

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

Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-025-35571

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

B-2118

7. Lease Name or Unit Agreement Name
Leamex

8. Well Number 59W

9. OGRID Number
217817

10. Pool name or Wildcat
Maljamar: Grayburg-San Andres

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 ☒ *IEIS*

2. Name of Operator
ConocoPhillips Company

3. Address of Operator
P. O. Box 51810
Midland, TX 79710

4. Well Location

Unit Letter M : 760 feet from the South line and 700 feet from the West line

Section 24 Township 17S Range 33E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
4120' GR

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 ☐

OTHER: Add Pay ☒

SUBSEQUENT REPORT OF:

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

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.

WFX-775

ConocoPhillips respectfully request to add pay to the Grayburg-San Andres.

Attached are the procedures and a current wellbore schematic.

During this procedure we plan to use the Closed-Loop System and haul content to the required disposal.

Spud Date:

Rig Release Date:

CONDITION OF APPROVAL: Operator shall give the OCD District Office 24 hour notice before running the MIT test and chart.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE *Rhonda Rogers* TITLE Staff Regulatory Technician DATE 09/24/2013

Type or print name Rhonda Rogers E-mail address: rogers@conocophillips.com PHONE: (432)688-9174

For State Use Only

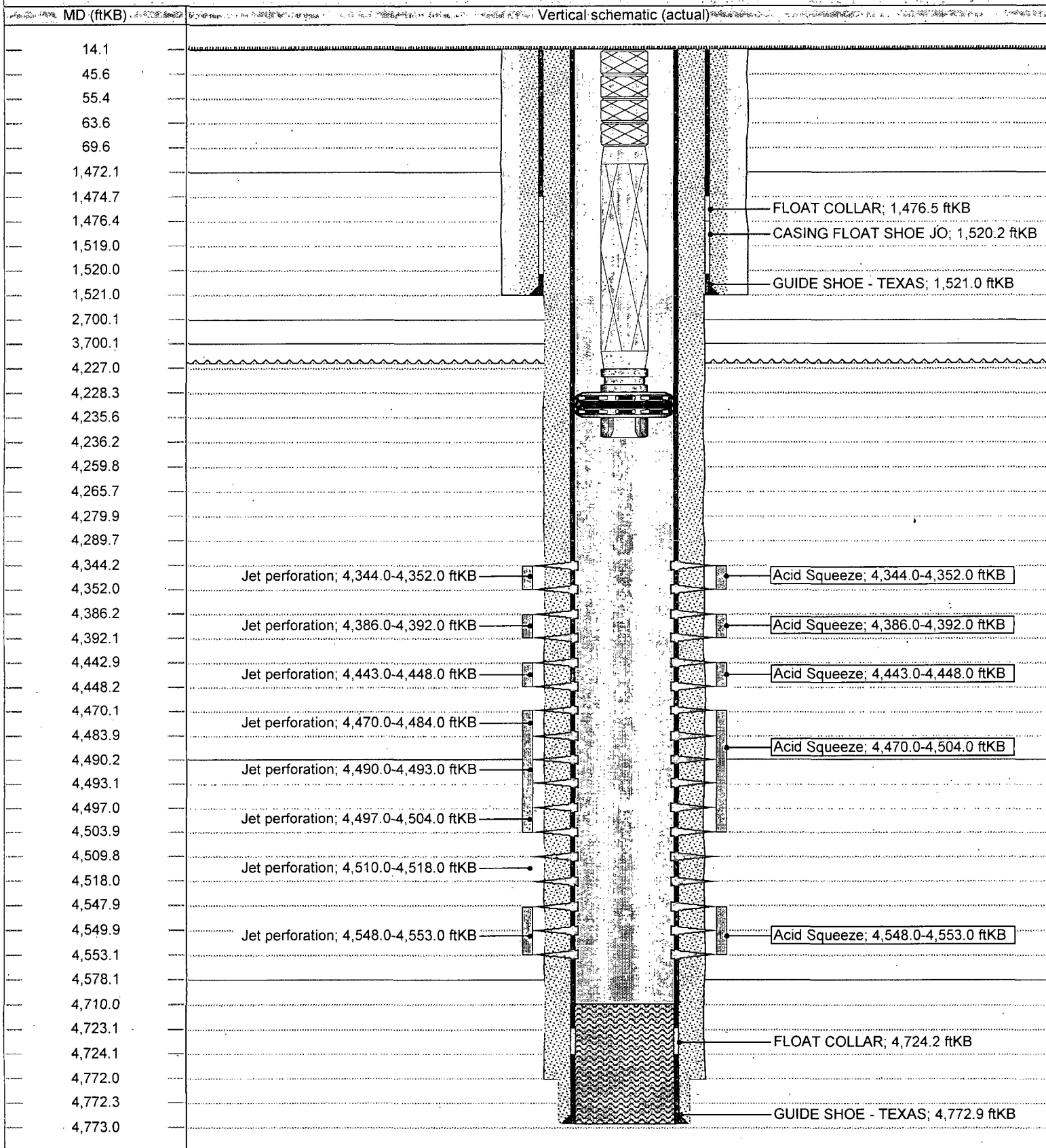
APPROVED BY *[Signature]* TITLE *Dist. Mgr* DATE 9-26-2013

