

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
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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

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.)		WELL API NO. 30-025-11143
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator LEGACY RESERVES OPERATING LP		6. State Oil & Gas Lease No. 141560
3. Address of Operator PO BOX 10848, MIDLAND, TX 79702		7. Lease Name or Unit Agreement Name COOPER JAL UNIT
4. Well Location Unit Letter <u>I</u> : <u>1980</u> feet from the <u>SOUTH</u> line and <u>660</u> feet from the <u>EAST</u> line Section <u>18</u> Township <u>24S</u> Range <u>37E</u> NMPM County <u>LEA</u>		8. Well Number <u>110</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3303' GL		9. OGRID Number 240974
		10. Pool name or Wildcat Jalmat;Tans-Y-7R/Langlie Mattix;7R-Q-G

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB
DOWNHOLE COMMINGLE <input type="checkbox"/>		
CLOSED-LOOP SYSTEM <input checked="" type="checkbox"/>		
OTHER: <input type="checkbox"/>		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---

NOTIFY OCD 24 HOURS PRIOR TO BEGINNING
PLUGGING 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 John Saenz TITLE OPERATIONS ENGINEER DATE 02/18/2016

Type or print name JOHN SAENZ E-mail address: jsaenz@legacylp.com PHONE: 432-689-5200

For State Use Only

APPROVED BY: Mark Whittem TITLE P.E.S. DATE 03/03/2016

Conditions of Approval (if any):

MAR 03 2016

m

Cooper Jal Unit #110
API: 30-025-11143
Lea County, New Mexico
2/17/2016

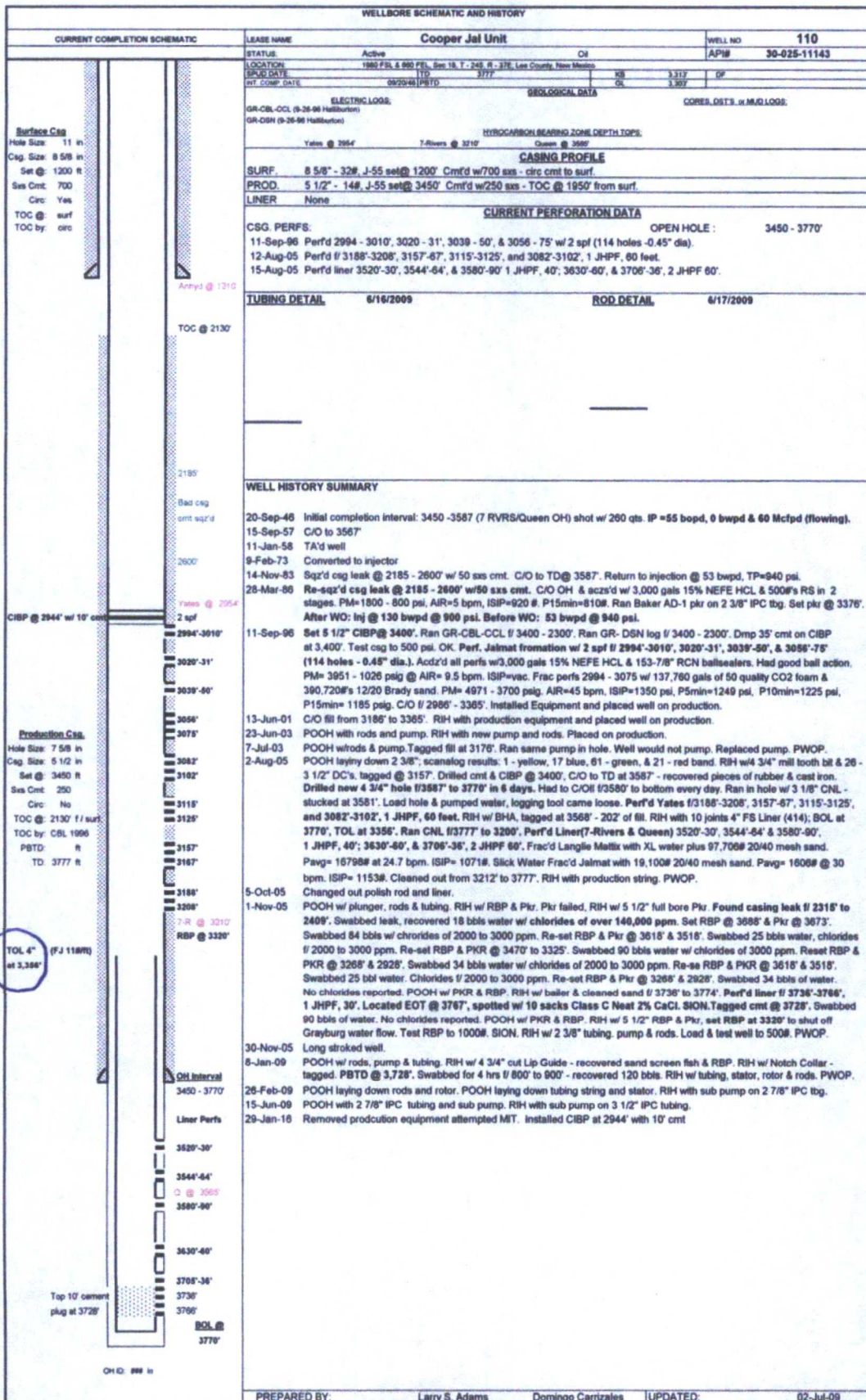
Note: Well will not pass a MIT.

