

NOV 10 2008

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-025-20777

5. Indicate Type of Lease

STATE ☐FEE ☒

6. State Oil &amp; Gas Lease No.

7. Lease Name or Unit Agreement Name

L.G. WARLICK

8. Well Number 2

9. OGRID Number 241333

10. Pool name or Wildcat

GRAYBURG, L BLINEBRY, DRNKRD

## 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

CHEVRON MIDCONTINENT, L.P.

3. Address of Operator

15 SMITH ROAD, MIDLAND, TEXAS 797055

4. Well Location

Unit Letter B: 990 feet from the NORTH line and 2310 feet from the EAST line

Section 19 Township 21-S

Range 37-E

NMPM

County LEA

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

3523'

## 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 ☐

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐P AND A ☐CASING/CEMENT JOB ☐

OTHER ADD GRAYBURG PERFS, ACIDIZE &amp; FRAC

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

CHEVRON MIDCONTINENT, L.P. INTENDS TO ADD PERFS IN THE GRAYBURG FORMATION, ACIDIZE, &amp; FRAC. THE INTENDED PROCEDURE, AND CURRENT AND PROPOSED WELLBORE DIAGRAMS ARE ATTACHED FOR YOUR APPROVAL.

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

*Denise Pinkerton*

TITLE

REGULATORY SPECIALIST

DATE 11-04-2008

Type or print name DENISE PINKERTON

E-mail address: [leakejd@chevron.com](mailto:leakejd@chevron.com)

PHONE: 432-687-7375

For State

APPROVED BY:

*[Signature]*

TITLE

PETROLEUM ENGINEER

DATE

NOV 12 2008

Conditions of Approval (if any):

L. G. Warlick # 2  
Penrose Skelly Field  
T21S, R37E, Section 19  
**Job: Add Perfs In Grayburg Formation, Acidize, And Frac**

**Procedure:**

1. *This procedure is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of 10/28/2008. Verify what is in the hole with the well file in the Eunice Field office. Discuss w/ WEO Engineer, Workover Rep, OS, ALS, and FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.*
2. Displace flowline with fresh water. Have field specialist close valve at header. Pressure line according to the type of line. Buried fiberglass lines will be tested with 300 psi. All polypipe (SDR7 and SDR11) will be tested w/100 psi. All steel lines will be tested w/500 psi. If a leak is found, contact Donnie Ives for repair/replacement. If test is good, bleed off pressure and **open valve** at header. Document this process in the morning report.
3. MI & RU workover unit. Bleed pressure from well, if any. Pump down csg with 8.6 PPG cut brine water, if necessary to kill well. Remove WH. Install BOP's and test as required. POH LD 2 3/8" tbg string.
4. PU and GIH with 6 1/8" MT bit and 2 7/8" work string to top of fill in 7" csg. MI & RU air unit. Establish circulation and clean out wellbore to 6715' using foam. Circulate well clean from 6715' using foam. POH with work string and bit. LD bit. **Note: Well has a tight spot at 3198', possibly scale, paraffin, or salt buildup.**
5. PU and GIH with 7" RBP on 2 7/8" work string to 5500'. Set RBP at 5500'. Spot 20' sand on top of RBP. POH with 2 7/8" work string and retrieving head. LD retrieving head. Fill casing with 8.6 PPG cut brine water.
6. MI & RU Gray WL electric line unit. Install lubricator and test to 2000 psi. GIH and conduct GR/Compensated Neutron/CCL log from 5480' up to 2200'. POH. **Note: E-mail log to Mike Howell (MAHO@chevron.com) for picking perfs.** GIH and conduct GR/CBL/CCL from 5480' up to 100' above top of cement. Run log with with 0 psi on casing. POH. Inspect logs for good cement bond from approximately 4100' up to 3400'. If bond does not appear to be good across proposed completion interval, discuss with Engineering before proceeding. GIH with 3 3/8" RHSC Gunslinger EXP-3325-321T casing guns (0.42" EH & 47" penetration) and perforate from 3673-75', 3708-12', 3726-36', 3740-50', 3774-84', 3804-14', 3820-30', 3834-40', 3845-50', 3854-62', 3866-70', 3874-84', 3894-3904', 3908-16', 3928-38', 3950-60', and 3964-70' with 4 JSPF at 120 degree phasing, using 25 gram premium charges. POH. RD & release electric line unit. **Note: Use Schlumberger GR/Sonic Log dated 3/20/1964 for depth correlation. Also, exact perf depths will change after obtaining new GR/Compensated Neutron Log.**

