

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 August 1, 2011

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. 30-015-24429
1. Type of Well: Oil Well ☐ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator THREE RIVERS OPERATING COMPANY, LLC		6. State Oil & Gas Lease No
3. Address of Operator 1122 S. CAPITAL OF TX HWY., #325, AUSTIN, TX 78746		7. Lease Name or Unit Agreement Name LOVING 1 STATE
4. Well Location Unit Letter N ; 990 feet from the SOUTH line and 2110 feet from the WEST line Section 01 Township 24S Range 27E NMPM County EDDY		8. Well Number 2
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3128' GR		9. OGRID Number 272295
		10. Pool name or Wildcat BLACK RIVER; BONE SPRING (GAS)

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
OTHER: ☐		OTHER: RECOMPLETION ☒	

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 19.15.14 NMAC For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

09/14/11 - Set CIBP @ 10212' w/35' cmt plug; PBTD 10177'; pressure test to 4500# OK

12/14/11 - Set CIBP @ 9520'

12/16/11 - Ran 4 1/2" 11.6# L80 csg to 9498' w/ float collar @ 9422'

12/17/11 - Cmt'd csg w/550 sx Trinity Lite, 13.5# / gal 1.47 yeild; bump plug, set slips

12/27/11 - Ran CBL - TOC - 2550'
Perf 3rd Bone Spring 9142' - 9146' breakdown
Perf 9030' - 9034', 8950' - 8952', 8858' - 8860'

01/03/12 - Frac well per attached

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  TITLE **OPERATIONS MANAGER** DATE **01/13/2012**

Type or print name **TOM STRATTON** E-mail address: **tstratton@3rn.com** PHONE: **512-706-9849**

For State Use Only

APPROVED BY:  TITLE **DISTRICT SUPERVISOR** DATE **02/22/2012**

Conditions of Approval (if any):

Three River Operating Company LLC

Drilled Out Wellbore Schematic

Lease	Loving 1 State 2
Field	Black River East
County	Eddy
Location	Sec. 1, Twp. 24S, Rge. 27E
State	NM
Log Date	Schlumberger (8-1983)
RG - ft	3128
GL - ft	3128
API #	30-015-24429

Tree	5" Double Valve 5K Frac Stack
Packer Fluid	N/A

Intermediate
< 9.625" 36 ppl, J-55, LTC
2335

Marker JL
N/A

7" casing TOC @ 5170' as per Bond Log
Proposed 4.5" casing TOC @ 2200'

Stage 6 Avalon
9022-5121 30 Holes
134,000 # 20/40 White Sand
3330 bbl of Slickwater & 25# Borate Gel

Stage 5 Avalon
6431-4585 38 Holes
165,000 # 20/40 White Sand
3810 bbl of Slickwater & 25# Borate Gel

Stage 4 1st Bone Springs
6923-7098 36 Holes
155,000 # 20/40 White Sand
3330 bbl of Slickwater & 25# Borate Gel

Stage 3 2nd Bone Springs
7562-7710 36 Holes
165,000 # 20/40 White Sand
3810 bbls of Slickwater & 25# Borate Gel

Stage 2 2nd Bone Springs
8370-8337 28 Holes
119,000 # 20/40 White Sand
2857 bbls of Slickwater & 25# Borate Gel

Stage 1 3rd Bone Springs
8658-9148 40 Holes
154,000 # 20/40 Super LC
3330 bbls of Slickwater & 25# Borate Gel

CIBP @ 9600'
35' of Cement
CIBP @ 10200'
40' of Cement
CIBP @ 10280'

4.5", 11.6 PPF, N-80, LTC set @ 9500'
Inner String

TOL @ 10228'

Wellcamps & Morrow Perfs Abandoned
10,310' - 12,492'
See Original Wellbore

35' of Cement
CIBP @ 12175'
CIBP @ 12530'

7", 25 ppl, N-80, LTC set @ 10562' Intermediate
4.5", 11.6 ppl, P-110, LTC @ 10228-12,840' Production Liner

Prepared by	Tom Bailey
Date	11/23/2011

TD - ft	12,840
PBTD - ft	10,165' CIBP with 35' Cen

WELL NAME: Loving, Suez 2
COUNTY: Esch
STATE: NM
API #: 13-307 @557
SPUD DATE: 3/7/03
RD DATE:
COMPL DATE:
FORMATION: Wolfcamp

TD: 12840
ESTD: 12175
ELEVATION: 2125 GS

CEMENT & HOLE DATA									
CSG	OD	GRADE	THD	WTFT	TOP	BTM	# JTS	BIT SIZE	DEPTH
Surf	13-3/8"	H-40	S78C	43.00#	0	567		17-1/2"	530
Int	5-5/8"	L-55	L78C	35.00#	0	2 341'		12-1/4"	950
Int	7"	N-80	L78C	25.00#	0	10 552'		9-3/4"	1357
Prod	4-1/2"	P-110	L78C	11 #	10 223'	12 540'		5-1/4"	425
Tbq									

