

HOBBS OCD

AUG 23 2012

RECEIVED

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-025-06669

5. Indicate Type of Lease

STATE ☐FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

L.G. WARLICK

8. Well Number 1

9. OGRID 241333

10. Pool name or Wildcat

PENROSE; SKELLY 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 ☒ Gas Well ☐ Other ☐

2. Name of Operator

CHEVRON MIDCONTINENT, L.P.

3. Address of Operator

15 SMITH ROAD, MIDLAND, TEXAS 79705

4. Well Location

Unit Letter A: 990 feet from the NORTH line and 330 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.)

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: INTENT TO SONIC HAMMER, ACIDIZE, SC SQZ

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.

CHEVRON MIDCONTINENT, L.P. INTENDS TO SONIC HAMMER, ACIDIZE & SCALE SQUEEZE THE SUBJECT WELL. PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, WELLBORE DIAGRAM, & C-144 INFORMATION.

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: REGULATORY SPECIALIST

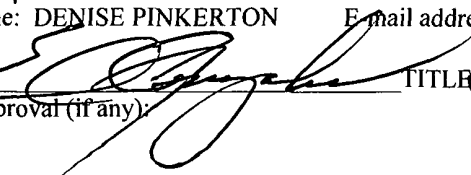
DATE: 08-21-2012

Type or print name: DENISE PINKERTON

E-mail address: leakejd@chevron.com

PHONE: 432-687-7375

APPROVED BY:



TITLE

Dist. MGR

DATE

8-30-2012

Conditions of Approval (if any):

L.G. Warlick #1 – [30-025-06669]
Penrose Skelly field
T21S, R37E, Section 19
N 32° 24' 34.63", W -103° 8' 35.20" (NAD27)
Job: Sonic Hammer, Acidize & Scale Squeeze

This procedure is meant to be followed. It is up to the WSM, Remedial Engineer and Production Engineer to make the decisions necessary to do SAFELY what is best for the well. In the extent that this procedure does not reflect actual operations, please contact RE, PE and Superintendent for possible MOC.

Procedure:

1. MI & RU Workover unit.
2. Verify that well does not have pressure/flow. If well has pressure, record tubing and casing pressures on WellView report. Bleed down well; if necessary, kill with cut brine fluid (8.6 ppg).
- **Caliper elevators and tubular EACH DAY prior to handling tubing/rods/tools. Note in JSA when and what items are callipered within the task step that includes that work.**
3. Unseat pump. POOH with rods & pump. Examine rod string for paraffin/corrosion. Do not hot water, unless significant paraffin is seen. ND wellhead, unset TAC, NU BOP.
4. POOH & LD 1 joint, PU 5-1/2" packer and set @ ~ 25'. Close and test BOP pipe rams to 250psi (low)/ 500psi (high). Record testing pressures on WellView report. Release and LD packer.
5. PU tubing and run back in hole to tag for fill.
 Depths: (TAC 3,541', Bottom Perfs 3,965', EOT 4,213', PBTD 5,500')
6. RU Scanners and POOH while scanning all 2-7/8" 6.5# J-55 production tubing. LD all non-yellow band joints. If fill is tagged:
 - a. Above 4,200' proceed to step #7.
 - b. Below 4,200' skip to step #9.

Strap pipe out of the hole to verify depths. Send scan report to lgbi@chevron.com.

- **Caliper elevators and tubular EACH DAY prior to handling tubing/rods/tools. Note in JSA when and what items are callipered within the task step that includes that work.**
7. PU and RIH with 4-3/4" Milled Tooth (MT) Bit, 4 (3-1/2') drill collars on 2-7/8" 6.5# L-80 Workstring. RU power swivel and C/O to 4,200'. POOH with 2-7/8" WS and bit. LD bit and BHA.
 Note: If circulation is not expected/achieved, notify Remedial Engineer to discuss C/O with bailer (proceed to step #8) or utilize foam/air unit (continue to supplemental procedure at end).
8. PU and RIH with 4-3/4" MT and Bulldog bailer on 2-7/8" 6.5# L-80 WS. Clean out to 4,200'. POOH with 2-7/8" WS and bit. LD bit and BHA.

