

ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]  
 [A] Location - Spacing Unit - Simultaneous Dedication  
 NSL  NSP  SD
- Check One Only for [B] or [C]  
 [B] Commingling - Storage - Measurement  
 DHC  CTB  PLC  PC  OLS  OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX  PMX  SWD  IPI  EOR  PPR
- [D] Other: Specify \_\_\_\_\_

- IPI 508  
 - Chevron USA, Inc  
 4323

RECEIVED OOD  
 JUN 23 10 30 AM '16

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or  Does Not Apply  
 [A]  Working, Royalty or Overriding Royalty Interest Owners  
 [B]  Offset Operators, Leaseholders or Surface Owner  
 [C]  Application is One Which Requires Published Legal Notice  
 [D]  Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office  
 [E]  For all of the above, Proof of Notification or Publication is Attached, and/or,  
 [F]  Waivers are Attached

- 6241  
 - Central Valley  
 #14  
 30-025-25811  
 - Central Valley  
 #120  
 30-025-25801  
 Pool  
 - Valley Grant  
 San Andres

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

62180

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

**Note:** Statement must be completed by an individual with managerial and/or supervisory capacity.

CINDY HERRERA-MURILLO		PERMITTING SPECIALIST	06/21/2016
Print or Type Name	Signature	Title	Date
		Cherreramurillo@chevron.com	
		e-mail Address	

Submit 1 Copy To Appropriate District Office  
 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

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-103  
 Revised July 18, 2013

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

WELL API NO. 30-025-25811
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name CENTRAL VACUUM UNIT
8. Well Number 14
9. OGRID Number 4323
10. Pool name or Wildcat VACUUM; GRAYBURG SAN ANDRES
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3990' GL

**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 INJECTOR

2. Name of Operator  
CHEVRON USA INC

3. Address of Operator  
1616 W. BENDER BLVD HOBBS, NM 88240

4. Well Location  
 Unit Letter E LOT 2 : 2630 feet from the NORTH line and 1283 feet from the WEST line  
 Section 30 Township 17S Range 35E NMPM County LEA

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: RESULTS OF STEP RATE TEST <input checked="" type="checkbox"/>	

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 USA INC. IS REQUESTING FOR AN INCREASE IN PRESSURE LIMIT ON THE ABOVE WELL.

PLEASE FIND ATTACHED RESULTS OF A STEP RATE TEST THAT WAS RUN ON 06/07/2016.

EXPECTED RATE,BWPD : 1800  
 EXPECTED PRESSURE,PSI: 2000

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 Cindy Herrera-Murillo TITLE PERMITTING SPECIALIST DATE 06/21/2016

Type or print name CINDY HERRERA-MURILLO E-mail address: Cherreramurillo@chevron.com PHONE: 575-263-0431

**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any):

# **CHEVRON**

## **CENTRAL VACUUM UNIT # 14**

June 8, 2016

## JOB INFORMATION SHEET

Company Information	
Company Name:	CHEVRON
Address:	1500 LOUISIANA STREET HOUSTON, TX 77002
Well Information	
Well Name:	CENTRAL VACUUM UNIT # 14
Field – Pool:	VACUUM
Status:	SHUT-IN
Test Information	
Type of Test:	STEP RATE
Gauge Depth:	4395'
Production Interval:	4400'-4812'
Production Through:	TUBING
Tubing Pressure:	2125 psi
Casing Pressure:	0 psi
Status:	SHUT-IN
Temperature @ Run Depth	90.25 degF
Surface Temperature:	83.59 degF
Comments	
FRAC @ 1800 B/D 2025 SURFACE PSI 3773 BOTTOM HOLE PRESSURE	

QES

CHEVRON  
1500 LOUISIANA STREET  
HOUSTON, TX 77002

## WELL INFORMATION SHEET

Well:	CENTRAL VACUUM UNIT # 14		
Well License:		Unique Well Identifier:	30-025-25811
Company:	CHEVRON		
Field:	VACUUM		

Location:		County:	LEA
Formation:		State:	NM
Purpose:	STEP RATE TEST	Country:	USA

Total Depth:	4395'	ID Borehole:	N/A
Packer Depth:	4365'	ID Production Casing:	4"
Depth of whipstock:	N/A	OD Production Tubing:	2.375"
Depth at which casing is landed:	4870'	ID Production Tubing:	1.9'
Depth at which tubing is landed:	4365'	ID Drill Pipe:	N/A

