Form 3760-5 August 2007)

UNITED STATESOCD-HORRS

DEPARTMENT OF THE INTERIOR

STATESOCD HORRS

MAR 0 7 201 BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137

HOBBSOC 5. Lease Serial No. LC-063965
6. If Indian, Allottee or Tribe Name

Expires: July 31, 2010

SUNDRY	NOTICES AND REPORTS ON WELLS	
of use this	form for proposals to drill or to re-	

abandoned well.	Use Form 3160-3 (A	to drill or to re-ent NPD) for such prop	er an osals.		
	IT IN TRIPLICATE – Other	r instructions on page 2.		7. If Unit of CA/Ag	reement, Name and/or No.
1. Type of Well					NM 70926X
Oil Well Gas	Well Other Inj	ector		8. Well Name and I	No. Cooper Jal Unit #116
Name of Operator Resaca Operator	ating Company			9. API Well No.	30-025-11141
3a. Address 2509 Maurice Road	Odenna TV 70702	3b. Phone No. (include a	rea code)	10. Field and Pool of	
	Odessa, TX 79763	(432)- 580-8500		Jalmat:T-Y-7Rvrs	; Langlie Mattix: 7Rvrs-Q-Grayburg
4. Location of Well (Footage, Sec., T., 660 Feet from South I	,R.,M., or Survey Description, Line, 660 Feet from West Line, Sect		7E, /	11. Country or Paris	sh, State Lea County, NM
12. CHE	CK THE APPROPRIATE BO	X(ES) TO INDICATE NA	TURE OF NOTION	CE, REPORT OR OT	HER DATA
TYPE OF SUBMISSION		-	TYPE OF ACT	ION	
Notice of Intent	Acidize Alter Casing	Deepen Fracture Treat		uction (Start/Resume)	Water Shut-Off
Subsequent Report	Casing Repair	New Construction		amation mplete	✓ Well Integrity✓ Other Clean out Injector w.
Subsequent Report	Change Plans	Plug and Abando		porarily Abandon	Bit
Final Abandonment Notice	Convert to Injection	Plug Back		r Disposal	
OBJECTIVE: Clean out Injector 1.) MIRU Pulling Unit and Above Grown of tubing and 5 ½"; 3.) POOH w/ 2 3/8" tubing and 5 ½"; 3.) RIH w/ 4 ¾" Bit & 6- 3 ½" Drill Cowner of the following of the	ound Steel Pit. x 2 3/8" Baker Model AD-1 llars on 2 7/8" work string. i641'. I 3410'-3641' w/ approxima AD-1 Tension Packer; circ @ 2980': test annulus to 5	ately 10,000 gallons 90/1	itad naalear fluid		n e.
 RDMO Pulling Unit, clean location Place well on Injection at approx). Clean & dispose of nit flui	ide			
SEE ATTACH	IED FOR				
CONDITIONS	S OF APPROVA	AL .			
4. I hereby certify that the foregoing is tru		Typed)			
Melanie Rey	9S	Title	Engine	eer Assistant	
Signature ///		Date 02/2	2/2011		
	THIS SPACE FO	OR FEDERAL OR	STATE OFFI	CE USE	
	D Whitlock Jr	Title	LPET		3/2/1
onditions of approval, if any, are attached at the applicant holds legal or equitable title title the applicant to conduct operations the	to those rights in the subject le	ot warrant or certify case which would Office	CFO		Date 3///
itle 18 U.S.C. Section 1001 and Title 43 U. ctitious or fraudulent statements or representations.	S.C. Section 1212, make it a crintations as to any matter within	ime for any person knowing	y and willfully to n	nake to any departmen	t or agency of the United States any false,
-4 -4 -4					

