Form 3160-5 (August 2007)

NM OIL CONSERVATION

MAY 1 8 2015

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010 LC OG3/3 NMLC-0063616

BUREAU OF LAND MANAGEMENT

UNITED STATES

DEPARTMENT OF THE INTERIOR

5. Lease Serial No.

SUNDRY NOTICES AND REPORTS ON WELRSCEIVED Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.					6. If Indian, Allottee or Tribe Name				
SUBMIT IN TRIPLICATE – Other instructions on page 2.					7. If Unit of CA/Agreement, Name and/or No.				
1. Type of Well					12013613	Culwin Que	en Unit / //	M70930	
X Oil Well Gas Well Other					8. Well Name and No. No.15				
2. Name of Operator Ray Westall Operating, Inc.					9. API Well No. 30-015-04586				
3a. Address 3b. Phone No. (include area code)					10. Field and Pool or Exploratory Area				
P.O. Box 4, Loco Hills, N	575-622-2372			Shugart Yates-Seven Rivers-Queen-Grayburg					
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)					11. Country or Parish, State				
1980' FNL & 660' FEL, 1-19S-30E					Eddy, NM				
12. CHE	CK THE APPROPRIATE BO	OX(ES) TO IND	ICATE NATUR	E OF NOTIC	E, REPORT OR C	THER DATA			
TYPE OF SUBMISSION		,	T	PE OF ACTI	ON				
X Notice of Intent	X Acidize	Deep	Deepen		Production (Start/Resume)		Water Shut-Off		
Notice of Intent	Alter Casing	Fracti	Fracture Treat		Reclamation		Well Integrity		
	Casing Repair	New Construction		Recomplete		Oth	Other		
Subsequent Report	Change Plans	Plug and Abandon		Temporarily Abandon		_			
Final Abandonment Notice				er Disposal					
MIRU Pulling Unit. Pull rods, RIH w/ 2-3/8" IC Tubing & PK Install injection wellhead, val Commence Injection - Max Pr	R. Set PKR within 100' of ve, pressure gauge, injec	f uppermost pe	erf / openhole	injection in	S U	BJECT T	O LIKE		
Note: N small ac	Wells may be tagged on l id clean up of formation たこの ノ のり	bottom, cleane or perfs as app pled for rec NIMOCD	olicable. 500-1	er or basket 1000 gals 15	, %. SEI	PROVAL E ATTAC TIONS C	CHED FO	OR .	
14. I hereby certify that the foregoing is t	rue and correct.		3 0013		<u> </u>				
Name (Printed/Typed) Ben Ston		488-9850	Title Partne	r, SOS Consi	ult <u>ing IIC. Agen</u>	t for Ray We	stall Operati	ng, Inc.	
Signature See Sees	- Sen	ore pdf sign		/2015	A	PPRC	IVED		
	THIS SPACE	FOR FEDE	RAL OR ST	ATE OFF	ICE USE				
Approved by						MAY 1.2	2015		
Conditions of approval, if any, are attached	d Approval of this notice does	s not warrant or ce	Title					-	
that the applicant holds legal or equitable title to those rights in the subject lease which would ntitle the applicant to conduct operations thereon.					BUREAU OF LAND MANAGEMENT				
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						LSBADEIEI	DOFFICES	tates any false	

fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Conditions of Approval

Ray Westall Operating, Inc. Culwin Queen Unit - 15, API 3001504586 T19S-R30E, Sec 01, 1980FNL & 660FEL May 12, 2015

- 2. Subject to like approval by the New Mexico Oil Conservation Division.
- 3. Before casing or a liner is added, replaced, or repaired prior BLM approval of the design is required. Use notice of intent Form 3160-5.
- 4. Perform a charted casing integrity test of 1200psig minimum from 3000' to surface. Document the pressure test on a one hour full rotation calibrated (within 6 months) recorder chart registering within 25 to 85 per cent of its full range. Verify all annular casing vents are plumbed to the surface and open during this pressure test. Call BLM 575-200-7902 and arrange for a BLM witness of that pressure test. Include a copy of the chart in the subsequent sundry for this workover.
- 5. Before casing or a liner is added, replaced, or repaired prior BLM approval of the design is required. Use notice of intent Form 3160-5.
- 6. Provide BLM with an electronic copy (Adobe Acrobat Document) cement bond log record from 3000 (just above perforations or below to top of cement taken with 0psig casing pressure. The CBL may be attached to a pswartz@blm.gov email. The CFO BLM on call engineer may be reached at 575-706-2779.
- 7. Do not exceed the approved WFX-941 injection pressure of 624psig with stimulation pump pressure.
- 8. Surface disturbance beyond the existing pad shall have prior approval.
- 9. 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.
- 10. Functional H₂S monitoring equipment shall be on location.
- 11. 2000 (2M) Blow Out Prevention Equipment to be used. All BOPE and workover procedures shall establish fail safe well control. Blind ram(s) and pipe ram(s) designed to close on all workstring diameters used is required equipment. A manual BOP closure system (hand wheels) shall be available for use regardless of BOP design. Function test the installed BOPE to 500psig when well conditions allow. Related equipment, (choke manifolds, kill trucks, gas vent or flare lines, etc.) shall be employed when needed for reasonable well control requirements.

- 12. 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.
- 13. Submit the BLM Form 3160-4 Recompletion Report via BLM's Well Information System; https://www.blm.gov/wispermits/wis/SP (email pswartz@blm.gov for operator setup instructions) within 30 days of the date all BLM approved procedures are complete.
- 14. 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.
- 2) The minimum test pressure should be 500 psig for 30 minutes or 300 psig for 60 minutes, with a minimum 200 psig differential 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). Verify all annular casing vents are plumbed to surface and those valves open to the surface during this pressure test. 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 one hour full rotation chart recorder (calibrated within the last 6 months) 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) Make arrangements 24 hours before the test for BLM to witness. In Eddy County email Paul R. Swartz pswartz@blm.gov or phone 575-200-7902, if there is no response, 575-361-2822. If no answer, leave a voice mail or email with the API#, workover purpose, and a call back phone number.
- 5) 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.
- 6) Submit a (BLM Form 3160-5 subsequent report (daily reports) via BLM's Well Information System; https://www.blm.gov/wispermits/wis/SP (email pswartz@blm.gov for instructions) 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 installed equipment: internally

- corrosive protected tubing, tubing on/off equipment just above the packer. The setting depths and descriptions of each are to be included in the subsequent sundry.
- 7) 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.
- 8) Unexplained significant variations of rate or pressure to be reported within 5 days of notice.
- 9) 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 a full annular fluid level at any time.
- 10) 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.
- 11) Loss of packer fluid above five barrels per month indicates a developing problem. Notify BLM Carlsbad Field Office, Petroleum Engineering within 5 days.
- 12) A suggested format for monthly records documenting that the casing annulus is fluid filled is available from the BLM Carlsbad Field Office.
- 13) Gain of annular fluid pressure requires notification within 24 hours. Cease injection and maintain a production casing pressure of 0psia. Notify the BLM's authorized officer ("Paul R. Swartz" pswartz@blm.gov>, cell phone 575-200-7902). If there is no response phone 575-361-2822.
- 14) A request for increased wellhead pressures is to be accompanied by a step rate test. PRIOR to a Step Rate Test BLM CFO is requiring a Notice of Intent.
- 15) Class II (production water injection) wells will not be permitted stimulation injection pressures that exceed frac pressure.

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.