

DATE IN 7/15/15	SUSPENSE	ENGINEER MAM	LOGGED IN 7/14/15	TYPE IPI	APP NO. JAG15195285	03
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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] IPI

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A] operator: Chevron U.S.A Inc  
 [A] Location - Spacing Unit - Simultaneous Dedication well: Central Vacuum unit 194  
☐ NSL ☐ NSP ☐ SD API 30-025-32801  
 Check One Only for [B] or [C] pool: Vacuum - Graybur, - San Andres  
 [B] Commingling - Storage - Measurement #62180  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM  
 [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☐ SWD ☒ IPI ☐ EOR ☐ PPR  
 [D] Other: Specify \_\_\_\_\_

- [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

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

- [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.

Denise Pinkerton Denise Pinkerton Regulatory Specialist 07/08/15  
 Print or Type Name Signature Title Date  
Lea Kejd@Chevron.com  
 e-mail Address

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

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

<p><b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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.)</p>		<p>WELL API NO. 30-025-32801</p>
<p>1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other INJECTOR</p>		<p>5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/></p>
<p>2. Name of Operator CHEVRON U.S.A. INC.</p>		<p>6. State Oil &amp; Gas Lease No.</p>
<p>3. Address of Operator 15 SMITH ROAD, MIDLAND, TEXAS 79705</p>		<p>7. Lease Name or Unit Agreement Name CENTRAL VACUUM UNIT</p>
<p>4. Well Location Unit Letter: C 14 feet from NORTH line and 1917 feet from the WEST line Section 6 Township 18S Range 35E NMPM County LEA</p>		<p>8. Well Number 194</p>
<p>11. Elevation (Show whether DR, RKB, RT, GR, etc.)</p>		<p>9. OGRID Number 4323</p>
<p>10. Pool name or Wildcat VACUUM; GRAYBURG SAN ANDRES</p>		

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

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

PLEASE FIND ATTACHED, RESULTS OF A STEP RATE TEST THAT WAS RUN ON THE SUBJECT WELL.  
PLEASE APPROVE HIGHER PRESSURE LIMITS AS THIS TEST INDICATES.

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  TITLE REGULATORY SPECIALIST DATE 07/08/2015  
 Type or print name DENISE PINKERTON E-mail address: [leakejd@chevron.com](mailto:leakejd@chevron.com) PHONE: 432-687-7375  
 For State Use Only

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 Conditions of Approval (if any):

# CHEVRON

## CENTRAL VACUUM UNIT # 194

June 12, 2015

## JOB INFORMATION SHEET

Company Information	
Company Name:	CHEVRON
Address:	1500 LOUISIANA STREET HOUSTON, TX 77002
Well Information	
Well Name:	CENTRAL VACUUM UNIT # 194
Field – Pool:	VACUUM
Status:	SHUT-IN
Test Information	
Type of Test:	STEP RATE TEST
Gauge Depth:	4250'
Production Interval:	4281'-4686'
Production Through:	TUBING
Tubing Pressure:	2575 psi
Casing Pressure:	0 psi
Shut In Time	10:45 AM
Status:	SHUT-IN
Temperature @ Run Depth	91.92 degF
Surface Temperature:	85.79 degF
Comments	
NO FRAC WAS ACHIEVED	

ARCHER WIRELINE

CHEVRON

## WELL INFORMATION SHEET

Well:	CENTRAL VACUUM UNIT # 194		
Well License:		Unique Well Identifier:	30-025-32801
Company:	CHEVRON		
Field	VACUUM		

Location:	County:	LEA
Formation:	State:	NM
Purpose:	Country:	USA

Total Depth:	4250'	ID Borehole:	N/A
Packer Depth:	4202'	ID Production Casing:	5"
Depth of whipstock:	N/A	OD Production Tubing:	2.875"
Depth at which casing is landed:	4850'	ID Production Tubing:	2.3"
Depth at which tubing is landed:	4202'	ID Drill Pipe:	N/A