9-3/8" @2255'

ELMGRN

CSG COLLARS

ELMGRN

REMARKS:

Perfs @ 12,555-562' squeezed w/40 ex eml.
6/9/2006: Acids Lwr Mnw with 1500 gals, 7.5% Morrow Acid and 32 ball seals

6/16/2006: Set CIBP @ 12530' EOT @ 12155'
6/17/2006: Acids Up Mnw with 2400 gals, 15% Percol 10
7/31/2007: Set CIBP @ 12175'. Dump ball 35 cement on top of CIBP
8/22/2007: (10,310'-10,394') Acids w/3000 gals 7.5% NaFe acid
Dropped 75 ball sealers. Did not ball out
08/16/2010: CIBP Set @ 10250' Temporarily Abandon

Perf 7021 D
1022-6150
6-28-6551
6-22-7091
7552-7710
5275-7335
9858-9946-3' 135

PERFORMANCE RECORD									
DATE	TOP	BTM	ZONE	STAT	DATE	TOP	BTM	ZONE	STAT
5/7/2005	12,653'	12,652'	Morrow	Abandon	4/30/1983	12,653'	12,652'	Morrow	9-4/Abn
5/5/1983	12,400'	12,430'	Morrow	Abandon	5/12/1983	12,400'	12,430'	Morrow	Abandon
5/5/1983	12,395'	12,395'	Morrow	Abandon	5/5/1983	12,318'	12,395'	Morrow	Abandon
5/5/1983	12,231'	12,243'	Morrow	Abandon	8/12/2007	10,392'	10,354'	Wtcomp	Abandon
8/12/2007	10,392'	10,352'	Wtcomp	Abandon	8/12/2007	10,352'	10,352'	Wtcomp	Abandon
8/12/2007	10,310'	10,330'	Wtcomp	Abandon					

ENGINEER: Kent Krawetz
SRC WPA: 43.51%

PERM CLASS: FERC CLASS:
EST WHSIP: 750 psi

PENALTY: Loving 1 State 1 - Morrow
SRC OFFSET: Morrow

ZONE: Morrow

FORCE POOL: COMPRESSION: yes

BHT: 195

LOGS: CNLJDT.DLL; EPT.LDT/CN.EPT

TOC @ 10220'
TOL @ 10,228'
CIBP @ 10250'
10,310'-10,330' (2 spf)
10,352'-10,394' (2 spf)
7" set @ 10,562'

CIBP @ 12,175' w/35' eml on top
Perfs @ 12,231'-12,243'
Perfs @ 12,318'-12,430'
CIBP @ 12,530' (6/16/2006)
Perfs @ 12,655'-12,652'
Perfs @ 12,675'-12,690'
Perfs @ 12,655'-12,652'

4-1/2" set @ 12,840'

TD 12,840'

PREPARED BY: Jeff Ross

DATE: 5/8/1993

Updated: 5/16/96

Updated: 4/26/00 jdb

OFFICE: (432) 553-7053

FAX #: (432) 653-5947

05/23/2010 gba

Three Rivers Operating

WJC, Inc.
Midland Tx, 79701



Loving 2 St 1
Prep for frac
Eddy Co., NM

Bill Collier
Company Rep.
Office 685 4171
Cell 559 4005

- 1/3/2012 RU Cudd; Allied wireline; HOWCO plugs. Pump 1st stage as per schedule. Fairly tight but no net pressure inc. ; .76 frac gradient. HOWCO plug (3.6" OD) would not go into wellhead. Call for Jmar plug w/ smaller OD 3.51". GIH and set plug @ 8,500'. Perf and break 1st interval stage 2. 2nd and 3rd guns mis-fired - hit something in well @ 78', solid? Pump 140 bbls fluid and TIH w/ weight bar and tag plug at 8500'.
- 1/4/2012 Finished stages 3, 4, 5, 6, as per procedure and set capping CBP at 6,000'. All stages successful. Finish at 5:00 PM
- 1/5/2012 Crew on loc @ 4:00 PM
Rig up Sweeco. RD frac head and inspect csg for tite spot. Install wellhead. RU reverse unit and hook up for drill out frac plugs. RU well service rig. Unload and spot tbgs on racks.
- 1/6/2012 Crew on loc @ 4:00 PM
RU well service rig. Finish hooking up reverse unit and nipple up BOP. Tally tbgs. TIH to 5935'. Wash 10' sand of plug. Start drilling on plug @ 1 PM Drill 1 foot and bit quit drilling. 2.5 hrs and made no hole. POOH to check bit. Bit appears to be OK. Will retry in AM.
- 1/7/2012 Crew on loc @ 7:00 AM
TIH w/ same bit. Finish drilling 1st plug 35 min. (tag @ 5806' set 5800') plug 2 (tag @ 6297'; set @ 6300'); #3 (tag @ 6854'; set @ 6710'; 144' low; #4 (tag @ 7250'; set @ 7210'; 40' low); #5 (tag @ 7909'; set @ 7210'; 67' sand on plug); #6 (tag @ 8464'; set @ 8500'; 30' sand on plug); Wash clean to 9,300'. Pull bit back up to 6,03'. Install wellhead wrap-around. ND BOP and NU wellhead. Drop ball to open sliding sleeve in bottom sub. Pressure to 2500 PSI and shear pins open sleeve. Hook well to flow back manifold. Turn over to flow back crew. Crew leave loc at 6:00 AM 1/8/12.

