

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS** 

OCD-HOBB2

APR 2 4 2012

FORM APPROVED OMB No 1004-0137 Expires July 31, 2010

i.	Lease Serial No.	
	C 055546	

6. If Indian, Allottee or Tribe Name

		to drill or to re-entera APD) for such proposa						
SUBM	IIT IN TRIPLICATE – Othe		7 If Unit of CA/Agreement, Name and/or No					
1 Type of Well			Langlie Jal Unit- NN	M 70970A				
Oil Well Gas	Well Other In		8. Well Name and No Langlie Jal Unit #60					
Name of Operator     Resaca C	perating Company	9. API Well No 30-025-24879						
3a Address		3b Phone No. (include area c	ode) 10 Field and Pool or	10 Field and Pool or Exploratory Area				
1331 Lamar Street, Suite 1450	Houston, TX 77010	(432) 580-8500	Langlie Mattix; 7Riv	Langlie Mattix; 7Rivers-Queen-Grayburg				
4. Location of Well (Footage, Sec., 7	.,R,M, or Survey Description	1)	11. Country or Parish	, State				
1830 FSL & 660 FEL, Sec 5, T-25S, R-37E, U	Jnit Letter I	Lea County, NM	Lea County, NM					
12. CHE	CK THE APPROPRIATE B	OX(ES) TO INDICATE NATU	RE OF NOTICE, REPORT OR OTH	IER DATA				
TYPE OF SUBMISSION		T	YPE OF ACTION					
Notice of Intent	Acidize	Deepen	Production (Start/Resume)	Water Shut-Off				
Trodec of linear	Alter Casing	Fracture Treat	Reclamation	Well Integrity				
Subsequent Report	Casing Repair	New Construction	Recomplete	Other Test casing & repair				
Subsequent Report	Change Plans	Plug and Abandon	Temporarily Abandon	if necessary, Run MIT				
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposal					

...13. Describe Proposed or Completed Operation...Clearly state all pertinent details, including estimated starting date of any-proposed work and approximate duration-thereof—If—the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection)

Objective: This injector is currently injecting into the Langlie Mattix Pool. We intend to test casing, make repairs if necessary, run MIT & pull chart.

- 1.) MIRU Pulling Unit & Above Ground Steel Pit.
- 2.) Pressure Test casing to see if any casing leaks are found.
- 3.) If casing leak is found, locate & cement squeeze with appropriate sacks of cement.
- 4.) Drill out cement & circulate well clean.
- 5.) Pressure test casing to make sure casing repair was successful.
- 6.) Run Mechanical Integrity Test (Notify BLM & NMOCD prior to test). Pull chart for BLM (copy to NMOCD).
- 7.) RDMO Pulling Unit, clean location, clean & dispose of pit fluids.

SUBJECT TO LIKE APPROVAL BY STATE

# SEE ATTACHED FOR CONDITIONS OF APPROX

14 I hereby certify that the foregoing is true and correct Name (Printed/Typed)							
Melanie Reyes T <sub>1t</sub>	Title Engineer Assistant						
Signature Date Date	e 02/27/2012	APPROVED					
THIS SPACE FOR FEDERA	L OR STATE OF	FICE USE					
Approved by		APR   2 0 2012					
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Title	Date Date					
Conditions of approval, if any, are attached Approval of this notice does not warrant or certify that the applicant holds legal or equitable time to those rights in the subject lease which would entitle the applicant to conduct appearingly thereon.	Office	WESLEY W. INGRAM PETROLEUM ENGINEER					
Title 18 II S.C. Section 1001 and Title 43 II S.C. Section 1212, make it a grama for any passen	1						