- **Expect trapped pressure inside tubing while breaking connections during bailing operations, discuss on JSA and mitigate hazard. Use mudbucket (remove bottom seals if applicable) while breaking connections.**
- 9. Contact sonic tool representative to be on-site during job. PU and RIH with Sonic Hammer tool and 2-7/8" Workstring to 3,970' or enough depth to cover the bottom perforations (@ 3,965') with a whole stand. Hydrotest tubing to 6,000 psi. Stand back tubing to top perforations (@ 3,658'). Install stripper head and stand pipe with sufficient treating line to move tools vertically ~ 50'. RU pressure gauges to allow monitoring of tubing and casing pressures during job.
- 10. MI and RU Petroplex equipment. Titrate acids and verify concentration ($\text{HCl} \pm 1.5\%$). Treat all intervals from 3,655' to 3,970' with 20 bbls of 8.6 ppg cut brine water per interval (see **Table 1**). Pump down Sonic Hammer tool at 5 BPM while reciprocating tool across intervals. Do not exceed 5,000 psi tubing pressure. Leave annulus open in circulation mode while treating intervals with brine water.

Perf Intervals for Acid			
Interval (#)	Depth	Net Feet (ft)	Acid Volume (gal)
1	3,655' - 3,700'	45	750
2	3,710' - 3,760'	50	1,000
3	3,760' - 3,790'	30	500
4	3,805' - 3,845'	40	1,000
5	3,845' - 3,880'	35	750
6	3,890' - 3,925'	35	750
7	3,935' - 3,970'	35	500
Total		270	5,250

Table 1

- 11. Follow the brine water wash with 5,250 gals 15% NEFE HCl of total acid for all intervals. Spot 3 bbls of acid outside tubing, shut in casing, pump 750 gals of acid @ 5 BPM over first treating interval from 3,655' – 3,700', monitor casing pressure not exceeding 500 psi on backside. Flush tubing with brine water after every acidizing interval, make a connection and continue with remaining interval. **Refer to Table 1.**
- 12. Shut in well for 1 hr to allow time for acid to spend. Monitor and bleed off excess pressure at surface if necessary to keep casing pressure below 500 psi.
- 13. Scale squeeze well with a total of 165 bbls 8.6 ppg brine water mixed with 4 drums (220 gallons) Baker SCW-358 Scale Inhibitor Chemical. Pump down Sonic Hammer tool at a max rate of 5 BPM. Start from lowest interval of 3,970' – 3,935' and continue moving uphole per pump schedule (see **Table 2**). Ensure top of tubing is flushed with brine water before making a connection.

Scale Squeeze Pump Schedule						
Step		Interval (ft)	Max Rate (BPM)	Volume Brine (bbl)	Volume Scale Chem. (gal)	Cum Volume (bbl)
1	Pump Chemical/brine while moving from	3970' - 3935'	5	6	25	7
2	Pump Brine while moving from	3970' - 3935'	5	9		16
3	Move pipe to next interval of	3925' - 3890'				16
4	Pump Brine while moving from	3925' - 3890'	5	4		20
5	Pump Chemical/brine while moving from	3925' - 3890'	5	8	35	29
6	Pump Brine while moving from	3925' - 3890'	5	8		37
7	Move pipe to next interval of	3880' - 3845'				37
8	Pump Brine while moving from	3880' - 3845'	5	4		41
9	Pump Chemical/brine while moving from	3880' - 3845'	5	7	30	49
10	Pump Brine while moving from	3880' - 3845'	5	9		58
11	Move pipe to next interval of	3845' - 3805'				58
12	Pump Brine while moving from	3845' - 3805'	5	5		63
13	Pump Chemical/brine while moving from	3845' - 3805'	5	8	35	72
14	Pump Brine while moving from	3845' - 3805'	5	12		84
15	Move pipe to next interval of	3790' - 3760'				84
16	Pump Brine while moving from	3790' - 3760'	5	3		87
17	Pump Chemical/brine while moving from	3790' - 3760'	5	5	20	92
18	Pump Brine while moving from	3790' - 3760'	5	7		99
19	Move pipe to next interval of	3760' - 3710'				99
20	Pump Brine while moving from	3760' - 3710'	5	6		105
21	Pump Chemical/brine while moving from	3760' - 3710'	5	11	45	117
22	Pump Brine while moving from	3760' - 3710'	5	13		130
23	Move pipe to next interval of	3700' - 3655'				130
24	Pump Brine while moving from	3700' - 3655'	5	4		134
25	Pump Chemical/brine while moving from	3700' - 3655'	5	7	30	142
26	Pump Brine while moving from	3700' - 3655'	5	29		171