QES

## Gradient Data Report

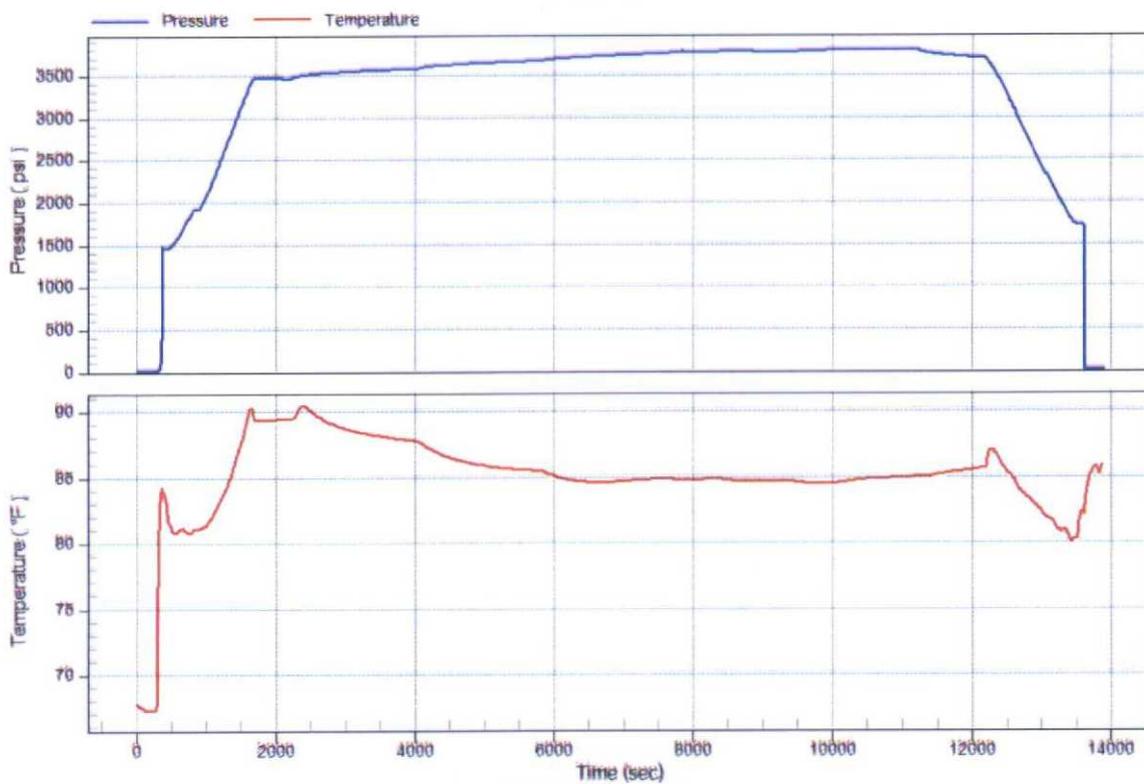
CHEVRON  
CENTRAL VACUUM UNIT # 14

### Gradient Data Table

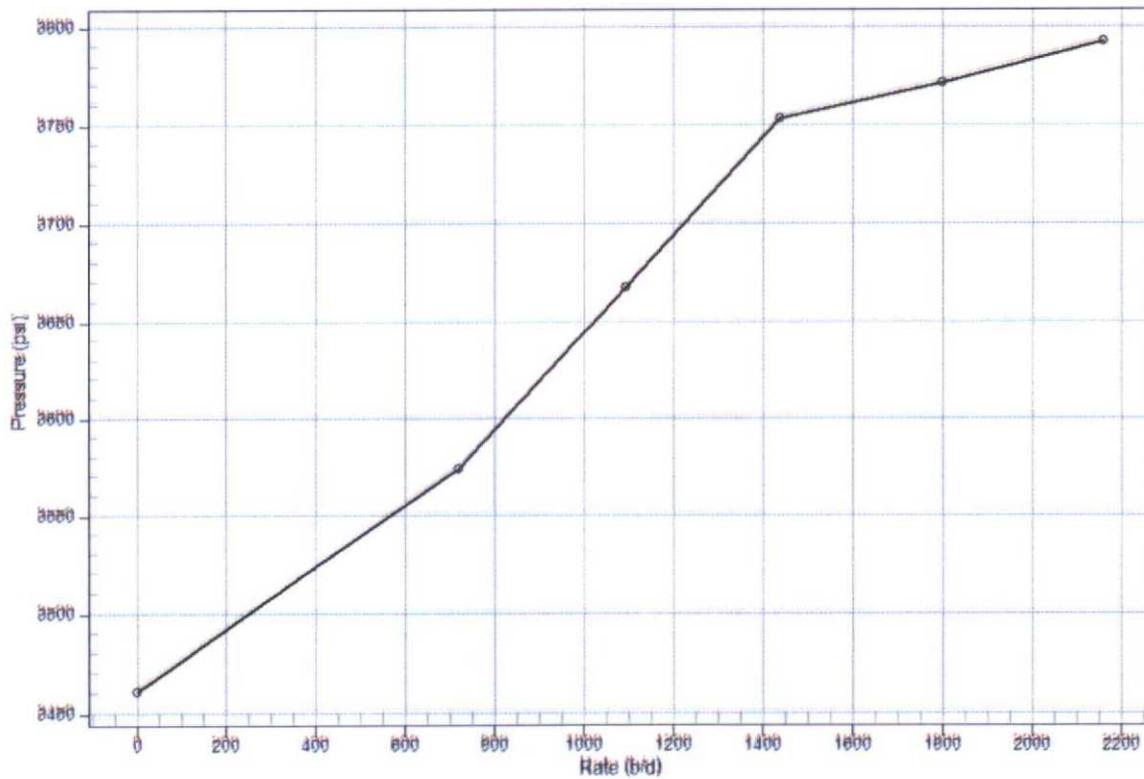
Rate b/d	Pressure psi	Temperature degF	Gradient psi/rate
0.00	3461.19	89.23	0.0000
720.00	3574.47	87.50	0.1573
1094.00	3667.69	85.25	0.2493
1440.00	3753.45	84.60	0.2479
1800.00	3771.21	84.39	0.0493
2160.00	3792.58	84.77	0.0593

