

**PIONEER**  
NATURAL RESOURCES

WELL NAME AND NO.		LOCATION (LEGAL)		RIG NAME		CEMENT PUMPER:	
San Pablo 11-4 WDW		NW/4 Sec 4, T11S R67W		Puma #31		23004	
FIELD	FURMATION	WELL DATA		BOTTOM		FT TOP	
Raton	RATON	BIT SIZE	8 1/4"	CSG/Liner Size	7"		
COUNTY	STATE	API NO.	TOTAL DEPTH	WEIGHT	210		
LAS ANIMAS	COLORADO	08-071 (09/16)	R/C/D TYPE	FOOTAGE	7181'		

RT1 PERMAN	Tom Beardslee	<input type="checkbox"/> BKT	THREAD	ST&C	
ELABANT SUPER	Frank L. Gonzales	SHOE JOINTS:	60		TOTAL
		SHOE VISC	279.93		279.93

		Include Footage From Ground Level To Head In Dip Capacity			
Mike Neville		3 2 1 0 -1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -11 -12 -13 -14 -15 -16 -17 -18 -19 -20 -21 -22 -23 -24 -25 -26 -27 -28 -29 -30 -31 -32 -33 -34 -35 -36 -37 -38 -39 -40 -41 -42 -43 -44 -45 -46 -47 -48 -49 -50 -51 -52 -53 -54 -55 -56 -57 -58 -59 -60 -61 -62 -63 -64 -65 -66 -67 -68 -69 -70 -71 -72 -73 -74 -75 -76 -77 -78 -79 -80 -81 -82 -83 -84 -85 -86 -87 -88 -89 -90 -91 -92 -93 -94 -95 -96 -97 -98 -99 -100 -101 -102 -103 -104 -105 -106 -107 -108 -109 -110 -111 -112 -113 -114 -115 -116 -117 -118 -119 -120 -121 -122 -123 -124 -125 -126 -127 -128 -129 -130 -131 -132 -133 -134 -135 -136 -137 -138 -139 -140 -141 -142 -143 -144 -145 -146 -147 -148 -149 -150 -151 -152 -153 -154 -155 -156 -157 -158 -159 -160 -161 -162 -163 -164 -165 -166 -167 -168 -169 -170 -171 -172 -173 -174 -175 -176 -177 -178 -179 -180 -181 -182 -183 -184 -185 -186 -187 -188 -189 -190 -191 -192 -193 -194 -195 -196 -197 -198 -199 -200 -201 -202 -203 -204 -205 -206 -207 -208 -209 -210 -211 -212 -213 -214 -215 -216 -217 -218 -219 -220 -221 -222 -223 -224 -225 -226 -227 -228 -229 -230 -231 -232 -233 -234 -235 -236 -237 -238 -239 -240 -241 -242 -243 -244 -245 -246 -247 -248 -249 -250 -251 -252 -253 -254 -255 -256 -257 -258 -259 -260 -261 -262 -263 -264 -265 -266 -267 -268 -269 -270 -271 -272 -273 -274 -275 -276 -277 -278 -279 -280 -281 -282 -283 -284 -285 -286 -287 -288 -289 -290 -291 -292 -293 -294 -295 -296 -297 -298 -299 -300 -301 -302 -303 -304 -305 -306 -307 -308 -309 -310 -311 -312 -313 -314 -315 -316 -317 -318 -319 -320 -321 -322 -323 -324 -325 -326 -327 -328 -329 -330 -331 -332 -333 -334 -335 -336 -337 -338 -339 -340 -341 -342 -343 -344 -345 -346 -347 -348 -349 -350 -351 -352 -353 -354 -355 -356 -357 -358 -359 -360 -361 -362 -363 -364 -365 -366 -367 -368 -369 -370 -371 -372 -373 -374 -375 -376 -377 -378 -379 -380 -381 -382 -383 -384 -385 -386 -387 -388 -389 -390 -391 -392 -393 -394 -395 -396 -397 -398 -399 -400 -401 -402 -403 -404 -405 -406 -407 -408 -409 -410 -411 -412 -413 -414 -415 -416 -417 -418 -419 -420 -421 -422 -423 -424 -425 -426 -427 -428 -429 -430 -431 -432 -433 -434 -435 -436 -437 -438 -439 -440 -441 -442 -443 -444 -445 -446 -447 -448 -449 -450 -451 -452 -453 -454 -455 -456 -457 -458 -459 -460 -461 -462 -463 -464 -465 -466 -467 -468 -469 -470 -471 -472 -473 -474 -475 -476 -477 -478 -479 -480 -481 -482 -483 -484 -485 -486 -487 -488 -489 -490 -491 -492 -493 -494 -495 -496 -497 -498 -499 -500 -501 -502 -503 -504 -505 -506 -507 -508 -509 -510 -511 -512 -513 -514 -515 -516 -517 -518 -519 -520 -521 -522 -523 -524 -525 -526 -527 -528 -529 -530 -531 -532 -533 -534 -535 -536 -537 -538 -539 -540 -541 -542 -543 -544 -545 -546 -547 -548 -549 -550 -551 -552 -553 -554 -555 -556 -557 -558 -559 -560 -561 -562 -563 -564 -565 -566 -567 -568 -569 -570 -571 -572 -573 -574 -575 -576 -577 -578 -579 -580 -581 -582 -583 -584 -585 -586 -587 -588 -589 -590 -591 -592 -593 -594 -595 -596 -597 -598 -599 -600 -601 -602 -603 -604 -605 -606 -607 -608 -609 -610 -611 -612 -613 -614 -615 -616 -617 -618 -619 -620 -621 -622 -623 -624 -625 -626 -627 -628 -629 -630 -631 -632 -633 -634 -635 -636 -637 -638 -639 -640 -641 -642 -643 -644 -645 -646 -647 -648 -649 -650 -651 -652 -653 -654 -655 -656 -657 -658 -659 -660 -661 -662 -663 -664 -665 -666 -667 -668 -669 -670 -671 -672 -673 -674 -675 -676 -677 -678 -679 -680 -681 -682 -683 -684 -685 -686 -687 -688 -			

