District I

1625 N. French Dr., Hobbs, NM 88240 HOBBS OCD

State of New Mexico Energy Minerals and Natural Resources

Form C-101 June 16, 2008

District II

1301 W. Grand Avenue, Artesia, NM 88210

1000 Rio Brazos Road, Aztec, NM 87410 SEP 1 6 2011 District IV

District IV

⁶ Multiple

1220 S. St. Francis Dr., Santa Fe, NM 87505 **RECEIVED**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit to appropriate District Office

4161'

²⁰ Spud Date

04/20/1961

☐ AMENDED REPORT

Al	PLICA	ATION I	OR PERMI	T TO DRI	LL, RE-EN	TER, DEEP	'EN, PLUGB	BACK, OR A	ADD A ZONE		
ConocoPhil			¹ Operator Name a	and Address		217817 OGRID Number					
3300 N "A"	Ŝt Midl	and, TX	79705			30 -025-01	3 API Number				
3 Prope	rty Code				³ Property Name			5 We	ell No.		
009112	31118	<u> </u>	Leamex					10			
Maljamar; (Grayburg		Proposed Pool 1				¹⁰ Pro	posed Pool 2			
					⁷ Surface Lo	cation					
UL or lot no I	Section 16	Township 17S	Range	Lot Idn	Feet from the 2250	North/South line South	Feet from the 619	East/West line East	Lea		
			⁸ Pro	posed Bottom	Hole Location	If Different Fro	m Surface				
UL or lot no. I	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
	Additional Well Information										
11 Work	Type Code		12 Well Type Code		13 Cable/Rotary	S.D.21	14 Lease Type Code	¹⁵ Gro	und Level Elevation		

Maljamar; Grayburg

²¹ Proposed Casing and Cement Program

18 Formation

Hole Size	Casing Size	Casing weight/foot	Setting Depth	· Sacks of Cement	Estimated TOC
conductor 17 1/4"	13 3/8"	48#	320'	375 sx	surface
12 1/4"	8 5/8"	24 & 32#	4549'	516 sx	2800'
7 7/8"	5 1/2"	17, 15, 17#	11158"	1129 sx	4250'
,	2 3/8"	4.6#	4200'		

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

See attached

17 Proposed Depth

10.525'

Permit Expires 2 Years From Approval
Date Unless Drilling Underway
Plugback

²³ I hereby certify that the information given above is true and com of my knowledge and belief.	OIL CONSERVATION DIVISION
Signature Sharka agains	Approved by:
Printed name: Rhonda Rogers	Title: PETROLEIM BWHNELH
Title: Staff Regulatory Technician	Approval Das: EP 2 1 2011 Expiration Date:
E-mail Address: rogerrs@conocophillips.com	
Date: 9/14/2011 Phone: (432)688-91	74 Conditions of Approval Attached

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

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 & Natural Resources Department OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102
Revised July 16, 2010
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ AP	Number			² Pool Code		³ Pool Name						
30-025-01436			43329	9	Malj	Maljamar; Grayburg-San Andres						
⁴ Property Code ⁵ Pro						roperty Name ⁶ Well Number						
009112 31	118	Leamex	Leamex									
OGRID No					⁸ Operator N	Name				⁹ Elevation		
217817	ŀ	ConocoPh	illips Cor	npany					4161'			
					10 Surface I	_ocation						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line			County	
· I	16	17S	33E		2250	South	619	East		Lea		
			¹¹ Bot	tom Hol	e Location If	Different From	m Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line		County	
¹² Dedicated Acres	13 Joint or	Infill 14 Co	onsolidation	Code ¹⁵ Or	der No.							
40						.,,						

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.

16				17 OPERATOR CERTIFICATION
				I hereby certify that the information contained 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 a mineral or working interest, or to a
				voluntary pooling agreement or a compulsory pooling order heretofore entered
				bute division
				Manuel 209/14/2011
			,	Signature Date
				Rhonda Rogers
				Printed Name
·				rogerrs@conocophillips.com
				E-mail Address
			/ /	E-mail Address
	 		/	18Q IDVEYOR CERTIFICATION
				¹⁸ SURVEYOR CERTIFICATION
			619'	I hereby certify that the well location shown on this plat was
	_		1	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
				11.11.11
		22501	k /	4:11-61 Date of Survey
				·
				Signature and Seal of Professional Surveyor
			İ	
			{	Certificate Number

