

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Form C-101
Revised November 14, 2012

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DEC 12 2012
NMOCD ARTESIA

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address Western Reserves Oil Company, Inc. P. O. Box 993 Midland, TX 79702		2. OGRID Number 24987
3. API Number 30-015-35444		4. Well No. 1
5. Property Code 36339	6. Property Name Lake McMillan "21"	

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
C	21	19S	26E		660	N	1980	W	Eddy

*** Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
C	21	19S	26E		660	N	1980	W	Eddy

9. Pool Information

N. SEVEN RIVERS; GLORIETA-YESO	Pool Name	Pool Code 97565
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Additional Well Information

11. Work Type P	12. Well Type O	13. Cable/Rotary	14. Lease Type P	15. Ground Level Elevation -3343'
16. Multiple No	17. Proposed Depth 3240' (BP & CMT)	18. Formation Yeso	19. Contractor TBD	20. Spud Date 1/15/13
Depth to Ground water 90'		Distance from nearest fresh water well >1000'		Distance to nearest surface water >1000'

21. Proposed Casing and Cement Program

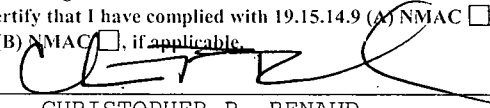
Type	Hole Size	Casing Size	Casing Weight/lb	Setting Depth	Sacks of Cement	Estimated TOC
	17 1/2	13 3/8	48	359'	490	CIRC
	12 1/4	9 5/8	36	1390'	625	CIRC
	8 3/4	5 1/2	17	9742'	1495	TOC@1030' (CBL)

Casing/Cement Program: Additional Comments

WILL SET CIBP AT 7142' & CAP W/35 CMT. CIBP AT 3275' & CAP W/35 CMT.
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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
MANUAL	3K	3K	UNKNOWN

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐ if applicable.
Signature: 

Printed name: CHRISTOPHER P. RENAUD

Title: ENGINEER/AGENT

E-mail Address: renoil@aol.com

Date: 12/06/12

Phone: 432-682-4782

OIL CONSERVATION DIVISION

Approved By:

Title:

Approved Date: 12/17/2012

Expiration Date: 12/17/2014

Conditions of Approval Attached

DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

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DEC 12 2012

CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

Revised October 12, 2005
Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

NMOCD ARTESIA

WELL LOCATION AND ACREAGE DEDICATION PLAT

X AMENDED REPORT

API Number 30-015-35444	Pool Code 97565	Pool Name N. SEVEN RIVERS; GLORIETA-YESO
Property Code 36339	Property Name LAKE McMILLAN 21	Well Number 1
OGRID No. 24987	Operator Name WESTERN RESERVES OIL COMPANY INC.	Elevation 3343' GL

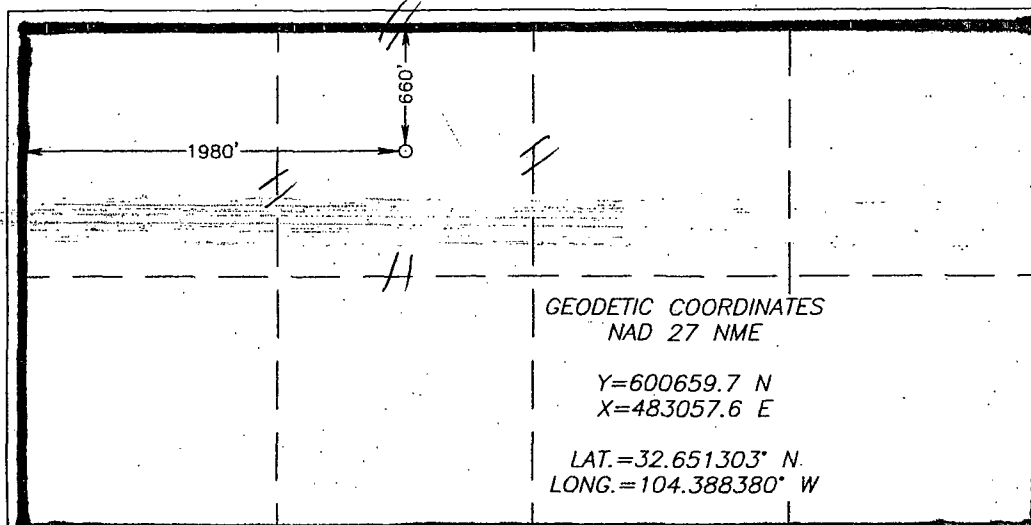
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	21	19-S	26-E		660	NORTH	1980	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Christopher P. Renaud* Date: 12/12/07
6-21-07

