OCD

CEMENT JOB REPORT



			5 (1	DATE 08-J	UL-12	F.R.# 83	391100	50		SEF	RV. SUPV.	MATTH	EW R VA	ENZU	JELA	
	LIME ROCK RESOURCES II					LOCATION						COUNTY-PARISH-BLOCK				
	N '26' STAT	E #33 - API 300	01540307000	26A-17S-2							Eddy New Mexico					
Artesia				UNITED 2		dr Rig #					E OF JOB ong String					
SIZE 8	TYPE OF F	PLUGS	LIST	CSG-HARDWA	RE	MECH	ANICA	L BARRIE	RS	MD	TVD	HANGER	TYPES	MD	TVD	
5-1/2" Top Ce	em Plug, N	itrile cvr, Phe	Float Collar,	Al Flap, 5-1/2												
···			Guide Shoe,	Cement Nos	1									1		
								Pł	HYSIC	AL SLU	IRRY PRO	PERTIES				
MATERIAL	S FURNISH	ED BY BJ	LAB	REPORT NO	SACK OF O. CEMEN		SLURRY WGT PPG	SLU YL F1		WATER GPS	PUMP TIME HR:MIN	Bbl SLURR		Bbi MIX VATER		
MUD CLEAN	N 11						0	8.34		1		0 00:00	<u> </u>	12	C	
35/65/6C+5°	%SALT+.12	25#CF+5#LCN	/-1+.45%R-3	52945	52117	3	315	12.6		1.9	9.6	4 05:02	1	06	71.90	
C+.25#CF+.	5%R-3			52945	52118		400	14.8		1.33	6	3 03:57		94	59.53	
FRESH WA	TER						0	8.34		1		0 00:00		94	(
Available Mix		500	Bbl	Available	Displ. Flui		500	Bb			то	TAL	3	06	131.42	
	HOLE				TBG-CS				<u>.</u>	<u> </u>				_	101.42	
SIZE	% EXCES		ID I	OD WGT.		YPE	MD	TVD	GRA		SHOE				AGE	
7.875	0	4100			17 CSG		4090	7	J-55			090	4042.7		(
L	AST CASIN	G		PKR-CMT RE	T-BR PL-LI	INER	PERF	F. DEPTH	1.	TOP	CONN		WELL FL	JID		
ID OD W		PE MC		BRAND & TY	PE	1	TOP	BTM			THREAD	TYPE			WGT.	
8.1 8.625	24 CSG	4	64 464 NO	PACKER		0	0		0	5.5	BRND	FRESH	WATER		8.34	
DISPL. VOI	LUME	DIS	PL. FLUID	CAL. PS	SI CAL.	MAX PSI O	P. MA)	X M/	AX TBO	PSI	1	MAX CSG	PSI		MIX	
VOLUME	UOM	TYPE	WG	r. BUMP PL	UG TO	REV. S	Q. PSI	RATE		perate		TED C	perator	W	ATER	
	10010						NG. F 01			perau	<u>, 1</u> , 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		P0			
94	BBLS	RESH WATE	R 8	.34 12	46	0		0	0	peration	0	5320	4256	RIG		
. 94	BBLS	RESH WATE	R 8	.34 12	46	0				peration				RIG		
94	BBLS	RESH WATE	R 8	.34 12	246	0								RIG		
		RESH WATE												RIG		
		E SETTING TO	OL, RUNNING	CSG, ETC. Pf							0	5320		RIG		
EXPLANATION	N: TROUBLI	E SETTING TO	OL, RUNNING	CSG, ETC. PF	RIOR TO CE	EMENTING:		0	0		O	5320		RIG		
	N: TROUBLI	E SETTING TO PRESSURE JURE - PSI	OL, RUNNING	CSG, ETC. Pf		EMENTING:		0 ETING: B.	0 J CREV	E V X	0	5320		RIG		
	N: TROUBLI	E SETTING TO	OL, RUNNING /RATE DETAIL RATE	CSG, ETC. PF		EMENTING: SAFET TEST I	TY MEE	0 ETING: B.	0 J CREV 5023 I	E V X	O	5320 ION . [X]	4256			
	N: TROUBLI PRESS PIPE	E SETTING TO PRESSURE JURE - PSI	OL, RUNNING /RATE DETAIL RATE	CSG, ETC. PF	FLUID TYPE	EMENTING: SAFET TEST I	TY MEE LINES LATING	O ETING: B. G WELL -	0 J CREV 5023 I	E V X PSI	0 XPLANAT CO. REP	5320 ION . [X]	4256		ED	
EXPLANATION TIME HR:MIN.	N: TROUBLI PRESS PIPE	E SETTING TO PRESSURE URE - PSI ANNULUS	OL, RUNNING VRATE DETAIL RATE BPM	CSG, ETC. PF Bbl. FLUID PUMPED	FLUID TYPE	EMENTING: SAFET TEST I CIRCU	TY MEE	0 ETING: B. G WELL - 7/8/12	0 J CREV 5023 I	E V X PSI	0 XPLANAT CO. REP	5320 ION . X	4256	ĪV		
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EXPLANATION TIME HR:MIN. 20:30 22:40 23:20 23:20 23:30 23:40 00:00 02:08 02:15 02:30 02:35 02:38	N: TROUBLI PRESS PIPE () () () () () () () () () () () () ()	E SETTING TO PRESSURE URE - PSI ANNULUS 0 0 0 0 0 0 0	OL, RUNNING /RATE DETAIL RATE BPM 0 0 0 0 0 0 0 0 0 0 0 0 0	CSG, ETC. PF Bbl. FLUID PUMPED 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FLUID TYPE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EMENTING: SAFET TEST I CIRCU YARD LEAVE ARRIV TEST I SPOT RIG UI PRE JU RIG UI PRE JU RIG UI EF MUD C LEAD	TY MEE LINES LATING TIME DIST E ON H2O- (TRUC P MEE OB ME P FLOO EST CLEAN SLURE	0 ETING: B. G WELL - 7/8/12 RICT LOCATIC CHLORIE CKS ONTO ETING 7/9 EETING OR I SPACEI RY @ 12	0 J CREV 5023 I 5023 I RIG ON DES B 0 LOC 0/12 R AHE 6#- W	ELOW AD- V ELL V	O EXPLANAT CO. REP BJ (500 N VELL WA VAS CIR		4256 ECE SEP 1 DCD /	IV 2 2()12	
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EXPLANATION TIME HR:MIN. 20:30 22:40 23:20 23:30 23:40 00:00 02:08 02:15 02:30 02:35 02:35 02:35 02:35 02:38 02:57 03:16 03:24 03:37	N: TROUBLI PRESS PIPE () () () () () () () () () () () () ()	E SETTING TO PRESSURE URE - PSI ANNULUS 0 00 0 00	OL, RUNNING /RATE DETAIL RATE BPM 0 0 0 0 0 0 0 0 0 0 0 0 0	CSG, ETC. PF Bbl. FLUID PUMPED 0 0 0 0 0 0 0 0 0 0 0 0 0	FLUID TYPE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EMENTING: SAFET TEST I CIRCU YARD LEAVE ARRIV TEST I SPOT RIG UI PRE JU RIG UI PRE JU RIG UI E4 MUD C LEAD TAIL S SHUT DISPL SLOW PLUG CHECI	TY MEE LINES LATING TIME DIST E ON H2O- (TRUC P MEE OB ME P FLOO EST DLEAN SLURE LURR LURR DOWI ACEM RATE DOWI K FLO	0 ETING: B. G WELL - 7/8/12 RICT LOCATIC CHLORIE CHLOR	0 J CREV 5023 I 5023 I RIG ON DES B O LOC 0/12 R AHE 6#- W 8#- WE H UP T LL W/ WAS 0 AT HE	ELOW AD-V ELL V CIRCL LD	0 XPLANAT CO. REP BJ / 500 N VELL WA VAS CIRC AS CIRC -DROP F RCULATI JLATING	5320	4256 ECE SEP 1 DCD /	IV 2 2()12	

