Form 3160-5 (August 2007)

OCD-HORNOBBS OCD

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

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

MAR 2 1 2015. Lease Serial No NM12612

SUNDRY NOTICES AND REPORTS ON WELLS

6 If Indian, Allottee or Tribe Name

abandoned well.	Use Form 3160-3 (A	NPD) for su	o re-entera Ich proposa	CEIVED is.				
SUBMIT IN TRIPLICATE – Other instructions on page 2.					· ·	7. If Unit of CA/Agreement, Name and/or No		
1 Type of Well					Cooper Jal Uni	t- NM 70926)	(
Oil Well Gas Well Other Injector					8 Well Name and No Cooper Jal Unit #133			
2 Name of Operator Resaca O	perating Company				9 API Well No. 30-025-11161	/		
3a. Address		3b Phone No	(include area c	ode)	10. Field and Poo	ol or Explorato	ry Area	
1331 Lamar Street, Suite 1450	Houston, TX 77010	(432) 580-85		,	Jalmat; T-Y-7R			
4. Location of Well (Footage, Sec., T	,R.,M., or Survey Description)		10.00	11 Country or Pa			
1980 FSL & 1916 FWL, Sec 19, T-24S, R-378	E, Unit Letter K				Lea County, NI	М		
12 CHE	CK THE APPROPRIATE BO	X(ES) TO INI	DICATE NATUI	E OF NOTI	CE, REPORT OR	OTHER DATA	1	
TYPE OF SUBMISSION			T	YPE OF AC	ΓΙΟΝ			
Notice of Intent	Acidize	Dee _l	oen	Pro	duction (Start/Resum	ne) W	ater Shut-Off	
	Alter Casing	Frac	ture Treat	Rec	lamation		ell Integrity	
Subsequent Report	Casing Repair	☐ New	Construction	Rec	omplete	✓ 0	ther Test casing & repair	
	Change Plans	Plug	and Abandon	Tem	porarily Abandon		if necessary, Run MIT	
Final Abandonment Notice	Abandonment Notice Convert to Injection		Back	☐ Wat	er Disposal			
Objective: This injector is currently necessary, run MIT & pull chart. 1.) MIRU Pulling Unit & Above Grod 2.) Pressure Test casing to see if at 3.) If casing leak is found, locate & 4.) Drill out cement & circulate well 5.) Pressure test casing to make su 6.) Run Mechanical Integrity Test (N. 7.) RDMO Pulling Unit, clean location of the proposed o	und Steel Pit. ny casing leaks are found. cement squeeze with approclean. re casing repair was succe Notify BLM & NMOCD prior on, clean & dispose of pit flo	opriate sacks essful. to test). Pull uids.	of cement.	copy to NM		end to test ca	sing, make repairs if	
	COMP	ITIONIC				_		
	COND	MHONS	OF API	'ROVA	AL ,	/estech	ed COA's	
14 I hereby certify that the foregoing is t	rue and correct Name (Printed	VTyped)			0	3/06/2	0/2	
Melanie Reyes			Title Enginee	r Assistant				
Signature /////			Date 02/27/2)12		••		
,	THIS SPACE	FOR FEDE	RAL OR ST	ATE OF	FICE USE			
Approved by						1 -		
	Whitlock Jr		Title 2	PET		Date	19/12	
Conditions of approval, if any, are attached that the applicant holds legal or equitable to the applicant to conduct operations.	thereon the subject	lease which wo	ertify uld Office	CFO				
Fitle 18 U.S.C. Section 1001 and Title 43 fictitious or fraudulent statements or repre	USC Section 1212, make it a c sentations as to any matter with	crime for any pe	rson knowingly a	nd willfully to	o make to any depart	tment or agency	of the United States any false	
SI TOPIO	with	and the jurisdiction						

WELLBORE SCHEMATIC AND HISTORY (Formerly No s 240 & 310) WELL NO 133 WIW CURRENT COMPLETION SCHEMATIC LEASE NAME Cooper Jal Unit API# STATUS Active Water Injector 30-025-11161 1980 FSL & 1916 6 FWL, Sec 19, T - 24S, R - 37E, Lee County, New Mexico LOCATION SPUD DATE 3,296 DF INT COMP DATE 10/10/49 PBTD Perf 2 hotes GEOLOGICAL DATA ELECTRIC LOGS

GR-CBL-CCL from 3104 - 2330' (3-21-94 Halliburton)
Resistarify Log (E-log) from 232 - 3677' (10-10-49 Schlumberger)
GR-N from surface - 3241' (10-13-49 Lane Wells) CORES, DST'S or MUD LOGS Surface
fole Size 11 in
Sig Size 8 5/8 in
Set @ 304 ft
Comb 175
Vas Surface Csg circ cmt to surface TOC @ 225 HYROCARBON BEARING ZONE DEPTH TOPS TOC @ surf TOC by Yates @ 2976 7-Rivers @ 3210' Queen @ 3544' cmt sqz csg leak from CASING PROFILE 250 - 340' SURF 8 5/8" - 32#, J-55 set@ 304' Cmt'd w/175 sxs - circ cmt to surface w/ 500 sxs cmt PROD 5 1/2" - 15 5#, J-55 set@ 3320' Cmt'd w/1000 sxs -TOC @ 225' f/surf by TS Perfd @ 215' & cmt w/100 sxs circ cmt to surf LINER None **CURRENT PERFORATION DATA** CSG PERFS OPEN HOLE 3320 - 3680 12-May-54 Perf d Yates f/ 3053 - 3110' (Yates) 05-Aug-55 Cement Squeeze'd Perfs 3053 - 3110' 05-Aug-55 Perf'd Yates f/ 3182 - 3220' 3245'-78' w/ 1 spf 05-Jun-74 Perf'd Yates f/ 3060 - 3155' w/ 1 spf (25 holes) **TUBING DETAIL** 3/22/1994 ROD DETAIL Length (ft) Detail 10 KB 2908 92 jts - 2 3/8" 4 7#, IPC, J-55, 8rd EUE tbg 3 1-5 1/2" x 2 3/8" Baker Model AD-1 packer 2921 btm WELL HISTORY SUMMARY 12-May-54 Initial completion interval 3320"-3680" (7 RVRS/Queen OH) and perf'd 3053 - 3110" (Yates). Acdz'd w/ 1,000 gals IP = 52 bopd, 0 bwpd, & 55.7 Mcfgpd (flowing) Frac w/ 6,000 gals lse oil & 4,500#'s sand 24-Jul-54 Complete as dual Acdz'd OH w/ 1,000 gals, Frac OH w/ 10,000 gals lse oil & 10,000#'s sand 05-Aug-55 Cmt sq2'd perfs 3053 - 3110' (Yates). Frac'd OH w/ 20,000gals Ise oil & 20,000#'s sand Perf'd (Jalmat) 3182 - 3220' & 3245 - 78' w/ 1 spf. Frac perfs w/ 20,000 gals Ise oil & 20,000#'s sand XX XX Pkr @ 2929 CONVERTED WELL TO DUAL INJECTOR: C/O fill to 3525' Peri'd 3060'- 155' w/ 1 spf (25 holes) & acdz'd w/2,500 gals Yates @ 2976 05-Jun-74 Jalmat 22-Apr-86 Cmt sqz'd csg leak @ 250 - 340' w/ 500 sxs. Acdz'd perfs 3060'-3278' w/ 5,000 gals Perf'd 2 holes @ 215' & circ cmt to surface. Re-sqz'd csg leak 270 - 330' w/ 50 sxs. 2982'-3049' 15-Mar-94 C/O fill from 3647 -80' (33' of fill) Ran GR-CCL-CBL from 3104'-2330' Perf intervals 2982 - 3049' w/ 2 spf (3 intervals -100 holes - 0.56" dia). RIH w/ 2 3/8" IPC tbg & pkr Set pkr @ 2929' Initiated injection @ 672 bwpd, TP=vacuum 01-Oct-94 Based on BLM Form 3160-5 dated October 1994, contained in well file, Subject well will be referred to as Cooper Jai Unit #133 from this date forward **Д** 3053'-59' Tag TD using SL unit (1 1/4" x 5' sinker bar) Tag fill @ 3429' (167' of fill) 3060'-3155' 07-Nov-05 RIH with 1 1/4" x 5' sinker bar and tagged at 3,434'. 21-Apr-09 RU Gray Wireline Ran injection profile Place well on injection Rate/Press: 585 bwpd/684#. 3182'-3220' 7-Rivers @ 3210 3245'-78' Production Csq Hole Size 7 7/8 in Csg Size 5 1/2 in Set @ 3320 ft Sxs Cmt 1100 Circ No Fill at 34341 TOC @ surf OH Interval 3320 - 3680 Queen @ 3544 PBTD 3680 ft TD 3680 ft OH ID ### in PREPARED BY Larry S Adams D Camzales UPDATED 19-May-09

45

Conditions of Approval

Resaca Operating Company Cooper Jal Unit - 133 API 3002511181

March 6, 2012

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.
 - a) 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.
 - b) 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.
 - c) At least 24 hours before the test: In Eddy County email Paul R. Swartz <u>pswartz@blm.gov</u>, (phone 575-200-7902). If there is no response phone 575-361-2822. 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.
 - d) 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.
 - e) Use of tubing internal protection, 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 is required. 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.
 - f) Submit the original subsequent sundry with three copies to BLM Carlsbad.
- 2) 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.
 - i) Submit a subsequent report (Sundry Form 3160-5) describing the installed automation equipment within 30 days.
- 3) Other unexplained significant variations of rate or pressure to be reported within 5 days of notice.
- 4) The casing/tubing annulus is required to be monitored for communication with injection fluid or loss of casing integrity.

- 5) The annulus is to be maintained full of packer fluid at atmospheric pressure. Installation of equipment that will display on site, continuous open to the air fluid level is required. A BLM inspector may request verification of this fluid level at any time.
- 6) **Submit a subsequent report (Sundry Form 3160-5)** describing the installation of packer fluid level monitoring equipment within 30 days of beginning injection.
- 7) The operator shall keep monthly records documenting that the casing annulus is fluid filled. A suggested format for these records is available from the BLM Carlsbad Field Office. Copies of those records shall be furnished at the request of a BLM authorized officer.
- 8) Loss of packer fluid above five barrels per month requires notification of the BLM authorized officer within 5 days.
- 9) Gain of annular fluid requires notification within 24 hours. Cease injection and maintain a production casing pressure of Opsia. Notify the BLM's authorized officer (Paul R. Swartz <u>paul swartz@blm.gov</u> phone 575-200-7902). If there is no response phone 575-361-2822.
- 10) Also submit to this office a (Sundry Form 3160-5) Notice of Intent (NOI) for planned well work involving a formation change, casing repair/replacement, and injection well fracture treatment for approval by BLM and NMOCD. Verbal approval for the plan may be given by a BLM authorized officer, with the NOI filed within five business days. Packer and tubing repair (normal maintance procedures) do not require a NOI, but a subsequent sundry needs to be filed. http://www.blm.gov/nm/st/en/prog/energy/oil and gas.html (see CFR § 3162.3-2 43 & CFR § 3160.0-9 (c)(1)).
 - a) 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 required 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 is required. 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.

PRS 03062012

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

§ 43 CFR 3162.3-2 Subsequent Well Operations.

- a) A proposal for further well operations shall be submitted by the operator on Form 3160–5 for approval by the authorized officer prior to commencing operations to redrill, deepen, perform casing repairs, plug-back, alter casing, perform nonroutine fracturing jobs, recomplete in a different interval, perform water shut off, commingling production between intervals and/or conversion to injection. If there is additional surface disturbance, the proposal shall include a surface use plan of operations. A subsequent report on these operations also will be filed on Form 3160–5. The authorized officer may prescribe that each proposal contain all or a portion of the information set forth in §3162.3–1 of this title.
- (b) Unless additional surface disturbance is involved and if the operations conform to the standard of prudent operating practice, prior approval is not required for routine fracturing or acidizing jobs, or recompletion in the same interval; however, a subsequent report on these operations must be filed on Form 3160–5.
- (c) No prior approval or a subsequent report is required for well cleanout work, routine well maintenance, or bottom hole pressure surveys.

[47 FR 47765, Oct. 27, 1982. Redesigned and amended at 48 FR 36583–36586, Aug. 12, 1983, further amended at 52 FR 5391, Feb. 20, 1987; 53 FR 17363, May 16, 1988; 53 FR 22847, June 17, 1988]

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

(c)(1) The information collection requirements contained in part 3160 have been approved by the Office of Management and Budget under 44 U.S.C. 3507 and assigned the following Clearance Numbers:

Operating Forms

Form No.	Name and filing date	OMB No.
3160–3	Application for Permit to Drill, Deepen, or Plug Back—Filed 30 days prior to planned action	1004-0136
3160–4	With Completion of Recompletion Report and Log—Due 30 days after well completion .	1004-0137
3160–5	Sundry Notice and Reports on Wells—Subsequent report due 30 days after operations completed	1004-0135

The information will be used to manage Federal and Indian oil and gas leases. It will be used to allow evaluation of the technical, safety, and environmental factors involved with drilling and producing oil and gas on Federal and Indian oil and gas leases. Response is mandatory only if the operator elects to initiate drilling, completion, or subsequent operations on an oil and gas well, in accordance with 30 U.S.C. 181 *et seq.*

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

Not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160–5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed.

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