QES

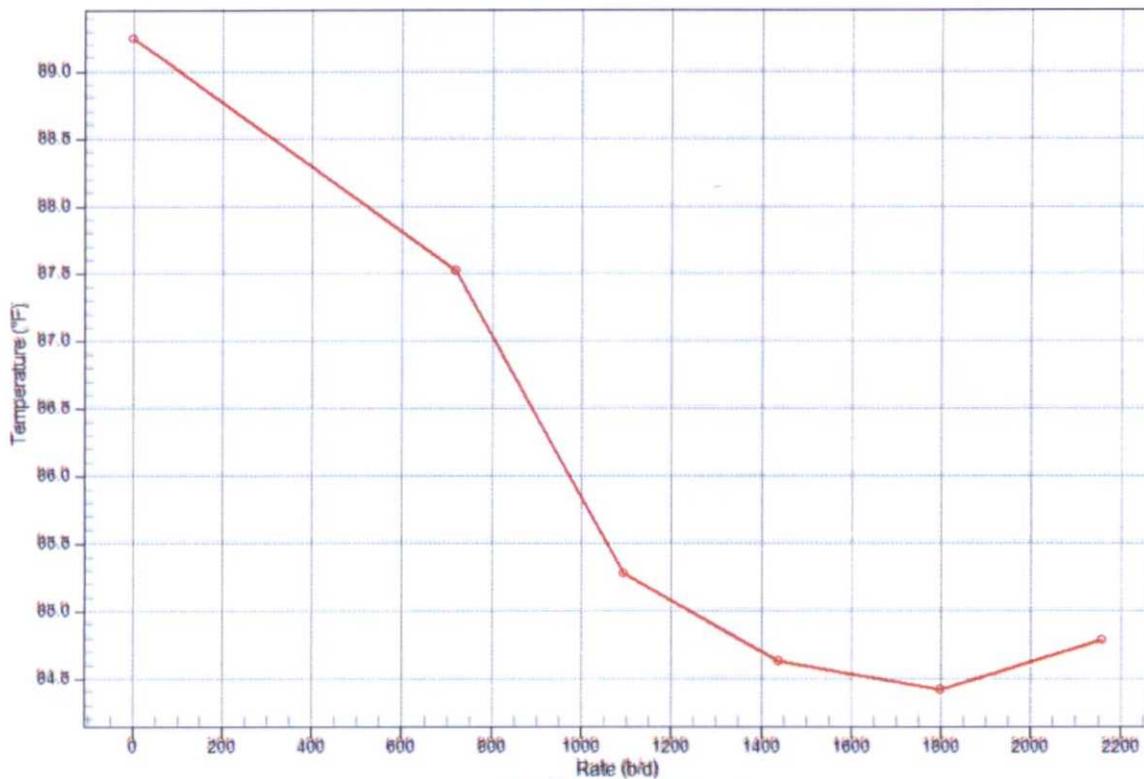
### CVU # 14



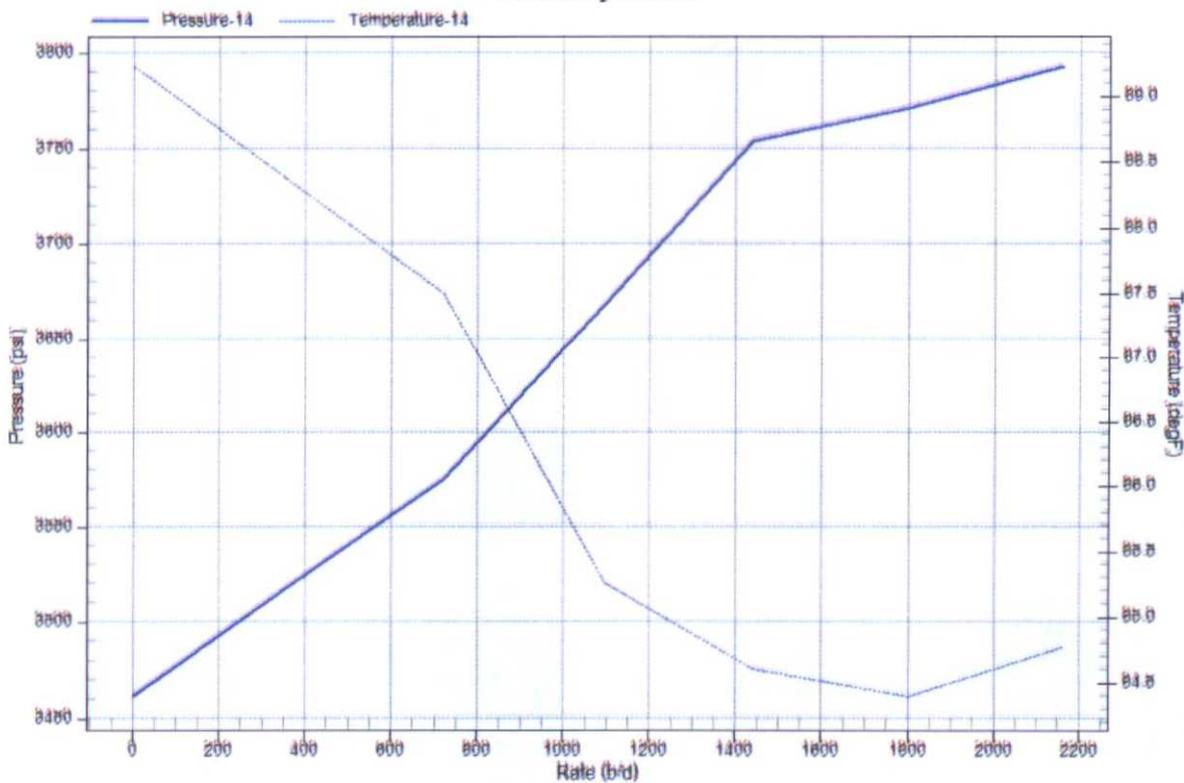
### Pressure vs. Rate



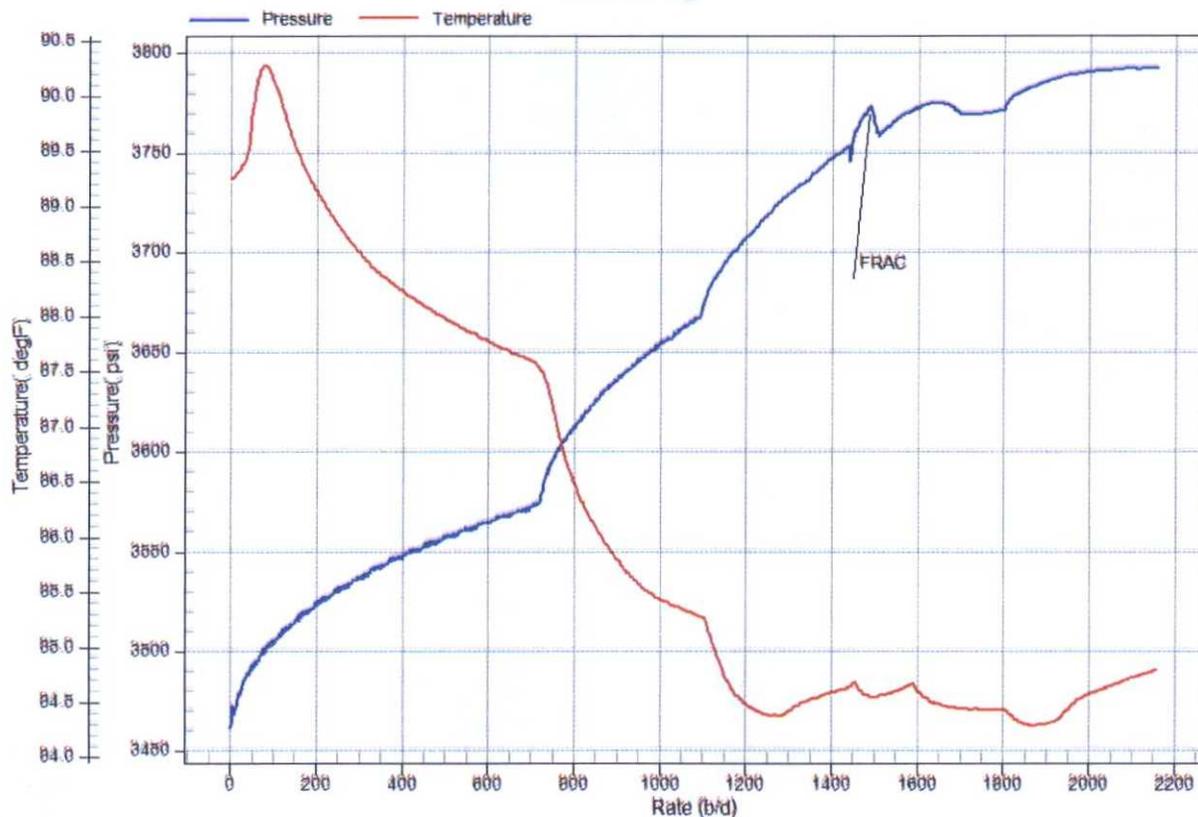
Temperature vs. Rate



Pres/Temp vs Rate



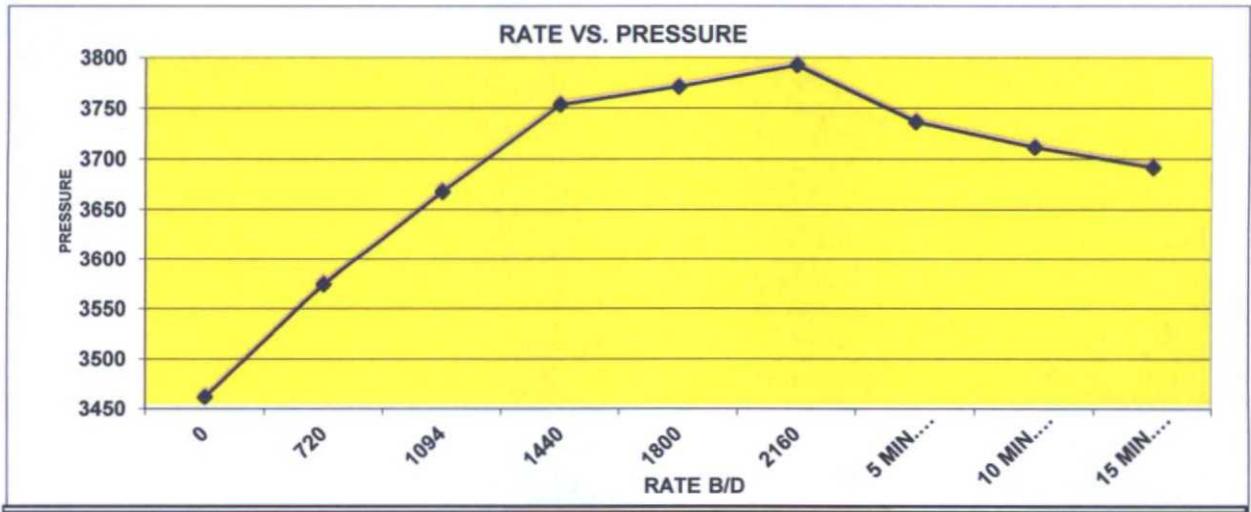
### Pressure Log





## STEP RATE TEST

RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
0	6/8/2016	8:25 AM	3461	1440	
720	6/8/2016	8:55 AM	3574	1700	
1094	6/8/2016	9:25 AM	3667	1830	
1440	6/8/2016	9:55 AM	3753	1870	
1800	6/8/2016	10:25 AM	3771	2040	FRAC
2160	6/8/2016	10:55 AM	3792	2125	
5 MIN. FALLOFF	6/8/2016	11:00 AM	3736	1825	
10 MIN. FALLOFF	6/8/2016	11:05 AM	3711	1805	
15 MIN. FALLOFF	6/8/2016	11:10 AM	3691	1790	
<b>Company:</b>	CHEVRON USA			<b>Recorded By:</b>	T. STANCZAK
<b>Well:</b>	CVU # 14			<b>Witnessed By:</b>	
<b>Field:</b>	VACUUM			<b>Truck Number:</b>	104
<b>County:</b>	LEA			<b>District:</b>	LEVELLAND
<b>State:</b>	NM			<b>Tool Number:</b>	
<b>Injector:</b>	WATER			<b>Test Type:</b>	STEP RATE TESTS
<b>Tubing Size:</b>	2.375"			FRAC	
<b>Seat Nipple Depth:</b>	N/A			2125 SURFACE PRESSURE	
<b>Perforations:</b>	4400'-4812'			3773 BOTTOM HOLE PRESSURE	
<b>Plug Back Depth</b>	N/A			1800 B/D	



Submit 1 Copy To Appropriate District Office  
 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  
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 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-103  
 Revised July 18, 2013

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

WELL API NO. 30-025-25801
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name CENTRAL VACUUM UNIT
8. Well Number 120
9. OGRID Number 4323
10. Pool name or Wildcat VACUUM; GRAYBURG SAN ANDRES
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3973' GL

**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 INJECTOR

2. Name of Operator  
CHEVRON USA INC

3. Address of Operator  
1616 W. BENDER BLVD HOBBS, NM 88240

4. Well Location  
 Unit Letter D LOT 1 : 60 feet from the NORTH line and 1100 feet from the WEST line  
 Section 07 Township 18S Range 35E NMPM County LEA

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL. <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: RESULTS OF STEP RATE TEST <input checked="" type="checkbox"/>	

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 USA INC. IS REQUESTING FOR AN INCREASE IN PRESSURE LIMIT ON THE ABOVE WELL.

PLEASE FIND ATTACHED RESULTS OF A STEP RATE TEST THAT WAS RUN ON 06/07/2016.

EXPECTED RATE, BHPD : 1800  
 EXPECTED PRESSURE, PSI: 1850

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 Cindy Herrera-Murillo TITLE PERMITTING SPECIALIST DATE 06/21/2016

Type or print name CINDY HERRERA-MURILLO E-mail address: Cherreramurillo@chevron.com PHONE: 575-263-0431

**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any):

# **CHEVRON**

## **CENTRAL VACUUM UNIT # 120**

June 7, 2016

## JOB INFORMATION SHEET

Company Information	
Company Name:	CHEVRON
Address:	1500 LOUISIANA STREET HOUSTON, TX 77002
Well Information	
Well Name:	CENTRAL VACUUM UNIT # 120
Field – Pool:	VACUUM
Status:	SHUT-IN
Test Information	
Type of Test:	STEP RATE
Gauge Depth:	4530'
Production Interval:	4557'-4722'
Production Through:	TUBING
Tubing Pressure:	2330 psi
Casing Pressure:	0 psi
Status:	SHUT-IN
Temperature @ Run Depth	90.13 degF
Surface Temperature:	82.43 degF
Comments	
POSSIBLE SOFT FRAC @ 1875 SURFACE PRESSURE 3577 BOTTOM HOLE PRESSURE 1814 B/D	

QES

CHEVRON  
 1500 LOUISIANA STREET  
 HOUSTON, TX 77002

## WELL INFORMATION SHEET

<b>Well:</b>	CENTRAL VACUUM UNIT # 120		
<b>Well License:</b>		<b>Unique Well Identifier:</b>	30-025-25901
<b>Company:</b>	CHEVRON		
<b>Field</b>	VACUUM		

<b>Location:</b>		<b>County:</b>	LEA
<b>Formation:</b>		<b>State:</b>	NM
<b>Purpose:</b>	STEP RATE TEST	<b>Country:</b>	USA

<b>Total Depth:</b>	4530'	<b>ID Borehole:</b>	N/A
<b>Packer Depth:</b>	4462'	<b>ID Production Casing:</b>	4"
<b>Depth of whipstock:</b>	N/A	<b>OD Production Tubing:</b>	2.375"
<b>Depth at which casing is landed:</b>	4800'	<b>ID Production Tubing:</b>	2"
<b>Depth at which tubing is landed:</b>	4462'	<b>ID Drill Pipe:</b>	N/A

QES

## Gradient Data Report

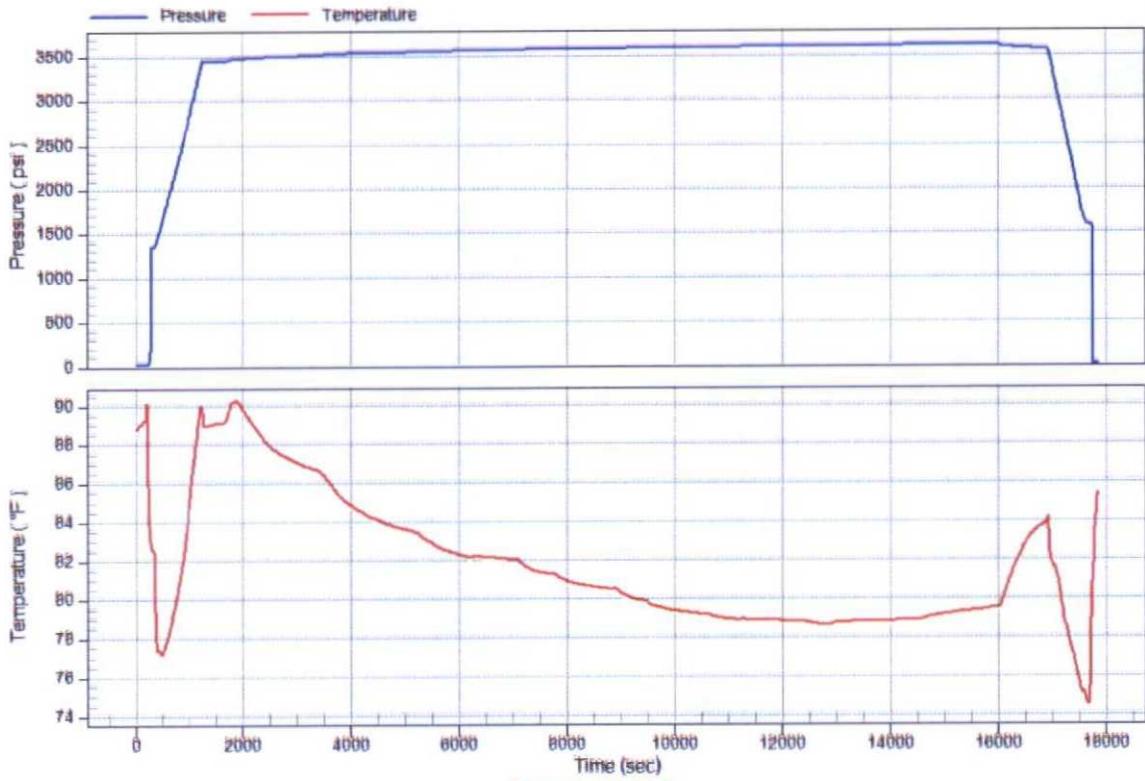
CHEVRON  
 CENTRAL VACUUM UNIT # 120

### Gradient Data Table

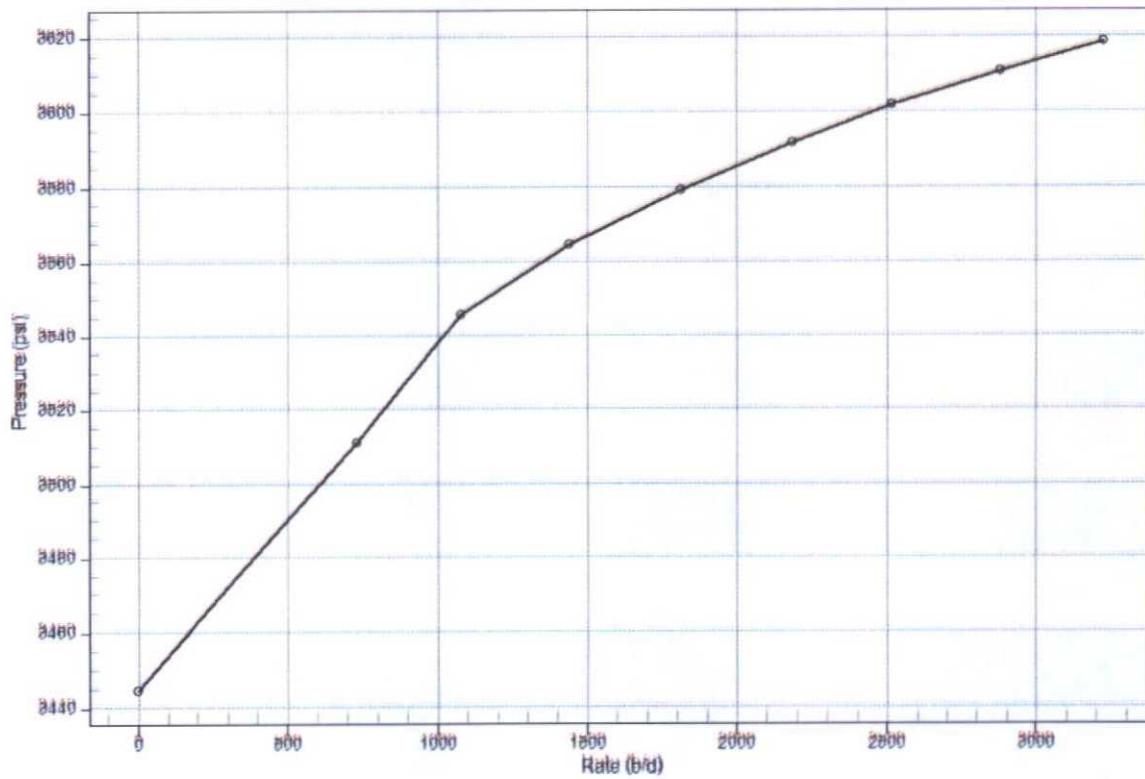
Rate b/d	Pressure psi	Temperature degF	Gradient psi/rate
0.00	3444.85	88.96	0.0000
734.00	3511.17	86.52	0.0903
1080.00	3546.17	83.32	0.1012
1440.00	3564.79	81.87	0.0517
1814.00	3579.18	80.35	0.0385
2188.00	3591.74	79.03	0.0336
2520.00	3602.01	78.69	0.0310
2880.00	3610.88	78.72	0.0246
3225.00	3618.77	79.39	0.0229

QES

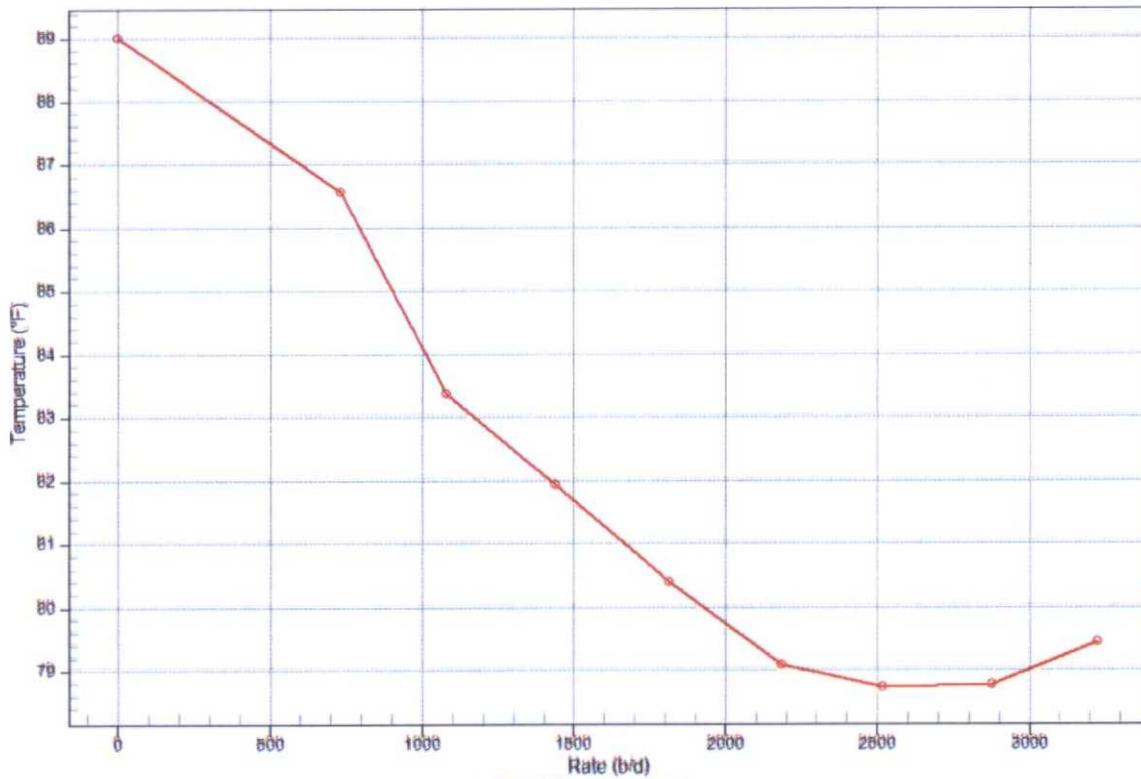
### CVU # 120



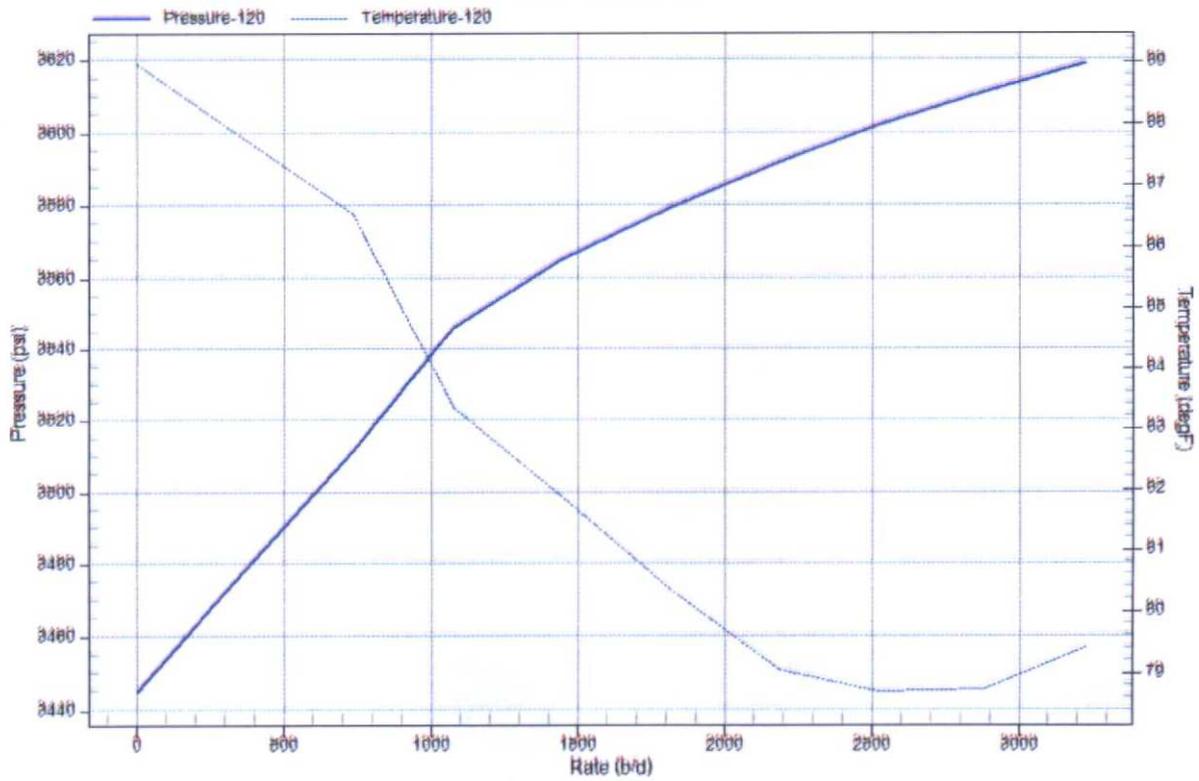
### Pressure vs. Rate



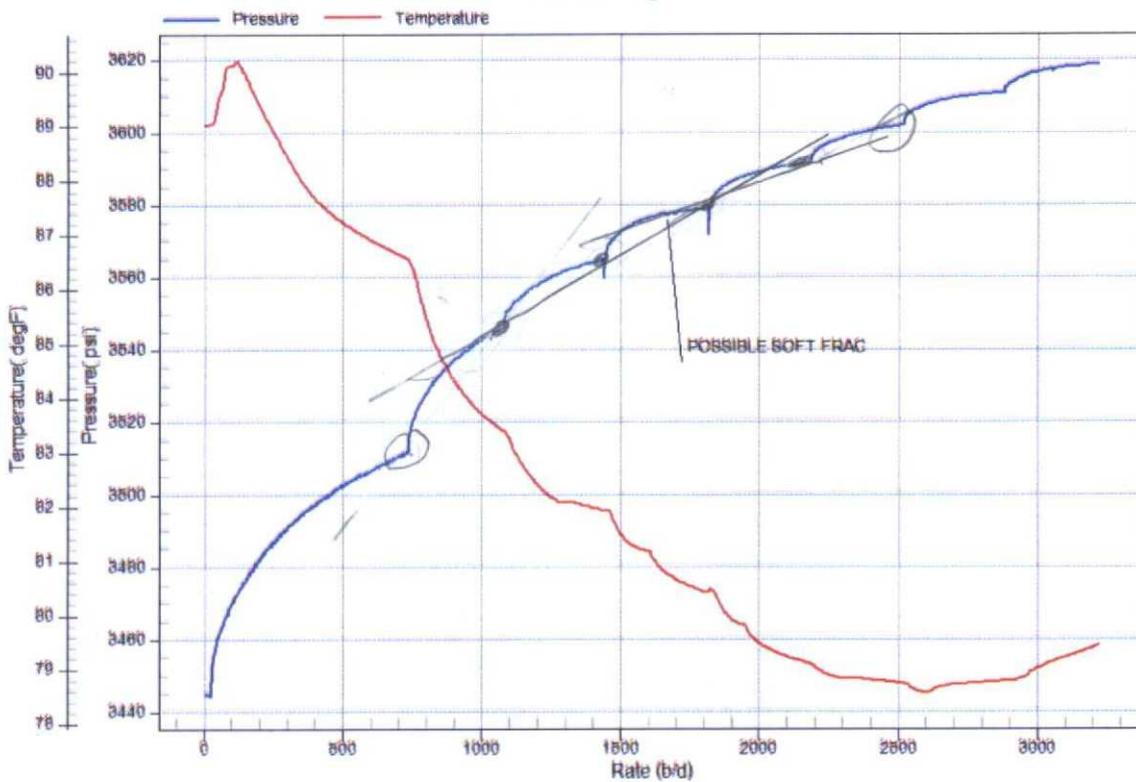
Temperature vs. Rate



Pres/Temp vs Rate



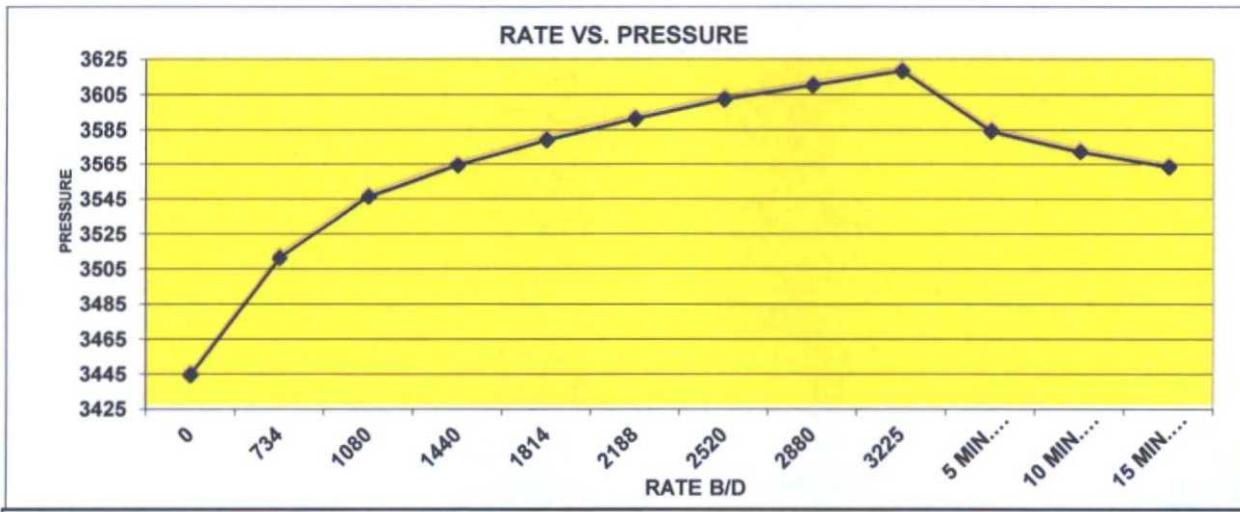
### Pressure Log





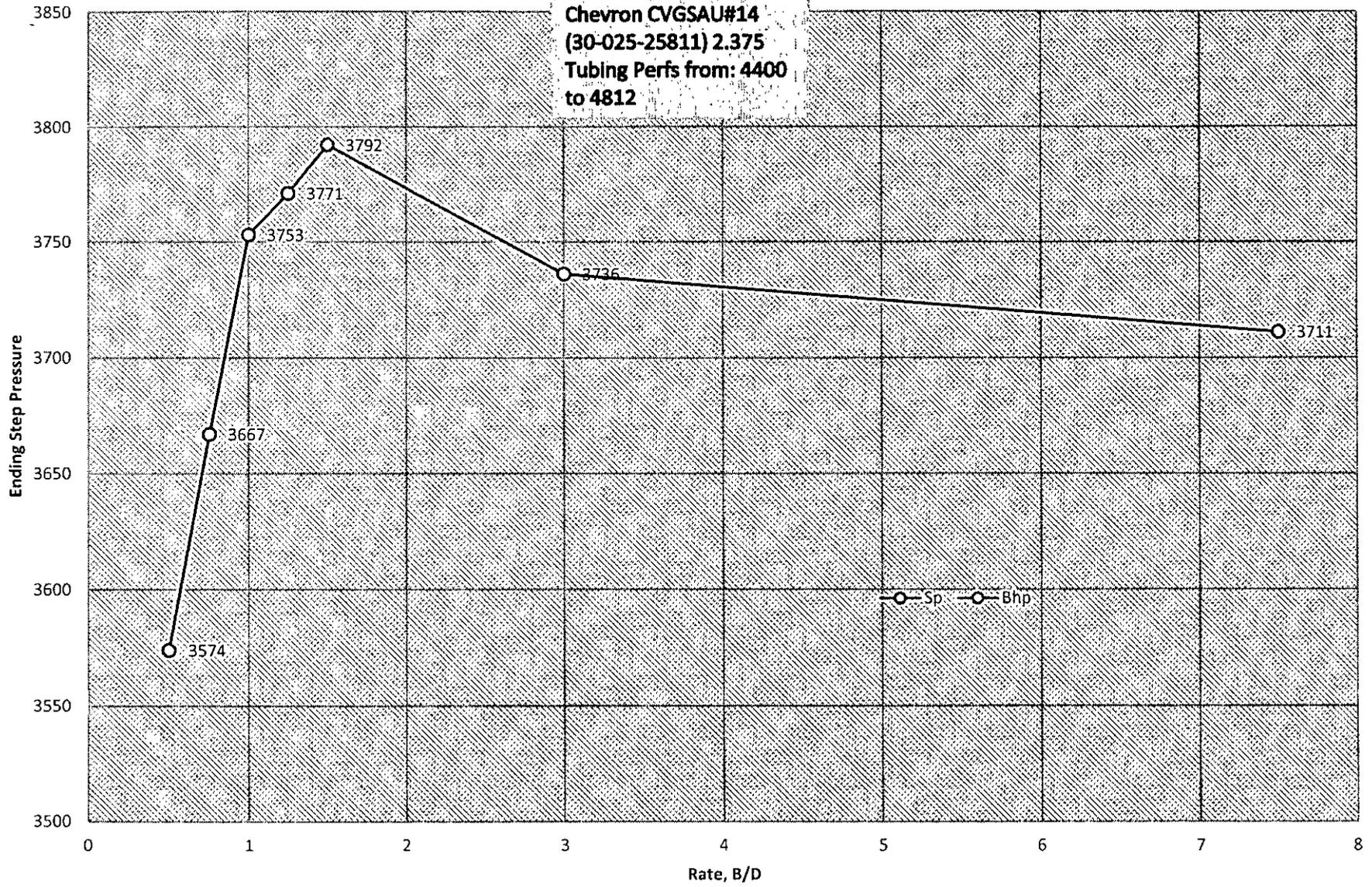
## STEP RATE TEST

RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
0	6/7/2016	11:40 AM	3444	1350	
734	6/7/2016	12:10 PM	3511	1610	
1080	6/7/2016	12:40 PM	3546	1690	
1440	6/7/2016	1:10 PM	3564	1790	
1814	6/7/2016	1:40 PM	3579	1880	POSSIBLE SOFT FRAC
2188	6/7/2016	2:10 PM	3591	1975	
2520	6/7/2016	2:40 PM	3602	2060	
2880	6/7/2016	3:10 PM	3610	2190	
3225	6/7/2016	3:40 PM	3618	2330	
5 MIN. FALLOFF	6/7/2016	3:45 PM	3584	1645	
10 MIN. FALLOFF	6/7/2016	3:50 PM	3572	1625	
15 MIN. FALLOFF	6/7/2016	3:55 PM	3563	1605	
Company: CHEVRON USA			Recorded By: T. STANCZAK		
Well: CVU # 120			Witnessed By:		
Field: VACUUM			Truck Number: 104		
County: LEA			District: LEVELLAND		
State: NM			Tool Number:		
Injector: WATER			Test Type: STEP RATE TESTS		
Tubing Size: 2.375"			POSSIBLE SOFT FRAC		
Seat Nipple Depth: N/A			1875 SURFACE PRESSURE		
Perforations: 4557'-4722'			3577 BOTTOM HOLE PRESSURE		
Plug Back Depth: N/A			1814 B/D		



