

Submit 3 Copies To Appropriate
District Office
District I
1625 N. French Dr., Hobbs, NM 88240
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1301 W. Grand Ave., Artesia, NM
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District III
1000 Rio Brazos Rd., Aztec, NM
87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

HOBBS OGD
HOBBSON CONSERVATION DIVISION
1220 South St. Francis Dr.
APR 28 2011 Santa Fe, NM 87505

WELL API NO. 30-025-10499
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name LANGLIE MATTIX PENROSE SAND UNIT
8. Well Number 252
9. OGRID Number 240974
10. Pool name or Wildcat Langlie Mattix; 7 Rvrs-Qn-Grayburg

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 <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <u>INJECTION</u>
2. Name of Operator LEGACY RESERVES OPERATING LP
3. Address of Operator P.O. BOX 10848 MIDLAND, TX 79702
4. Well Location Unit Letter <u>H</u> : <u>1650</u> feet from the <u>NORTH</u> line and <u>330</u> feet from the <u>EAST</u> line. Section <u>28</u> Township <u>T22S</u> Range <u>R37E</u> NMPM LEA County
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <u>3344' GL 3352' KB</u>
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

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 type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: Replace Bottomhole Cement Plug & Acidize <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

See attached Procedure, WB Sketch & Recommendation Letter from Cambrian Management (Consultants)

Per Underground Injection Control Program Manual
11.6 C Packer shall be set within or less than 100
feet of the uppermost injection perfs or open hole.

I complete to the best of my knowledge and belief. I further certify that any
d according to NMOCDC guidelines ☐, a general permit ☐ or an (attached)

SIGNATURE Kent Williams TITLE: Sr. Engineer DATE: 4/26/11

Type or print name Kent Williams E-mail address: _____ Telephone No. (432) 689-5200
For State Use Only

APPROVED BY: [Signature] TITLE Staff Manager DATE 4-28-2011

Conditions of Approval (if any):
Condition of Approval: Notify OCD Hobbs
office 24 hours prior of running MIT Test & Chart

PROCEDURE TO DRILLOUT AND INSTALL NEW CEMENT PLUG IN OPENHOLE AND ACIDIZE

LMPSU # 252

Field: Langlie Mattix 7Rivers-Queen-Grayburg
Pool: Penrose Sand
Lea Co., NM

Date: 3/29/11

Engineer: Kent Williams

Company: Legacy Reserves Operating, LP

Purpose Of Procedure: Drillout prior plug set in the openhole, set new cement plug and acidize pay interval to increase water injectivity.

This procedure is a cooperative effort with Targa Midstream Services and the NMOCD to improve wellbore isolation and better protect the lower portion of the wellbore from potential communication of future planned acid gas injection in Targa's Eunice Gas Plant SWD #1 disposal well.

Procedure:

1. Flowback injection well until well dead. Lay 3" polyethylene flowline from wellhead to water injection station to accommodate flowback. Alternatively, tie-into nearby producer flowline if possible.
2. MIRU pulling unit. Install 3000# minimum working pressure BOP. Set 1, 500 bbl frac tank for flowback tank.
3. POH laying down w/ 2 3/8" Salta PVC lined tubing and 7" Johnson 101-S tension injection pkr.
Note: Will replace injection tubing and pkr.
4. RIH w/ 6 1/4" bit, 4-3 1/2" drill collars and 2 7/8" J-55 4.7# tbg workstring, RU reverse unit and power swivel. Drillout and cleanout plug in openhole from 3692' to 4066' (TD).
(Note: Run in hole with a bit on the btm of a "Bulldog" stroke tubing bailer if problems are encountered with circulating the old plug material out of the hole)
5. RU wireline. Run Gamma Ray/Caliper log from TD to 3350' (7" Casing Shoe).
6. RIH w/ 2 7/8" tbg to TD.
7. RU cementer. Spot estimated 85 sxs (18.0 bbls, 101 ft3) cement from TD to 3650' in openhole. Displace cement to 3650' in tbg with 21.2 bbls 2% KCL water. Calculations based on bringing cement up to 3650' and drilling out to 3700' to avoid a 2nd cement job.
Estimated Ave. Hole Size: 7.00 " (drill bit size = 6 1/4")
8. POH and stand back tbg. Put 500# pressure on cmt plug. Shutin well overnight.
9. Lower tbg and tag top of cement.
If cement found above 3700' POH w/ tbg and prepare to drillout cmt.
If cement below 3700', may perform second cement spot job.
10. RIH w/ 6 1/4" bit, 4-3 1/2" drill collars and 2 7/8" tbg. DO cement to 3700'.
11. PU btm of tbg to 3650'.
12. RU acid company. Spot estimated 3000 gal (71.4 bbls) Acid System (90% -15% NEFE HCL and 10%-Xylene) from 3650' to 3350'. Exact acid volume to be calculated from new caliper log.
Displace acid to 3350' in tbg w/ 19.4 bbls 2% KCL wtr.
13. POH bit, DC's and tbg.