7. PU and GIH w/ 7" PPI pkr (with 12' element spacing) and SCV on 2 7/8" work string to approximately 3970'. Test tbg to 5500 psi while GIH.
8. MI & RU DS Services. Acidize perfs 3536-3970' with 4,000 gals anti-sludge 15% HCl acid \* at a maximum rate **as shown below** and a maximum surface pressure of **3500 psi**. Spot acid across perfs at beginning of each stage and let soak to lower breakdown pressure and prevent communication. Pump job as follows:

| Interval   | Amt. Acid | Max Rate | PPI Setting |
|------------|-----------|----------|-------------|
| 3964-70'   | 200 gals  | ½ BPM    | 3961-73'    |
| 3950-60'   | 200 gals  | ½ BPM    | 3949-61'    |
| 3928-38'   | 200 gals  | ½ BPM    | 3927-39'    |
| 3908-16'   | 200 gals  | ½ BPM    | 3906-18'    |
| 3894-3904' | 200 gals  | ½ BPM    | 3893-3905'  |
| 3874-84'   | 200 gals  | ½ BPM    | 3873-85'    |
| 3866-70'   | 200 gals  | ½ BPM    | 3862-74'    |
| 3854-62'   | 200 gals  | ½ BPM    | 3852-64'    |
| 3845-50'   | 200 gals  | ½ BPM    | 3841-53'    |
| 3834-40'   | 200 gals  | ½ BPM    | 3831-43'    |
| 3820-30'   | 200 gals  | ½ BPM    | 3819-31'    |
| 3804-14'   | 200 gals  | ½ BPM    | 3803-15'    |
| 3774-84'   | 200 gals  | ½ BPM    | 3773-85'    |
| 3740-50'   | 200 gals  | ½ BPM    | 3739-51'    |
| 3726-36'   | 200 gals  | ½ BPM    | 3725-37'    |
| 3708-12'   | 200 gals  | ½ BPM    | 3706-18'    |
| 3673-75'   | 200 gals  | ½ BPM    | 3670-82'    |
| 3642-46'   | 200 gals  | ½ BPM    | 3640-52'    |
| 3602-07'   | 200 gals  | ½ BPM    | 3600-12'    |
| 3536-39'   | 200 gals  | ½ BPM    | 3530-42'    |

Displace acid with 8.6 PPG cut brine water -- do not overdisplace. Use a SCV to control displacement fluid. Record ISIP, 5 & 10 minute SIP's. RD and release DS services. **Note:** Pickle tubing in 1 run of 500 gals acid, prior to acidizing perfs. Pickle acid is to contain only 1/2 gal A264 and 1 gal W53. Also, if communication occurs during treatment of any interval, monitor casing pressure and attempt to complete stage w/o exceeding 500 psi csg pressure. If cannot, then move PPI to next setting depth and combine treatment volumes of the intervals.

\* Acid system is to contain:

|            |                     |
|------------|---------------------|
| 1 GPT A264 | Corrosion Inhibitor |
| 8 GPT L63  | Iron Control Agent  |
| 2 PPT A179 | Iron Control Aid    |
| 20 GPT U66 | Mutual Solvent      |
| 2 GPT W53  | Non-Emulsifier      |

9. Release PPI pkr and PUH to approximately 3500'. Swab back all intervals together. Recover 100% of treatment and load volumes before shutting well in for night, if possible. Report recovered fluid volumes, pressures, and/or swabbing fluid levels. **Note: Selectively swab perfs as directed by Engineering if excessive water is produced.**
10. Open well. Release PPI pkr. LD and reset PPI pkr at 4000'. Pressure test casing from 4000'-5480' to 2000 psi. Release PPI pkr. POH with tbg and PPI packer. LD PPI tool.
11. PU and GIH w/ 5 ½" Lok-Set pkr & On-Off tool w/ 2.25" "F" profile and 117 jts. of 3 ½" EUE 8R L-80 work string, testing to 8500 psi. Set pkr at approximately 3450'. Install frac head. Pressure annulus to 500 psi to test csg and pkr. Leave pressure on csg during frac job to observe for communication.
12. MI & RU DS Services and Tracer-Tech Services (Mike Mathis (866) 595-3115). Frac well down 3 ½" tubing at **40 BPM** with 88,000 gals of YF125, 176,000 lbs. 16/30 mesh Jordan Sand, and 30,000 lbs **resin-coated** 16/30 mesh CR1630 proppant. Observe a maximum surface treating pressure of **8000 psi**. Tag frac with 2 radioactive isotopes (1 in regular sand stages, and 1 in resin-coated proppant stage). Pump job as follows:
 

Pump 2,000 gals 2% KCL water containing 55 gals Baker RE 4777-SCW Scale Inhibitor at **6 BPM**  
 Pump 1,000 gals 2% KCL water spacer at **20 BPM**  
 Pump 14,000 gals YF125 pad containing 5 GPT J451 Fluid Loss Additive at **40 BPM**  
 Pump 14,000 gals YF125 containing 0.5 PPG 16/30 mesh Jordan Sand & 5 GPT J451 FL Additive  
 Pump 12,000 gals YF125 containing 1.5 PPG 16/30 mesh Jordan Sand  
 Pump 12,000 gals YF125 containing 2.5 PPG 16/30 mesh Jordan Sand  
 Pump 14,000 gals YF125 containing 3.5 PPG 16/30 mesh Jordan Sand  
 Pump 16,000 gals YF125 containing 4.5 PPG 16/30 mesh Jordan Sand  
 Pump 6,000 gals YF125 containing 5 PPG **resin-coated** 16/30 mesh CR1630 proppant.

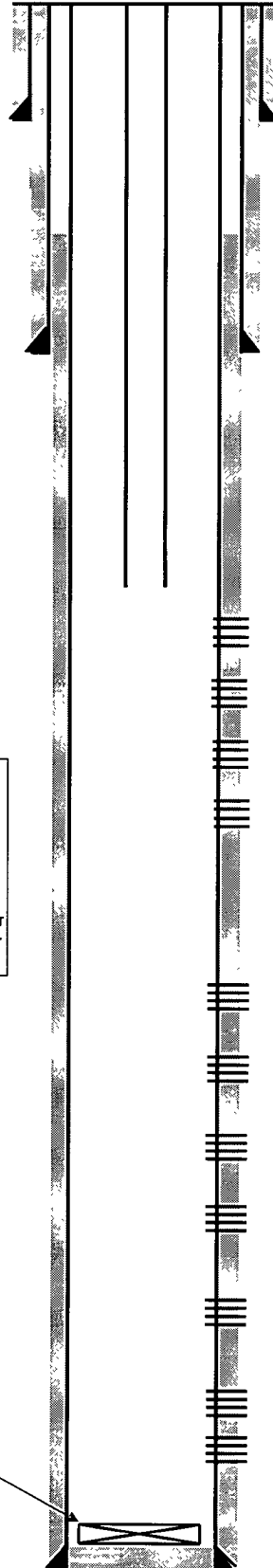
Flush to 3450' with 1,261 gals WF125. **Do not overflush.** Shut well in. Record ISIP, 5, 10, and 15 minute SI tbg pressures. SWI. RD & Release DS Services and Tracer-Tech Services. **Leave well SI overnight.**
13. Open well. Bleed pressure from well, if any. Release pkr. POH LD 3 ½" work string, on-off tool, and pkr.
14. PU and GIH with 6 1/8" MT bit on 2 7/8" work string to approximately 4500'. Reverse circulate well clean from 4500' using 8.6 PPG cut brine water, if necessary. POH with 2 7/8" work string and bit. LD bit.
15. PU & GIH with 7" pkr on 2 7/8" work string to 3450'. Set pkr at 3450'. Open well. GIH and swab well until there is no sand inflow. Swab well for at least 3 hours before logging. MI & RU Baker Atlas electric line unit. Install lubricator and test to 2000 psi. GIH and conduct after-frac PRISM GR/Temp/CCL log from 4200' up to 3300'. POH. RD & release electric line unit. **Note: Correlate logs and run flat with Gray WL GR/CBL/CCL Log conducted in Step # 6.**

16. Release pkr. POH with 2 7/8" work string and pkr. LD work string and packer.
17. PU and GIH w/ BP mud anchor jt of 2 7/8" tbg, 2 7/8" x 4' perforated sub, SN, 1 jt 2 7/8" EUE 8R J-55 IPC tbg, 17 jts 2 7/8" EUE 8R J-55 tbg, TAC, and 112 jts 2 7/8" EUE 8R J-55 tbg, testing to 5000 psi. Set TAC at 3500', with EOT at 4080' and SN at 4045'.
18. Remove BOP's and install WH. GIH with rods, weight bars, and pump per ALS recommended design. RD & release workover unit.
19. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