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

ction A	•					D	ate A	ril 12,	1961	
rator	Phillips	Petroleum (епрапу	Lease		Leamer			··	
1 No.	10 Ur	nit Letter]	Section	16		_Township	17-s	Range_	33-E	NM
ated		Feet From_	south	Line,	619	Feet Dedicated	From	est	40	Li Acr
nty	Ies_		. Elevation	on(later)		PoolUm	ACTEAYS	ed		
e of Pi	roducing	Formation or the only o	owner* in	the dedic	ated	acreage out	lined or	the pl	at below	?
Vaa	₩ N/									
T C + 1		to question	one is "n	o," have	the i	nterests of	all the	e owners	been	
conso	lidated	oy communiti:	zation agr	eement or	othe	rwise? Yes	No_		ir answe	r 15
"yes,	" Type o	f Consolidat to question	two is "n	o." list	all t	he owners a	nd thei	r respec	tive int	erest
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PROCEDURE

- 1. Within 1 week to move-in of well service unit dump 1000 gal xylene down casing-tbg annulus. Pump back xylene to clean-up rods & tbg (estimated contact time: 4.1 hrs @ current surface displacement).
- 2. Spot 12 clean 500 bbl frac tanks. Load tanks w/ fresh water prior to frac date. Water to be biocide-treated by SLB.
- 3. MI & RU service unit (last well service: 09.2009...RTP). POOH w/ rods & pump. NU hydril BOP. POOH & LD prod tbg. The following is a well file source summary of current well configuration:

	· · ₁ · · · · · · · · · · · · · · · · · · ·	1	
<u>.</u>			Leamex-10 (API: 30-025-01436)
			2250 FSL & 619 FEL, 16 I-17S-33E
	Interva	I (RKB)	Elev.: 4174 KB; 4161 GL (KB - GL. 13 ft.)
	top	btm	
13-3/8", 48#, H-40	surf	320	04 20.61: Cmt w/ 375 sx. Cmt circ to surface
8-5/8", 32#, J-55	surf	65	05.02.61. Cmt w/ 516 sx TOC @ 2800 (temp survey)
8-5/8", 32#, H-40	65	2430	
8-5/8", 24#, J-55	2430	3586	
8-5/8", 32#, H-40	3586	4549	
5-1/2", 20#, N-80	surf	62	06.17.61° Cmt w/ 935 sx. TOC 4250 (temp survey)
5-1/2", 17#, J-55	62	644	
5-1/2", 15.5#, J-55	644	3936	
5-1/2", 14#, J-55	3936	4045	01 09 85 Slotted slip-jt w/ lead seal csg patch @ 4045
5-1/2", 14#, J-55	4045	6258	01 11.85. Cmt 5-1/2" x 8-5/8" annulus w/ 785 sx
5-1/2", 15.5#, J-55	6258	7528	Circ cmt to surf Close annulus Sq to 1000#.
5-1/2", 17#, J-55	7528	8235	,
5-1/2", 17#, N- 80	8235	10749	
5-1/2", 20#, N- 80	10749	11158	
Wolfcamp Perforated Intervals			
	10532	10540	07.01 61 Perforate @ 2 spf
•,	10640	10648	07.01.61: Perforate @ 2 spf
	10690	10694	07.01.61. Perforate @ 2 spf
	10724	10742	07.01.61: Perforate @ 2 spf
	11050	11064	06 19.61 Perforate @ 2 spf
Remnants of CIBP	11070	11071	07 01.87 Knocked/pushed CIBP remnants to 11070
PBD	11071		
TD		11160	

- 4. RIH w/ 2-7/8" production tbg w/ 4-1/2" bit & 5-1/2", 20# csg scraper to 10525 (uppermost perforation: 10532). POOH.
- 5. RIH w/ 2-7/8" production tbg w/ CIBP. Set CIBP (5-1/2", 20#) @ 10450 (within 50-100 ft. of uppermost perforation @ 10532). Circulate well w/ inhibited biocide-treated fresh water (well capacity w/ tbg: 225 bbl). Close pipe-rams. Test csg (CIBP) @ 500# (bottom-hole test prs: 5025# @ CIBP).