ARCHER WIRELINE

## Gradient Data Report

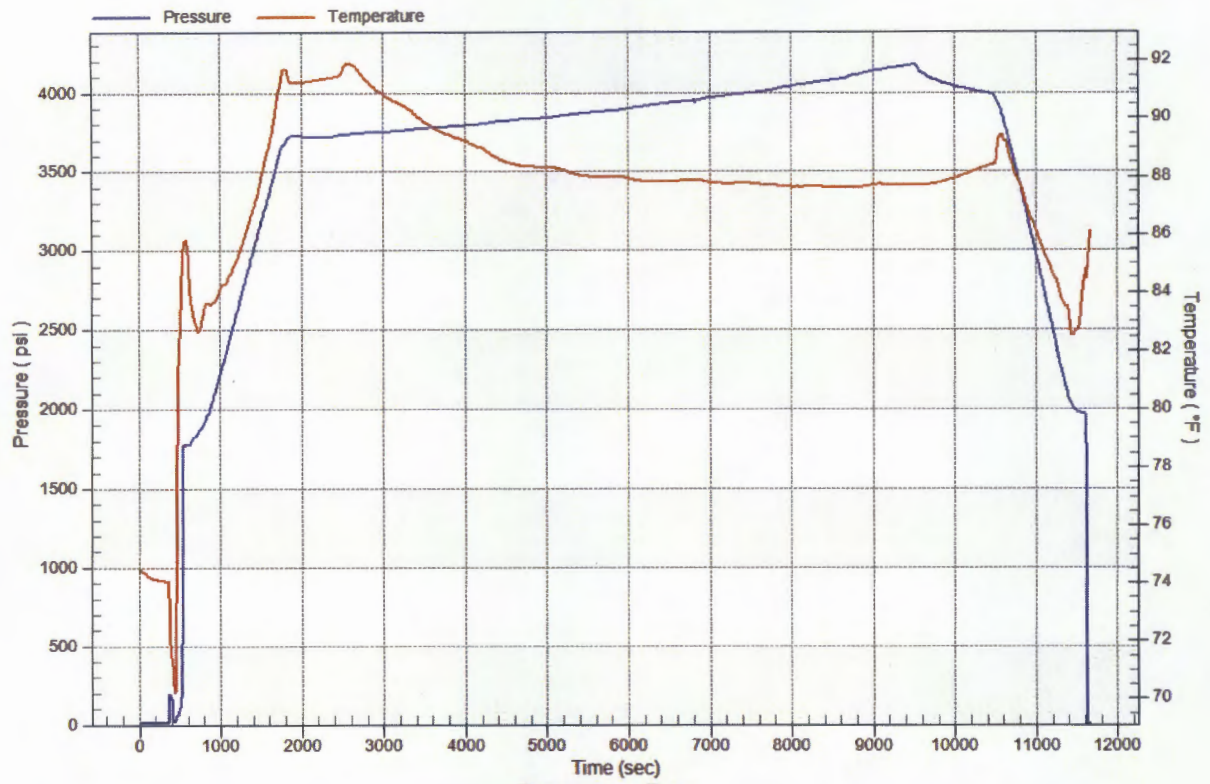
CHEVRON  
CENTRAL VACUUM UNIT # 194

Gradient Data Table

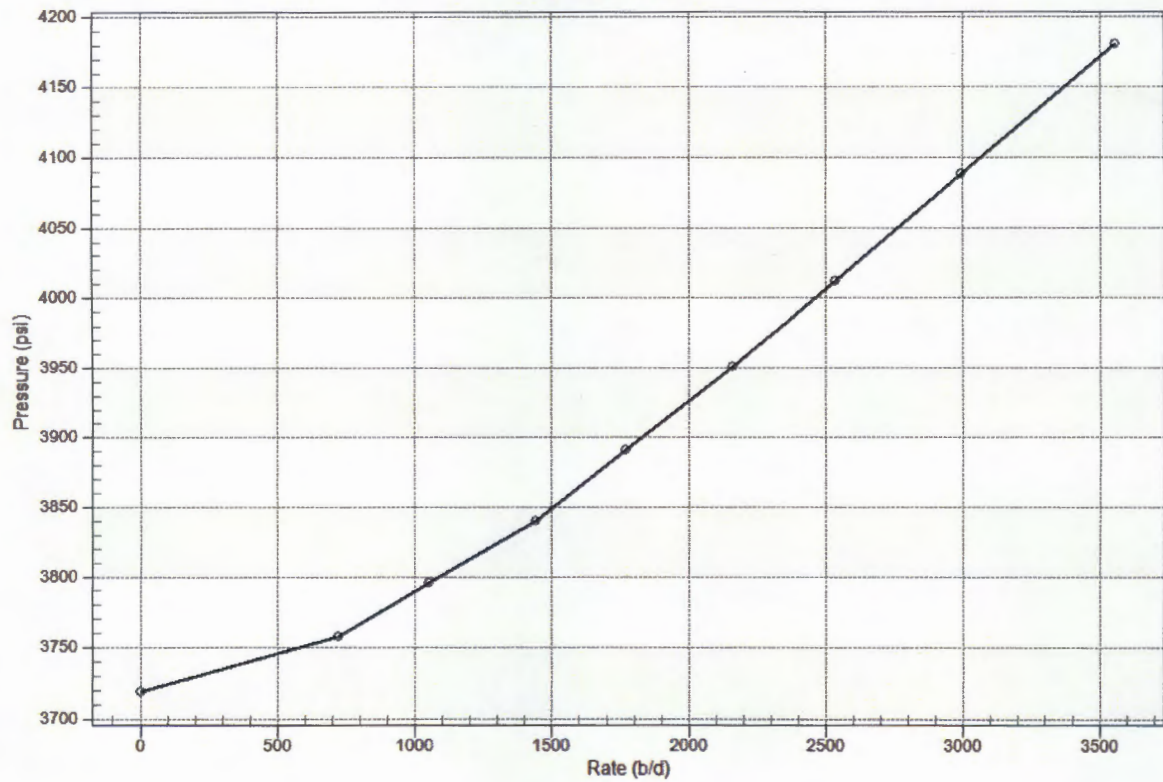
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0.00	3719.03	91.40	0.0000
720.00	3757.87	90.47	0.0540
1051.00	3795.20	89.06	0.1128
1440.00	3839.61	88.31	0.1142
1771.00	3890.82	87.98	0.1547
2160.00	3950.98	87.84	0.1546
2534.00	4012.01	87.69	0.1632
2995.00	4088.59	87.63	0.1661
3556.00	4180.61	87.70	0.1640

