	UNITED STATES PARTMENT OF THE INT REAU OF LAND MANAG	FORM APPROVED OMB No 1004-0137 Expires July 31, 2010 5 Lease Serial No LC- 032715					
⁽ SUNDRY I Do not use this abandoned well.	NOTICES AND REPORT form for proposals to d Use Form 3160-3 (APD,	EMENT S ON WELLS rill or to re-enter a for such proposa		6 If Indian, Allottee or	Tribe Name		
	IT IN TRIPLICATE – Other inst	ructions on page 2.	CEIVED	7. If Unit of CA/Agreen		d/or No	
1 Type of Well	5	5		Cooper Jal Unit- NM	070926X		
	Well 🔽 Other Injector			8 Well Name and No Cooper Jal Unit #133			
2 Name of Operator Resaca Op	perating Company	9 API Well No 30-025-11161					
3a Address	3b.	ode)	10 Field and Pool or Exploratory Area				
1331 Lamar Street, Suite 1450	Houston, TX 77010 (43)	2) 580-8500		Jalmat; T-Y-7R/ Langlie Mattix; 7R-Q-G			
4 Location of Well (Footage, Sec, T.,				11 Country or Parish, S	tate		
1980' FSL & 1916' FWL, Sec 19, T-24S, R-378	E, Unit Letter K ✓			Lea County, NM		/	
12 CHEO	CK THE APPROPRIATE BOX(E	5) TO INDICATE NATUR	E OF NOTIO	CE, REPORT OR OTHE	R DATA		
TYPE OF SUBMISSION		TY	PE OF ACT	ION			
Notice of Intent	Acidize	Deepen	Prod	uction (Start/Resume)	Water S	hut-Off	
	Alter Casing	Fracture Treat	Recla	amation	🗌 Well In	• /	
Subsequent Report	Casing Repair	New Construction	Reco	mplete		Run & Cement	
	Change Plans	Plug and Abandon	Temp	oorarily Abandon	-	/2" Liner, Run MIT .	
Final Abandonment Notice	Convert to Injection	Plug Back	Wate	r Disposal	*Ar	nended Report*	
Objective: Run & Cement 3 ½" Line 1) MIRU PU & Above Steel Pit. 2) Set Composite Plug @ 50' åbove 3) RIH w/ 3 ½" x 9.30# API J-55 R-7 4) Pump 250 sacks Class C + 0.4%	e top perf, approximately 2932' 2 Ultra FJ to approximately 293 5 C-35 +0.25% R-38 (Density:	0'. I4.80 #/gal, Yield: 1.33 c	ubic ft/sack		HOBBS	OCD	
Mixing Water: 6.31 gal/sack, Total 5) RIH w/ Bit & drill float collar, float 6) RIH w/ Packer on 2 3/8" IPC, ND 7) Run MIT, pressure test to approx	shoe & composite plug, tag. N BOP, circulate packer fluid. Se	ng MIT. op perf (Top	Perf @ 2982').	OCT 1	0 2012		
L8) RDMO Pulling Unit, clean locati * Amended Line 3 & 4					RECI	EVED	
Amended Elite 5 d 4	CE	E ATTACHEI	ם הי ר		112.0-		
		NDITIONS C					
14 I hereby certify that the foregoing is t	rue and correct Name (Printed/Typ	ed)					
Melanie Reyes		Title Enginee	r Assistant				
Signature	P	Date 06/13/20	012	APPROV	FD	7	
	THIS SPACE FOR	R FEDERAL OR ST	ATE OF				
Approved by				OCT 4 20	12		
		Title		_	ate		
Conditions of approval, if any, are attached that the applicant holds legal or equitable t entitle the applicant to conduct obstations	itle to those rights in the subject leas	varrant or certify	F	WESLEY W. INGRAM PETROLEUM ENGINEER			
Title 18 U S C Section 1001 and Title 43 fictitious or fraudulent statements or repre					the second s	e United States any false	
(Instructions on page 2)		······································				1	

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Metal Onc

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FLUSHMAX Dimension

Pipe Body					Pin	Box			
Outside Diamete	Nominal Weight	Wall Thickness	Inside Diamete	Drift Diamete	Thread length	OD	Joint Efficienc	Length	
in	lbs/ft	in	in	in	in	in	%	in	
2 3/8	4.43	0.190	1.995	1.901	1.750	2 3/8	40	1.750	
2 7/8	6.16	0.217	2 441	2.347	1.750	2 7/8	42	1.750	
3 1/2	8.81	0.254	2.992	2.867	1.750	3 1/2	46	1.750	
4 1/2	11.35	0.250	4.000	3.875	2.500	4 1/2	46	2.518	
4 1/2	12.24	0.271	3.958	3.833	2.500	4 1/2	50	2.518	
4 1/2	13.04	0.290	3 920	3.795	2.500	4 1/2	53	2.518	
5	14.87	0.296	4.408	4.283	2.500	5	43	2.526	
5	17.93	0.362	4.276	4.151	2.500	5	53	2.526	
5 1/2	16.87	0.304	4.892	4.767	2.500	5 1/2	43	2.527	

FLUSHMAX Performance Properties

			J55			N80 / L80			
Outside	Nominal Weight	Wall	Tensile	Burst	Collapse	Tensile	Burst	Collapse	
Diamete in	lbs/ft	Thickness in	kips	psi	psi	kips	psi	psi	
2 3/8	4.43	0.190	28.7	6,160	8,100	41.7	8,960	11,780	
2 7/8	6.16	0.217	41.8	5,812	7,680	60.9	8,454	11,170	
3 1/2	8.81	0.254	65.5	5,588	7,400	95.3	8,128	10,540	
4 1/2	11.35	0.250	84.4	4,278	4,960	122.8	6,222	6,360	
4 1/2	12.24	0.271	99.0	4,637	5,730	143.9	6,745	7,500	
4 1/2	13.04	0.290	111.8	4,962	5,860	162.5	7,218	8,540	
5	14.87	0.296	103.4	4,558	5,560	150.4	6,630	7,250	
5	17.93	0.362	153.7	5,575	7,390	223.5	8,109	10,500	
5 1/2	16.87	0.304	117.3	4,256	4,910	170.6	6,191	6,290	

FLUSHMAX Make-up Torque

			Torque (ft-lbs)			BJ Tong	Pressure]
Outside Diamete	Nominal Weight	Grade	Min.	Max.	Aim	Gear	Pressur	
2 3/8	4.43	J55	1,000	1,400	1,200	High	2,000	This is Tong
2 3/0	4.45	N/L80	1,100	1,500	1,300	Low	550	pressure to be
2 7/8	6.16	J55	1,500	2,000	1,750	Low	750	set to dump
2 //0	0.10	N/L80	1,700	2,100	1,900	Low	810	
3 1/2	8.81	J55	2,000	2,800	2,400	Low	1,000	
51/2	0.01	N/L80	2,200	3,000	2,600	Low	1,100	
4 1/2	11.4	J55	2,400	3,200	2,800	Low	1,210	
4 1/2 11.4	11.4	N/L80	2,600	3,400	3,000	Low	1,260	
4 1/2	12.2	J55	2,500	3,300	2,900	Low	1,250	
4 1/2 12.2	12.2	N/L80	2,700	3,500	3,100	Low	1,300	
4 1/2 13.0	12.0	J55	2,600	3,400	3,000	Low	1,260	
	N/L80	2,800	3,600	3,200	Low	1,340		
5 14.9	14.0	J55	2,600	3,400	3,000	Low	1,260	
	N/L80	2,800	3,600	3,200	Low	1,340		
5 17.9	17.0	J55	2,700	3,500	3,100	Low	1,300	
	N/L80	2,900	3,700	3,300	Low	1,400		
5 1/2 17.0	17.0	J55	2,700	3,500	3,100	Low	1,300	
	17.0	N/L80	2,900	3,700	3,300	Low	1,400	

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1-Jun-05

Conditions of Approval

Resaca Operating Company Cooper Jal Unit – 133 API 30-025-11161 T24S-R37E, Sec 19 October 4, 2012

Operator should include before and after diagrams for these requests.

- 1. Surface disturbance beyond the existing pad shall have prior approval.
- 2. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
- 3. Functional H_2S monitoring equipment shall be on location.
- 4. A 2000 (2M) BOPE to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 (attachment 1, 2M diagrams of choke manifold equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
- 5. All waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
- 6. Workover approval is good for 90 days (completion to be within 90 days of approval). A detailed justification is necessary for extension of that date.
- 7. Submit Subsequent Report sundry within 30 days of doing work with details by date of work completed.

PRS/WWI 100412

<u>Well with a Packer – Operations</u>

- Conduct a Mechanical Integrity Test of the tubing/casing annulus after a tubing, packer or casing seal is established. Repair that seal any time more than five barrels of packer fluid is replaced within 30 days.
- 2) The minimum test pressure should be 500 psig for 30 minutes or 300 psig for 60 minutes, with 200 psig differentials between tubing and casing pressure (at test time) but no more than 70% of casing burst pressure as described by Onshore Order 2.III.B.1.h. (The tubing or reservoir pressure may need to be reduced). An alternate method for a BLM approved MIT is to have the fluid filled system open to atmospheric pressure and have a loss of less than five barrels in 30 days witnessed by a BLM authorized officer.
- 3) Document the pressure test on a calibrated recorder chart registering within 25 to 85 per cent of its full range. Greater than 10% pressure leakoff will be viewed as a failed MIT., Less
- than 10% pressure leakoff will be evaluated site specifically and may restrict injection approval.
- 4) At least 24 hours before the test: Andy Cortez <u>acortez@blm.gov</u>, (phone 575-393-3612 or 575-631-5801). If no answer, leave a voice mail with the API#, workover purpose, and a call back phone number. Note the contact notification method, time, & date in your subsequent report.
- 5) Submit a subsequent Sundry Form 3160-5 relating the MIT activity. Include a copy of the recorded MIT pressure chart. List the name of the BLM witness, or the notified person and date of notification. NMOCD is to retain the original recorded MIT chart.
- 6) Use of tubing internal protection, tubing on/off equipment just above the packer, a profile nipple, and an in line tubing check valve below the packer or between the on/off tool and packer is a "Best Management Practice". The setting depths and descriptions of each are to be included in the subsequent sundry. List (by date) descriptions of daily activity of any previously unreported wellbore workover.
- 7) Submit the original subsequent sundry with three copies to BLM Carlsbad.
- 8) Compliance with a NMOCD Administrative Order is required, submit documentation of that authorization.
 - a) Approved injection pressure compliance is required.
 - b) If injection pressure exceeds the approved pressure you are required to reduce that pressure and notify the BLM within 24 hours.
 - c) When injection pressure is within 50 psig of the maximum pressure, install automation equipment that will prevent exceeding that maximum. Submit a subsequent report (Sundry Form 3160-5) describing the installed automation equipment within 30 days.
- 9) Unexplained significant variations of rate or pressure to be reported within 5 days of notice.
- 10) The casing/tubing annulus is required to be monitored for communication with injection fluid or loss of casing integrity. A BLM inspector may request verification of the annular fluid level at any time.

11) A "Best Management Practice" is to maintain the annulus full of packer fluid at atmospheric pressure. Equipment that will display on site, continuous open to the air fluid level is necessary to achieve this goal.

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- 12) Loss of packer fluid above five barrels per month indicates a developing problem. Notify BLM Carlsbad Field Office, Petroleum Engineering within 5 days.
- 13) A suggested format for monthly records documenting that the casing annulus is fluid filled is available from the BLM Carlsbad Field Office.
- 14) Gain of annular fluid requires notification within 24 hours. Cease injection and maintain a production casing pressure of 0 psia. Notify the BLM's authorized officer ("Paul R. Swartz" <<u>pswartz@blm.gov</u>>, cell phone 575-200-7902). If there is no response phone 575-361-2822.
- 15) Submit a (Sundry Form 3160-5) subsequent report (daily reports) describing all wellbore activity and Mechanical Integrity Test as per item 1) above. Include the date(s) of the well work, and the setting depths of equipment: internally corrosive protected tubing, tubing on/off equipment just above the packer, and an in-line tubing check valve below the packer or between the on/off tool and packer. The setting depths and descriptions of each are to be included in the subsequent sundry. List (by date) descriptions of daily activity of any previously unreported wellbore workover.

Access information for use of Form 3160-5 "Sundry Notices and Reports on Wells"

NM Fed Regs & Forms - http://www.blm.gov/nm/st/en/prog/energy/oil and gas.html

§ 43 CFR 3162.3-2 Subsequent Well Operations.

§ 43 CFR 3160.0-9 (c)(1) Information collection.

§ 3162.4-1 (c) Well records and reports.