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Submit I Copy To Appropriate District	State of New Mexi	co		Form C-103		
Office District I (575) 393-6161	Energy, Minerals and Natura	l Resources		Revised July 18, 2013		
1625 N. French Dr., Hobbs, NM 88240	3BS OCD		WELL API NO.			
$\frac{District n}{1} = (373)74671283$ 811 S. First St., Artesia, NM 88210	OIL CONSERVATION D	DIVISION	5 Indicate Type of Le	286		
District III – $(505)$ 334-6178	is Dr.	STATE FEE				
District IV – (505) 476-3460	Santa Fe, NM 875	05	6. State Oil & Gas Lease No.			
220 S. St. Francis Dr., Santa Fe, NM		306443				
SUNDRY NOT	CES AND REPORTS ON WELLS		7. Lease Name or Uni	t Agreement Name		
DO NOT USE THIS FORM FOR PROPOS	BACK TO A					
PROPOSALS.)	ATION FOR PERMIT (EORM C-101) FOR		COOPER JAL UNI	<u>T</u>		
. Type of Well: Oil Well	Gas Well Cother INJECTOR	)	8. Well Number 135	· · · · · · · · · · · · · · · · · · ·		
2. Name of Operator			9. OGRID Number			
Address of Operator		10. Pool name or Wildcat				
PO BOX 1084	18, MIDLAND, TX 79702		Jalmat; T-Y-7R; Langlie Mattix; 7R-Q-G			
Well Location						
Unit Letter O :	990 feet from the SOUTH	line and 19	80 feet from the	EAST line		
Section 24	Township 24S	Range 36E	NMPM	County LEA		
	11. Elevation (Show whether DR, R	KB, RT, GR, etc.)		8		
	3312' GL					
NOTICE OF IN ERFORM REMEDIAL WORK EMPORARILY ABANDON ULL OR ALTER CASING OWNHOLE COMMINGLE CLOSED-LOOP SYSTEM THER: CLEAN OUT & DEEPEN 13. Describe proposed or compl of starting any proposed wo proposed completion or reco	TENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPL C leted operations. (Clearly state all per rk). SEE RULE 19.15.7.14 NMAC. ompletion.	SUBS REMEDIAL WORK COMMENCE DRIL CASING/CEMENT DTHER: tinent details, and For Multiple Com	BEQUENT REPOR	RT OF: ERING CASING ND A Cluding estimated date bre diagram of		
				1010		
pud Date:	Rig Release Date	:				
hereby certify that the information a	above is true and complete to the best	of my knowledge	and belief.			
ereby certify that the information a	above is true and complete to the best	of my knowledge EGULATORY TE	and belief.	03/06/2014		
hereby certify that the information a IGNATURE	above is true and complete to the best	of my knowledge EGULATORY TE pina@legacylp.com	and belief. <u>CH</u> DATE_C <u>n</u> PHONE	<u>3/06/2014</u> : <u>432-689-5200</u> 3/12/2014		

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## PROCEDURE TO CLEAN OUT AND DEEPEN Cooper Jal Unit #135 WIW API: 30-025-09641 Lea County, New Mexico 02/25/2014 AFE #: 214024

## WELL SUMMARY & OBJECTIVE:

The subject well is an active water injector in the Cooper Jal Unit. The well was last cleaned out to 3,530' in January 2011. This AFE will provide funds to clean out to 3,650 ft. (current TD) and deepen the well to 3,780' (through the Queen Formation). Upon deepening, the well will be acid stimulated and once a Mechanical Integrity Test is achieved, the well will be returned to Water Injection.

## **PROCEDURE:**

- 1. Test anchors prior to moving in Pulling Unit.
- 2. Hold pre job safety meeting and MIRU PU.
- 3. Kill well if necessary. ND tree & NU BOP.
- 4. Unset pkr & POOH with tbg.
- 5. PU shoe, 1 jt wash pipe, drill collars and 2-7/8" WS.
- **6.** RIH to top of fill, circulate hole and clean out to top of RBP (w/ pieces of CIBP above it) at 3,530'.
- 7. Attempt to mill over RBP & junk with shoe and wash pipe to TD of 3,650'. Drill 3-5' new formation core with shoe & POOH. If unsuccessful, skip to acid treatment, step 11. Otherwise proceed with step 8 once RBP has been removed.
- 8. PU 4-3/4" bit and drill collars. TIH with WS and drill new hole to 3,780'.
- 9. At new TD of 3,780', circulate hole clean and POOH.
- 10. PU treating pkr on WS. RIH and set pkr at +/- 2,980'.
- **11.** MIRU Acid Company and acidize down tubing with 10,000 gals of 15% HCL acid and 10,000 lbs of rock salt. Pump acid and rock salt at 5 to 10 BPM with a max surface treating pressure of 4500 psig. Pump acid stages alternating acid and rock salt in brine water.
  - a. Pump 1000 gals acid
  - **b.** Pump 700#'s rock salt in brine water
  - c. Pump 1500 gals acid
  - **d.** Pump rock salt stage and increase or decrease rock salt based on pressure response of previous diversion stage.
  - e. Pump 2000 gals acid