Table 2

14. PU workstring to higher than top perforations. Displace tubing volume with 8.6 ppg cut brine water. Do not exceed 500 psi casing pressure or 5 BPM while pumping scale squeeze or casing flush. Release Petroplex.
15. TOH and LD 2-7/8" WS and Sonic Hammer tool.
16. RIH with 2-7/8" production tubing and hydrotest to 6,000 psi. ND BOP, set TAC, NU WH. RIH with rods and pump per ALCR's recommendation/Rodstar design. Hang well on.
17. RD and release Workover unit. Turn well over to production.

FOAM / AIR CLEANOUT PROCEDURE

- This procedure is an addition to the original procedure.
 1. Install flowback manifold with two chokes. All components on flowback manifold must be rated to at least 5,000 psi. If possible, flowback manifold components should be hydrotested before delivery. Hardline pipes from 2" casing valve to manifold to half pit with gas buster.
 2. Install flowback tank downwind from rig.
 3. Position Air unit upwind from Rig next to water tanks. Have vacuum truck on standby to empty halfpit. (if needed)
 4. RIH with 4-3/4" MT bit, 4 (3-1/2") drill collars on 2-7/8" 6.5# L-80 WS.
 5. NU stripper head with **NO Outlets** (Check stripper cap for thread type - course threads preferred). **Stripper head to be stump tested to 1,000 psi before being delivered to rig.** Check chart or test at rig.
 6. RU foam air unit. Make quality foam on surface before going down hole with foam/air. Install flapper float at surface before beginning to pump. Break circulation with foam/air. Evacuate fluid from well.

Pump high quality foam at all times. Do not pump dry air at any time. Fluid injection rates will generally be above 12 gallons per minute.

Whenever there is pressure on the stripper head, have a dedicated person continuously monitor pressure at choke manifold and have a dedicated person at accumulator ready to close annular BOP in case stripper leaks. Do not allow pressure on stripper head to exceed 500 psi. If pressure cannot be controlled below 500 psi, stop pumping, close BOP and bleed off pressure.

7. Clean out fill to 4,500' with low RPM's rotation and circulation, always keep pipe moving. Short trips can be beneficial to hole cleaning. Circulate well clean for at least 1 hour at the end of the day and pull up above the perforations before shut down for night. If the foam/air unit goes down, pull above the perforations.
8. When tripping out of hole, have special float bleed off tool available to relieve trapped pressure below float.

Ensure that high quality, stiff foam is pumped while circulating the fill. Stiff foam is required to prevent segregation while circulating. Monitor flow and pressures carefully when cleaning out.

Before rigging up power swivel to rotate, carefully inspect Kelly hose to ensure that it is in good condition. Ensure that swivel packing is in good condition.

Continue on with original procedure for completion.

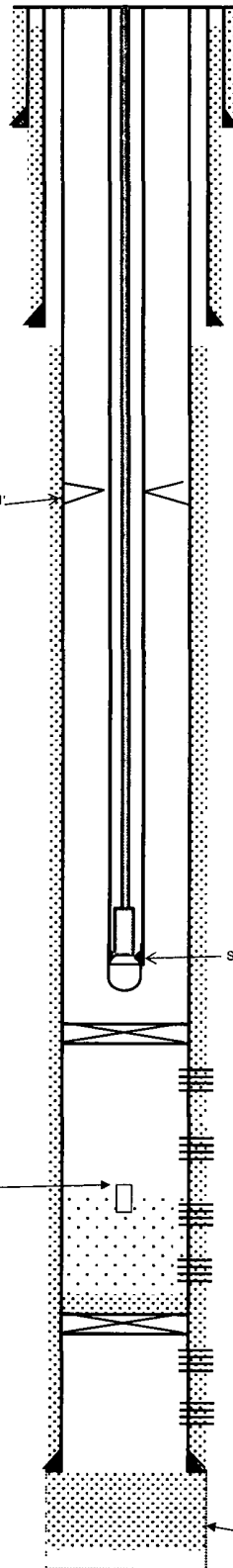
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Well: **L. G. Warlick # 1**Field **Penrose Skelly**Reservoir: **Grayburg***See
oil*