Conditions of Approval (if any):

SEP 26 2013

District PERMIAN	Field Name DISTRICT - SWR-MNT-PB-BUCK	API / UWI 300253557100	County LEA	State/Province NEW MEXICO
Original Spud Date 7/9/2001	Surface Legal Location	East/West Distance (ft) 700.00	East/West Reference W	North/South Distance (ft) 760.00
				North/South Reference S

VERTICAL MAIN HOLE: 9/24/2013 8:16:14 AM





API# 30-025-35571

Leamex-59W: Frac Procedure
Maljamar Field
Lea County, New Mexico

The subject workover consists of re-activating the currently SI Leamex-59W. The Grayburg will be perforated over the interval 4260-4550 and frac-treated w/ 99,500 gal DeltaFrac 140 R(16) w/ 142,000# 16/30 & 20,000 @ CRC 16/30 sand.

The Leamex-59W is to be frac-treated in an effort to improve injection and offset production performance.

The Leamex-59W is offset by the following wells:

Offset	Well	XSPOC-Sourced Well Test				Cumulative Production				
		BOPD	MCFPD	BWPD	Date	BO	MCF	BW	First Prod	Last Prod
	Leamex-59W									
N	Leamex-29	5	12	38	06.15.11	29195	196551	43383	1980/12	2013/01
E	Leamex-31	3	3	4	06.22.11	34335	121177	17705	1982/03	2013/01
S	Leamex-52	3	6	6	07.20.11	28339	134148	20286	1988/11	2013/01
W	Leamex-56	2	4	3	08.09.11	36852	242508	21542	1988/12	2013/01

WELL CATEGORY, BOP CLASS AND EXCEPTIONS

Well Category One:

H2S: 130 ppm (Leamex 5-6 Battery).
Well Rate: SI WIW

<u>H2S</u>	<u>ROE- ft.</u>
100 ppm	0
500 ppm	0

BOPE Class One: Hydraulic BOP recommended.

PROCEDURE

1. Prior to move-in of well service unit:

Spot 7 clean 500 bbl frac tanks. Prior to frac date, load tanks w/ fresh water. Water to be biocide-treated by frac service provider.

2. MI & RU service unit. ND well. NU hydril BOP (last well service: 08.2010).
3. Release PKR & POOH. Scan 2-3/8", 4.7#, J-55 Duo-Line injection tbg while POOH.

