Cupe File GO19

### Levers Federal No. 1

### Log-off Test

### Introduction

The purpose of this log-off test is to satisfy an NMOCD request that one be conducted prior to granting the Levers Federal No. 1 well a hardship classification. This log-off test will determine the minimum flowrate at which this well can flow without endangering its ability to produce. The varying flowrate tests can be conducted in 24 hour cycles.

#### Well Data

Location: 1594' FNL & 660' FWL of Section 2, T-21S, R-25E, Eddy County, New Mexico

TD: 10,362' PBTD: 9390' Elev: 3311' KB Zero: 13' AGL

Casing: 16", 65#, H-40 casing @241' w/250 sx 9-5/8", 36#, J-55 casing @ 2764' w/1325 sx 7", 23#, J-55 & N-80 casing @ 9495' w/350 sx

Tubing: 256 jts, 3-1/2", 9.3#, EUE 8rd @ 7805'

Production Packer: Baker Model D pkr @ 7805 w/10 pts compression

Perforations: Cisco perfs @ 8088, 90, 92, 94, 96, 98, 8100, 02 & 04 w/1 jspf

Recommended Procedure:

Note: The log-off test is anticipated to take approximately 4-5 days.

Keep all documentation of testing, this will be required as proof for the NMOCD.

Please notify Mr. Mike Williams, NMOCD in Artesia @ (505) 748-1283 prior to commencing test and of daily results.

This well produced an average of 8 BOPD, 2323 BWPD and 564 MCFGPD for April, 1987 on wide open choke.

Due to GCNM plant turn around all gas production is temporarily being flared.

- 1. Insure wellhead choke is properly calibrated and operational. Zero out prior to commencing log-off test.
- 2. Install 1000 psi surface pressure recorder with a minimum 24 hour clock upstream of choke.
  - a. Check pressure gauge on backside and replace if necessary.
  - b. Note casing pressure at beginning of test and check for anomalies for duration of test.

### Page 2

- 3. Accurate production tests will be necessary throughout duration of test therefore:
  - a. Gauge oil production tanks and note beginning counter reading on water disposal at the start of each cycle.
  - b. Install new gas chart (24 hr minimum) on meter run upstream of flare.

### Begin Log-off Test

- 4. Adjust choke setting to reduce gas flow rate by approximately 25% to about 425 MCFGPD.
  - a. Allow stabilization of surface pressure and flow rate, open choke as necessary if evidence of logging off is apparent.
  - b. Record chokesettings and all stabilized flowrates and pressures, with the appropriate time of day.
  - c. Continue the test cycle for a 24 hours.
- 5. For following cycles repeat step 4.
  - a. Attempt to reduce the previous days flowrate by 25%.
- 6. Continue testing until a minimum flow rate is established. Do not allow well to die, if so nitrogen lifting will be necessary to resume production.

Approvals:

Production Engineer

luction Engineer

Division Engineering Manager

Production Superintendent

Date

Date

5/4/87 Date

JER:jr cc: JER, BLB, RRP, FEP, EEL, PAB, ELK



38418 3Y: JER 5/1/87

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			FIOW	Test NO.	
Company Conoco Lean	e and Wel	1 No	Lever	s Fed	<u>#1</u>
Pool Name Springs Cisco Boot	:ton_2_	Township_	21	Range	25
Min. Rate Requested by Co. 350	_Mcf Date	Test Start	.ed5	113/82	
Date Test Ended Time Te	est Starte	d 9:00	_Time Te	st Ended_	
Company Rep. Lcc					
Division Rep. <u>Mw</u>					
PRODUCTION DATA					
DIL/CONSENSATE		W	ATER me	eter	910813 912193
Tank No. 97/05 Size 380	<u></u>	Tank No.		Size	
Closing Gauge Bbls	<u>obl</u> s	Closing Gau	ge'	_ Bbls.	1380 25 H
Opening Gauge Bbls		Opening Gau	ge	Bbls.	
Total Produced Bbls	_	Total Produ	ced	Bbls.	
	- <u></u> ,				
Total Fluid - Condensate + Water					
GAS MEASUREMENT DATA		<u></u> .		·	
Orfice Meter Static Lbs	#	Diff	erential	-Inches	100''
Meter Loop Size3		Plat	e Size	1.375	
Flange Tap	Or Píp	e Tap			
Chart L-10	Or Sta	ndard			
Gag Gravity	Averag	e Gas Temp.	<u></u>		
		•			
Choke Size /0//4	Tubin	- Recorder	Range		Lbs.
	Casin	Recorder 1	Pange	Game	Lbs
Tubing Opening Programs 375	Casin	g Accorder ,		<u> </u>	<u> </u>
Tubing Opening Pressure	Casin	g Opening P.	ressure	1600	<u> </u>
rubing closing Pressure		y crosing P		180	
the very stabilize in 24 nour test j	/	h=0	NO	<u>-</u>	•
TT IES NOW TONG BEADILIZED LIGHT	<u> </u>				
		antiel	•	- <u>-</u>	
	ye Dirfer(	Ctat But			ator
	X	SLAC. EXT.	X	vemp. Fa	
	1048_323	ricr =	- 6 HRS (	- (-7800) ali to 24	HRS
* Maxium During Night 460		L. (Venter (D)			- · · · <del>·</del>
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	Flow T	est No. 4
Company Consco L	ease and Well No. Levers	Fed #1
Pool Name Springs Cisco B	action 2 Township 21	Range 25
Min. Rate Requested by Co. 350	Mcf Date Test Started 5/1	2/87
Date Test Ended 5/13/87 Time	Test Started 5:00 Time Test	: Ended <u>9:00</u>
Company Rep. Lec		
Division Rep. mw	· · · · · · · · · · · · · · · · · · ·	
PRODUCTION DATA		1. 209294
OIL/CONSENSATE	WATER ME	ter delert
Tank No. 97105 Size 3.	80 Tank No.	Size
Closing Gauge Bbls	2 Closing Gauge	" Bbls. 15/9
Opening Gauge" Bbls	Opening Gauge	Bbls.
Total Produced Bbls.	Total Produced	Bbls
		****
Total Fluid - Condensate + Water		
GAS MEASUREMENT DATA		
Orfice Meter Static Lbs.	5co#Differential-I	Inches 100
Meter Loop Size3	Plate Size	1.375
Flange Tap	Or Pipe Tap	
Chart L-10	Or Standard	
Gae Gravity	Average Gas Temp	<del></del>
WELL DATA	Muldar Deserver Deser	
	Tubing Recorder Range	LDS.
		Gauge LDS.
Tubing Opening Pressure 365	Casing Opening Pressure	1600
Tubing Closing Pressure 375	Casing Closing Pressure	TECC
Did well stabilize in 24 hour te	st period? Yes No	
If YES how long stabilized flow?	<u> </u>	
CALCULATIONS		······································
Average StaticAve	erage Difterential	
Urtice FactorX Diff	X Stat. Ext. X	Temp. Factor
X Sp.Gr. Factor = Volu	ome/Gas <u>572</u> MCF ÷ Fluid	1521
<b>387</b> Fluid/Gas Patio	o Cu. ft./bbl.	





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	Flow Test No. 8
Company Conoco Leas	e and Well No. Levers Fed #1
Pool Name Springs Cisco Beat	Ion 2 Township 21 Range 25
Min. Rate Requested by Co. 350	Mcf Date Test Started 5/11/87
Date Test Ended 5/12/87 Time Te	st Started <u>9:00</u> Time Test Ended <u>9:00</u>
Company Rep. Lcc	
Division Rep. <u>ryw</u>	· · · · · · · · · · · · · · · · · · ·
PRODUCTION DATA	·
OIL/CONSENSATE	WATER Meter 807 712
Tank No. 97/05 Size 380	Tank No Size 80 7 294
Closing Gauge / 7 " Bbls.	Closing Gauge Bbls. 1582
Opening Gauge / 7 " Bbls	Opening Gauge Bbls
Total Produced Bbls.	Total Produced Bbls.
Total Fluid - Condensate + Water	
GAS MEASUREMENT DATA	
Orfice Meter Static Lbs/500#	Differential-Inches_/00 "
Meter Loop Size3	Plate Size 1.375
Flange Tap	Or Pipe Tap
Chart L-10	Or Standard
Gag Gravity	Average Gas Temp
WELL DATA	
Choke Size 17/4	Tubing Recorder Range / 000 Lbs.
	Casing Recorder Range Gauge Lbs.
Tubing Opening Pressure350	Casing Opening Pressure /6004
Tubing Closing Pressure 365	Casing Closing Pressure 16004
Did well stablilize in 24 hour test	period? Yes No
If YES how long stabilized flow?	2.3 hrs.
CALCULATIONS	
Average StaticAvera	ge Differential
Orfice FactorX Diff	X Stat. ExtX Temp. Factor
X Sp.Gr. Factor = Volume	/Gas 607 MCF ; Fluid 1582
384 Eluid/Con Patio C	u ft./bbl.

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	Flow Test No7
Company Conaco Lease	and Well No. Levers Fed -41
Pool Name Springs Cisco Beetle	: on <u>Z</u> Township <u>Z</u> Range <u>25</u>
Min. Rate Requested by Co. 350	Mcf Date Test Started 5/12/27
Date Test Ended 5/11/87 Time Test	t Started 9:00 Time Test Ended 9:00
Company Rep. / Lec	
Division Rep. MW	
PRODUCTION DATA	
OIL/CONSENSATE	WATER METER 805880
Tank No. 97105 Size 3	Size
Closing Gauge <u>/ 7</u> Bbls. <u>2</u>	_ Closing Gauge Bbls/74/
Opening Gauge / ' G Bbls	Opening Gauge Bbls
Total Produced Bbls.	Total Produced Bbls
Total Fluid - Condensate + Water	
GAS MEASUREMENT DATA	
Orfice Meter Static Lbs. / Soc *	Differential-Inches 100
Meter Loop Size3	Plate Size 1.375
Flange Tap	Or Pipe Tap
Chart L-10	Or Standard
Gag Gravity	_Average Gas Temp
ND11 DATA	
WELL DATA	Tubing Recorder Range Long Lbs.
WELL DATA Choke SizeZe/4	Tubing Recorder RangeLbs.
WELL DATA Choke Size Z0/4	Tubing Recorder RangeLbs. Casing Recorder RangeLbs.
WELL DATA Choke Size Zo/4 Tubing Opening Pressure 3.30 Tubing Closing Pressure 2.50	Tubing Recorder RangeLbs. Casing Recorder RangeLbs. Casing Opening PressureCoc
WELL DATA Choke Size <u>20/4</u> Tubing Opening Pressure <u>3.30</u> Tubing Closing Pressure <u>3.50</u> Did well stablilize in 24 hour test po	Tubing Recorder RangeLbs. Casing Recorder RangeLbs. Casing Opening PressureLocLbs. Casing Closing PressureLoc Loc
WELL DATA Choke Size <u>20/4</u> Tubing Opening Pressure <u>3.30</u> Tubing Closing Pressure <u>3.50</u> Did well stablilize in 24 hour test per If VES how long stabilized flow?	Tubing Recorder RangeLbs. Casing Recorder RangeLbs. Casing Opening PressureCoc Casing Closing PressureCoc Priod? YesNo 7.2 hrs
WELL DATA Choke Size <u>20/4</u> Tubing Opening Pressure <u>330</u> Tubing Closing Pressure <u>350</u> Did well stablilize in 24 hour test per If YES how long stabilized flow? CALCULATIONS	Tubing Recorder Range 1000 Lbs. Casing Recorder Range George Lbs. Casing Opening Pressure 1600 Casing Closing Pressure 1600 Priod? Yes No 22 hrs.
WELL DATA Choke Size Tubing Opening Pressure3_30 Tubing Closing Pressure350 Did well stablilize in 24 hour test per If YES how long stabilized flow? CALCULATIONS	Tubing Recorder RangeLbs. Casing Recorder RangeLbs. Casing Opening PressureLoco Casing Closing PressureLoco Casing Closing PressureLoco Loc
WELL DATA Choke Size <u>20/4</u> Tubing Opening Pressure <u>3.30</u> Tubing Closing Pressure <u>3.50</u> Did well stablilize in 24 hour test per If YES how long stabilized flow? <u>CALCULATIONS</u> Average Static <u>Average</u> Orfice Factor <u>V Diff</u>	
WELL DATA Choke Size Zold Tubing Opening Pressure 330 Tubing Closing Pressure 350 Did well stablilize in 24 hour test per If YES how long stabilized flow?	

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	Flow Test No
Company Conoco Lea	ase and Well No. Fevers Fed #1
Pool Name 501,050 (,960 800	E ption_2_Township_21_Range_25
Min. Rate Requested by Co. 350	Mcf Date Test Started 5/9/87
Date Test Ended 5/10/87 Time T	Test Started 9:00 Time Test Ended 7:00
Company Rep. Lee	
Division Rep. mu	
PRODUCTION DATA	
OIL/CONSENSATE	WATER Meter 804336 > 805
Tank No. 97105 Size 380	D Tank No Size
Closing Gauge / ' 6 Bbls. 3	3.3 Closing Gauge Bbls. 1808
Opening Gauge 1 4 " Bbls.	Opening Gauge Bbls
Total Produced Bbls	Total Produced Bbls.
Total Fluid - Condensate + Water	
GAS MEASUREMENT DATA	
Orfice Meter Static Lbs	Differential-Inches_100
Meter Loop Size3	Plate Size 1.375
Flange Tap	Or Pipe Tap
Chart L-10	Or Standard
Gas Gravity <u>65</u>	Average Gas Temp. /18 ~ ( 20
VELL DATA	
Choke Size 164	Wubing Becorder Banga (000 The
میں میڈینان کار بی کاران ہوتی ہی کا ان کار بی اور ایک کر ہے کہ یہ وہ میں کا ایک کر اور ایک کر ایک کار بیک	Idding Recorder Range 7000 Lbs.
	Casing Recorder Range <u>Garge</u> Lbs.
Tubing Opening Pressure 320	Casing Recorder RangeLbs. Casing Opening PressureLoc
Tubing Opening Pressure 320 Tubing Closing Pressure 330	Casing Recorder Range <u>Gauge</u> Lbs. <u>Casing Opening Pressure</u> <u>1600</u> <u>Casing Closing Pressure</u> <u>1600</u>
Tubing Opening Pressure 320 Tubing Closing Pressure 330 Did well stablilize in 24 hour test	Casing Recorder Range <u>George</u> Lbs. <u>Casing Opening Pressure</u> <u>1600</u> <u>Casing Closing Pressure</u> <u>1600</u> period? Yes No
Tubing Opening Pressure 320 Tubing Closing Pressure 330 Did well stablilize in 24 hour test If YES how long stabilized flow?	Casing Recorder Range <u>George</u> Lbs. <u>Casing Opening Pressure</u> <u>1600</u> <u>Casing Closing Pressure</u> <u>1600</u> period? Yes No <u>hrs.</u>
Tubing Opening Pressure 320 Tubing Closing Pressure 330 Did well stablilize in 24 hour test If YES how long stabilized flow? CALCULATIONS	Casing Recorder Range <u>Gauge</u> Lbs. Casing Opening Pressure <u>1600</u> Casing Closing Pressure <u>1600</u> period? Yes No hrs.
Tubing Opening Pressure <u>320</u> Tubing Closing Pressure <u>330</u> Did well stablilize in 24 hour test If YES how long stabilized flow? CALCULATIONS Average StaticAvera	Casing Recorder Range <u>George</u> Lbs. Casing Opening Pressure <u>1600</u> Casing Closing Pressure <u>1600</u> period? Yes No hrs.
Tubing Opening Pressure 320 Tubing Closing Pressure 330 Did well stablilize in 24 hour test If YES how long stabilized flow? CALCULATIONS Average Static Average Orfice Factor X Diff	Casing Recorder Range <u>Gauge</u> Lbs. Casing Opening Pressure <u>1600</u> Casing Closing Pressure <u>1600</u> period? Yes No hrs. age Differential X Stat. Ext. X Temp. Factor

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Flow fest No.
Company CONOCO Lease and Well No. Levers Fed #1
Pool Name Springs (isco Bection Z Township 21 Range 25
Min. Rate Requested by Co. 350 Mcf Date Test Started 5/8/87
Date Test Ended 5/1/87 Time Test Started 9:30 Time Test Ended 4:30
Company Rep. Lec
Division Rep. Mw
PRODUCTION DATA
OIL/CONSENSATE WATER - Meter - 802372
Tank No. 97105 Size 380 Tank No Size
Closing Gauge Bbls Closing Gauge Bbls. 1964
Opening Gauge 1'4" Bbls. O Opening Gauge Bbls.
Total Produced Bbls. Total Produced Bbls. Bbls.
Total Fluid - Condensate + Water
GAS MEASUREMENT DATA
Orfice Meter Static Lbs. 1500 # Differential-Inches 100
Meter Loop Size 3 Plate Size 1.375
Frange TapOr Fipe Tap
Chart L-10Or Standard
Chart L-10     Or Standard       Gas Gravity     65   Average Gas Temp. 254 110-120*
Chart L-10 Or Standard Gas Gravity 65 Average Gas Temp. 254 110-120 WELL DATA
Chart L-10 Or Standard Gas Gravity 65 Average Gas Temp. 24 110-120 WELL DATA Chala Stan
Chart L-10     Or Fipe Tap       Chart L-10     Or Standard       Gas Gravity     65       Average Gas Temp. est 110-120*       WELL DATA       Choke Size       27/64       Tubing Recorder Range       1000       Lbs.
Chart L-10Or Standard Gas Gravity65Average Gas Temp110-120 WELL DATA Choke Size27/64Tubing Recorder RangeLbs. Casing Recorder RangeLbs.
Pringe Tap       Or Pipe Tap         Chart L-10       Or Standard         Gas Gravity       65         WELL DATA         WELL DATA         Choke Size         27/64         Tubing Recorder Range         Casing Recorder Range         Lbs.         Tubing Opening Pressure         310       Casing Opening Pressure
Plange Tap       Or Pipe Tap         Chart L-10       Or Standard         Gas Gravity       65         Average Gas Temp. est 110-120         WELL DATA         Choke Size         27/64         Tubing Recorder Range         Casing Recorder Range         Lbs.         Casing Recorder Range         Lbs.         Tubing Opening Pressure         Tubing Closing Pressure         320       Casing Closing Pressure         1600
Chart L-10 Or Standard   Gas Gravity 65   Average Gas Temp. est 110-120 WELL DATA Choke Size 27/64 Tubing Recorder Range 1000 Lbs. Casing Recorder Range Gauge Lbs. Tubing Opening Pressure 310 Casing Opening Pressure 1600 Tubing Closing Pressure 320 Casing Closing Pressure 1600 Did well stablilize in 24 hour test period? Yes No
Chart L-10 Or Standard   Gas Gravity 65   Average Gas Temp. est 110-120 WELL DATA Choke Size 27/64 Tubing Recorder Range 1000 Lbs. Casing Recorder Range 600 65 Casing Opening Pressure 1600 1
Plange rap Of Pipe rap   Chart L-10 Or Standard   Gas Gravity 65   Average Gas Temp. est 110-120   WELL DATA   Choke Size 27/64   Tubing Recorder Range 1000   Lbs.   Casing Recorder Range   Gasing Pressure   310   Casing Opening Pressure   1600   Tubing Closing Pressure   320   Casing Closing Pressure   1600   Did well stablilize in 24 hour test period?   Yes   No   If YES how long stabilized flow?   24   hrs.
Plange rap Or Pipe rap   Chart L-10 Or Standard   Gas Gravity 65   Average Gas Temp. est 110-120   WELL DATA   Choke Size 21/64   Tubing Recorder Range 1000   Lbs.   Casing Recorder Range   Gasing Opening Pressure   310   Casing Opening Pressure   1600   Tubing Closing Pressure   320   Casing Closing Pressure   1600   Did well stabilize in 24 hour test period?   Yes   No   If YES how long stabilized flow?   24   Average Static   Average Differential
Chart L-10Or Fipe Tap Chart L-10Or Standard Gas Gravity65Average Gas Temp. est 110-120 WELL DATA Choke Size27/64Tubing Recorder Range1000 Lbs. Casing Recorder RangeLbs. Tubing Opening Pressure1000 Lbs. Casing Opening PressureLbs. Tubing Closing PressureCasing Opening PressureL600 Did well stabilize in 24 hour test period? Yes No If YES how long stabilized flow?Ahrs. CALCULATIONS Average Static Average Differential Orfice FactorX DiffX Stat. ExtX Temp. Factor





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		Flow Test No4
Company Conoco	Lease and Well No	Levers Fed #1
Pool Name Springs (1500	Bestion 2 Township	<u>2ι</u> Range 25
Min. Rate Requested by Co. 39	Mcf Date Test Start	ed <u>5/7/87</u>
Date Test Ended 5/8/87 Tim	me Test Started 9:30	Time Test Ended 9:30
Company Rep. Lee	· · · · · · · · · · · · · · · · · · ·	
Division Rep. Mw		
PRODUCTION DATA		·
OIL/CONSENSATE	<u>₩</u>	ATER mater 800370
Tank No. 97/05 Size	380_ Tank No.	Size
Closing Gauge /' 4 Bbls.	Closing Gau	ge Bbls. 2062
Opening Gauge / 4 Bbls.	Opening Gau	ge Bbls
Total Produced Bbls.	Total Produ	ced Bbls
Total Fluid - Condensate + Water GAS MEASUREMENT DATA	· · · · · · · · · · · · · · · · · · ·	
Orfice Meter Static Lbs/ 500	Diff	erential-Inches 100 3.82
Meter Loop Size 3	Plat	e Size 1.375 11.9
Flange Tap	Or Pipe Tap	
Chart L-10	Or Standard	
Gas Gravity 65	Average Gas Temp.	Est 110-120
WELL DATA		
Choke Size 30/64	Tubing Recorder	Range / doc Lbs.
	Casing Recorder )	lange Gauge Lbs.
Tubing Opening Pressure 300	Casing Opening Pi	cessure 1600
Tubing Closing Pressure 310	Casing Closing Pi	essure 1600
Did well stablilize in 24 hour t	est period? Yes	No
If YES how long stabilized flow?	<u>23</u> hrs.	
CALCULATIONS		
λverage Staticλ	verage Differential	•
Orfice FactorX Diff	X Stat. Ext.	X Temp. Factor
X Sp.Gr. Factor Vo	lume/Gas 759 MCF :	Fluid 2002
379 Pluid/Gas Pat	io Cu. ft./bbl.	
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	Flow Test No. 3
Company Conoco	Lease and Well No. Levers Fed # )
POOL NAME SPEINAS CISCO	Bestion Z Township Z   Range ZS
Min. Rate Requested by Co.	350 Mcf Date Test Started 5/6/87
Date Test Ended 5/2/27 Th	me Test Started <u>9:30</u> Time Test Ended <u>9:30</u>
Company Rep. Lee Lehn.	<u> </u>
Division Rep. mu	
PRODUCTION DATA	
OIL/CONSENSATE	WATER - meter 79,8009
Tank No. 97/05 Size.	380_ Tank No Size
Closing Gauge / ' 4 " Bbls.	Closing Gauge Bbls. 236
Opening Gauge / 4 Bbls.	Opening Gauge Bbls
Total Produced Bbls.	Total Produced Bbls.
Total Fluid - Condensate + Water	f
GAS MEASUREMENT DATA	
Orfice Meter Static Lbs.	500# Differential-Inches 100 (
Meter Loop Size 3	Plate Size 1,375
Flange Tap	Or Pipe Tap
Chart L-10	Or Standard
Gag Gravity 65	Average Gas Temp. <u>E54 110°-120</u> °
WELL DATA	
Choke Bize 36/64	
	Casing Recorder Range Gener Lbs.
Tubing Opening Pressure 300	Casing Opening Pressure /600
Tubing Closing Pressure 300	Casing Closing Pressure 1600
Did well stablilize in 24 hour t	est period? Yes V No
If YES how long stabilized flow?	24hrs.
CALCULATIONS	
Average StaticA	verage Differential
Orfice FactorX Diff	X Stat. ExtX Temp. Factor
X Sp.Gr. Factor vo	luine/Gas 815 MCF ÷ Fluid 236
Fluid/Gas Pat	io Cu. ft./bbl.





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Flow Test No. 2
Company Conoco Lease and Well No. Levers Fed #1
Pool Name Springs (isco Beotion 2 Township 21 Range 25
Min. Rate Requested by Co. 350 Mcf Date Test Started 5/5/87
Date Test Ended 5/6/87 Time Test Started 9:30 Am Time Test Ended 9:30 Am
Company Rep. Lee Lebman
Division Rep. Mike Williams
PRODUCTION DATA
OIL/CONSENSATE WATER - Meter 798009
Tank No.         97105         Size 380         Tank No.         Size
Closing Gauge / 4 Bbls. O Closing Gauge 98'005 Bbls. 2328
Opening Gauge / 4 "Bbls Opening Gauge7 <u>956810</u> " Bbls. <u>2328</u>
Total Produced Bbls. Total Produced Bbls. Bbls.
Total Fluid - Condensate + Water
GAS MEASUREMENT DATA
Orfice Meter Static Lbs. /500 <sup>+</sup> Differential-Inches /00 <sup>-</sup> (3.
Meter Loop Size 3 Plate Size 1.375 (114
Flange TapOr Pipe Tap
Chart L-10Or Standard
Gas Gravity 65 Average Gas Temp. Est 110°-120°
WELL DATA
Choke Size 44/64" Tubing Recorder Range 1000 Lbs.
Casing Recorder Range (range Lbs.
Tubing Opening Pressure 4 300 Casing Opening Pressure/600
Tubing Closing Pressure 300 <sup>#</sup> Casing Closing Pressure/600
Did well stablilize in 24 hour test period? Yes No
If YES how long stabilized flow? Z4 hrs.
CALCULATIONS
Average Static Average Differential
Average StaticAverage Differential Orfice FactorX DiffX Stat. ExtX Temp. Factor
Average StaticAverage Differential Orfice FactorX DiffX Stat. ExtX Temp. Factor X Sp.Gr. Factor= Volume/Gas <u>827</u> NCF : Fluid 2328
Average StaticAverage Differential Orfice FactorX DiffX Stat. ExtX Temp. Factor X Sp.Gr. Factor= Volume/Gas 827NCF : Fluid_2328 369Fluid/Gas Patio Cu. ft./bbl.

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Flow Test No. 1 Normal Production
Company Conoco Lease and Well No. Levers Fed #1
Pool Name & Springs Cisco Beotion Township Range
Min. Rate Requested by Co. 350 Mcf Date Test Started 5/4/87
Date Test Ended 5/5/87 Time Test Started 7:30 Time Test Ended 7:30
Company Rop. Lec Lehman
Division Rep. mw
PRODUCTION DATA
OIL/CONSENSATE 1.67 Bbl/in WATER - mater
Tank No. 97105 Size 380 Tank No Size
Closing Gauge $//4$ "Bbls. 7 Closing Gauge 795' (8) "Bbls. = 2528 Bw
Opening Gauge"Bbls Opening Gauge"Bbls
Total Produced Bbls. Total Produced Bbls.
Total Fluid - Condensate + Water 2535
GAS MEASUREMENT DATA
Orfice Meter Static Lbs. 1500 Differential-Inches 100 (3.873)
Meter Loop Size 3 Plate Size 1.375 (3.843)(11.94)
Flange TapOr Pipe Tap
Chart L-10 /Or Standard
Gas Gravity 65 Average Gas Temp. Est 110-120
WELL DATA
Choke Bize Open-3/4 Steam •7/64 Tubing Recorder Range /000 Lbs.
Casing Recorder Range <u>Nonc</u> Lbs.
Tubing Opening Pressure 3 CO Casing Opening Pressure O
Tubing Closing Pressure 300 Casing Closing Pressure 0
Did well stablilize in 24 hour test period? Yes V No
If YES how long stabilized flow?hrs.
CALCULATIONS
Average StaticAverage Differential
Orfice FactorX DiffX Stat. ExtX Temp. Factor
X Sp.Gr. Factor = Volume/Gas <u>827</u> MCF : Fluid <u>2535</u>
Fluid/Gas Patio Cu. ft./bbl.

A.S. Ģ CHART NO. L-D 92.7 MCF METER OHART PUT CI. LOOTION LEVERS Check. REMERKS Flare ALEMONT FREE MILEST ò ç, ç 드 K3 6

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![](_page_32_Picture_1.jpeg)

**PROJECT COMPUTATIONS** 

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DATE \_\_\_\_\_ PROJECT \_\_\_\_\_ JOB NO. \_\_\_\_\_

BY \_\_\_\_\_ CHK .: \_\_\_\_\_ SUBJECT Log Off Test - Conoca Inc - Levers Fed #1

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Date	Choke	ТР	B.O.	<u></u> Βω.	TF	Gas	Grs Fluid Ratio	Remarks
5/5/87	64/64	300 <sup>8</sup>	7	2528	2535	827	326	Chake has 3/4" stem - Normal Production
5/6/87	44/64	300#	Ð	2328	2 328	827	355	-200 BW OMEF GER+ 29
5/7/87	36/14	300#	0	2361	2361	815	345	+ 33 BW - 12 MEF GFR - 10
5/8/87	30/64	310#	0	2002	2002	759	379	- 359 BW - 46 MCF GFR +34
5/9/87	27/64	320*	0	1964	1964	740	377	-38 BW - 19MCF GFR2
5/10/87	24/64	330#	3	/808	/8Z/	666	366	- 156 BW - 74 MCF GFR -11
5/11/87	20/64	350#	Z	1741	1743	629	361	- 67 BW - 37 MCF 6FR - 5
5/12/87	17/64	365*	Ð	/5 <del>8</del> 2	1582	607	384	- 139BW - 22MCF GFR + 23
5/13/87	13/64	375#	z	1519	/521	592	389	-630W -ISMCF GFR +5
5/14/87	19/24	375.400	0	/ 380	1380	555	40Z	Flowed 6 HRS on 10/64" before bropping Well flowed e a rate of 555 mcF perday. W/a Gas flord ratio of 402 mcFPD - Well either logged off immediately or there is a possibility the Chk plugged off or partielly plugged off. Wtr-139 mcF-36 GFR +13
	35/64					400		

STATE OF NEW MEXICO

# ENERGY AND MINERALS DEPARTMENT

**OIL CONSERVATION DIVISION** 

July 30, 1987

GARREY CARRUTHERS

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

Conoco Inc. P.O. Box 460 Hobbs, New Mexico 88240

Attention: Hugh Ingram

Re: Federal "34" Well No. 1, 960 FSL & 1980 FWL, Unit (N) Section 34, Township 20 South, Range 26 East

Levers Federal Well No. 1, 1594 FNL & 660 FWL, Unit (E) Section 2, Township 21 South, Range 25 East

Dear Sir:

Reference is made to your request dated July 8, 1987 for an increase in the minimum approved flow rate for the above referenced approved hardship gas wells. It is our understanding that the log off tests which were required to be conducted on these wells as per the provisions of R-8425 and R-8427 have been completed and that the results of the tests have been verified by Mr. Mike Williams of the Artesia district office of the Division.

By authority granted me under the provisions of Division Order Nos. R-8425 and R-8427, the minimum flow rates for the above referenced wells are hereby approved as follows:

### WELL

### MINIMUM APPROVED FLOW RATE

270 MCFPD

Federal "34" Well No. 1

Levers Federal Well No. 1

### 500 MCFPD

Sincerely William J. Le Mav Director

9079, 9080 xc: Case Files: OCD-Hobbs

![](_page_34_Picture_0.jpeg)

**R. E. Irelan** Division Manager Production Department Hobbs Division North American Production

![](_page_34_Picture_2.jpeg)

Conoco Inc. P.O. Box 460 726 East Michigan Hobbs, NM 88240 (505) 393-4141

July 8, 1987

William J. Lemay, Director State of New Mexico Energy and Minerals Department Oil Conservation Division Santa Fe, NM 87501

Dear Sir:

Federal 34 No. 1 - Hardship Gas Well - Order No. R-8427

Conoco Inc. performed the required log-off test on the subject well as dictated in Order No. R-8427. Mike Williams of the Artesia District Office witnessed the test and submitted the results and documentation to your office. Conoco Inc. concurs with Mr. Williams and officially reports an average minimum sustainable flow rate of 270 MCFPD. We request that this rate be designated the minimum approved flow rate for the subject well. If you have any questions regarding the log-off test, please contact Hugh Ingram or Becky Barnes at (505) 393-4141.

Very truly yours,

R.E. Julan PATO

RLB:mgt

cc: file, HAI

![](_page_35_Picture_0.jpeg)

R. E. Irelan Division Manager Production Department Hobbs Division North American Production DECENTY JUL 2 3 1987 Conoco Inc. P.O. Box 460 726 East Michigan Hobbs, NM 88240 (505) 393-4141

July 8, 1987

William J. Lemay, Director State of New Mexico Energy and Minerals Department Oil Conservation Division Santa Fe, NM 87501

Dear Sir:

### Levers Federal No. 1 - Hardship Gas Well - Order No. 8425

SANTA FE

Conoco Inc. performed the required log-off test on the subject well as dictated in Order No. R-8425. Mike Williams of the Artesia District Office witnessed the test and submitted the results and documentation to your office. Conoco Inc. concurs with Mr. Williams and officially reports a minimum sustainable flow rate of 488-518 MCFPD. Test results indicated a borderline log-off condition at 488 MCFPD and a strong, continuous flow rate at 518 MCFPD. We request that 500 MCFPD be designated the minimum approved flow rate for the subject well. If you have any questions regarding the log-off test, please contact Hugh Ingram or Becky Barnes at (505) 393-4141.

Very truly yours,

R.E. Bulan

RLB:mgt cc: file, HAI

## STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION ARTESIA DISTRICT OFFICE

January 12, 1987

GARREY CARRUTHERS Governor P.O. DRAWER DD ARTESIA, NEW MEXICO 88210 (505) 748-1283

Conoco, Inc. P.O. Box 460 Hobbs, New Mexico 88240

Case 9079

DISTRICT II ENGWC NO. 24

Re: Emergency Hardship Gas Well Classification Levers Federal No. 1-E-2-21-25 Springs Upper Penn Pool

Gentlemen:

Under provisions of Rule 411, you are hereby granted an emergency hardship classification for the above captioned well. This well is not to be produced in excess of 619 MCFD.

In the matter of permanent hardship classification for this well, it has been set for an examiners hearing on February 18, 1987.

Please notify Mr. Mike Williams, of this office, of your log-off test schedule.

Very truly yours,

Íes A. Clements Supervisor District II

LAC/mm

cc Vic Lyon Gas Co. of New Mexico Florene Davidson Harold Garcia Mike Williams

![](_page_37_Picture_0.jpeg)

## STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

ARTESIA DISTRICT OFFICE

January 12, 1987

P.O. DRAWER DD ARTESIA, NEW MEXICO 88210 (505) 748-1283

GARREY CARRUTHERS Governor

> Conoco, Inc. P.O. Box 460 Hobbs, New Mexico 88240

Cati 0,09

DISTRICT II EHGWC NO. 24

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Very truly yours,

fes A. Clements Supervisor District II

LAC/mm

cc Vic Lyon Gas Co. of New Mexico Florene Davidson Harold Garcia Mike Williams