ARCHER WIRELINE

# CVU # 194

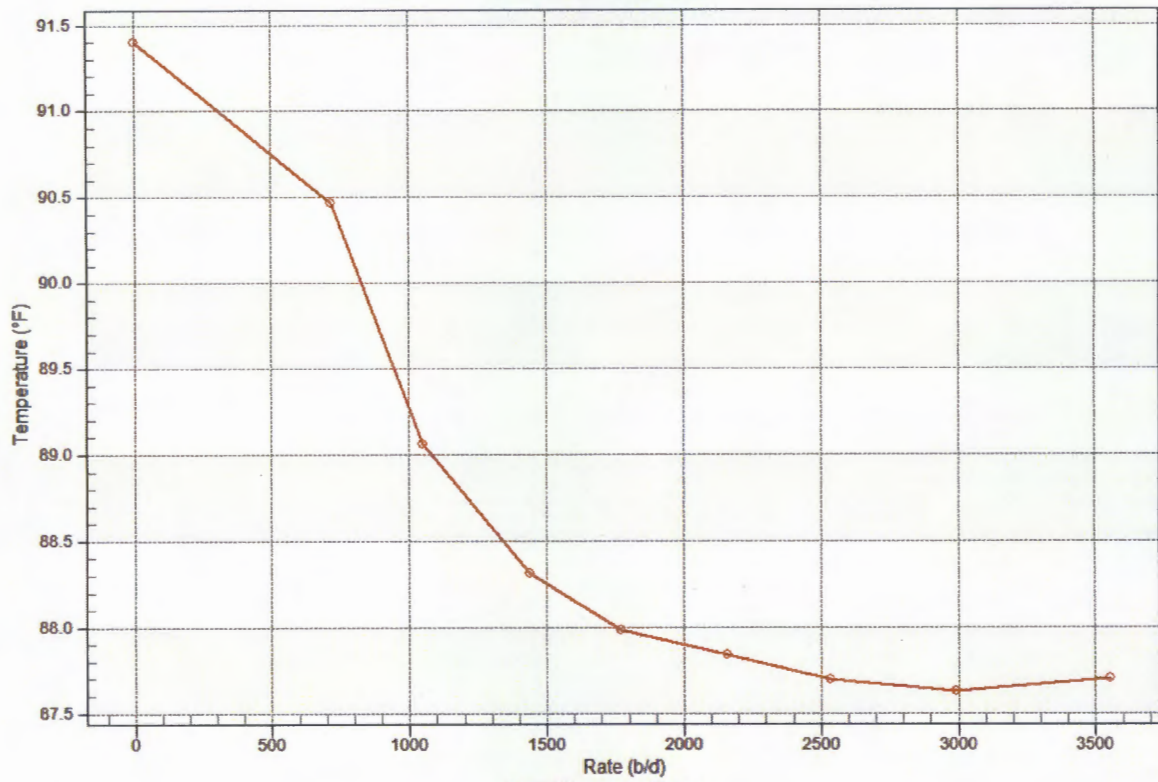


## Pressure vs. Rate

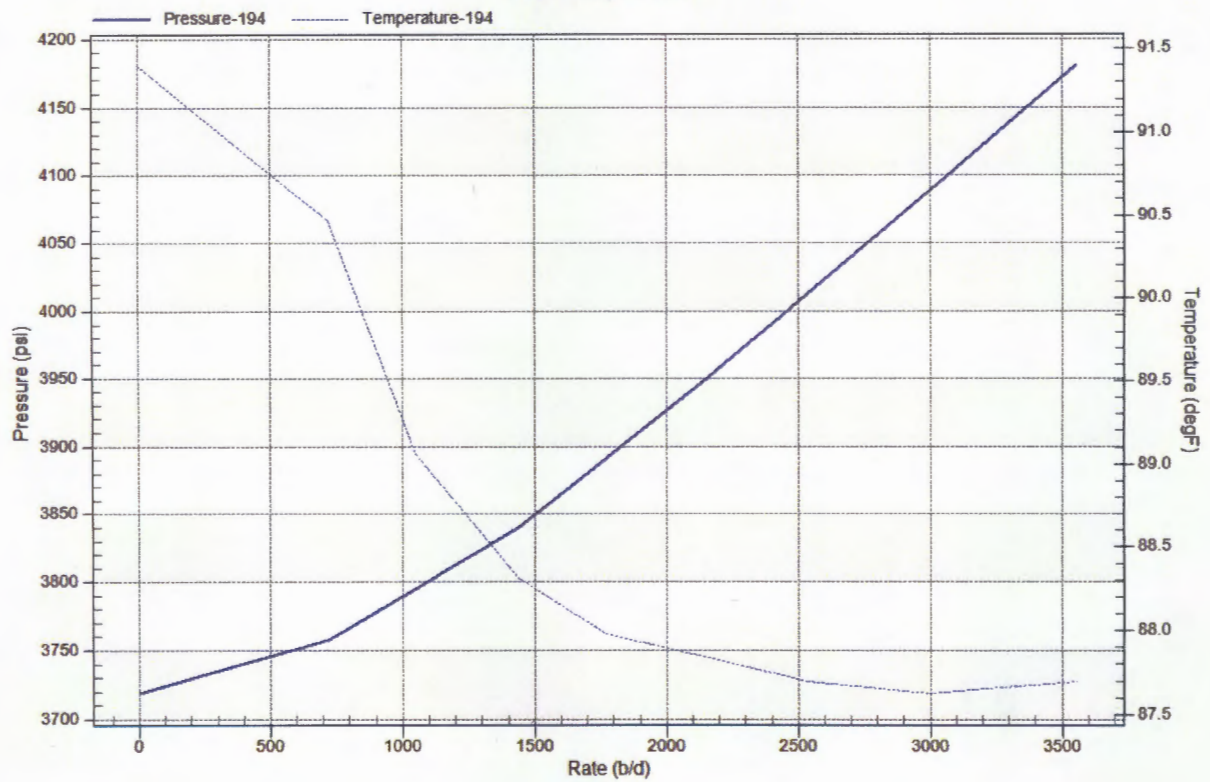




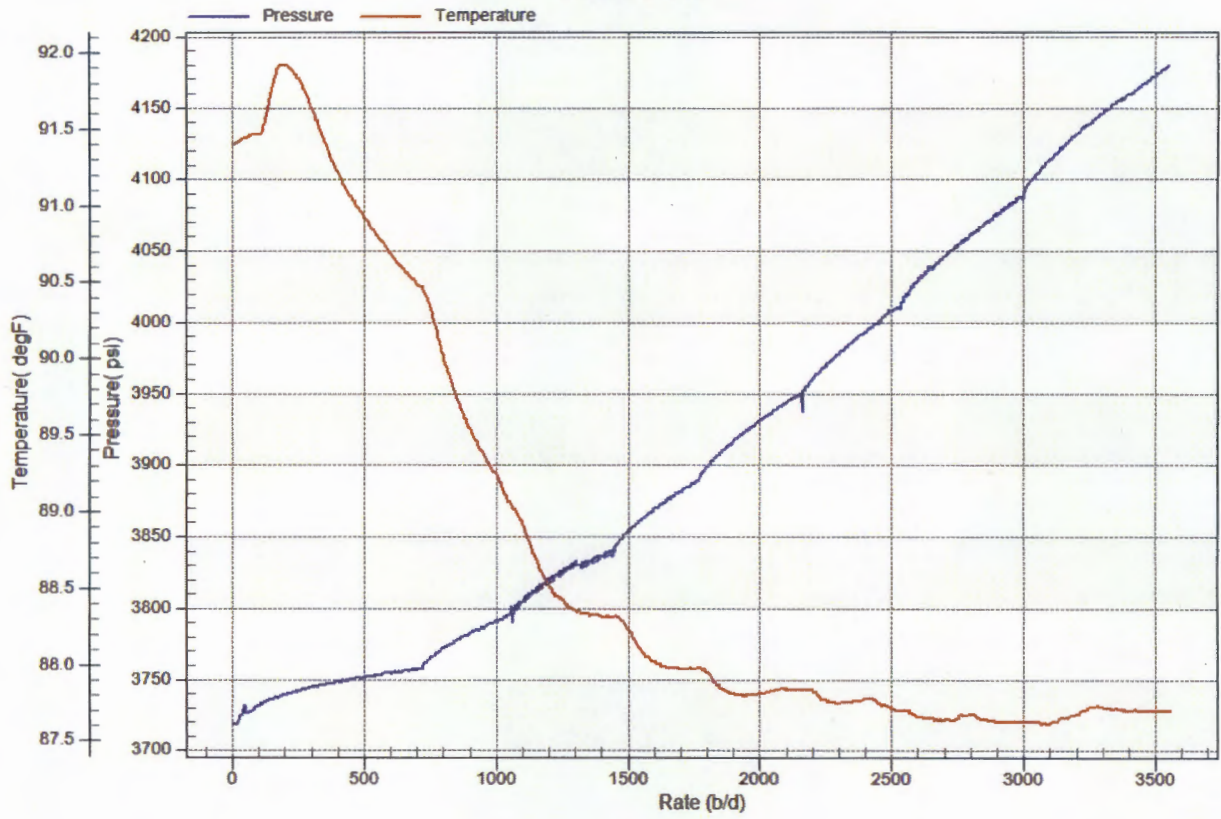
Temperature vs. Rate



Pres/Temp vs Rate



# Pressure Log



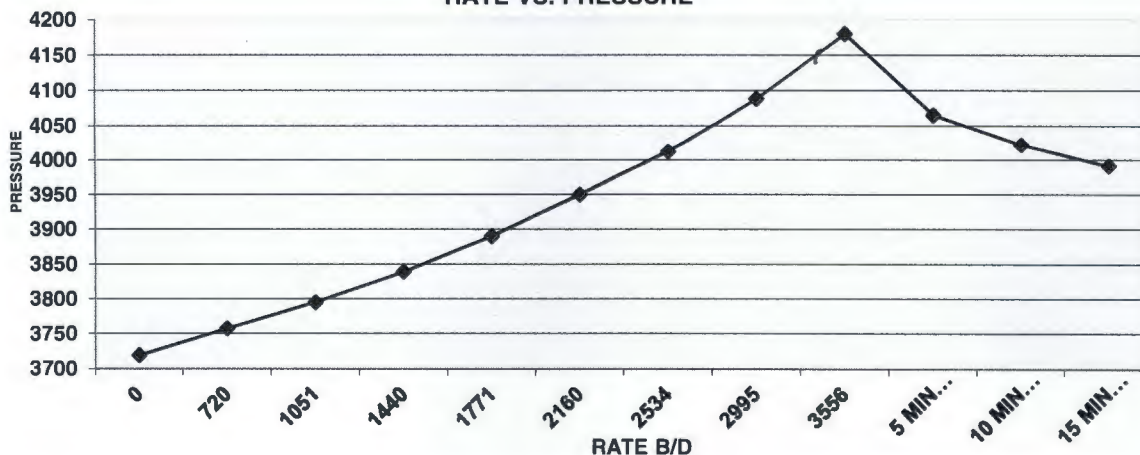


# Archer

## STEP RATE TEST

RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
0	6/12/2015	8:45 AM	3719	1775	
720	6/12/2015	9:00 AM	3757	1810	
1051	6/12/2015	9:15 PM	3795	1900	
1440	6/12/2015	9:30 AM	3839	1975	
1771	6/12/2015	9:45 AM	3890	2050	
2160	6/12/2015	10:00 AM	3950	2150	
2534	6/12/2015	10:15 AM	4012	2250	
2995	6/12/2015	10:30 AM	4088	2375	
3556	6/12/2015	10:45 AM	4180	2575	
5 MIN FALL OFF	6/12/2015	10:50 AM	4065	2125	
10 MIN FALL OFF	6/12/2015	10:55 AM	4022	2075	
15 MIN FALL OFF	6/12/2015	11:00 AM	3991	2025	
Company:	CHEVRON			Recorded By:	T. STANCZAK
Well:	CENTRAL VACUUM UNIT # 194			Witnessed By:	
Field:	VACUUM			Truck Number:	104
County:	LEA			District:	LEVELLAND
State:	NEW MEXICO			Tool Number:	
Injecton	WATER			Test Type:	STEP RATE TESTS
Shut In Time:	10:45 AM			NO FRAC WAS ACHIEVED	
Total Shut In Time:	15 MIN				
Tubing Size:	2.875"				
Open Hole:	N/A				
Perforations:	4281'-4686'				
Plug Back Depth	4750'				

RATE VS. PRESSURE



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

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

<p><b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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.)</p>		<p>WELL API NO. 30-025-26789</p>
<p>1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other INJECTOR</p>		<p>5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/></p>
<p>2. Name of Operator CHEVRON U.S.A. INC.</p>		<p>6. State Oil &amp; Gas Lease No.</p>
<p>3. Address of Operator 15 SMITH ROAD, MIDLAND, TEXAS 79705</p>		<p>7. Lease Name or Unit Agreement Name CENTRAL VACUUM UNIT</p>
<p>4. Well Location Unit Letter: N 1310 feet from SOUTH line and 2475 feet from the WEST line Section 31 Township 17S Range 35E NMPM County LEA</p>		<p>8. Well Number 145</p>
<p>11. Elevation (Show whether DR, RKB, RT, GR, etc.)</p>		<p>9. OGRID Number 4323</p>
<p>10. Pool name or Wildcat VACUUM; GRAYBURG SAN ANDRES</p>		

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

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

PLEASE FIND ATTACHED, RESULTS OF A STEP RATE TEST THAT WAS RUN ON THE SUBJECT WELL.  
PLEASE APPROVE HIGHER PRESSURE LIMITS AS THIS TEST INDICATES.

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 Denise Pinkerton TITLE REGULATORY SPECIALIST DATE 07/08/2015  
Type or print name DENISE PINKERTON E-mail address: [leakejd@chevron.com](mailto:leakejd@chevron.com) PHONE: 432-687-7375  
For State Use Only

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
Conditions of Approval (if any):

# **CHEVRON**

## **CENTRAL VACUUM UNIT # 145**

June 29, 2015

## JOB INFORMATION SHEET

Company Information	
Company Name:	CHEVRON
Address:	1500 LOUISIANA STREET HOUSTON, TX 77002