The following is a summary of the current down hole well configuration:

Leamex-59W (API: 30-025-35571)			
760 FSL & 700 FWL, 24M-17S-33E			
Elev.: 4134 KB; 4120 GL (KB - GL: 14 ft.)			
	Depth: ft. (RKB)		
	top	btm	
8-5/8", 24#, J-55 (11"-3000# SOW csg head)	surface	1505	07.11.01: Cmt w/ 770 sx. Circ cmt to surface (150 sx)
5-1/2", 15.5#, J-55 (11"-3000# x 7-1/16"-5000# tbg head)	surface	4758	07.21.01: Cmt w/ 1075 sx. Circ cmt to surface (31 sx)
DownHole Detail			
134 jts: 2-3/8", 4.6#, Duo-Line tbg w/	surface	4227	08.18.10: Current string installation date:
1: on-off tool w/ 1.43" F-profile	4227	4228	
1: Arrow-Set 1X nickel-plated PKR	4228	4236	
1: nickel-plated Wire-Line Re-Entry Guide	4236	4236	
Perforated Intervals:			10.24.01:
Grayburg	4320	4328	Zone-3: 4320-4328 (8 ft.: 32 holes)
	4363	4370	Zone-4: 4363-4370 (7 ft.: 28 holes)
	4423	4428	Zone-5: 4423-4428 (5 ft.: 20 holes)
	4450	4455	Zone-5: 4450-4455 (5 ft.: 20 holes)
	4465	4468	Zone-5: 4465-4468 (3 ft.: 12 holes)
	4475	4481	Zone-5: 4475-4481 (6 ft.: 24 holes)
	4488	4494	Zone-5: 4488-4494 (6 ft.: 24 holes)
	4502	4507	Zone-5: 4502-4507 (5 ft.: 20 holes)
	4538	4542	Zone-6: 4538-4542 (4 ft.: 16 holes)
	4547	4549	Zone-6: 4547-4549 (2 ft.: 8 holes)
PBD	4698		08.16.10: Cleaned-out to PBD
TD		4750	07.19.01

- PU & RIH w/ 4-3/4" bit (5-1/2", 15.5# csg), 6: 3-1/2" DC & 2-7/8", 6.5#, N-80 tbg.
RU reverse unit. Clean out to PBD @ 4698.
POOH w/ tbg. LD DCs & bit.
- RU SLB perforating services. NU lubricator & test @ 500#.
Perforate following Grayburg intervals @ 60-degree phasing w/ 3-3/8", PowerJet 3406, HMX, 22.7 gm. (EHD: 0.36 in.; Penetration: 36 in.):

Interval	Feet	SPF	Perforations
4260-4280	20	2	40
4490-4550	60	2	120

RD perforating services.

- RIH w/ 2-7/8", 6.5#, N-80 tbg string w/ PKR (5-1/2", 15.5# csg).

Test tbg below slips @ 8000# while RIH (2-7/8", 6.5#, N-80 Internal Yield Prs: 10,570).
Acidize perforated interval w/ 1500 gal (35.7 bbl) 15% NE Fe HCl:
RIH w/ PKR to 4550
Spot 250 gal 15% HCl (pump 6.0 bbl 15% NE Fe HCl followed by 24.7 bbl fresh water).

SD & allow well to equalize.

Set PKR @ 4180 (between collars: 4158 & 4206)....acid column: 4300-4550

Pump remaining 1250 gal 15% NE Fe HCl

Flush w/ 40 bbl fresh water (capacity to 4550: 33.0 bbl)

Anticipated treating prs: 2700# @ 3 BPM

7. ND BOP. NU 10K frac-valves.

8. RU HES. Set treating line pop-off to release @ 7500#.

Set pump trips @ 7000#

Install spring-operated relief valve on csg-tbg annulus. Pre-set @ 500#.

Load 2-7/8" x 5-1/2" annulus. Note annulus fill volume. Place 200# on csg.

Test surface lines @ 8000#.

Frac down 2-7/8", 6.5#, N-80 tbg w/ 99,500 gal DeltaFrac 140 R(16) w/ 142,000# 16/30 & 20,000 @ CRC 16/30 sand.

Mark flush @ 2#. Flush w/ 1100 gal (26.2 bbl) WaterFrac G R(16)

(capacity to uppermost perforation: 1156 gal; 27.5 bbl).