- f. Pump rock salt stage. Choose rock salt volume based on pressure response
- g. Pump 2500 gals acid
- h. Pump rock salt stage. Choose rock salt volume based on pressure response
- i. Pump 3000 gals acid
- j. Displace acid to top perf with 2%KCL water
- **12.** Obtain 5, 10, & 15 minute SIP's and flow back load if well has surface pressure. RDMO acid company.
- **13.** If no flow back, RU swab and swab back load.
- 14. Unset pkr. POOH and LD pkr.
- 15. RIH w/ WS with notch collar and clean out rock salt to 3,780'.
- **16.** POOH & PU Injection Packer. Hydrotest in the hole to +/- 2,960' (shallowest depth packer can be set is within 100' of top perf at 3,019').
- 17. Circulate packer fluid around backside and set packer.
- **18.** ND BOP & NU tree.
- 19. Test packer to 500 psi for 30 minutes, to ensure it will pass MIT.
- 20. RDMO PU.
- **21.** Perform MIT. Upon approval from NMOCD, return well to injection.

PREPARED BY:\_\_\_\_\_ DATE:\_\_\_\_\_

APPROVED BY:\_\_\_\_\_ DATE:\_\_\_\_\_

Field:	Cooper Jal Unit

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Footage

Block: Surve

County:

Lat

KB: KB Calc ck w/log

Date

1-Mar-54

9-Sep-54

15-Jun-73 8-Oct-74 11-Feb-75

29-Aug-86

30-Sep-86

13-Feb-87 9-Sep-87 22-Jul-88 1-Oct-93

15-Nov-93 9-Jan-94 5-Dec-94

2-Apr-99

14-Feb-02

7-Nov-05 24-Mar-08

10-Jul-08

27-Apr-09

18-Jan-11

Joints

90

Rods

Long



Updated: 01/13/14 MLS

Field:	Cooper Jal Unit			CJU PROF	#135 POSED		Reservoir:	Cooper Jal
	Location:						Well ID Info:	CJU #135
Footage:	990 FSL & 1980 FEL		We	llbore	Diagr	am	API No:	30-025-09641
Section:	Sec. 24, T-24S, R-36E						Init. Comp. Date:	3/1/1954
Block:			<b>花</b> 茶			26	<b></b>	
Survey:						33	Hole Size:	11"
County:	Lea, New Mexico		橋			48	Surface Csg:	8-5/8", 28#, J-55
Lat:			146			C.	Set @ Comont w/	125 cu
Long.	Elevations:					Т,	Circ:	Yes
GL:	3.312		10.1			5	TOC:	Surface
KB:	3.318					41		
KB Calc:	6		2			Δ		
ck w/log?	Yes							7 7/01
Data	History						Hole Size:	7-7/8" 5 1/2" 14# (20 ito ) 15 5# (50 ito ) 155
1-Mar-54	Initial completion interval: 3472 - 3575' (7 BVRS	Oueen OH) Natural		1			Set at:	3472'
	completion. IP= 51 bopd, 0 bwpd, & 72 Mcfgpd	(flowing)					Cement:	400 sx
9-Sep-54	Frac w/ 4,000 gals ise oil & 4,000#'s sand.	X/			1		Circ:	No
15-Jun-73	Placed well on rod pump.						TOC:	2728' from surface by cement bond log
8-Oct-74	C/O fill to 3575'. Jetwash OH 3472 - 3575'			1	11			
29-Aug-86	1 agged for full - No fill.	0' Ran CBL TOC @ 2728'						
23-7409-00	Acdz'd OH (3472'-3650') w/2.000 gals: Frac'd w	/34 000 gals X-L gel carring						
	80,000#'s 12/20 sand in 2 equal stages. Max sa	nd conc. of 7 ppg. C/O to				97 I	TOC @ 2728' by CE	3L.
	3650'.					1		
30-Sep-86	Perf (Jalmat) f/ 3019'-3210' w/ 2 spf. (84 holes	total) & 3285 - 3362' w/ 1 spf	21.02			4		
	[∠1 noies total). Acdz'd all open perfs w/2.000 c (abl corrigo 50,000#'s 12/20 coord in 2 course store)	Jais: Frac w/ 30,000 gals X-L				37.		
	sand concentration 7 ppg. C/O to 3650' Lost R	BP in OH. Top @ 3530'.				1		
	CONVERTED TO COMINGLED DOWNHOLE I	NJECTOR. (Jalmat & Langlie				1		
	Mattix)							
13-Feb-87	C/O OH fill from 3472 - 3524' (52' fill). PBTD @	3524'.				8		
9-Sep-87	C/O OH fill from 3495 - 3524' (29' fill). PBTD @	3524'.	動類			1		
22-JUI-00	Administration Order No.648 Approved Order N	3524.	200					
1-041-55	Waterflood Expansion.	10.112013 8 11-4020 101			11			
15-Nov-93	Replaced 2 its tbg & rod pmp. Placed well on p	roduction.			11	3		
9-Jan-94	Ran 91 jts - 2 3/8" tbg & pkr. Set pkr @ 2956'.					A. C.		
5-Dec-94	LD rods & pmp (junk). C/O to 3524' (scale & for	mation), Tagged solid @			1	14		
	13524". Acdz'd pens & UH w. 8,400 gals 20% NI	AIR=3 hom PM=500-126				23		
	psi, ISIP= 280 psig, P5min= vacuum, Ran 2 3/8	"CL tbg & pkr. Set pkr @	200			8		
	2956'. Inject @ 933 bwpd, TP=vacuum.		and a	$\overline{\mathbf{x}}$	$\infty$	44	pkr @ 2930'	
2-Apr-99	Reset pkr @ 2925'. Tst csg & pkr @ 500 psi. C	K. Initiate injection @ 580				1		
44.5-1-00	bwpd, TP=580 psi.					1	V	
17-Nov-05	Bill with 1 1/4" x 5' sinker bar and tagged at 3 2	1g till @ 3524 (137 0f till)			ļ	10	rates @ 3017	
24-Mar-08	POOH w/ 2 3/8" IPC tbg & 5 1/2" AD-1 PKR. RI	H w/ 4 3/4" bit & DCs, tagged	繊維				3019'-3097'	
	@ 3157'. Cleaned out to 3530'. RIH w/ 5 1/2" Al	0-1 and 2 3/8" IPC tbg.			ļ			
	Circulated w 70 bbls 2% KCl. Set PKR @ 2923'	press annulus to 420 psig	調調		ļ	5		
10-10-08	For 30 minutes.	15% NEEE HCLAIR= 4.5					3102-3194	
10-00-00	bpm Pavg= 1590 psi, ISIP= 920 psi, Prior Rate/	Press: 389 bpd @ 949 psi.	120				5102-5154	
	After Rate/Press: 485 bpd @ 790 psi.				Í	fài		
27-Apr-09	RU Gray Wireline. Tagged @ 2,962' w/ logging	tool, RD wireline. Place well	100				3201', 3203', 3210'	
19 100 11	on injection. Rate/Press: 441 bwpd/904#.				ļ	<u></u>	7-R @ 3236'	
10-341-11	Cleaned from 3 480' to 3 530' BIH with 5 1/2"	oc-Set PKR & set at 2 930			i		5205-5502	
	Acid treat Jalmat & langlie Mattix with 11,500 ga	als 20% NEFE HCI (90/10.	1				3358'-3362'	
	acid/Xylene). Diverted with 25,000#.AIR= 6 bpm	1. Pavg= 1650 psi, ISIP= 1020	225		ĺ			
	psi. RIH w/ IPC Tbg. MIT, Pull Chart for OCD. P	rior: 321 bwpd @ 801# After:	226			1		
	рвв bwpd @ 500#.					1		
}			2		ļ	ک	OH Interval: 3472'-	3780'
	t						OH ID: 4-3/4"	
				1				
	<u> </u>			1				
L	L				l			
	Tubing Detail (top to bottom)			l l				
Joints	Description	Footage Depth						
<u>├</u>	2 2/0" 4 7# IDC 1 55 Ped EUE the sub	10 10						
1	2-3/8" 4.7#, IPC, J-55, 8rd EUE tha sub	8 18						
90	2-3/8" 4.7#, IPC, J-55, 8rd EUE tbg	2,900 2,918					Queen @ 3609'	
1	On/Off Tool & Profile Nipple	1 2,919					-	
1	2-3/8" x 5-1/2" Baker Model Loc-Set Packer	3 2,922						
<u> </u>								
	1			1				
	Bad Datail (In the heathers)	I						
Rods	Description	Footage Depth		ļ				
		Bopin			[			
				0070	3790			
F				TD	3780			
L				10	3100			

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Updated: 02/25/14 MLS