# Step Rate Test Results

Chevron CVGSAU#14  
(30-025-25811) 2.375  
Tubing Perfs from: 4400  
to 4812



Chevron = Input Cells in Green

CVGSAU#14

30-025-25811

Chevron = Calculated Cells in Yellow

CVGSAU#14 (30-025-25811)

TopPerf 4400 BotPerf 4812 Tubing 2.375

2.375 Tubing

Perfs

BPD Rate

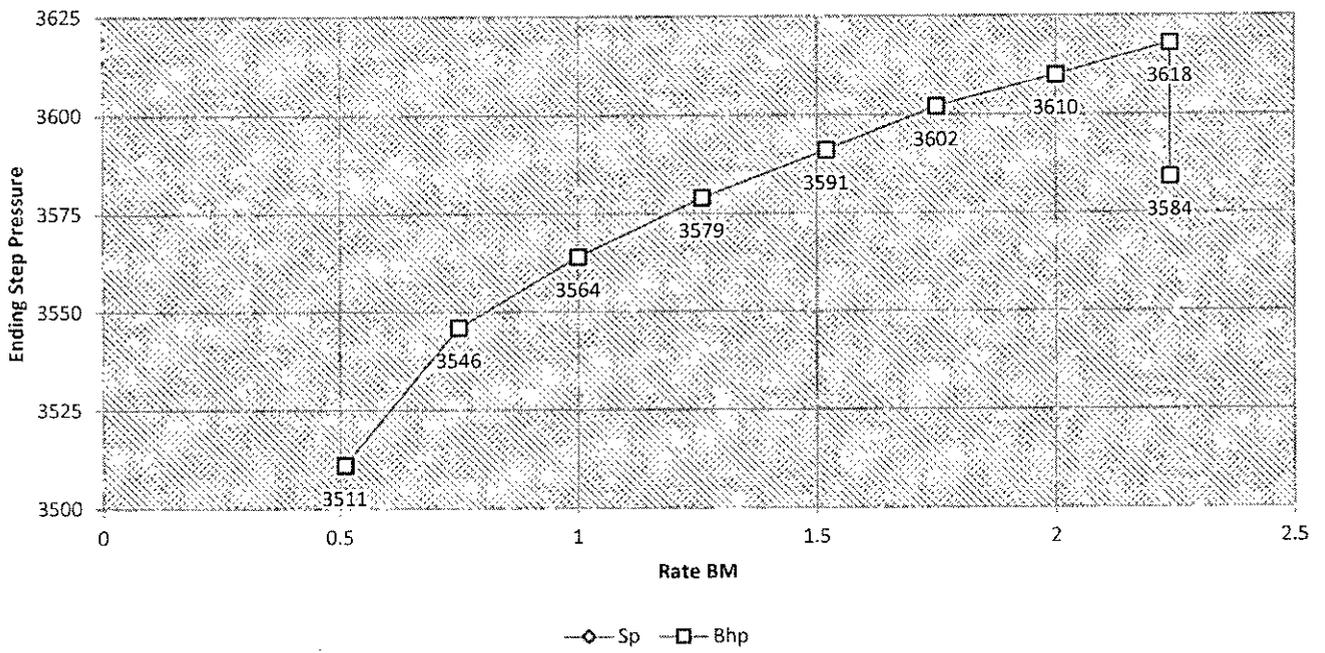
Perfs from: 4400 to 4812

Step	Increment	BPD Rate	Sp	Bhp
1	0.5	0.5	1700	3574
2	0.25	0.75	1830	3667
3	0.25	1	1870	3753
4	0.25	1.25	2040	3771
5	0.25	1.5	2125	3792
6	1.5	3	1825	3736
7	4.5	7.5	1805	3711

frac 0.41

Chevron CVGSAU#14 (30-025-25811) 2.375  
Tubing Perfs from: 4400 to 4812

### Step Rate Tests



Chevron = Input Cells in Green

CVGSAU#120

30-025-25801

Chevroi = Calculated Cells in Ye

CVGSAU#120 (30-025-25801)

TopPerf BotPerf Tubing

2.375 Tubing

Perfs 4557 4722 2.375

Perfs from: 4557 to 4722

BPD Rate

gradient

Step	Increment	0	Sp	Bhp	
1	0.51	0.51	1610	3511	
2	0.24	0.75	1690	3546	
3	0.25	1	1790	3564	
4	0.26	1.26	1880	3579	frac 0.40
5	0.26	1.52	1975	3591	
6	0.23	1.75	2060	3602	
7	0.25	2	2190	3610	
8	0.24	2.24	2330	3618	
9	0	2.24	1645	3584	

Chevron  
CVGSAU#120 (30-025-25801) 2.375  
Tubing Perfs from:  
4557 to 4722



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON  
Governor  
Jennifer A. Salisbury  
Cabinet Secretary

Lori Wrotenbery  
Director  
Oil Conservation Division

November 5, 2001

*IPI-164*

Texaco Exploration & Production, Inc.  
P.O. Box 3109  
Midland, Texas 79702-3019

Attn: Mr. Stephen Guillot

**RE: *Injection Pressure Increase,  
Central Vacuum Unit Tertiary Recovery Project,  
Lea County, New Mexico***

Dear Mr. Guillot:

Reference is made to your request dated October 19, 2001, to increase the surface injection pressure on two wells within the above-referenced tertiary recovery project. This request is based on step rate tests conducted on the subject wells on September 21 and October 1, 2001. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following wells:

<i>Well and Location</i>	<i>Maximum Surface Injection Pressure Water</i>	<i>Maximum Surface Injection Pressure CO<sub>2</sub></i>
Central Vacuum Unit Well No. 14 API No. 30-025-25811 Unit E, Section 30, T-17S, R-35E	1578 PSIG / <i>.36 PSI</i>	N/A
Central Vacuum Unit Well No. 294 API No. 30-025-35398 Unit B, Section 6, T-18S, R-35E	1500 PSIG	1850 PSIG
All wells located in Lea County, New Mexico.		

*Injection Pressure Increase*  
*Texaco Exploration & Production, Inc.*  
*November 5, 2001*  
*Page 2*

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The Division Director may rescind this injection pressure increase if it becomes apparent that the injected fluid is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,



Lori Wrotenberg  
Director

LW/DRC

cc: Oil Conservation Division - Hobbs  
Files: Case No. 6008, PMX-212; PSI-X-2001