LMPSU #252

14. RIH w/ 7" treating pkr and 2 7/8" tbg. Hydrotest tbg in hole to 5000#. Set pkr at 3270' (-). Load annulus w/ 2% KCL wtr. Test pkr and csg to 500#.
15. RU acid company. Acidize Penrose Sand (Queen) open hole from 3350-3700' w/ 3,000 gal 15% NEFE CRA HCL (Linear, Pre-Gelled Acid) and 3,000 gal gelled brine and 3,000 # rock salt down 2 7/8" tubing at 8 BPM or 3500 # maximum pressure as follows. Load tbg with 2% KCL wtr and pump to establish pump-in rate prior to acidizing. .

Acid Procedure:

Acid #1	1,000 gal (23.8 bbl) 15 % CRA (gelled acid)
Block #1	1,000 gal (23.8 bbl) Gelled Brine water w/ 1000 # rock salt @ 1 PPG
Acid #2	1,000 gal (23.8 bbl) 15 % CRA (gelled acid)
Block #2	2,000 gal (47.6 bbl) Gelled Brine water w/ 2000 # rock salt @ 1 PPG
Acid #3	1,000 gal (23.8 bbl) 15 % CRA
Flush	100 bbls 2% KCL wtr to dissolve rock salt. (33 bbls displace to TD + 67 bbls overflush). Shutin well for 60 minutes. Monitor ISIP, 5, 10 and 15 minute shut-in pressures.

16. Flowback to frac tank until dead.
17. POH w/ tbg and treating pkr. LD workstring.
18. RIH w/ new 7" injection pkr, on/off tool, 1.781" profile nipple, and new 2 3/8" IPC lined tbg. Set pkr at 3280' (-).
19. Circ tbg and annulus w/ 110+ bbls pkr fluid. Pressure test pkr and csg to 500#.
20. RD BOP. Flange up injection wellhead. RDMO pulling unit.
21. Return well to injection at prior 1800# injection wellhead pressure, or 500 BWIPD rate limit..

Misc Information:

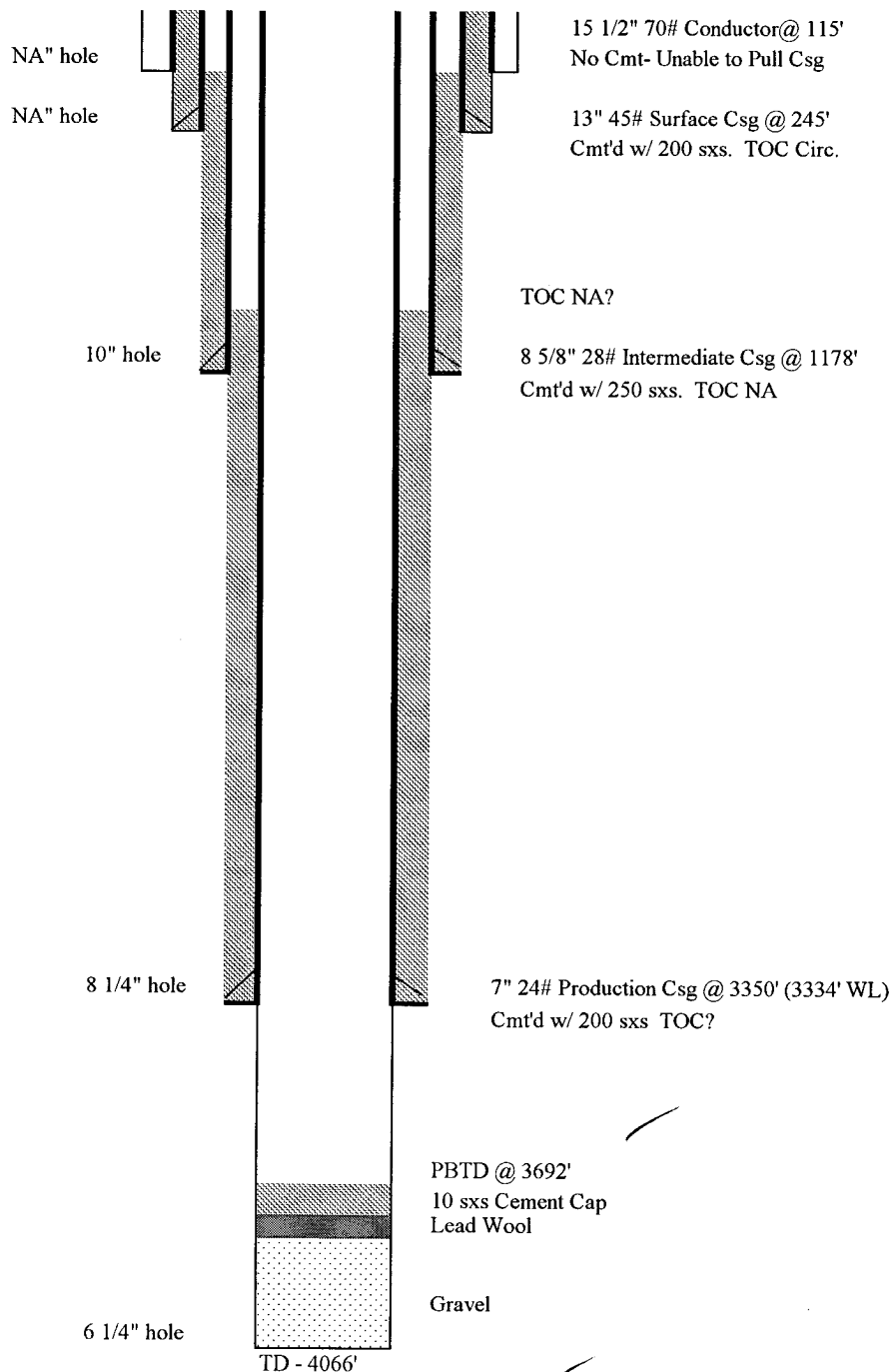
AFE Cost - \$ 153,00 AFE # - 411016
BWO - 137 BWIPD /1800#
AWO - 250 BWIPD/1800 # (Forecast)
KB- 8' AGL
Injection Rate and Pressure Limit: No limit per NMOCD

Volumes & Strengths -

Tubing :	2 7/8" 6.5# J-55 -	<u>0.0058 bbl/ft</u> , 2.441" ID, 2.347" Drift, Burst 7260#, Collapse 7680#
Casing:	7" 23# J-55 -	<u>0.0393 bbl/ft</u> , 6.366" ID, 6.241" Drift, Burst 4360# , Collapse 3270#
Annulus:	2 7/8" x 7" 23# -	<u>0.0310 bbl/ft</u>

WELLBORE SCHEMATIC

Well Name & No.:	<u>Langlie Mattix Penrose Sand Unit # 252</u>		
Field:	<u>Langlie Mattix (7Rivers/Queen/Grayburg) - Penrose Sand</u>		
Location:	<u>1650' FNL x 330' FEL, Sec. 28, Unit Letter H, T-22-S, R-37-E</u>		
County:	<u>Lea</u>	State:	<u>NM</u> API #: <u>30-025-10499</u>
GR Elevation:	<u>3344.0</u>	Spud Date:	<u>08/15/36</u>
KB Correction:	<u>8.0</u>	Drl Compl. Date:	<u>5/12/37-Cable Tool</u>
KB Elevation	<u>3352.0</u>	Original Well Name:	<u>A.L. Christmas "A" #2</u>
		Original Operator:	<u>Repollo Oil Co.</u>





Cambrian
MANAGEMENT, LTD.

P.O. Box 272
Midland, Texas 79702
Off: 432-620-9181
Fax: 432-570-0102

State of New Mexico
Oil Conservation Division
District I
1625 N French Dr.
Hobbs, NM 88240

To Whom It May Concern:

The Langlie Mattix Penrose Sand Unit # 252 (LMPSU # 252) is being worked over in a cooperative effort with Targa Midstream Services and the NMOCD to improve wellbore isolation and better protect the lower portion of the wellbore from potential communication of future planned acid gas injection in Targa's Eunice Gas Plant SWD # 1 disposal well per Targa's OCD case (permit # R-12809-C) and the enclosed C-103. If you have any questions please contact Mr. Alan Means at 432-620-9181.

Sincerely,

Mr. Alan Means
Cambrian Management, Ltd
as Agent for Targa Midstream Services