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

È							WELLBORE SCHE	MATIC AND HIST	ORY		* •		
CU CU	RRENT CO	MPLETIO	N SCHE	MATIC	LEASE NAME STATUS		lny l	anglie Jal		Oil		WELL NO	60 WIW
,		П			LOCATION SPUD DATE		1830 FNL & 660   11/24/74 T	FEL, Sec 5, T - 25	5 S, R - 37 E, Lee County 3850	, New Mexico KB	3,230	DF DF	30-025-23868
urface Casing lole Size 20" CSG Size 13 3/8" Let @ 30' Let 175 sx CI C					INT COMP D	DATE	12/19/74 P	BTD	3783' GEOLOGICA	GL	3,220	GR RES, DST'S or	
arc Yes,	i	11	Ш					H	YROCARBON BEARING	ZONE DEPTH TO	PS.		
					Yates @ 2927	7'	7-Rivers @ 3163	•	Queen @ 3495'				
		11	Ш	:	Surf Csg	13 3/9" 6	51# V 55 cot @ 2	O' ContiduuTE	CASING PI	ROFILE			
	1				Inter Csg	8 5/8 " 24	# J-55 set @ 814'	Cemented wi	sxs - TOC - Surface th 600 sx Class C To	OC - @ Surface			
					Prod Csg		5# J-55 set @ 38	48' Cemented	with 1100 sx Class Current Perfo		)' -7		
termidiate Casing				_	CSG PERF 13-Dec-74 04-Dec-85	Perf'd Q &	. 7-R f/3425'-27', 34 to 3,783' PBTD. P	97'-3506', 3518 erf'd Q & 7-R f	3', 3534'-40', 3558', 35 /3425'-27', 3582', 359	62'-64', 67'-77', 3 3', 3616', 3673'-7	OPEN HOL 3592', 3602', 3 '6', 3688'-94, 3	606'-10', 3616	s', 3629'-32', 1JHPF, 40', 47 JHPF, 18', 25 holes
ole Sıze 12 1/2 ın sg Size 8 5/8 ın			H		TUBING DE	ETAIL	11/11/2008		ROD DET	ΔH			
Set @ 814 ft cs Cmt 600			$\ \cdot\ $		3238	·—·	2 3/8 IPC Tub		KOO DE	AL			
OC Surface, Circ		П	Ш			<u>4</u> 1	Uni-Pkr			_			
				Casing leak From 497' & 1027'	3242	2				0			
			1 1	Polymer Squeezed Twice	WELL HIST	ORY SUMM	ARY	<u>.</u>					
		$\  \ $	$\  \ $		13-Dec-74	Perf'd Q &	7-R f/3425'-27', 34	97'-3506', 3518	i'. 3534'-40' 3558' 35	32'-64' 3567'-77	' 3592' 3602'	3606'-10' 24	i16', 3629'-32', 1JHPF, 40',
						Acidized pe	erfs ( L. Queen 3,56	2' to 3632') w/ 2	2,500 gals 15% HCI © 00# 20/40 sand in 3 sta	overt 40 BS Acu	dized perfs (34	25'-3540') w	1 000 gals 15% HCl acid a
			Ш		12-May-77	Spotted wit	h 100 gals 15% HC	lacid Acidized	with 1,000 gals 15% I	HCI acid			
			] ]3		04-Dec-85	Onlied out	to 3,783', PBTD. Po gals 15% HCI acid	erf'd Q & 7-R f/ Well converted	/3425'-27', 3582', 3593 d to water injection w	s', 3616', 3673'-7 ell. IP: <b>1025 bW</b>	6', 3688'-94, 3 'PE @ <b>340</b> ps	720'-3724', 1 g.	JHPF, 18', 25 holes, Acidiz
		11			04-Dec-92 20-Dec-92	Cleaned ou	it with Coiled tubing	using 1 1/4" Hy	ydroblast Tool from 3,9 ydroblast Tool from 3,5	577' to 3,770'		•	
<del></del>			┧ -	Yates @ 2927'	07-Aug-02	~~Squeezed o	casing leak (497'-10	027') with 6 5 bb	ols polymer Well pass	ed pressure test	ecovered from	sunde	
		Ш		1 ales @ 2927	17-Sep-06	Squeezea	casing leak (497'-10	027') with 6 bbls	polymer Well passed	pressure test			
oduction String le Size 61/6 in													
g Size 4 1/2 in L 3228 ft													
DL 3695 ft s Cmt 150				7-Rivers @ 3163									
s Cmt 75 from TOL													
		X	×	PKR @ 3357'									
3425'-3582'			F	3425'-3427'									
			E	Queen @ 3495' 3497'-3506'									
			Ē	3518'									
			E										
	:		F	3534'-3540'									
			F	3558'									
			F	3562'-3564'									
3582'				3567'-3577'	1								
			F										
3593'			1.	3592									
				3602'									
			ľ	3606'-3610'									
2615'				3616'									
	•		- [-	3629'-3632'									
3673'-3676'			1										
3688'-3694'			ŀ	ļ									
3720'-3724'													
		: 4,		DOTO O ATT									
		·	1.	PBTD @ 3783'									
Shoe @ 3848'										•			
BTD 3783' ft					ı								
TD 3850 ft					ı								
					PREPAREI				es				

## **Conditions of Approval**

### Resaca Operating Company Langlie Jal Unit - 60 API 3002524879

April 20, 2012

- 1. Operator shall obtain BLM approval prior to any casing repair beyond squeezing the casing leaks. Failure to obtain approval will result in a Major Incidence of Non-Compliance and may result in a Unit shut-in order.
- 2. Provide BLM with an electronic copy (Adobe Acrobat Document) cement bond log record from 3425' or below to top of cement. Less than 500' between the proposed top perforation and top of cement or lack of a 500' overlap above next casing shoe may require correction. The CFO BLM on call engineer may be reached at 575-706-2779.
- 3. Surface disturbance beyond the existing pad must have prior approval.
- 4. 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.
- 5. H<sub>2</sub>S monitoring equipment to be used on location and functional.
- 6. 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.
- 7. 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.
- 8. Operator shall submit a subsequent report sundry with original signature along with three copies within 30 days of completing the work. The work shall be detailed by date performed.
- 9. Workover approval is good for 90 days (completion to be within 90 days of approval). A legitimate request is necessary for extension of that date.

#### Well with a Packer – Operations

- 1) 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: In Lea County email Andy Cortez <u>acortez@blm.gov</u>, (phone 575-393-3612 or 575-631-5801). 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.
- 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 0psia. 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.

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

Use of Form 3160-5 "Sundry Notices and Reports on Wells"

§ 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.