Cap CIBP @ 10450 w/ 25 sx Class H cmt;

Mix & pump 25 sx Class H (5.9 bbl)
Displace cmt w/ 58.9 bbl fresh water.
Pull EOT to 9800 ft. (top of cmt: 10197). SD minimum 4 hr.
RIH & tag cmt. POOH.

POOH & LD 2-7/8" production tbg.

6. RU SLB.

RIH w/ wire-line CIBP. Set CIBP-2 @ 4700 (5-1/2", 14#, J-55 section: 3936-6258).

Run gamma ray/neutron/collar log over interval: 3000-4700 (CIBP). Correlate log to Schlumberger GR/N log of 06.15.61 (San Andres top: 4466)

NU lubricator & test @ 500#.

Perforate following Grayburg intervals @ 60-degree phasing w/ 3-3/8", HSD PowerJet 3406, HMX, 22.8 gm. (EHD: 0.37 in.; Penetration: 37 in.):

Interval	Feet	SPF	Perforations
4290-4295	5	1	6
4300-4305	5	1	6
4310-4315	5	1	6
4320-4325	5	1	6
4330-4335	5	1	6
4350-4355	5	1	6
4360-4365	5	1	6
4370-4375	5	1	6
4380-4385	5	1	6
4390-4395	5	. 1	6
4410-4415	5	1	6
4420-4425	5	1	6
4430-4435	5	1	6
4440-4445	5	1	6
4450-4455	5	1	6
Total	75		90

7 PU & RIH w/ 2-3/8", 4.7#, J-55 work string w/ PKR & RBP. Test tbg below slips @ 4500# while RIH (2-3/8", 4.7#, J-55 Internal Yield Prs: 7700#).

Acidize perforated intervals w/ total of 108 bbl (4536 gal) 15% NE Fe HCl:

Perforated Interval 4410-4455: Acidize w/ 36 bbl 15% NEFE HCI

Set RBP @ 4500 (below lowermost perforation @ 4455).

Pull EOT to 4455. Pump 17 bbl 15% NEFE HCI. SD & allow well to equalize.

Set PKR 4405 (between perforations, 4395-4410)

Pump remaining 19 bbl 15% NEFE HCl. Flush w/ 20 bbl fresh water.

(Anticipated treating prs: 3000# @ 3 BPM)

Record ISIP, SITP(5 min), SITP(10 min) & SITP(15 min)

Perforated Interval 4350-4395: Acidize w/ 36 bbl 15% NEFE HCI

Set RBP @ 4405 (between perforations: 4395-4410).

Pull EOT to 4395. Pump 17 bbl 15% NEFE HCl. SD & allow well to equalize.

Set PKR @ 4340 (between perforations: 4335-4350).

Breakdown w/ water

Pump remaining 19 bbl 15% NEFE HCl. Flush w/ 20 bbl fresh water.

Record ISIP, SITP(5 min), SITP(10 min) & SITP(15 min).

NOTE:

If unable to break down 4350-4395 @ 4000#, reset PKR @ 4275 (above uppermost perforation @ 4290) and combine treatments for 4350-4395 & following 4290-4335.

Perforated Interval 4290-4335: Acidize w/ 36 bbl 15% NEFE HCI

Set RBP @ 4340 (between perforations: 4335-4350).

Pull EOT to 4335. Pump 17 bbl 15% NEFE HCl. SD & allow well to equalize.

Set PKR @ 4275 (above uppermost perforation @ 4290).

Pump remaining 19 bbl 15% NEFE HCl. Flush w/ 20 bbl fresh water.

(Anticipated treating prs: 3000# @ 3 BPM)

Record ISIP, SITP(5 min), SITP(10 min) & SITP(15 min).

POOH w/ tbg, PKR & RBP.

8. PU & RIH w/ 3-1/2", 9.3#, N-80 tbg w/ PKR (5-1/2", 17#). Test tbg @ 8500# while RIH (3-1/2", 9.3#, N-80 Internal Yield Prs: 10,160#).

Set PKR @ 4100 (below csg patch @ 4045 & between csg collars....refer to cased-hole log). Test 3-1/2" x 5-1/2" annulus & PKR @ 500#.

RU SLB. Set treating line pop-off to release @ 8500#.
 Set pump trips @ 8000#.
 Install spring-operated relief valve on csg-tbg annulus. Pre-set @ 500#.
 Load 3-1/2" x 5-1/2" annulus. Note annulus fill volume. Place 200# on csg.
 Test surface lines @ 9000#.