AMH

10/30/2008

Well: L. G. Warlick # 2

Field: Penrose Skelly, Blinebry O&G  
& Drinkard (DHC)Reservoir: Grayburg, Blinebry &  
Drinkard (DHC)**Location:**990' FNL & 2310' FEL  
Section: 19  
Township: 21S  
Range: 37E Unit: B  
County: Lea State: NM**Elevations:**GL: 3523'  
KB: 3535'  
DF: 3534'**Current  
Wellbore Diagram****Tubing Detail:**

| #Jts: | Size:                  | Footage |
|-------|------------------------|---------|
|       | KB Correction          | 12.00   |
| 102   | Jts 2 3/8" J-55 Cl 'B' | 3196.50 |
| 102   | Bottom Of Tbg >>       | 3208.50 |

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

Model D Pkr Pushed To 6715'

COTD: 6715'  
PBTD: 6722'  
TD: 6722'

Updated: 10/28/08

By: A. M. Howell

**Well ID Info:**Chevno: FB4252  
API No: 30-025-20777  
L5/L6: BCU46AH00.  
Spud Date: 6/24/62  
Compl. Date: 7/18/62Surf. Csg: 13 3/8" 48#, H-40  
Set: @ 307' w/300 sx cmt  
Hole Size: 17 1/2"  
Circ: Yes TOC: Surface  
TOC By: CirculatedInterm. Csg: 9 5/8" 36#, J-55  
Set: @ 2550' w/ 950 sx cmt  
Hole Size: 12 1/4"  
Circ: Yes TOC: Surface  
TOC By: Circulated**Perfs:**

| Perfs: | Status          |
|--------|-----------------|
| 3536'  | Grayburg - Open |
| 3537'  | Grayburg - Open |
| 3538'  | Grayburg - Open |
| 3539'  | Grayburg - Open |
| 3602'  | Grayburg - Open |
| 3604'  | Grayburg - Open |
| 3606'  | Grayburg - Open |
| 3607'  | Grayburg - Open |
| 3642'  | Grayburg - Open |
| 3643'  | Grayburg - Open |

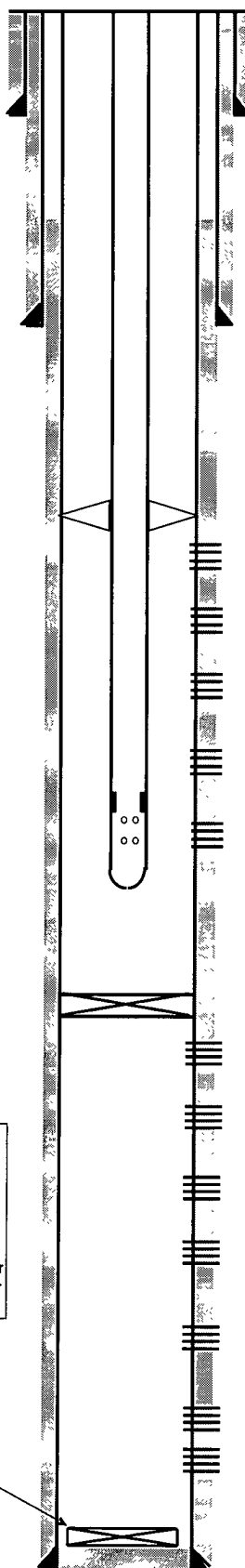
**Perfs:**

| Perfs: | Status          |
|--------|-----------------|
| 5684'  | Blinebry - Open |
| 5685'  | Blinebry - Open |
| 5723'  | Blinebry - Open |
| 5724'  | Blinebry - Open |
| 5742'  | Blinebry - Open |
| 5743'  | Blinebry - Open |
| 5745'  | Blinebry - Open |
| 5762'  | Blinebry - Open |
| 5763'  | Blinebry - Open |
| 5772'  | Blinebry - Open |
| 5773'  | Blinebry - Open |
| 5777'  | Blinebry - Open |
| 5778'  | Blinebry - Open |
| 5789'  | Blinebry - Open |
| 5858'  | Blinebry - Open |
| 5859'  | Blinebry - Open |

**Perfs:**

| Perfs: | Status          |
|--------|-----------------|
| 6597'  | Drinkard - Open |
| 6598'  | Drinkard - Open |
| 6599'  | Drinkard - Open |

Prod. Csg: 7", 20#, 23# & 26#, K-55  
Set: @ 6722' w/ 810 sx cmt  
Hole Size: 8 3/4"  
Circ: No TOC: 1250'  
TOC By: Temperature Survey

