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CEMENT JOB REPORT



CUSTOMER LRE OPERATING LLC		DATE 11-JUL-12	F.R. # 840010034	SERV. SUPV. DAVID D BRAY	
LEASE & WELL NAME MARATHON '25' ST #34 - API 30015401240000		LOCATION SEC25D-T17S-R28E		COUNTY-PARISH-BLOCK Eddy New Mexico	
DISTRICT Artesia		DRILLING CONTRACTOR RIG # UNITED 22		TYPE OF JOB Surface	

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
8-5/8" Top Cem Plug, Nitrile cvr, Phe	Float Collar, AI Flap, 8-5/8 - 8rd						
	Float Shoe 8-5/8 - 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
H2O		0	8.34	0	0	00:00	10	
GW-27		0	8.43	0	0	00:00	24	
C+2%CACL2+1/8#CF	529452147	300	14.8	1.35	6.35	02:12	72	45.28
H2O		0	8.34	0	0	00:00	27	
Available Mix Water 450 Bbl.		Available Displ. Fluid 450 Bbl.		TOTAL		133		45.28

HOLE			TBG-CSG-D.P.							COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
12.25	0	478	8.097	8.625	24	CSG	461	461	J-55	461	418	0

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.
						NO PACKER	0			8.625	8RD	WATER BASED MU	9.3

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	
27	BBLS	H2O	8.34	140	0	0	0	0	2950	2360	RIG

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	SAFETY MEETING: BJ CREW ☒ CO. REP. ☒	
	PIPE	ANNULUS				TEST LINES 3000 PSI	
						CIRCULATING WELL - RIG ☒ BJ ☐	
09:30	0	0	0	0	0	YARD TIME (7-11-2012)	
11:15	0	0	0	0	0	LEAVE YARD	
11:45	0	0	0	0	0	ARRIVE ON LOC	
11:50	0	0	0	0	0	HAZARD ASSESSEMENT/ SPOT TRUCKS	
12:45	0	0	0	0	0	PRE RIG UP SAFETY MEETING/ RIG UP LOC	
13:15	0	0	0	0	0	WAIT ON RIG TILL 18:30	
18:45	0	0	0	0	0	PRE JOB SAFETY MEETING	
17:15	3100	0	.5	.5	H2O	TEST LINES	
17:18	50	0	5.5	10	H2O	FRESH WATER SPACER	
17:20	48	0	6	24	H2O	GW-27 SPACER	
17:24	173	0	6	72	CMT	CEMENT SLURRY @ 14.8	
17:38	0	0	0	0	CMT	SHUT DOWN/ DROP PLUG	
17:39	123	0	5	17	H2O	START DISPLACEMENT	
17:43	123	0	2.5	10	H2O	SLOW RATE	
17:47	199	0	0	0	H2O	BUMP PLUG	
17:53	0	0	0	0	H2O	CHECK FLOATS	
						CIRCULATED 175 SKS TO PIT	
						THANK YOU DAVID AND CREW	

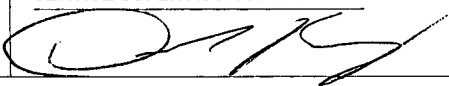
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TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW ☒ CO. REP. ☒	
	PIPE	ANNULUS				TEST LINES	3000 PSI
						CIRCULATING WELL - RIG ☒ BJ ☐	
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	
☒ Y ☐ N	901	☒ Y ☐ N	42	133	0	Y ☒ N ☐ 	
SERVICE SUPERVISOR SIGNATURE:							



PERMIAN REGION LAB Cement Lab Report

Phone: (432) 530-2667 Fax: (432) 530-0279

Test Number: 529452147

Test Date: 7/10/2012

Report Number:

WELL INFORMATION

Operator: LRE Operating LLC
API #:
Well Name: Marathon 25 State #34
Slurry Type: Lead
Blend Type: "LAB"
Comments:

County: Eddy
State: NM
Requested By: Darrell Jeter
TVD: 450 MD: 450
District: Artesia

TEST DATA AND SCHEDULE

Time To Temp (min):	4.33	Mud Density (lb/gal):	9
Initial Press (psi):	250	Mix Water Density (lb/gal):	8.34
Final Press (psi):	710	Mix Water Type:	Tap Water
BHST (deg F):	83	Surf Temp (deg F):	80
BHCT (deg F):	80	Job Type:	Surface
Comments:			

SLURRY AND TEST RESULTS

Vendor: Cemex (LYONS) *0.125*

Slurry: Class 'C' + 2.00% CaCl₂ + 0.25 lb/sk Cello Flake

Density: 14.8 lb/gal

Yield: 1.346 CuFt/sk

Mix Water: 6.345 gal/sk (56.3%)

Total Mix Liquid: 6.345 gal/sk

Fluid Loss: cc/30 min

Pump Time (50 Bc):

Pump Time (70 Bc): 2:12

Pump Time (100 Bc):

Free Water (ml): (Tested at 90 ° Angle)

Compressive Strength

Temp	Time	Strength	Type
83	4:36	500	UCA
83	12	1252	UCA
83	24	1964	UCA
83	48	2713	UCA

Rheology (PL=Power Law, BP= Bingham Plastic)

Temp	600	300	200	100	6	3	n'	k'	Yp	Pv	Best
80	122	92	82	67	38	24	0.222	0.239	45.3	53.7	PL

Comments: Results from Test #50765 (5/8/12) Reported by: Gerald Benton Verified by: Dennis Jordan



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State: NM
Requested By: Darrell Jeter
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Slurry: Class 'C' + 2.00% CaCl₂

Density: 14.8 lb/gal	Pump Time (50 Bc):
Yield: 1.345 CuFt/sk	Pump Time (70 Bc): 2:12
Mix Water: 6.355 gal/sk (56.38%)	Pump Time (100 Bc):
Total Mix Liquid: 6.355 gal/sk	
Fluid Loss: cc/30 min	Free Water (ml): (Tested at 90 ° Angle)

Compressive Strength				Rheology (PL=Power Law, BP= Bingham Plastic)											
Temp	Time	Strength	Type	Temp	600	300	200	100	6	3	n'	k'	Yp	Pv	Best
83	4:36	500	UCA	80	122	92	82	67	38	24	0.222	0.239	45.3	53.7	PL
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BJ Services JobMaster Program Version 3.50

Job Number: 840010034

Customer: LRE

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