All plugs to be minimum 25 sacks of cement.

Proposed P&A Procedure

1. MIRU. Pick up work string. Drill out CIBP @ 2944' ^{25 SX}
2. RIH and set 4" CIBP @ 3500', and spot 100' of cement on top of CIBP. ^{WOC}
3. ~~TOOH to 3330' Spot 100' balanced cement plug. POOH. WOC.~~ RIH w/ opened ended tubing and tag TOC at/above 3230'.
4. RIH and set 5-1/2" CIBP @ 2900'. ^{25 SX}
5. Circulate minimum 9.5 ppg P&A mud to surface and spot 100' of cement on top of CIBP @ 2900'
6. Pressure test and isolate leak.
7. Assuming leak is between 2185' and 2600'. Perforate at 2100'.
8. RIH with PKR to 1900'. Pump into perf @ 2100' w/ minimum 50 sx cement. WOC, POOH w/packer, RIH w/ opened ended tubing and tag TOC at/above 2000'.
9. TOOH. Perforate at 1250'.
10. RIH with PKR to 1000'. Pump into perf @ 1250' w/ minimum 50 sx cement. WOC, POOH w/packer, RIH w/ opened ended tubing and tag TOC at/above 1100'.
11. Circulate P&A mud to surface.
12. TOOH. Perforate at 100'. ^{150'}
13. Circulate cement from 100' to surface.
14. POOH, top off casing, remove WH, set P&A marker, clean and reclaim location.