Location:	
990' FNL & 330' FEL	✓
Section 19	✓
Township. 21S	✓
Range 37E Unit: A	✓
County Lea State NM	
N 32° 24' 34 63",	
W -103° 8' 35.20" (NAD27)	

Elevations:
GL: 3511'
KB: 3525'
DF: 3524'

5/17/2012 -
 FL 750' Above Pump
 CP 47 4#, PIP 306 2#
 BHP 1768 1#

Wellbore Diagram

Well ID Info:
Cheveno FB4692
API No 30-025-06669 ✓
L5/L6 BCU496700
Spud Date: 8/8/50
Compl Date: 12/21/54

Surf. Csg: 13 3/8" 50#, (Grade unknown)
Set: @ 315' w/250 sx cmt
Hole Size: 17"
Circ: Yes **TOC:** Surface
TOC By: Circulated

Interm. Csg: 8 5/8" 36#, (Grade unknown)
Set: @ 2821' w/ 850 sx cmt
Hole Size: 11"
Circ: No **TOC:** 163'
TOC By: Calculated

Tubing Detail LOWIS 3/8/2007:

#Jts:	Size	Footage
	KB Correction	14 00
110	Jts 2 7/8" J-55 6 5# T&C EUE	3526 97
	2 7/8" X 5" 5" TAC	2 78
17	Jts 2 7/8" J-55 6 5# T&C EUE	546 74
1	Jts 2 7/8" J-55 6 5# T&C EUE IPI	32 30
	SN @ 4122 79'	1 10
1	TBG SUB 2 7/8" X 4'	4 12
1	CAVINS DESANDER 2 7/8" X 20'	20 20
2	OEMA	64 67
132	Bottom Of Mtr >>	4212.88

ROD DETAIL LOWIS 3/8/2007

	KB Correction	14 00
1	PR 1 5" X 26' SPRAY METAL	26 00
1	2" 1" N-78 (D) ROD SUB	2
62	1" N-78 (D) RODS	1550 00
89	7/8" N-78 (D) RODS	2225 00
12	1 5" K SINKER BARS	300 00
1	INSERT ROD PUMP 2"	20 00
1	STRAINER NIPPLE	0 50
167		4137 50

Perfs:	Status
3658-63'	Grayburg - Open
3670-76'	Grayburg - Open
3687-97'	Grayburg - Open
3714-20'	Grayburg - Open
3724-30'	Grayburg - Open
3736-46'	Grayburg - Open
3749-56'	Grayburg - Open
3765-70'	Grayburg - Open
3778-88'	Grayburg - Open
3808-18'	Grayburg - Open
3824-32'	Grayburg - Open
3837-44'	Grayburg - Open
3850-60'	Grayburg - Open
3868-78'	Grayburg - Open
3892-3902'	Grayburg - Open
3906-10'	Grayburg - Open
3912-20'	Grayburg - Open
3936-44'	Grayburg - Open
3957-65'	Grayburg - Open

5585-5603' Blinebry - BELOW CIBP
 5630-45' Blinebry - BELOW CIBP
 5655-80' Blinebry - BELOW CIBP
 5690-5737' Blinebry - BELOW CIBP

5850' Blinebry - Below Fish
 5873' Blinebry - Below Fish
 5898' Blinebry - Below Fish
 5918' Blinebry - Below Fish
 5933' Blinebry - Below Fish

6275-6325' Tubb - Below CIBP
 6363-80' Tubb - Below CIBP

Prod. Csg: 5 1/2", 15 5# & 17#, (Grade unknown)
Set: @ 6535' w/ 700 sx cmt
Hole Size: 7 7/8"
Circ: No **TOC:** 2800'
TOC By: CBL

OH Cmt Plug fr/ 6541-50'

CIBP @ 5500'**Top Of Fish @ 5760'**

CIBP @ 6100'
 (Unknown cmt on top)

COTD: 5760'
PBTD: 3960'
TD: 6691'

Updated: 5/14/2012

By: SEHE