Three Rivers Operating

WJC, Inc.
Midland Tx, 79701



Loving 2 St 1
Prep for frac
Eddy Co., NM

Bill Collier
Company Rep.
Office 685 4171
Cell 559 4005

- 12/13/2011 RU pulling unit. set pipe racks and unload 9650' csg. SIFN @ 6:00 PM
- 12/14/2011 RU Allied and RIH w/ Gr/ JB to 9,600'. RIH w/ CIBP set at 9,520'. Sweeco inspect wellhead and remove wellhead and get ready to change to 4.5" csg hanger.. SIFN @ 4:00 PM Tomorrow finish wellhead; clean csg and drift.
Ready to run csg on Friday.
- 12/15/2011 Clean csg thread and drift csg. change out wellhead to hang 4.5" csg. SIFN @ 4:00 PM Tomorrow run csg and get ready for cmt.
- 12/16/2011 Rig up Allan csg crew tong, elevator, slips and bails to run 4.5" and run 214 jt with 2 marker jts. saw tooth collar on bottom and float collar one jt up. Land Bottom of csg @ 9498'. 18' above CIBP. Circ csg w/ 150 bbls fresh wtr. SIFN @ 5:30 PM Tomorrow ready for cmt.
- 12/17/2011 RU Par Five 10:00 AM to cement 4.5" csg. test lines, pump 50 bbls fresh wtr followed by 550 sxs. trinity lite @ 13.5 #/gal 1.47 yield. cmt. Bump plug w/ 500 above pump pressure 2470 PSI. Check flowback . Good. Set 4.5" slips in wellhead. SIFN @ 5:00 PM
- 12/27/2011 RU Allied wireline and RIH w/ GR/JB and find PBTD @ 9,380' [float collar @ 9,422']. Run CBL fro TD to TOC @ 2,550' w/ 1,000 PSI on csg. bottom 200' had some spots with weak bonding. Pressure csg and frac valve to 5,000 PSI - held. Make 3 bailer runs and dump 50 gal 10% acetic from 9146' to 9,075'. RIH and pressure to 3500 PSI and perf 9142 to 9146'. Lost 500 PSI when perf. Pump into perfs @ .5 and 1 BPM 3100 PSI and 3300 PSI. ISIP 2900 PSI fell to 2800 PSI in 5 min. Finish perf 9030' - 9034'; 8950' - 8952'; 8858' - 8860'. SIFN @ 1:00 AM

Three Rivers Operating

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Midland Tx, 79701



Loving 2 St 1
CSG Inspection
Eddy Co., NM

Bill Collier
Company Rep.
Office 685 4171
Cell 559 4005

- 9/13/2011 RU well service rig and pump truck. SITP = 250 PSI. Flow to tank rec 3 bbls and dead. ND wellhead & NU BOP. Load csg w/ 2 bbls and full. WO WL trk from Lovington Plains 2 -1. RU Allied WL to run CBL . Find PBSD @ 10,228'. Run bond log up to 7,200' and trk broke down. SIFN @ 8:00 PM Will fix trk before morning.
- 9/14/2011 Allied WL working and finish CBL. RIH w/ 5.9 gage ring to 10,228'. RIH w/ CIBP and set @ 10,212'. RIH w/ 2 cmt bailer runs and spot 35' cmt on plug. RD Allied WL and RU Baker Atlas to run csg inspection log. While waiting shut blind rams and pressure csg to 4,500 PSI. Held 10 min. no leakoff. Run csg insp log from 10,100' to surf. SIFN @ 7:00 PM
- 9/15/2011 ND BOP NU wellhead . Release Rig and all equip. SIFN @ 9:00 AM

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Midland Tx, 79701

Consulting Services

Loving 2 St 1
Return to prod
Eddy Co., NM

Bill Collier
Company Rep.
Office 685 4171
Cell 559 4005

- 8/17/2011 RU Dialog to run slim tools CBL. TIH and tag TD @ 10,228' PBTD. Attempt to run bond log but not returning good reading of bond. Pull log to 6850' and shut down and POOH. Well had 1190 PSI pressure. SIFN @ 9:00 PM.
- 8/18/2011 Set flowback frac tank. Hookup and start flowing back. Well had 1190 PSI pressure. SIFN @ :00 PM.