SPECIAL INSTRUCTIONS	SHAFT	DEPTH			DEPTH		
	Read & Plug		CL 100	CL D.P.			SQUEEZE JOB
		SIZE			TOOL	TYPE	

Personel:	Jose Madrid, Ronald Trujillo, J.R. Ortiz, Don Wilson, Bruce Green	<input type="checkbox"/> Double Box	WEIGHT	F	DEPTH		
Engineer:	Greg Wright	<input type="checkbox"/> Single	GRADE	TAIL PIPE	SIZE		DEPTH
E-Test:	Robert Ashe, Mechanics: Eric Wheeler	<input type="checkbox"/> Widge	THREADS	TUNING VOLUME			DBL
				USE NO. IN LOW TMM			DBL

LIFT PRESSURE:	241	psi	BUNIP PLUG TO NO. of Centralizer	N/A	CEMENT TEMPERATURE:		TOTAL.		DBL
PRESSURE LIMIT	(HKK)	psi	13	pH	6	PPM	0	TEMP	

TIME	PRESSURE	VOLUME PUMPED	JOB SCHEDULED FOR	ARRIVE ON LOCATION	RIG UP	LEFT LOCATION
(HH:MM)	TBD	CSG	TIME: 4:00 DATE: 5/4/2014	TIME: 2:00 DATE: 5/4/2014	TIME: DATE: 5/4/2014	TIME: 2:45 DATE: 5/4/2014
			2:00 PM 5/4/2014			

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System Used	Seed Sacks	Yield lb/ack	COMPOSITION OF SYSTEM	SLURRY MIXED	
				UBLS	DENSITY

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CIRCULATION		WASHED CASING DOWN		BREAKDOWN		PSI	FINAL	PSI
YES		NO						

<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	BEFORE PLACING IN USE PRESSURE	PSI	RATE	RPM
DISPLACEMENT VOL.		0.015 LBS				

**PIONEER**  
NATURAL RESOURCES

WELL NAME AND NO.		LOCATION (LEGAL)		RIG NAME		CEMENT PUMPER	
San Pablo 11-4 WDW		NW/4 SEC 4 T3S R67W		Perry #11		23005	
FIELD		FORMATION		WELL DATA		BITUM	
Rating		RATON		BIT SIZE		FT TOP	
COUNTY		STATE		API NO.		FT	
LAS ANIMAS		COLORADO		05-071-09916		7"	
				TOTAL DEPTH		230	
				WEIGHT		6000 LB	
				MUD TYPE			
				FOOTAGE			

RESI FORMMAN	Kevin Swafford	<input type="checkbox"/> BHCT	THREPAD	ST&C	
CLIMATE SUPER	Frank L. Gonzales	AUD DENSITY	Share Joint	61.43	TOTAL
		AUD VISA	Disp. Capacity	269	269

SPECIAL INSTRUCTIONS	TYPE		TYPE	
	DEPTH			DEPTH

Personnel:	Jose Madrid, Ronald Trujillo, Drew Withers, J.R. Ortiz, Bruce Green	<input type="checkbox"/> Single	GRADE	TAIL PIPE:	SIZE	DEPTH
Engineer:	Greg Wright	<input type="checkbox"/> Double	THREADS	TUBING VOLUME		BBLs

				<input type="checkbox"/> Goodout	<input type="checkbox"/> New	<input type="checkbox"/> Used	CNG VOL. BELOW TUBO.	BBLs
LIFT PRESSURE:	2813	PSI					TOTAL	BBLs
PRESSURE LIMIT	4300	DSI	BUNPLUG TO /	3000	CEMENT TEMPERATURE:	72	ANNULAR VOLUME	BRLs

TIME		PRESSURE	VOLUME PUMPED	NO. OF CYCLES/HR	12	WATER QUALITY	6 pH	0	PPM	68	TEMP
(min to 2400)		(Tb) (°C)	(DWR) (L/M)	JOB SCHEDULED FOR TIME: 11:30 DATE: 5/8/2014		ARRIVE ON LOCATION TIME: 10:00 DATE: 5/8/2014		RIG UP TIME: 11:30 DATE: 5/8/2014		LEFT LOCATION TIME: 20:00 DATE: 5/8/2014	