OURRENT COMPLETION S		
*^.		EASE NAME Cooper Jal Unit (Formerly No. 235) WELL NO. 116 WIW
3331 I I I	T 77777	TATUS: Active Water Injector API# 30-025-11141
		DCATION: 660 FSL & 660 FWL, Sec 18, T - 24S, R - 37E; Lee County, New Mexico PUD DATE: TD 3641 KB 3,317 DF
		T. COMP. DATE: 03/09/50 PBTD 3641 GL 3,307
		GEOLOGICAL DATA
Surface Csg	GF	ELECTRIC LOGS: CORES, DST'S or MUD LOGS: R-N from 2700 -3631' (2-11-50 Lane Wells)
ole Size: 12 1/4 in	GR	R - N - CCL from 2100 - 3630' (8-31-71 Dresser Atlas)
sg. Size: 9 5/8 in:::: Set @: 243 ft	Inje	ection Profile Log (4-25-95 Houston Inc.)
5xs Cmt: 150		HYROCARBON BEARING ZONE DEPTH TOPS:
Circ: Yes		
TOC @: surf TOC by: circ		Queen @ 3562' Seven Rivers @ 3210' Yates @ 2982'
		CASING PROFILE
111	su	JRF. 9 5/8" - 40#, J-55 set@ 243' Cmt'd w/150 sxs - circ cmt to surf.
1 1 1	PR	ROD. 7" - 20#, J-55 set@ 3410' Cmt'd w/500 sxs - TOC @ 1201' from surf by Temp Survey
111	LIN	NER None
111		CURRENT PERFORATION DATA
	cs	SG. PERFS: OPEN HOLE :
1 1 1		3410 - 3641'
		2980 - 88' (9 holes) 3114 - 20' (7 holes)
	TOC@ 1201'	2996 -3002' (7 holes) 3125 - 40' (16 holes)
	₿ By TS	3024 - 42' (19 holes) 3187 - 91' (5 holes)
		3052 - 58' (7 holes) 3197 - 3208' (12 holes)
		3067 - 77' (11 holes) 3376 - 78' (3 holes)
		3081 - 86' (7 holes) 3384 - 86' (3 holes)
		3103 - 10' (8holes) 3392 - 96' (8 holes)
	TU	BING DETAIL 3/8/1994 ROD DETAIL
	Le:	ength (ft) Detail
		10.00 KB
		2870.02 88 jts - 2 3/8" 4.7#, CPL, J-55, 8rd EUE tbg.
		2.90 1- 5 1/2" x 2 3/8" Baker Model AD-1 packer
		2882.92 btm
	2 3/8" CPL tbg. WEL	LL HISTORY SUMMARY
	202	Mar-50 IC interval: 3410 -3641' (7 RVRS/Queen OH). Shot w/100 qts nitro. IP =15 bopd, 0 bwpd & 2 Mcfgpd (flowing)
	1000	Sep-71 C/O f/ 3600 - 3641' w/ 6 1/4" bit. Ran GR-N-CCL. Perf (Yates & 7 RVRS-Queen) f/ 2980 - 3396' w/ 1 spf (118 holes -
		0.5" dia.). Acdz'd perfs 3376 - 96' w/ 1,000 gals 20% HCL & 12 ballsealers, AIR=5 bpm @ 900 psi. Acdz'd perfs 2980 -
		3208' W/ 4,000 gals 20% HCL & 100 ballsealers, AIR=4.4 bpm @ 1600 psi. Ran new string of 2.3/8" IPC w/ 2. Baker full
		open flow regulaters & two packers. Converted well to dual injector. Initiated injection.
	21-4	Aug-87 C/O OH f/3509'-3641'. Acdz perfs 2980'-3641 & OH 3410'-3641' w/2,500 gals 15% NEFE HCL in 4 stages using 500#'s
		RS diversion between stages. PM=1100 - 800 psi, AIR=2.0 bpm, ISIP=400 psi, P10min=vac. Ran injection string of 2 3/8
	1-0	IPC w/ 2 Baker flow regulators & two packers. Refurbish surface injection line and water filter. Placed well on injection.
383		
	29-N	
	29-N	micellular solvent & 3,000#'s RS in 4 stages. PM=847 - 315 psi, AIR=4.2 bpm, ISIP=467 psi, P5min=370 psi, P10min=300
× ×	X pkr@ 2884' 29-N Yates @ 2982' 08-M	micellular solvent & 3,000#'s RS in 4 stages. PM=847 - 315 psi, AIR=4.2 bpm, ISIP=467 psi, P5min=370 psi, P10min=30 psig. P15min=220 psi. Swab back load. RIH w/inj. Equip. Set pkr@ 2883'. Placed on injection: 624 bwpd @ 300 psi. Mar-94 POOH w/injection string and pkr LD. (Plastic coating peeling out of tbg.) PU & TIH w/new CPL 2 3/8' tbg & pkr. Cound no