Report Printed on: JUL-09-12 04:15:04

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CEMENT JOB REPORT



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÷ .		PRESSURE	RATE DETAIL	•			EXPLANATION					
TIME	PRESSURE - PSI		RATE	Bbl. FLUID	FLUID	SAFETY MEETING: BJ CREW X CO. REP. X						
HR:MIN.	PIPE	ANNULUS	BPM	PUMPED TYPE		TEST LINES	5023 PSI					
						CIRCULATING WELL - RIG X BJ						
						THANK YOU MATTHEW AND CREW						
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED		PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE					

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BAKER MUGHES	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 # Slurry Type: Lead Blend Type: "LAB" Comments:	County: Eddy State: NM#33Requested By: Richard Anez TVD: 4070District: 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 Comments: R-3 was addeed	Mud Density (lb/gal):9Mix Water Density (lb/gal):8.34Mix Water Type:Tap WaterSurf Temp (deg F):80Job Type:Long StringI to the field blend
Density: 12.8 lb/gal Yield: 1.902 CuFt/sk Mix Water: 9.642 gal/sk (92.4 Total Mix Liquid: 9.642 gal/sk	
Fluid Loss: cc/30 min	Free Water (ml): (Tested at 90 ° Angle)
Compressive StrengthTempTimeStrengthType10812500UCA10824818UCA	Rheology (PL=Power Law, BP= Bingam 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 Verified by: Kristal Nelson	(1/20/2012) TTT Results from test #51937 (6/29/2012) Reported by: Bruce Wheeler

PERMIAN REGION LAB

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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):14.46Initial Press (psi):350Final Press (psi):2250BHST (deg F):115BHCT (deg F):101Comments:R-3 was added to the field blend

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

SLURRY AND TEST RESULTS

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

•	14.8 lb/gal 1.33 CuFt/sk		Pump Time (50 Bc): Pump Time (70 Bc): 3:57							
Mix Water:	6.296 gal/sk	(55.86%)	Pump Time (100 Bc):							
Total Mix Liquid: Fluid Loss:	6.296 gal/sk cc/30 min		Free Water (ml):	(Tested at 90 ° Angle)						
Compressive Stre	ıgth	Rheology	(PL=Power Law, BP= Bit							

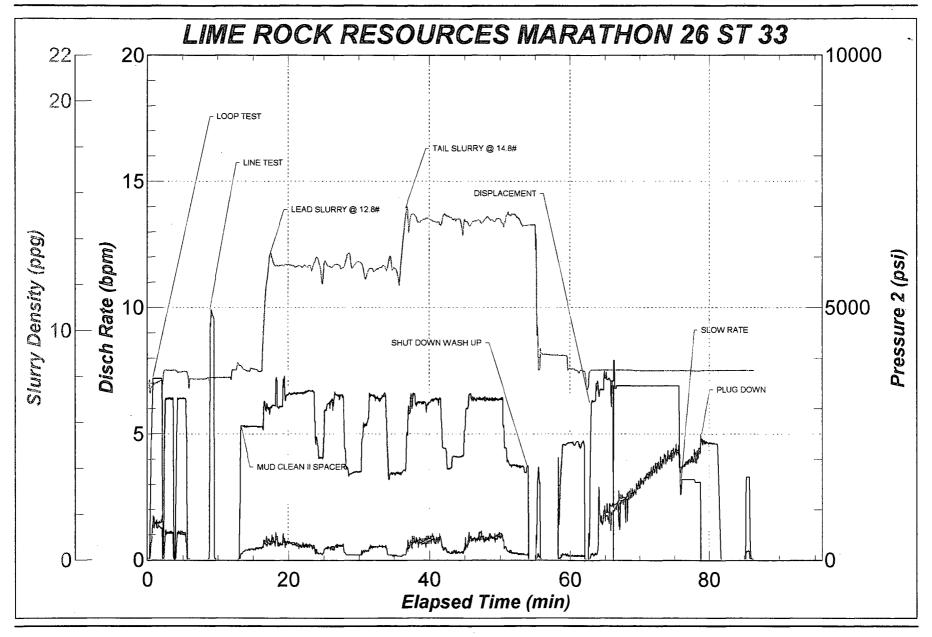
Compi	C3317C D	uengen		INICOIO	(IL IOwer Law, DI Dingain I laste)						lasticj				
Temp	Time	Strength	Туре	Temp	600	300	200	100	6	3	n'	k'	Yp	Pv	Best
114	5:22	500	UCA	80	228	164	130	96	30	24	0.427	0.117	40.4	132.4	PL
114	12	1454	UCA												
114	24	2027	UCA												

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.



BJ Services JobMaster Program Version 3.50 Job Number: 839110050 Customer: LIME ROCK RESOURCES Well Name: MARATHON 26 ST 33



BJ Services

Job Start: Monday, July 09, 2012