					RATE	CUMULATIVE	DENSITY	
13:00								Safety meeting
13:18			3	3	1	H2O		Load Lines
13:19		4600	0.5	3.5	1	H2O	8.3	Pressure Test
13:21		110	280	283.5	4	H2O	8.3	Water Ahead
14:19		480	104	387.5	3	Cmt.	13.7	Pump 1st. Stage Cement @ 13.7 PPG ( 411 Sks. )
14:39		450			3.5	Cmt.	13.7	
15:00		300	39	426.5	4	Cmt.	15.8	Pump 2nd. Part 1st. Stage Cement @ 15.8 PPG ( 145 Sks. )
15:12								Done
15:14						H2O	8.3	DROP PLUG
15:14		269			3.5	H2O	8.3	Pump Displacement
15:28			506.5	359.5	5	H2O	8.3	1st. Call Out
15:48			586.5	434.5	5	H2O	8.3	2nd. Call Out
16:07			666.5	504.5	4	H2O	8.3	3rd. Call Out
16:23			695.5		2	H2O	8.3	Final Lift
16:23		1400			2	H2O	8.3	Bump Plug
16:31		3000				H2O	8.3	Open tool
16:36						H2O	8.3	Drop Bomb - Wait 15 Minutes
17:02		693	1	505.5	1	H2O	8.3	Open DV Tool
17:04		130	165	670.5	5	H2O	8.3	Pump Water Ahead
17:36		70	90	760.5	2	Cmt.	13.7	Pump 1st stag. cmt. Of 2nd. Stage @ 13.7 PPG. ( 356 Sks. )

System Used	No. of Sacks	Yield P/sk	COMPOSITION OF SYSTEM	STUDY MIXED	
				BBLS	DENSITY
50/50	767	1.42	Class G. Pozz. P167, PK65, P154, P046	194	13.7
50/50	145	1.51	Class G. P030, PK60	39	15.8
50/50	102	1.48	Class G. Pozz. P167, PK65, P154, P046, P030	20	14.5

CIRCULATION		YES		WASHED CASING DOWN		NO		BREAKDOWN		110 PSI		FINAL		2600		PSI			
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No		BEFORE PLUG TO SURFACE											
DISPLACEMENT VOL		434		BBLs				n		BEFORE PLUG TO BUMP PRESSURE		893		PSI		RATE		4 BPM	

**PIONEER**  
 NATURAL RESOURCES

TREATMENT NUMBER	DATE
PG2014-015	5/9/2014
STAGE	JOB TYPE
2	Production
RIG NAME:	CEMENT PUMP:
Perse #31	23005
RIG FOREMAN:	CEMENT SUPERVISOR:
Kevin Swafford	Frank L. Gonzales
ARRIVE ON LOCATION	LEFT LOCATION
TIME: 10:00 DATE: 5/9/2014	TIME: 11:30 DATE: 5/9/14
RIG UP	TIME: 20:00 DATE: 5/9/2014

WELL NAME AND NO.	LOCATION (LEGAL)	RIG NAME:	CEMENT PUMP:
San Pablo 11-4 WDW	NW/NW SEC.4-T335-R67W	Perse #31	23005
FIELD	FORMATION	RIG FOREMAN:	CEMENT SUPERVISOR:
Raton	RATON	Kevin Swafford	Frank L. Gonzales
COUNTY	STATE	ARRIVE ON LOCATION	LEFT LOCATION
LAS ANIMAS	COLORADO	TIME: 10:00 DATE: 5/9/2014	TIME: 11:30 DATE: 5/9/14
	API NO.	RIG UP	TIME: 20:00 DATE: 5/9/2014
	05471-09916		

TIME 0001 to 2400	PRESSURE TBG	CSG	VOLUME PUMPED INC	CUM	JOB SCHEDULED FOR TIME: 11:30 DATE: 5/9/2014	FLUID TYPE	DENSITY	COMMENT
17:43		260		788.5	4.5	H2O	13.5	28 Bbl. Away
17:58		240		830.5	3.5	H2O	13.5	70 Bbl. Away
18:05		180	20		2	Cmt.	14.5	2nd stg; cement of 2nd stage @ 14.5 PPG (102 sks.)
18:16		180		850.5	2	Cmt.	14.5	20Bbl. Away
18:17								DROP PLUG
18:27		70	165		5	H2O	8.3	Pump Displacement
18:37		100		880.5	5	H2O	8.3	1st. Call Out
18:47		125		930.5	5	H2O	8.3	2nd. Call Out
18:53		500		980.5	5	H2O	8.3	3Rd. Call Out
18:53		893		995.5	4	H2O	8.3	Final
19:08		2600			4	H2O	8.3	BUMP PLUG
								Wait 15 minutes
19:25								PLUG HELD
								WOC FOR 36 HOURS
19:30			60	1055.5	4	H2O	8.3	Wash up Pump and Lines
19:45								RIG DOWN

JOB SUMMARY:

ADDITIONAL NOTES: