District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 S. 1st Street, Artesia, NM 88210-2834 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Depart. at

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-101 Revised October 18, 199 Instructions on bac Submit to Appropriate District O State Lease - 6 Copie Fee Lease - 5 Copie

A	MENDED	REPORT
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APPLIC	CATIO	N FOR P	ERMIT	TO D	RILL, RE-	ENT	ER. D	FFPFN	PILICE	ACV OD AT	ND 4 70.5-	
APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBAC 1 Operator name and Address								2 OG	² OGRID Number			
Phillips Petroleum Company									OGIGD Nulliper			
4001 Penbrook Street									017643			
Odessa, TX											PI Number	
⁴ Pro	perty Code		5 Property Name						30-0 25-29815			
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		MILDON! (QUEEN)			L						
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	_		71		Cable	:/ Kotai	y	14 Leas	e Type Code	¹⁵ Ground L	evel Elevation	
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I hereby certify that the information given above is true and complete to the back my knowledge and belief.					nplete to the be	OIL CONSERVATION DIVISION)NI	
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rinted name: L. I	inted name: L. M. SANDERS					 Title:				· · · · · · · · · · · · · · · · · · ·		
supervisor, regulation/proration						Approval Date:						

District I

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811 S. 1st Street, Artesia, NM 88210-2834

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State of New Mexico

Liergy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

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OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-102 ent Revised October 18, 199 Instructions on bac Submit to Appropriate District O

State Lease - 4 Copie Fee Lease - 3 Copie

AMENDED REPORT

20 00-	' API Number			² Pool Co			ICATION PLAT					
	25-29815				³ Pool Name							
⁴ Proper	ty Code				5 Prop	erty Na	 me	WILDCAT (Q	UEEN)			
009				LEANEY Well N					ell Number			
7 OGRI	D No.		LEAMEX 8 Operator Name				39					
017	643		Phillips Petroleum Company						9 Elevation			
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PHILLIPS 66

PHILLIPS PETROLEUM COMPANY

INTER-OFFICE CORRESPONDENCE

OFFICE:

New Mexico Exploitation Team, Phillips South West Region

DATE:

13 March 2000

TO:

JACK LOWDER

SUBJECT:

LEAMEX 39 QUEEN TEST

Background:-

The subject well is currently producing in Grayburg / San Andres at 2 BO/D, 2 BW/D and 8 MSCF/D. The current perfs will be isolated and Queen perfs added and stimulated. A downhole test is recommended for this interval to determine the Queen Productivity.

A gradient survey and measurement of downhole pressures will determine:-

- 1) Loading problems.
- 2) Perm and Skin.
- 3) Reservoir Pressure for drainage volume estimate.

Downhole Conditions

Reservoir Pressure/Temp

expected to be less than 5000 psi/90 degF

Gauge Requirements

3 Bottom hole memory gauges to record downhole pressures and temperatures (two quartz and one strain gauge). Downhole gauges are to be RIH. The gauge company will determine sampling frequency and memory requirements prior to test.

Flow Rate and Other Measurements

Details of test gas, condensate and water rates must be provided for tests analysis. A test separator is therefore required.

Perforation Depths

Perforations are in the Lower Queen at the following depths: 4059-4069 (cased)

Recommended Procedure Ε.

