

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-11134
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No. 141560
7. Lease Name or Unit Agreement Name COOPER JAL UNIT
8. Well Number 102
9. OGRID Number 240974
10. Pool name or Wildcat Jalmat; T-Y-7R; Langlie Mattix; 7R-Q-G

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
LEGACY RESERVES OPERATING LP

3. Address of Operator
PO BOX 10848, MIDLAND, TX 79702

4. Well Location
Unit Letter B : 660 feet from the NORTH line and 1980 feet from the EAST line
Section 18 Township 24S Range 37E NMPM County LEA

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3202' GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☒
OTHER: ☐

E-PERMITTING

R P&A NR
C INT TO P&A
C CSNG
TA TA

P&A R P.M.
COMP COMP
CHG Loc CHG Loc
RBDMS CHART RBDMS CHART

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

---SEE ATTACHED P&A PROCEDURE ALONG WITH CURRENT AND PROPOSED WELLBORE DIAGRAMS---

**The Oil Conservation Division
MUST BE NOTIFIED 24 Hours
Prior to the beginning of operations**

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Laura Pina TITLE REGULATORY TECH DATE 01/06/2015

Type or print name LAURA PINA E-mail address: lpina@legacylp.com PHONE: 432-689-5200

For State Use Only

APPROVED BY: Mary Brown TITLE Dist. Supervisor DATE 1/8/2015

Conditions of Approval (if any)

JAN 13 2015

PROCEDURE TO PLUG AND ABANDON

Cooper Jal Unit #102

Langlie Mattix (7-Rivers, & Queen) Field

Lea County, New Mexico

12/15/14

AFE# 615003

GENERAL WELL DATA

- 13-3/8" – 54.5# surface csg @ 66', cmt'd w/70 sxs. TOC surface by circ.
- 8-5/8" – 24# csg @ 1240', cmt'd w/250 sxs. TOC @ 600' by calc.
- 5-1/2" – 14# prod. csg @ 3,462', cmt'd w/100 sxs. TOC @ 2410' by calc.
Squeezed 210 sxs. @ 1450'
- TD @ 3,898'
- PBTD @ 3,737'
- Yates perms: 2,912' – 3,204'
- 7-Rivers perms: 3,208'–3,410'
- Queen open hole: 3,462'–3,737'

OBJECTIVE: *Plug and Abandon Well.*

PROCEDURE

1. Hold Safety Meeting. High concentrations of H2S may be present. MIRU plugging equipment.
2. Kill well if necessary and ND WH, and NU BOP.
3. POOH with rods, PCP rotor, tbgs, and PCP stator.
4. PU CIBP & work string and RIH and set CIBP @ 2850'.
2ND.
5. Circulate well with mud.
6. Spot 40 sxs of cement on top of CIBP; 2,850' – 2,635'.
7. PU to 1500' and spot 75 sxs of cement @ 1,500' – 1,100'.
8. POOH with work string. WOC.
9. Tag top of plug @ 1,100'.
10. Pick up perf gun and perf 5-1/2" csg @ 200'.
11. POOH wireline.
12. Pump & squeeze 75 sxs of cement down casing into perms at 200' and circulate cement to surface.
Cement should be on backside of 5-1/2" & 8-5/8" casing.
13. RDMO plugging equipment.

← 1st ATTEMPT TO SET
CIBP @ 3206'. CAP
W/ 255XS CMT.

14. ND BOP.

15. Cut off well head and weld on marker.

APPROVED BY: Shawn Young DATE: 12/15/14

WELLSBORE SCHEMATIC AND HISTORY			
CURRENT COMPLETION SCHEMATIC		LEASE NAME	WELL NO.
		Cooper Jal Unit	102
		STATUS:	Oil
		API#	30-025-11134
		LOCATION:	660 FNL & 1980 FEL, Sec 18, T - 24S, R - 37E, Lee County, New Mexico
		SPUD DATE:	TD 3.898' KB 3.312' DF
		INT. COMP. DATE:	09/05/45 PBTD 3.737' GL 3.302'
		ELECTRIC LOGS:	GEOLOGICAL DATA
		GR-N (8-17-48 Lane Wells)	CORES, DST'S or MUQ LOGS:
		Yates @ 2920'	Seven Rivers @ 3150'
		HYDROCARBON BEARING ZONE DEPTH TOPS:	Langille Matrix @ 3462'
		CASING PROFILE	
		SURF. 13 3/8" - 48#, H-40 set @ 66' Cmt'd w/70 sxs - circ cmt to surf.	
		INTR. 8 5/8" - 22.7#, H-40 set @ 1240' Cmt'd w/250 sxs - TOC calc. @ 690' from surf.	
		PROD. 5 1/2" - 14#, J-55 set @ 3462' Cmt'd w/100 sxs - TOC calc. @ 2410' from surf.	
		CURRENT PERFORATION DATA	
		CSG. PERFS:	
		OPEN HOLE : 3462'-3898' (7-R & Queen)	
		24-Jun-03 Perf'd Yates f/ 2912'-15', 2933'-45', 2951'-57', 2962'-66', 2970'-80', 2982'-86', 2994'-3000', 3004'-10', 3007'-12', 3018'-20', 3022'-32', 3037'-43', 3044'-53', 3054'-63', 3067'-78', 3081'-85', 3087'-89', 3110'-20', 3130'-34', 3141'-43', 3145'-48', 3171'-73', & 3185'-3204'. Perfs @ 1 JHPF, 180 degree phasing	
		24-Jun-03 Perf'd 7-Rivers f/ 3208'-18', 3335'-37', 3382'-86', 3392'-99', 3405'-3360' & 3383'-74'. Perfs @ 1 JHPF, 180 degree phasing. Perfs @ 1 JHPF, 180 degree phasing. Total: 200 feet, 229 holes.	
		TUBING DETAIL 3/24/09 ROD DETAIL 3/24/09	
		10' KB KB 16 1 1 1/4" X 22' PR w/ 7/8" Pin	
		2816 88 2 7/8" J-55 6.5# 8rd tubing 0 1 1 1/4" x 1 1/1" Liner	
		8 1 3 1/2" x 8' Lift Sub 2800 112 1" KD rods	
		20 1 4 1/2" x 20' Stator 2 1 2' - 1" pony rod	
		31 1 2 7/8" J-55 8.5# 8rd tubing 21 1 1 1/2" x 21' Rotor	
		3 1 2 7/8" x 5 1/2" TAC 2839	
		2878	
		TOC @ 2410'	
		By Calc.	
		WELL HISTORY SUMMARY	
		1-Sep-45 Initial completion interval: 3462 - 3558' (Queen OH). IP = 62 bopd, 0 bwpd, 0 Mcf (flowing)	
		16-Jul-49 Deepened to 3580' and shot OH w/ 160 qts nitro.	
		28-Oct-52 Frac w/ 3,000 gals oil & 3,000#s sand. Pmax=6200 psi	
		9-Jan-58 C/O fill from 3497 - 3577'. After WO: 18 bopd	
		16-Sep-69 C/O fill from 3562 - 3580'.	
		15-Sep-88 C/O w 4 3/4" bit - bridge f/3488 - 98', & OH fill f/3524 - 80'. Before WO: 5.6 bopd /201 bwpd & 12 Mcf/gpd	
		After WO: 35.7 bopd, 222.4 bwpd, & 21.2 Mcf/gpd: GOR=593, API gvty=36.7	
		24-Feb-00 TOOH & LD rods, pump, & tbg. Set CIBP w/ WL @3400'. Spot 25 sxs cmt on CIBP. Spot 40 sxs cmt f/ 2970'-2700'. Perf'd 6' shots at 1450'. Set pkr @ 1000' & cmt sqz 60 sxs into perfs. ISIP=200 psi. WOC. Tagged TOC @ 1135'. Set 15 sxs cmt from 300' - surf. Installed Dry hole, arler & cleaned location. NMOCD notified - well P&A'd 2-28-2000'	
		8-Oct-02 Re-enter P&A well. Ran CCL-CBL f/ 3370' to surf - TOC @ 2663'. Sqz csg leak 1446'-1450' w/150 sxs Class "c" cmt. Drilled CIBP at 3400'. Fish cable & D/O junk in OH. Deepen f/ 3580' to 3898'. Encountered water flow f/ Grayburg zone. PWOP.	
		3-Jan-03 Pumping all water w/ a high fluid level. Prod. log showed majority fluid entry at 3800' - GB zone. Plugged off water. Perf'd 6 shots @ 1450'. Set pkr @ 1000' & cmt sqz 60 sxs into perfs. ISIP=200#. Tagged TOC @ 1135'. Set 15 sxs cmt. Wash open hole 3462'-3737' w/ surfactant 2 % KCl water. Acidize open hole w/ 3,000gallons 15% NEFE. PWOP.	
		31-Jan-03	
		20-Feb-03 RU Service Co. Frac'd well w/ 52,000 lbs 16-30 mesh sand in 3 stages using 3500 lbs RS to divert. ISIP - 1170#. PWOP.	
		4-Mar-03 Tagged @ 3684', tally out of hole. Did not change out pump.	
		8-Apr-03 Hole in tubing. C/O to 3696'. Hydrotest tubing in hole at 7300 psi - busted 1 joint. Tagged at 3690'. Change out pump.	
		24-Jun-03 POOH w/ rods, pump, & tbg. RIH w/ 4 3/4" bit @ 3460'. RIH w/ 5 1/2" RBP & set @ 3451'. Test to 2000#-held. Perf'd Yates w 4" gun, 1 JHPF, 180 degrees phasing f/2912'-3204', Perf'd Seven Rivers f/ 3208'-3410'. Total: 200 feet, 229 holes. RIH w/ 5 1/2" Dual Frac PKR on 3 1/2" tubing and set at 3279'. RU Weatherford, Acidized Seven Rivers (3335'- 3410') w/ 1500 gals diverting w/ 80 - 1.1 SG RCN BS. Had some ball action. Frac with 36,709 gals DynaFrac 25 (25# XL Borate in 2% KCl water) plus 50,000# 16/30 Brady sand. Screened put w/ 46,000# in formation. Pumped down casing while stinging out Frac Packer System, reverse circulating frac sand out of tubing @ 2800'. PUH with PKR & set @ 2800'. Acidized Yates & Upper 7-Rivers (2912'-3218') with 3500 gallons 15 NEFE HCl acid @ 4-6 BPM diverting with 250 1.1 SG RCN ball sealers. Had some ball action, did not balled out. Frac'd at 35 BPM with 46,369 gals 30 (30# XL Borate in 2% KCl water) plus 100,000# 16-30 mesh Brady Sand. ISIP= 765 psig. Shut in over night. Open well next day - bled down in 15 min. POOH & laid down 3 1/2" tubing, packer system, and RBP. Cleaned out with bailer from 3640' to 3705'. RIH production string. Re-spaced well with setting TAC at 2888' and SN at 3199'.	
		05-Jul-03 Replaced bent polish rod and liner.	
		07-Jul-03 Re-spaced well.	
		11-Jul-03 POOH with rods, pump, and tubing. RIH with 2 7/8" notch collar, clean out from 3671' to 3705'. PWOP.	
		15-Aug-03 Install Dual Head to run production log.	
		19-Aug-03 Could not log due to Dual Head with wrong angle.	
		20-Aug-03 Ran production log: Cap & Temp indicated water entry from 3392'-3399' and oil entry @ 3642'.	
		26-Nov-03 Parted 7/8" rod (body break) 7th 7/8" rod. Replaced 1 - 7/8" rod. Hung well, good pump action.	
		11-Nov-03 Parted 7/8" rod (body break) 6th 7/8" rod. Replaced 1 - 7/8" rod. Hung well, good pump action.	
		06-Dec-03 Parted 7/8" rod (body break) 106th 7/8" rod. Hydrotest tubing in hole to 7000 psig - collar leak 112 jts down.	
		17-Dec-03 HIT. POOH w/ rods & pump. Tagged & tallied out of hole w/ tubing. Cleaned fill w/ notch collar f/ 3677' to 3721'. POOH and laid down tubing string & notch collar. Recovered 60 feet of sand & formation. RIH w/ new 2 7/8" tubing string.	
		02-Feb-04 Parted 3/4" rod, 106 rods down. Laid down working barrel. RIH with pump and rods. PWOP.	
		21-Sep-04 POOH w/ rods, pump & tbg, tagged at 3672'. Hydrotest tbg to 7000# - burst jt 106. Replaced 7 - 1" & 9 - 3/4" boxes. PWOP.	
		22-Dec-04 POOH w/ rods, pump & tubing. RIH with Super Max blast joint. PWOP.	
		21-Nov-05 Replaced parted 105th 3/4" rod (body break). Laid down 6 - 1" & 27 - 3/4" rods due to pitting. Load and test pump. PWOP.	
		31-Dec-08 POOH with rods, pump and tubing. Isolate casing leak @ 1450'. RIH with tubing, pump and rods. PWOP.	
		12-Feb-09 POOH w/ rods, pump & tbg. RIH w/ 4 3/4" bit, 6 - 3 1/2" DCs on 2 7/8" tbg. Air drilled f/ 3,668' to 3,738'. Drilled to 3,898', TD. RIH w/ SUB pump on 2 7/8" IPC tbg. Cable shorted out. Re-ran SUB pump to 2305'. Rate: 1900 BWPD. POOH w/ pump - not enough rate. Set PKR @ 3,422'. pumped 85 bbls wtr - no communication between perfs & OH. Acidized OH w/ w/ 12,000 gals 15% NEFE acid. Pavg= 1360#. ISIP= vac. Swabbed 90 bbls in 5 hrs, F/L @ 2000'. RIH w/ BHP Tool. Recovered BHP Tool and 3 jts of frac sand. C/O f/ 3,717' to 3,898'. Swabbed fluid level @ 2,000'. RIH w/ stator on prod string. RIH w/ rotor on rods.	
		23-Mar-09 POOH w/ parted 1" x 1" Rotor lift sub. POOH w/ tbg & Rotor - found sand in Stator. RIH w/ Stator, tbg, Rotor & rods. PWOP.	
		15-Sep-09 POOH with parted polish rod. Replaced polish rod. PWOP.	
		Production Csg.	
		Hole Size: 7 7/8" in	
		Csg. Size: 5 1/2" in	
		Set @: 3462 ft	
		Circ: No	
		TOC @: 2410 ft f/ surf.	
		TOC by: calc.	
		PBTD: 3,737' ft	
		TD: 3,898' ft	
		OH ID: 4 3/4 in	
		PREPARED BY: Larry S. Adams D. Carrizales	
		UPDATED: 28-Sep-09	

WELLBORE SCHEMATIC AND HISTORY			
PROPOSED			
CURRENT COMPLETION SCHEMATIC		LEASE NAME Cooper Jal Unit	WELL NO. 102
		STATUS: Oil	API# 30-025-11134
		LOCATION: 690 FNL & 1980 FEL, Sec 18, T. 24S, R. 37E, Lee County, New Mexico	
		SPUD DATE: 3,898'	
		INT. COMP. DATE: 09/05/45 PBD: 3,737'	
		GEOLOGICAL DATA	
		ELECTRIC LOGS: GR-N (8-17-48 Lane Wells)	
		CORES, DST'S, or MUD LOGS: NONE	
		HYDROCARBON BEARING ZONE DEPTH TOPS: Yates @ 2920' Seven Rivers @ 3150' Langlie Matrix @ 3462'	
		CASING PROFILE	
		SURF. 13 3/8" - 48#, H-40 set @ 66' Cmt'd w/70 sxs - circ cmt to surf.	
		INTR. 8 5/8" - 22.7#, H-40 set @ 1240' Cmt'd w/250 sxs - TOC calc. @ 690' from surf.	
		PROD. 5 1/2" - 14#, J-55 set @ 3462' Cmt'd w/100 sxs - TOC calc. @ 2410' from surf.	
		CURRENT PERFORATION DATA	
		CSG, PERFS: 24-Jun-03 Perf'd Yates f/ 2912'-15', 2933'-45', 2951'-57', 2962'-66', 2970'-80', 2982'-86', 2994'-3000', 3004'-10', 3007'-12', 3018'-20', 3022'-32', 3037'-43', 3044'-53', 3054'-63', 3067'-78', 3081'-85', 3087'-89', 3110'-20', 3130'-34', 3141'-43', 3145'-48', 3171'-73', & 3185'-3204'. Perfs @ 1 JHPF, 180 degree phasing	
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		28-Oct-52 Frac w/ 3,000 gals oil & 3,000#'s sand. Pmax=6200 psi	
		9-Jan-58 C/O fill from 3497 - 3577'. After WO: 18 bopd	
		16-Sep-69 C/O fill from 3562 - 3580'.	
		15-Sep-88 C/O w 4 3/4" bit - bridge f/3488 - 98' & OH fill f/3524 - 80'. Before WO: 5.6 bopd /201 bwpd & 12 Mcfgpd	
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		24-Feb-00 TOOH & LD rods, pmp, & 2 3/8" tbg. Set CIBP w/ VWL @ 3400'. Spot 25 sxs cmt on CIBP. Spot 40 sxs cmt f/ 2970'-2700'. Perf'd 6' shots at 1450'. Set pkr @ 1000' & cmt sqz 60 sxs into perfs. ISIP=200 psi. WOC Tagged TOC @ 1135'. Set 15 sxs cmt from 300' - surf. Installed Dry hole arler & cleaned location. NMOCD notified - well P&A'd 2-28-2000'	
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		05-Jul-03 Replaced bent polish rod and liner.	
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		11-Jul-03 POOH with rods, pump, and tubing. RIH with 2 7/8" notch collar, clean out from 3671' to 3705'. PWOP.	
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		19-Aug-03 Could not log due to Dual Head with wrong angle.	
		20-Aug-03 Ran production log: Cap & Temp indicated water entry from 3392'-3399' and oil entry @ 3642'.	
		26-Nov-03 Parted 7/8" rod (body break) 7th 7/8" rod. Replaced 1 - 7/8" rod. Hung well, good pump action.	
		11-Nov-03 Parted 7/8" rod (body break) 6th 7/8" rod. Replaced 1 - 7/8" rod. Hung well, good pump action.	
		06-Dec-03 Parted 7/8" rod (body break) 106th 7/8" rod. Hydrotest tubing in hole to 7000 psig - collar leak 112 jts down.	
		17-Dec-03 HIT. POOH w/ rods & pump. Tagged & tallied out of hole w/ tubing. Cleaned fill w/ notch collar f/ 3677' to 3721'. POOH and laid down tubing string & notch collar. Recovered 60 feet of sand & formation. RIH w/ new 2 7/8" tubing string.	
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		21-Sep-04 POOH w/rods, pump & tbg, tagged at 3672'. Hydrotest tbg to 7000# - burst jt 106. Replaced 7 - 1" & 9 - 3/4" boxes. PWOP.	
		22-Dec-04 POOH w/rods, pump & tubing. RIH with Super Max blast joint. PWOP.	
		21-Nov-05 Replaced parted 105th 3/4" rod (body break). Laid down 6 - 1" & 27 - 3/4" rods due to pitting. Load and test pump. PWOP.	
		31-Dec-08 POOH with rods, pump and tubing. Isolate casing leak @ 1450'. RIH with tubing, pump and rods. PWOP.	
		12-Feb-09 POOH w/ rods, pump & tbg. RIH w/ 4 3/4" bit, 6 - 3 1/2" DCs on 2 7/8" tbg. Air drilled f/ 3,668' to 3,738'. Drilled to 3,898', TD. RIH w/ SUB pump on 2 7/8" IPC tbg. Cable shorted out. Re-ran SUB pump to 2305'. Rate: 1900 BWPD. POOH w/ pump - not enough rate. Set PKR @ 3,422', pumped 85 bbls wtr - no communication between perfs & OH. Acidized OH w/ 12,000 gals 15% NEFE acid. Pavg= 1360#. ISIP= vac. Swabbed 90 bbls in 5 hrs, F/L @ 2000'. RIH w/ BHP Tool. Recovered BHP Tool and 3 jts of frac sand. C/O f/ 3,717' to 3,898'. Swabbed fluid level @ 2,000'. RIH w/ stator on prod string. RIH w/ rotor on rods.	
		23-Mar-09 POOH w/ parted 1" x 1" Rotor lift sub. POOH w/ tbg & Rotor - found sand in Stator. RIH w/ Stator, tbg, Rotor & rods. PWOP.	
		15-Sep-09 POOH with parted polish rod. Replaced polish rod. PWOP.	
PBD: 3,737' ft TD: 3,898' ft		PREPARED BY: Larry S. Adams O. Carrizales UPDATED: 28-Sep-09	