Well. **L. G. Warlick # 2**Field **Penrose Skelly, Blinebry O&G  
& Drinkard (DHC)**Reservoir **Grayburg, Blinebry &  
Drinkard (DHC)****Location:**990' FNL & 2310' FEL  
Section 19  
Township 21S  
Range 37E Unit B  
County Lea State NM**Elevations:**GL 3523'  
KB 3535'  
DF. 3534'**Proposed  
Wellbore Diagram****Well ID Info:**Chevno FB4252  
API No 30-025-20777  
L5/L6 BCU46AH00  
Spud Date 6/24/62  
Compl Date 7/18/62Surf. Csg: 13 3/8" 48#, H-40  
Set: @ 307' w/300 sx cmt  
Hole Size: 17 1/2"  
Circ: Yes TOC: Surface  
TOC By: CirculatedInterm. Csg: 9 5/8" 36#, J-55  
Set: @ 2550' w/ 950 sx cmt  
Hole Size: 12 1/4"  
Circ: Yes TOC: Surface  
TOC By: Circulated**Tubing Detail:**

| #Jts: | Size:                      | Footage |
|-------|----------------------------|---------|
|       | KB Correction              | 12 00   |
| 112   | Jts 2 7/8" EUE 8R J-55 Tbg | 3472 00 |
|       | TAC                        | 3 15    |
| 17    | Jts 2 7/8" EUE 8R J-55 Tbg | 527 00  |
| 1     | Jt 2 7/8" EUE 8R J-55 IPC  | 31 00   |
|       | SN                         | 1 10    |
|       | 2 7/8" x 4' Perf Tbg Sub   | 4 00    |
| 1     | Jt 2 7/8" EUE 8R J-55 Tbg  | 31 00   |
|       | Bull Plug                  | 0 50    |
| 131   | Bottom Of String >>        | 4081.75 |

**Perfs:**

| Perfs:     | Status                |
|------------|-----------------------|
| 3536'      | 3606' Grayburg - Open |
| 3537'      | 3607' Grayburg - Open |
| 3538'      | 3642' Grayburg - Open |
| 3539'      | 3643' Grayburg - Open |
| 3602'      | 3645' Grayburg - Open |
| 3604'      | 3646' Grayburg - Open |
| 3673-75'   | Grayburg - Open       |
| 3708-12'   | Grayburg - Open       |
| 3726-36'   | Grayburg - Open       |
| 3740-50'   | Grayburg - Open       |
| 3774-84'   | Grayburg - Open       |
| 3804-14'   | Grayburg - Open       |
| 3820-30'   | Grayburg - Open       |
| 3834-40'   | Grayburg - Open       |
| 3845-50'   | Grayburg - Open       |
| 3854-62'   | Grayburg - Open       |
| 3866-70'   | Grayburg - Open       |
| 3874-84'   | Grayburg - Open       |
| 3894-3904' | Grayburg - Open       |
| 3908-16'   | Grayburg - Open       |
| 3928-38'   | Grayburg - Open       |
| 3950-60'   | Grayburg - Open       |
| 3964-70'   | Grayburg - Open       |

RBP @ 5500'  
(20' sand on top)

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**Perfs:**

| Perfs: | Status                |
|--------|-----------------------|
| 5684'  | 5877' Blinebry - Open |
| 5685'  | 5878' Blinebry - Open |
| 5723'  | 5890' Blinebry - Open |
| 5724'  | 5891' Blinebry - Open |
| 5742'  | 5910' Blinebry - Open |
| 5743'  | 5911' Blinebry - Open |
| 5745'  | 5916' Blinebry - Open |
| 5762'  | 5917' Blinebry - Open |
| 5763'  | 5930' Blinebry - Open |
| 5772'  | 5931' Blinebry - Open |
| 5773'  | 5967' Blinebry - Open |
| 5777'  | 5968' Blinebry - Open |
| 5778'  | 5973' Blinebry - Open |
| 5789'  | 5974' Blinebry - Open |
| 5858'  | 5987' Blinebry - Open |
| 5859'  | 5988' Blinebry - Open |

**Perfs:**

| Perfs: | Status                  |
|--------|-------------------------|
| 6597'  | 6678' Drinkard - Open   |
| 6598'  | 6678 5' Drinkard - Open |
| 6599'  | 6679' Drinkard - Open   |

Prod. Csg: 7", 20#, 23# & 26#, K-55  
Set: @ 6722' w/ 810 sx cmt  
Hole Size: 8 3/4"  
Circ: No TOC: 1250'  
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Model D Pkr Pushed To 6715'

COTD: 6715'  
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By: A M Howell