× ×	29-N pkr@ 2884' Yates @ 2982' Jaimat	micellular solvent & 3,000#'s RS in 4 stages. PM=847 - 315 psi, AIR=4.2 bpm, ISIP=467 psi, P5min=370 psi, P10min=30 psig. P15min=220 psi. Swab back load. RIH w/inj. Equip. Set pkr@ 2883'. Placed on injection: 624 bwpd @ 300 psi. POOH w/injection string and pkr LD. (Plastic coating peeling out of tbg.) PU & TIH w/new CPL 2 3/8" tbg & pkr. Cound n get pkr to test @ 2915'. PU and reset pkr @ 2884'. Placed well on injection.
× ×	29-N pkr@ 2884' Yates @ 2982' Jalmat = 2980' 07-N	micellular solvent & 3,000#'s RS in 4 stages. PM=847 - 315 psi, AIR=4.2 bpm, ISIP=467 psi, P5min=370 psi, P10min=30 psig. P15min=220 psi. Swab back load. RIH w/inj. Equip. Set pkr@ 2883'. Placed on injection: 624 bwpd @ 300 psi. Mar-94 POOH w/injection string and pkr LD. (Plastic coating peeling out of tbg.) PU & TIH w/new CPL 2 3/8' tbg & pkr. Cound no
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uction Csq. 9: 8 5/8 in 9: 7 in 9: 3410 ft	X pkr@ 2884' 29-N Yates @ 2982' 08-N Jalmat 2980' 07-N 3208' 7-Rivers @ 3210'	micellular solvent & 3,000#'s RS in 4 stages. PM=847 - 315 psi, AIR=4.2 bpm, ISIP=467 psi, P5min=370 psi, P10min=30 psig. P15min=220 psi. Swab back load. RIH w/inj. Equip. Set pkr@ 2883'. Placed on injection: 624 bwpd @ 300 psi. Mar-94 POOH w/injection string and pkr LD. (Plastic coating peeling out of tbg.) PU & TIH w/new CPL 2 3/8" tbg & pkr. Cound no get pkr to test @ 2915'. PU and reset pkr @ 2884'. Placed well on injection.
uction Csg. 0: 8 5/8 in 1: 7 in 1: 3410 ft 1: 500	X pkr@ 2884' 29-N Yates @ 2982' 08-N Jalmat 2980' 07-N 3208' 7-Rivers @ 3210' 3376'	micellular solvent & 3,000#'s RS in 4 stages. PM=847 - 315 psi, AIR=4.2 bpm, ISIP=467 psi, P5min=370 psi, P10min=30 psig. P15min=220 psi. Swab back load. RIH w/inj. Equip. Set pkr@ 2883'. Placed on injection: 624 bwpd @ 300 psi. Mar-94 POOH w/injection string and pkr LD. (Plastic coating peeling out of tbg.) PU & TIH w/new CPL 2 3/8" tbg & pkr. Cound no get pkr to test @ 2915'. PU and reset pkr @ 2884'. Placed well on injection.
uction Csq. 3: 85/8 in 3: 7 in 3: 3410 ft 1: 500 2: No 3: 1201 f/surge	X pkr@ 2884' 29-N Yates @ 2982' 08-N Jalmat 2980' 07-N 3208' 7-Rivers @ 3210' 3376'	micellular solvent & 3,000#'s RS in 4 stages. PM=847 - 315 psi, AIR=4.2 bpm, ISIP=467 psi, P5min=370 psi, P10min=30 psig. P15min=220 psi. Swab back load. RIH w/inj. Equip. Set pkr@ 2883'. Placed on injection: 624 bwpd @ 300 psi. Mar-94 POOH w/injection string and pkr LD. (Plastic coating peeling out of tbg.) PU & TIH w/new CPL 2 3/8" tbg & pkr. Cound no get pkr to test @ 2915'. PU and reset pkr @ 2884'. Placed well on injection.
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duction Csq. te: 8 5/8 in te: 7 in te: 3 410 ft th: 500 to: No to: 1201 f/sur ty: TS	29-N 29-N	micellular solvent & 3,000#'s RS in 4 stages. PM=847 - 315 psi, AIR=4.2 bpm, ISIP=467 psi, P5min=370 psi, P10min=300 psig. P15min=220 psi. Swab back load. RIH w/inj. Equip. Set pkr@ 2883'. Placed on injection: 624 bwpd @ 300 psi. Mar-94 POOH w/injection string and pkr LD. (Plastic coating peeling out of tbg.) PU & TIH w/new CPL 2 3/8" tbg & pkr. Cound no get pkr to test @ 2915'. PU and reset pkr @ 2884'. Placed well on injection.