John Saenz



WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC		Cooper Jal Unit		WELL NO. 110
STATUS: Active LOCATION: 1860 PLS & 880 PLS, Sec 18, T. 34S, R. 37E, Lea County, New Mexico SPUD DATE: 10/31/77 EST. COMP. DATE: 08/20/46 (PBDT)		OH: 3319 DP: 3207		API# 38-025-11143
ELECTRIC LOGS: GR-CBL-CCL (9-26-86 Halliburton) GR-DSN (9-26-86 Halliburton)		GEOLOGICAL DATA Yates @ 2954' 7-Rivers @ 3217' Queen @ 3569'		CORES DET'S w/ MUD LOGS
CASING PROFILE				
SURF: 8 5/8" - 32#, J-55 set@ 1200' C/m'd w/ 700 sxs cmt - circ cmt to surf. PROD: 5 1/2" - 14#, J-55 set@ 3450' C/m'd w/ 250 sxs - TOC @ 1950' from surf. LINER: None				
CURRENT PERFORATION DATA				
CSG. PERFS: 11-Sep-96 Perf'd 2994 - 3010', 3020 - 31', 3039 - 50', & 3056 - 75' w/ 2 spf (114 holes -0.45" dia). 12-Aug-05 Perf'd 3188'-3208', 3157'-67', 3115'-3125', and 3082'-3102', 1 JHPF, 60 feet. 15-Aug-05 Perf'd liner 3520'-30', 3544'-64', & 3580'-90' 1 JHPF, 40', 3630'-60', & 3708'-36', 2 JHPF 60'.		OPEN HOLE: 3450 - 3770'		
TUBING DETAIL 6/16/2009		ROD DETAIL 6/17/2009		
Length (ft)	Detail	Length (ft)	Detail	
WELL HISTORY SUMMARY 20-Sep-46 Initial completion interval: 3450 - 3587 (7 RVRs/Queen OH) shot w/ 260 qts. IP=85 bopd, 0 bwpd & 60 Mcf/d (flowing). 15-Sep-57 C/O to 3567' 11-Jan-58 TA'd well 9-Feb-73 Converted to injector 14-Nov-83 Sqz'd csg leak @ 2185 - 2600' w/ 50 sxs cmt. C/O to TD @ 3587'. Return to injection @ 53 bwpd, TP=940 psi. 28-Mar-86 Re-sqz'd csg leak @ 2185 - 2600' w/ 50 sxs cmt. C/O OH & acsz'd w/ 3,000 gals 15% NEFE HCL & 500#s R6 in 2 stages. PM=1800 - 800 psi, AIR=5 bpm, ISIP=620 #. P15min=810#. Ran Baker AD-1 pkr on 2 3/8" IPC tbg. Set pkr @ 3378'. After WO: Inj @ 130 bwpd @ 900 psi. Before WO: 53 bwpd @ 940 psi. 11-Sep-86 Set 5 1/2" CIBP @ 3400'. Ran GR-CBL-CCL @ 3400 - 2300'. Ran GR- DSN log @ 3400 - 2300'. Dmp 35' cmt on CIBP at 3,400'. Test csg to 500 psi. OK. Perf. Jalmat fromation w/ 2 spf @ 2994'-3010', 3020'-31', 3039'-50', & 3056'-75' (114 holes - 0.45" dia.). Add'd all perfs w/ 3,000 gals 15% NEFE HCL & 153-7/8" RCN ballsealers. Had good ball action. PM= 3951 - 1026 psig @ AIR= 9.5 bpm. ISIP= vac. Frac perfs 2994 - 3075 w/ 137,780 gals of 50 quality CO2 foam & 390,720#s 12/20 Brady sand. PM= 4871 - 3700 psig, AIR=45 bpm, ISIP=1350 psi, P5min=1249 psi, P10min=1225 psi, P15min= 1185 psig. C/O @ 2986' - 3365'. Installed Equipment and placed well on production. 13-Jun-01 C/O fill from 3188' to 3365'. RIH with production equipment and placed well on production. 23-Jun-03 POOH with rods and pump. Tagged fill at 3178'. Ran same pump in hole. Well would not pump. Replaced pump. PWOP. 7-Jul-03 POOH laying down 2 3/8" scanalog results: 1 - yellow, 17 blue, 61 - green, & 21 - red band. RIH w/ 3 1/4" mill tooth bit & 28 - 3 1/2" DC's, tagged @ 3157'. Drilled cmt & CIBP @ 3400', C/O to TD at 3587' - recovered pieces of rubber & cast iron. Drilled new 4 3/4" hole @ 3587' to 3770' in 6 days. Had to C/O @ 3580' to bottom every day. Ran in hole w/ 3 1/8" CNL - stuck at 3581'. Load hole & pumped water, logging tool came loose. Perf'd