

OCD

CEMENT JOB REPORT



CUSTOMER LIME ROCK RESOURCES II	DATE 08-JUL-12	F.R. # 839110050	SERV. SUPV. MATTHEW R VALENZUELA
LEASE & WELL NAME MARATHON '26' STATE #33 - API 3001540307000	LOCATION 26A-17S-28E		COUNTY-PARISH-BLOCK Eddy New Mexico
DISTRICT Artesia	DRILLING CONTRACTOR RIG # UNITED 22	TYPE OF JOB Long String	

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
5-1/2" Top Cem Plug, Nitrile cvr, Phe	Float Collar, AI Flap, 5-1/2 - 8rd						
	Guide Shoe, Cement Nose, 5-1/2 in						

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
MUD CLEAN II		0	8.34	1	0	00:00	12	0
35/65/6C+5%SALT+.125#CF+5#LCM-1+.45#R-3	529452117	315	12.6	1.9	9.64	05:02	106	71.90
C+.25#CF+.5#R-3	529452118	400	14.8	1.33	6.3	03:57	94	59.53
FRESH WATER		0	8.34	1	0	00:00	94	0
Available Mix Water 500 Bbl.		Available Displ. Fluid 500 Bbl.		TOTAL			306	131.42

HOLE			TBG-CSG-D.P.							COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
7.875	0	4100	4.892	5.5	17	CSG	4090		J-55	4090	4042.7	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.
8.1	8.625	24	CSG	464	464	NO PACKER	0	0	0	5.5	8 RND	FRESH WATER	8.34

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	
94	BBLs	FRESH WATER	8.34	1246	0	0	0	0	5320	4256	RIG

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	5023 PSI
						CIRCULATING WELL - RIG	<input checked="" type="checkbox"/> BJ
20:30	0	0	0	0	0	YARD TIME 7/8/12	
22:40	0	0	0	0	0	LEAVE DISTRICT	
23:20	0	0	0	0	0	ARRIVE ON LOCATION	
23:30	0	0	0	0	0	TEST H2O- CHLORIDES BELOW 500	
23:40	0	0	0	0	0	SPOT TRUCKS ONTO LOCATION	
00:00	0	0	0	0	0	RIG UP MEETING 7/9/12	
02:08	0	0	0	0	0	PRE JOB MEETING	
02:15	0	0	0	0	0	RIG UP FLOOR	
02:30	5023	0	5	5	H2O	LINE TEST	
02:35	200	0	5.5	12	MUD CLEAN	MUD CLEAN SPACER AHEAD- WELL WAS CIRCULATING	
02:38	300	0	6.5	106	CMT	LEAD SLURRY @ 12.6#- WELL WAS CIRCULATING	
02:57	450	0	6.5	94	CMT	TAIL SLURRY @ 14.8#- WELL WAS CIRCULATING	
03:16	0	0	0	0	0	SHUT DOWN- WASH UP TO PIT-DROP PLUG	
03:24	2354	0	7	84	H2O	DISPLACEMENT-WELL WAS CIRCULATING	
03:37	1857	0	3	10	H2O	SLOW RATE- WELL WAS CIRCULATING	
03:41	2455	0	0	0	0	PLUG DOWN	
03:46	0	0	0	0	0	CHECK FLOAT- FLOAT HELD	
						CIRCULATED- 40 BBLs - 118 SACKS TO THE PIT	
04:00	0	0	0	0	0	RIG DOWN MEETING	

RECEIVED
SEP 12 2012
NMOCD ARTESIA

CEMENT JOB REPORT



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 5023 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
						THANK YOU MATTHEW AND CREW	
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	2455	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	40	306	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	



**PERMIAN REGION LAB
Cement Lab Report**

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

Test Number: 529452117
Report Number:

Test Date: 7/8/2012

WELL INFORMATION

Operator: Limerock
API #:
Well Name: Marathon 26 ST #33
Slurry Type: Lead
Blend Type: "LAB"
Comments:

County: Eddy
State: NM
Requested By: Richard Anez
TVD: 4070 **MD:** 4070
District: Artesia

TEST DATA AND SCHEDULE

Time To Temp (min): 14.46
Initial Press (psi): 350
Final Press (psi): 2250
BHST (deg F): 115
BHCT (deg F): 101

Mud Density (lb/gal): 9
Mix Water Density (lb/gal): 8.34
Mix Water Type: Tap Water
Surf Temp (deg F): 80
Job Type: Long String

Comments: R-3 was added to the field blend

SLURRY AND TEST RESULTS

Vendor: Cemex (LYONS)

Slurry: 35:65:6 Class 'C' + 0.45% R-3 + 5.00% Salt (4.021 lb/sk) + 5.00 lb/sk LCM-1 + 0.125 lb/sk Cello Flake

Density: 12.8 lb/gal
Yield: 1.902 CuFt/sk

Pump Time (50 Bc):
Pump Time (70 Bc): 5:02
Pump Time (100 Bc):

Mix Water: 9.642 gal/sk (92.43%)

Total Mix Liquid: 9.642 gal/sk

Fluid Loss: cc/30 min

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

Compressive Strength

Temp	Time	Strength	Type
108	12	500	UCA
108	24	818	UCA

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

Temp	600	300	200	100	6	3	n'	k'	Yp	Pv	Best
80	88	70	60	52	34	24	0.174	0.238	38.5	35.2	PL

Comments: Compressives test #48697 (1/20/2012) TTT Results from test #51937 (6/29/2012) Reported by: Bruce Wheeler
Verified by: Kristal Nelson



**PERMIAN REGION LAB
Cement Lab Report**

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

Test Number: 529452118
Report Number:

Test Date: 7/8/2012

WELL INFORMATION

Operator: Limerock
API #:
Well Name: Marathon 26 ST #33
Slurry Type: Tail
Blend Type: "LAB"
Comments:

County: Eddy
State: NM
Requested By: Richard Anez
TVD: 4070 **MD:** 4070
District: Artesia

TEST DATA AND SCHEDULE

Time To Temp (min): 14.46	Mud Density (lb/gal): 9
Initial Press (psi): 350	Mix Water Density (lb/gal): 8.34
Final Press (psi): 2250	Mix Water Type: Tap Water
BHST (deg F): 115	Surf Temp (deg F): 80
BHCT (deg F): 101	Job Type: Long String

Comments: R-3 was added to the field blend

SLURRY AND TEST RESULTS

Vendor: Cemex (LYONS)
Slurry: Class 'C' + 0.50% R-3 + 0.25 lb/sk Cello Flake

Density: 14.8 lb/gal	Pump Time (50 Bc):
Yield: 1.33 CuFt/sk	Pump Time (70 Bc): 3:57
Mix Water: 6.296 gal/sk (55.86%)	Pump Time (100 Bc):
Total Mix Liquid: 6.296 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
114	5:22	500	UCA	80	228	164	130	96	30	24	0.427	0.117	40.4	132.4	PL
114	12	1454	UCA												
114	24	2027	UCA												

Comments: Compressives From test #48416 (1/4/2012) TTT Results from Test #51938 (6/29/2012) Reported by: Bruce Wheeler
Verified by: Kristal Nelson

The above data is supplied solely for informational purposes, and Baker Hughes makes no guarantees or warranties, either expressed or implied, with respect to the accuracy or use of these data and interpretations. All products warranties and guarantee shall be governed by the standard contract terms at the time of the sale.