Conditions of Approval

Resaca Operating Company Cooper Jal Unit #116

March 3, 2011

- 1. Conduct a Mechanical Integrity Test of the tubing/casing annulus any time the packer or tubing is pulled.
 - a. The test pressure should be 500 psig or at least 200 psig above the tubing (at test time) pressure but no more than 70% of burst of casing test pressure as described by Onshore Order 2.III.B.1.h. (The reservoir pressure may need to be reduced). Trap that pressure and record it on a chart for 30 minutes.
 - b. Less than a 10% leakoff may not restrict injection approval. Any leak-off will be evaluated. Document the MIT on a calibrated recorder chart within 25 to 85 per cent of its full range. Notify Paul R. Swartz at 575-234-5985 and/or 575-200-7902 at least 24 hours before the test. If there is no response, notify the BLM on call drilling phone, 575-361-2822.
 - c. Submit the recorded MIT chart with a subsequent Sundry Form 3160-5 relating the MIT activity. Include the original and three copies of the recorded chart and Sundry. (the original will be returned to the operator)
- 2. Submit documentation, (NMOCD permit number) of the maximum tubing injection pressure allowed by NMOCD.
 - a. Approved injection pressure compliance is required.
 - b. Display real time tubing pressure values onsite. A bourdon tube gauge registering 25% to 85% of its full range is acceptable.
 - c. If injection pressure exceeds the maximum approved pressure you will be required to notify the BLM within 24 hours.
 - d. 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.
 - e. Other unexplained significant variations of rate or pressure will be reported within 5 days of notice.

- 3. The casing/tubing annulus will be required to be monitored for communication with injection fluid or loss of casing integrity.
 - a. The use of automation equipment that will monitor and alarm is required when packer, tubing, or casing competence is questionable (such as pressure change during a MIT).
 - b. The annulus shall be maintained full of packer fluid at atmosphere pressure.
 - i. Verification of fluid level to a BLM inspector at any time is required.
 - c. Any loss of packer fluid above (5bbl/mth) requires notification to the BLM authorized officer.
 - d. Any gain of annular fluid requires notification to the BLM authorized officer within 5 days.
 - e. Should a failure be detected, cease injection and maintain a production casing pressure of Opsig. Notify the BLMs authorized officer (Paul R. Swartz at 575-200-7902) within 24 hours. If there is no response, notify the BLM on call drilling phone, 575-361-2822.
 - f. Also submit to this office a (Sundry Form 3160-5) Notice of Intent (NOI) for approval by BLM and NMOCD a plan for correction and the anticipated date of correction.
 - g. After the repairs submit a (Sundry Form 3160-5) Subsequent report, describing the repair(s) and Mechanical Integrity Test as per item 1 above.
 - i. Include the date(s) of the well work, descriptions of tubing, on/off equipment, profile nipple installation, and packer setting depth.