Yates @ 3188'-3208', 3157'-67', 3115'-3125', and 3082'-3102', 1 JHPF, 60 feet. RIH w/ BHA, tagged at 3568' - 202' of fill. RIH with 10 joints 4" FS Liner (414); BOL at 3770'. TOL at 3356'. Ran CNL @ 3777' to 3299'. Perf'd Liner (7-Rivers & Queen) 3520'-30', 3544'-64' & 3580'-90', 1 JHPF, 40', 3630'-60', & 3708'-36', 2 JHPF 60'. Frac'd Langlie Matrix with XL water plus 97,706# 20/40 mesh sand. Pavg= 16798# at 24.7 bpm. ISIP= 1071#. Slick Water Frac'd Jalmat with 19,100# 20/40 mesh sand. Pavg= 1600# @ 30 bpm. ISIP= 1153#. Cleaned out from 3212' to 3777'. RIH with production string. PWOP. 5-Oct-05 Changed out polish rod and liner. 1-Nov-05 POOH w/ plunger, rods & tubing. RIH w/ RBP & Pkr. Pkr failed, RIH w/ 5 1/2" full bore Pkr. Found casing leak @ 3216' to 2409'. Swabbed leak, recovered 18 bbls water w/ chlorides of over 140,000 ppm. Set RBP @ 3688' & Pkr @ 3673'. Swabbed 84 bbls w/ chlorides of 2000 to 3000 ppm. Re-set RBP & Pkr @ 3616' & 3518'. Swabbed 25 bbls water, chlorides @ 2000 to 3000 ppm. Re-set RBP & Pkr @ 3470' to 3325'. Swabbed 90 bbls water w/ chlorides of 3000 ppm. Reset RBP & Pkr @ 3268' & 2928'. Swabbed 34 bbls water w/ chlorides of 2000 to 3000 ppm. Re-se RBP & Pkr @ 3618' & 3518'. Swabbed 25 bbl water. Chlorides @ 2000 to 3000 ppm. Re-set RBP & Pkr @ 3268' & 2928'. Swabbed 34 bbls of water. No chlorides reported. POOH w/ PKR & RBP. RIH w/ baller & cleaned sand @ 3736' to 3774'. Perf'd liner @ 3736'-3766', 1 JHPF, 30'. Located EOT @ 3767', spotted w/ 10 sacks Class C Neat 2% CaCl. SION. Tagged cmt @ 3728'. Swabbed 90 bbls of water. No chlorides reported. POOH w/ PKR & RBP. RIH w/ 5 1/2" RBP & Pkr, set RBP at 3320' to shut off Grayburg water flow. Test RBP to 1000#. SION. RIH w/ 2 3/8" tubing, pump & rods. Load & test well to 500#. PWOP. 30-Nov-05 Long stroked well. 8-Jan-09 POOH w/ rods, pump & tubing. RIH w/ 4 3/4" cut Lip Guide - recovered sand screen fish & RBP. RIH w/ Notch Collar - tagged. PBDT @ 3,728'. Swabbed for 4 hrs @ 800' to 900' - recovered 120 bbls w/ tubing, rotor & rods. PWOP. 26-Feb-09 POOH laying down rods and rotor. POOH laying down tubing string and stator. RIH with sub pump on 2 7/8" IPC tbg. 15-Jun-09 POOH with 2 7/8" IPC tubing and sub pump. RIH with sub pump on 3 1/2" IPC tubing. 29-Jan-16 Removed production equipment attempted MIT. Installed CIBP at 2944' with 10' cmt				

Surface Csg
 Hole Size: 11 in
 Csg. Size: 8 5/8 in
 Set @: 1200 ft
 Sxs Cmt: 700
 Circ: Yes
 TOC @: surf
 TOC by: circ

Production Csg
 Hole Size: 7 5/8 in
 Csg. Size: 5 1/2 in
 Set @: 3450 ft
 Sxs Cmt: 250
 Circ: No
 TOC @: 2130' f/ surf
 TOC by: CBL 1996
 PBDT: R
 TD: 3777 ft

Wellbore Schematic Details:
 - Depth markers: 130, 1100, 1290, 2000, 2100, 2185, 2600, 2900, 2954, 2994-3010', 3020-31', 3039-50', 3056-75', 3082-3102', 3115-3125', 3157-67', 3188-3208', 3216-2409', 3299', 3356', 3400', 3470-3325', 3518-3518', 3520-30', 3544-64', 3580-90', 3616-3618', 3630-60', 3673-3673', 3708-36', 3728', 3736-3766', 3767', 3770'.
 - Completions: Anhyd @ 1212', Cover Csg leak @ 2100', TOC @ 2130', Bad csg cmt sq