- 1. MIRU DDU. Hook up workover pit. POOH w/ rods and pump. ND wellhead and NU shop tested, Class 1 BOP and environmental tray.
- 2. TOOH w/ 2 3/8" tubing. Visually inspect tubing while pulling. If condition is good, use tubing as workstring. If not, lay down 2 3/8" tubing and PU 2 7/8" workstring.
- 3. TIH w/ casing scraper to 4250'+/-. TOOH w/ casing scraper.
- 4. MIRU wireline. Run GR-CCL log from 4250' to 3950'. Perforate Queen 4059-4069' w/ 4 SPF (44 holes, 0.38" diameter, 90 degree phasing) using 4" casing gun as per Dresser Atlas Compensated Z-Densilog/Compensated Neutron/Gamma Ray Log dated 1/10/87 (log section attached). RDMO
- 5. PU and TIH with 5 1/2" production packer, two profile nipples (contact ARC Pressure Data at 800-375-7728 for nipple types to be used in testing), on/off tool, and CIBP on workstring. Test workstring to 6000# while GIH. Set CIBP at 4120'+/-. Set packer at 4100'+/- and test CIBP to 1000#. Release packer and spot 500 gal 15% NEFE HCL across perfs. Set packer at 4000'+/-.
- 6. Test surface lines to 5000 psig and pressure annulus to 500 psig. Fracture treat Queen perfs 4059-4069' w/ 7000 gallons of Delta Frac 20 carrying 21,000 lbs of 16/30 mesh brown sand. Ramp sand concentration from 1-6 ppg. Treat at 8 BPM and max P of 5000 psig as follows:
 - a. Pump 2000 gallons of Waterfrac 20.
 - b. Pump 2000 gallons of Delta Frac 20.
 - c. Pump 2000 gallons of Delta Frac 20 w/ 1-4 ppg of 16/30 brown sand (4,939 lbs).
 - d. Pump 2000 gallons of Delta Frac 20 w/ 4-6 ppg of 16/30 brown sand (9,975 lbs).
 - e. Pump 1000 gallons of Delta Frac 20 w/ 6 ppg of 16/30 brown sand (6,000 lbs).
 - f. Flush w/ 16 barrels of slick water.
 - g. Record ISIP.
 - h. Flow back well @ 1-2 BPM until closure.
 - i. Shut in well until gel breaks.
- 7. Install choke manifold, flare, and flare pit. RU swab equipment and swab well in. RD swab equipment. If 2 3/8" production tubing used as workstring, go to step #9. If 2 7/8" tubing used as workstring, set blanking plug in packer. TOOH and LD workstring.
- 8. TIH with 2 3/8" production tubing. Remove blanking plug.
- 9. ND BOP and NU WH. RDMO workover pit.
- 10. RDMO DDU and place well on production. Take fluid samples downstream of choke and record surface pressure and choke setting every hour. Flow until well cleans up and pressure stabilizes. Install test separator if gas is produced. Follow attached 3/13/00-test procedure from Rex Owen.

Jack T. Lowden

Jack T. Lowder 3/13/00

Phillips Petroleum Company - Southwest Region March 3, 2000

	RKB 4177' DF 4176'	Lease & Well No.:	Leamex #39
	GL 4166'	Well Category: Area: Subarea: Legal Description:	One Status : Active New Mexico Maljamar Field : Maljamar Grayburg/San Andres API #30-025-29815 1805' FSL, 1980' FEL, Sec 21, T-17-S, R-33-E
		Spudded: Completed:	Lea County, New Mexico 01/01/1987 02/15/1987
	8 5/8" Casing (12 1/4" hole) set @ 1538', 1000 sx cmt. Circ. 250 sx 37 jts - 24# K-55 ST&C	44/6-80', an Acdzd 4532-4 Acdzd 4282-4 Frac'd 4282-4 and 62,000 ll	urg 4282-86', 4411-15', 4456-63', ld 4532-44' w/ 2 spf (62 holes) 4544' w/ 1800 gal 15% NEFE HCI 4480' w/ 1900 gal 15% NEFE HCI 4544' w/ 32,000 gal x-linked 2% KCI wtr bs 20-40 mesh sand 40 bo, 18 mcf, 18 bw / 24 hrs
		Prod before: F	1544' overall w/ 2000 gal 15% NEFE HCI / 1 drum Techni-Hib 756 in 20 BW Pmpd 25 bopd, 18 mcfd, 15 bwpd npd 17 bopd, 12 mcfd, 25 bwpd on 2/22/88
1 2	Grayburg Perforations	Prod before: F	.544' overall w/ 1500 gal 15% NEFE HCI Pmpd 25 bopd, 1 mcfd, 1 bwpd on 12/8/91
	4282' - 4286' w/ 2 SPF (8 holes)	Prod after: Pm	npd 10 bopd, 10 mcfd, 6 bwpd on 7/17/92
	4411' - 4415' w/ 2 SPF (8 holes)	Equipment Data as a 142 jts 2 3/8" 4.7# J	-55 Tubing @ 4580'
	4456' - 4463' w/ 2 SPF (14 holes)	TAC @ 4187', SN @ 2" x 1 1/4" x 16' rod	pump
	4476' - 4480' w/ 2 SPF (8 holes)	48 7/8" D rods and 1	33 3/4" D rods
	4532' - 4544' w/ 2 SPF (24 holes)		
	5 1/2" Casing (7 7/8" hole) set @ 4805', 1600 sx cmt. Circ. 304 sx		
PBTD: 4744' TD: 4805'	117 jts - 17# K-55 ST&C		

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