Printed Name: Christopher P. Renaud

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

FEBRUARY 06, 2007

Date Surveyed: LA
Signature & Seal of Professional Surveyor

Gary R. Edson 2/12/07
07.11.0148

Certificate No. GARY EIDSON 12641

12/17/12

WESTERN RESERVES OIL CO. INC.
LAKE McMillan "Z1" No. 1
ULC, Z1-195-Z6E
EDDY CO. 1 NM

Wellbore Sketch

1338 AT 359'
CAP W/490 SKS - CIRC

998 AT 1390'
CAP W/675 SK - CIRC

min TOC AT 1030' - CBL

Proposed "KESO" PEEPS

310Z-08, 3126-33, 314Z-40

Proposed CAP AT
3275' CAP W/35' CMT

Proposed CAP AT
714Z' CAP W/35' CMT

9160/11: PEEPS 9375-84'

9160/11: CAP AT 9436'
CAP W/35' CMT

8162410: Additional Narrow
PEEPS 9162-ULU
9501-74
PEEPS 9653

DN TOOL AT 6010'

1342/11: PEEPS 724Z-5Z

1342/11: CAP AT 7340' CAP W/35' CMT

1142/11: CAP AT 9320' CAP W/35' CMT

1142/11: CAP AT 9444' CAP W/35' CMT

5 1/2" AT 914Z'
CAP W/1495 SKS
TOC AT 1030' CBL

By: CHRIS REYNOLD
12/17/12

November 29, 2012

WORKOVER PROCEDURE (Yeso Formation)

Western Reserves Oil Co. Inc.
Lake McMillan "21" No. 1
UL C, Sec. 21, T-19-S, R-26-E
Eddy Co., NM

1. MIRUSU. LD horse head.
2. Unseat pump. LD 160- $\frac{3}{4}$ " rods in singles. Finish TOH w/128- $\frac{3}{4}$ " rods, 6-1.5" K bars, pump & 12' gas anchor.
3. NU 3K manual BOP. Unseat TAC & TOH laying down 120 2 $\frac{7}{8}$ " tbg. Starp out of hole w/remainder of tbg (98 jts+TAC+4jts+SN+perf sub+ BPMA).
4. RU wireline. Set 5 $\frac{1}{2}$ " CIBP at 7142' & cap w/35' cmt. Set 5 $\frac{1}{2}$ " CIBP @ 3275' & cap w/35' cmt.
5. Perf following intervals w/2 SPF: 3102'-08' (14 perfs), 3126'-33' (16 perfs) & 3142' -46' (10 perfs). 40 total perfs. RD wireline.
6. TIH w/1 jt 2 $\frac{7}{8}$ " tailpipe, 5 $\frac{1}{2}$ " Model "R" pkr, SN & 2 $\frac{7}{8}$ " tbg to 3150'
7. Load hole w/2% KCL wtr & spot 250 gals 15% NEFE HCL across perfs 3102'-3146'.
8. Pick up tbg to 3025' & set pkr. Open bypass & reverse circ w/6 bbls 2% KCL wtr. Close bypass. Load annulus to 500 psi & monitor.
9. RU acid line on tbg. Slowly break down perfs. Upon breakdown commence acidizing w/3000 gals 15% NEFE HCL dropping 80-1.3 SG ball sealers staged throughout in attempt to ball out perfs. Flush to bottom perf & overflush 10 bbls. Monitor ISDP, and 5-15 min SIP. RD acid company.
10. Flow & swab back load & monitor fluid recovery & hydrocarbon cut. Decision to be made to put well on pump test, re-stimulate. SHOULD INTERVAL BE NON-COMMERCIAL A SUPPLEMENTARY AFE WILL FOLLOW AT A LATER DATE TO TEST POSSIBLE GLORIETTA PAY AT/ABOUT 2300'-60'.