Frac 4290-4455 down 3-1/2", 9.3#, N-80 tbg w/ 205,000 gal YF120ST & 250,000# 20/40 Premium White sand & 45,000# 20/40 Super LC. Mark flush @ 1#. Flush w/ 1600 gal WF110

(capacity to uppermost perforation: 1692 gal; 40.3 bbl). Anticipated treating rate: 30 BPM @ 4800#

			Clean Vol Proppai		ppant	Slurn	/ Voi	Pump Time @ 30 BPM		
	Fluid	Proppant	gal	<u>bbl</u>	ppg	<u>lbs</u>	gal	<u>bbl</u>	<u>mın</u>	cum mın
Pad	YF120ST		65000	1547.6	0 00	0	65000	1547 6	51 6	51.6
Stage	YF120ST	20/40 Premium White	5000	119 0	0.25	1250	5057	120.4	4.0	55.6
Stage	YF120ST	20/40 Premium White	5000	119 0	0.50	2500	5113	121.7	4.1	59.7
Stage	YF120ST	20/40 Premium White	5000	119.0	0.75	3750	5170	123.1	4.1	63 8
Stage	YF120ST	20/40 Premium White	5000	119 0	1.00	5000	5227	124.4	4.1	67.9
Stage	YF120ST	20/40 Premium White	10000	238 1	1.25	12500	10566	251 6	8.4	76.3
Stage	YF120ST	20/40 Premium White	10000	238 1	1.50	15000	10680	254.3	8 5	84 8
Stage	YF120ST	20/40 Premium White	10000	238.1	1.75	17500	10793	257.0	8.6	93.3
Stage	YF120ST	20/40 Premium White	10000	238 1	2.00	20000	10906	259.7	8.7	102.0
Stage	YF120ST	20/40 Premium White	15000	357 1	2.25	33750	16529	393.5	13.1	115 1
Stage	YF120ST	20/40 Premium White	15000	357.1	2 50	37500	16699	397.6	13 3	128.4
Stage	YF120ST	20/40 Premium White	15000	357 1	2.75	41250	16869	401 6	13 4	141.8
Stage	YF120ST	20/40 Premium White	20000	476.2	3.00	60000	22718	540 9	18 0	159.8
Stage	RCP YF120ST	20/40 Super LC	15000	35 <u>7.1</u>	3.00	45000	17039	405 7	13 5	173.3
Flush	<u>WF110</u>		<u>1600</u>	<u>38.1</u>	<u>o</u>	<u>o</u>	<u>1600</u>	<u>38.1</u>	1.3	174.6
	•		206600	4919 0		295000	219964	5237.2		

Report ISIP, SITP(5 min), SITP(10 min) & SITP(15 min). RD SLB. SDON.

- 10. SION to allow resin-coated sand to cure. Flow back well until dead. POOH w/ 3-1/2", 9.3#, N-80 frac string & PKR.
- 11. RIH w/ 2-3/8", 4.7#, J-55 tbg w/ 4-1/2" bit & 5-1/2", 20# csg scraper. Tag for fill (lowermost perforation: 4455; CIBP 4900). POOH & LD 2-3/8", J-55 work string, bit & scraper.
- 12. Well is surface equipped w/ C456-365-120. Operate w/ existing 106" stroke @ current 7.2 SPM. Downhole equip w/ 1-1/2" pump as per PROPOSED design in WellView. Anticipated surface production @100% runtime: 200 BPD. Estimated post-frac load volume 5,000 bbl.

	Capacity		Internal D	Diam. in	Internal Yield (Burst) psi		
	bbl / ft	gal /ft	nom.	drıft	100%	80%	
2-3/8", 4 7#, J-55	0 00387	0 1624	1.995	1 901	7700	6160	
3-1/2", 9 3#, N-80	0.0087	0 3652	2 992	2.867	10160	8128	
5-1/2", 14#, J-55	0.0244	1.0249	5.012	4.887	4270	3416	
2-3/8" x 5-1/2", 14#	0.0189	0.7948					
3-1/2" x 5-1/2", 14#	0 0125	0.5251					
3-1/2" x 5-1/2", 15.5#	0 0119	0.4999					
3-1/2" x 5-12/", 17#	0.0113	0.4766					