fresh Water							8.34				10			
Mud Clean II							8.45				10			
Fresh Water							8.34				10			
PREMIUM LITE FM						230	12.1	2.13	11.29		87.25	61.71		
Type III & Adds Tail						81	14.6	1.38	6.64		19.9	12.80		
Fresh Water							8.34				0			
Drilling Mud							9				188.5			
Fresh Water							8.34				10			
Mud Clean II							8.45				10			
Fresh Water							8.34				10			
PREMIUM LITE FM						170	12.1	2.13	11.29		64.49	45.61		
DRILLING MUD							9				79.4			
Available Mix Water				250 Bbl.		Available Displ. Fluid		250 Bbl.		TOTAL		499.54 120.12		
HOLE		TSG-CSG-D.P.		COLLAR DEPTHS										
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE		
8.75	71	4812	6.366	7	23	CSG	4800	4800	J-55	4800	4797	2016		
LAST CASING		PKR-CMT RET-BR PL-LINER		PERF. DEPTH		TOP CONN		WELL FLUID						
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.	
8.9	9.625	36	CSG	1223	1223			0	0	7	8RD	WATER BASED MU	9	
DISPL. VOLUME		DISPL. FLUID		GAL. PSI		CAL. MAX PSI		OP. MAX		MAX TSG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator				
188.5	BBLs	Fresh Water	8.34	703	0	0	0	0	4380	2500	RIG TANK			
		Drilling Mud	9											
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NONE														
PRESSURE/RATE DETAIL						EXPLANATION								
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE									
	PIPE	ANNULUS												
13:40	0	0	0	0	NA	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>								
15:15	0	0	0	0	NA	TEST LINES 3500 PSI								
15:40	0	0	3	5	H2O	CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>								
15:43	0	0	0	0	H2O	ARRIVE ON LOCATION 3-8-13								
15:47	185	0	5	10	H2O	SAFETY MEETING								
15:49	190	0	5	10	GEL	5 BBL. TO PIT H2O								
15:51	175	0	5	10	DYE	PRESSURE TEST								
15:53	230	0	5	87	LEAD	10 BBL. FRESH WATER SPACER								
16:11	100	0	4	20	TAIL	10 BBL. GEL SPACER								
						10 BBL. DYE SPACER								
						87 BBL. LEAD @12.1 PPG								
						20 BBL. TAIL @14.6 PPG								

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PRESSURE/RATE DETAIL

EXPLANATION

TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION	
	PIPE	ANNULUS				SAFETY MEETING: BJ CREW	CO. REP.
						TEST LINES	3500 PSI
						CIRCULATING WELL - RIG	BJ
16:16	0	0	0	0	TAIL	SHUT DOWN DROP PLUG	
16:24	770	0	6	188.4	MUD	DISPLACE 188.4 BBL. MUD @9.0 PPG	
17:00	1560	0	0	0	MUD	SHUT DOWN BUMP PLUG	
17:05	0	0	0	0	MUD	DROP DART	
17:20	790	0	2	5	MUD	OPEN DV TOOL	
17:21	170	0	6	60	MUD	CIRCULATE CEMENT TO SURFACE 15 BBL. BACK	
17:35	0	0	0	0	MUD	SHUT DOWN SWAP TO RIG	
22:30	0	0	0	0	NA	SAFETY MEETING	
22:52	250	0	5	10	H2O	10 BBL. H2O SPACER	
22:55	230	0	5	10	MUD CLEAN	10 BBL. MUD CLEAN SPACER	
22:57	240	0	5	10	H2O	10 BBL. H2O SPACER WITH DYE	
23:00	270	0	5	64	LEAD	64 BBL. LEAD @12.1 PPG	
23:12	0	0	0	0	LEAD	SHUT DOWN DROP PLUG	
23:14	400	0	6	72	MUD	DISPLACE 79 BBL. MUD	
23:29	370	0	3.5	7	MUD	LOST CIRCULATION JUST AS CEMENT WAS COMING TO SURFACE	
23:31	2200	0	0	0	MUD	SHUT DOWN BUMP PLUG	
23:36	0	0	0	0	MUD	CHECK FLOAT .5 BBL. BACK	
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	1560	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	15	499.54	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>David L. [Signature]</i>