Anticipated treating rate: 25 BPM @ 5750#:

	Fluid	Proppant	Clean Vol.		Proppant			Slurry Vol			Pump Time @ 25 BPM	
			gal	bbl	ppg	lbs	cum lbs	gal	bbl	cum bbl	min.	cum min.
Pad	DeltaFrac 140 R(16)		35000	833.3	0.00	0	0	35000	833.3	833	33.3	33.3
Stage	DeltaFrac 140 R(16)	16/30	2000	47.6	0.25	500	500	2023	48.2	881	1.9	35.3
Stage	DeltaFrac 140 R(16)	16/30	2500	59.5	0.50	1250	1750	2557	60.9	942	2.4	37.7
Stage	DeltaFrac 140 R(16)	16/30	3000	71.4	0.75	2250	4000	3102	73.9	1016	3.0	40.6
Stage	DeltaFrac 140 R(16)	16/30	3500	83.3	1.00	3500	7500	3659	87.1	1103	3.5	44.1
Stage	DeltaFrac 140 R(16)	16/30	4000	95.2	1.25	5000	12500	4227	100.6	1204	4.0	48.2
Stage	DeltaFrac 140 R(16)	16/30	5000	119.0	1.50	7500	20000	5340	127.1	1331	5.1	53.2
Stage	DeltaFrac 140 R(16)	16/30	6000	142.9	2.00	12000	32000	6544	155.8	1487	6.2	59.5
Stage	DeltaFrac 140 R(16)	16/30	7000	166.7	2.50	17500	49500	7793	185.5	1672	7.4	66.9
Stage	DeltaFrac 140 R(16)	16/30	8500	202.4	3.00	25500	75000	9655	229.9	1902	9.2	76.1
Stage	DeltaFrac 140 R(16)	16/30	10000	238.1	3.50	35000	110000	11586	275.8	2178	11.0	87.1
Stage	DeltaFrac 140 R(16)	16/30	8000	190.5	4.00	32000	142000	9450	225.0	2403	9.0	96.1
Stage	DeltaFrac 140 R(16)	CRC 16/30	5000	119.0	4.00	20000	162000	5906	140.6	2544	5.6	101.8
Flush-1	WaterFrac G R(16)		1100	26.2	0.00	0	162000	1100	26.2	2570	1.0	102.8
Flush-2			0	0.0	0.00	0	162000	0	0.0	2570	0.0	102.8
Flush-3			0	0.0	0.00	0	162000	0	0.0	2570	0.0	102.8
			100600	2395.2		162000		107939	2570.0		102.8	

Report ISIP, SITP(5 min), SITP(10 min) & SITP(15 min). RD HES.
SION to allow resin-coated sand to cure.

9. Flow back well until dead.

10. ND frac-valves. NU BOP.

POOH w/ 2-7/8", 6.5#, N-80 frac string & PKR.

11. RIH w/ 2-7/8", 6.5#, N-80 workstring w/ 6: 3-1/2" DC & 4-3/4" bit.

Clean-out to PBD @ 4698.

Pump 12 bbl biocide-treated water followed by 24 bbl fresh water.
POOH & LD 2-7/8" tbg, DC & bit (biocide-treated column: 4194-4698).

12. RIH w/ 2-3/8", 4.6# (WellView-sourced 4.6#), J-55 Duoline tbg w/
nickel-plated PKR (5-1/2", 15.5#) w/ pump-out plug
on-off tool w/ XN profile (1.875" x 1.791" no-go)
Set PKR @ 4220 (top perf: 4260; collars: 4206 & 4254; previous PKR depth: 4228)
Test 2-3/8" x 5-1/2" annulus @ 600#.
Release from PKR. Circulate well w/ biocide-treated PKR fluid (annular capacity: 77.2 bbl)
Engage on-off tool.
13. ND BOP. NU well. Re-test 2-3/8" x 5-1/2" annulus @ 600#. RD & MO well service unit.
14. Run MIT:
 - a. Notify OCD (Sylvia Dickey) prior to MIT. OCD may elect to witness test.
 - b. RU pump truck to csg.
 - c. Place 550# on 2-3/8" x 5-1/2" annulus.
 - d. Chart pressure for 30 min. (may want to inquire if OCD will accept digital recorded pressure)
 - e. Release csg pressure. Forward chart to Production Specialist for forwarding to Regulatory for filing w/ OCD.
 - f. Record chart data & MIT in WellView.
15. Prs tbg and shear plug. Return well to injection service.