Well Information	
Well Name:	CENTRAL VACUUM UNIT # 145
Field – Pool:	VACUUM
Status:	SHUT-IN
Test Information	
Type of Test:	STEP-RATE TEST
Gauge Depth:	4350'
Production Interval:	4374'-4710'
Production Through:	TUBING
Tubing Pressure:	2650 psi
Casing Pressure:	0 psi
Shut In Time	2:15 PM
Status:	SHUT-IN
Temperature @ Run Depth	95.19 degF
Surface Temperature:	85.09 degF
Comments	
NO FRAC WAS ACHIEVED	

ARCHER WIRELINE



CHEVRON

## WELL INFORMATION SHEET

Well:	CENTRAL VACUUM UNIT # 145	Unique Well Identifier:	30-025-26789
Well License:			
Company:	CHEVRON		
Field:	VACUUM		

Location:	County:	LEA
Formation:	State:	NM
Purpose:	Country:	USA

Total Depth:	4350'	ID Borehole:	N/A
Packer Depth:	4298'	ID Production Casing:	4"
Depth of whipstock:	N/A	OD Production Tubing:	2.375"
Depth at which casing is landed:	4800'	ID Production Tubing:	2"
Depth at which tubing is landed:	4298'	ID Drill Pipe:	N/A

ARCHER WIRELINE

## Gradient Data Report

CHEVRON  
CENTRAL VACUUM UNIT # 145

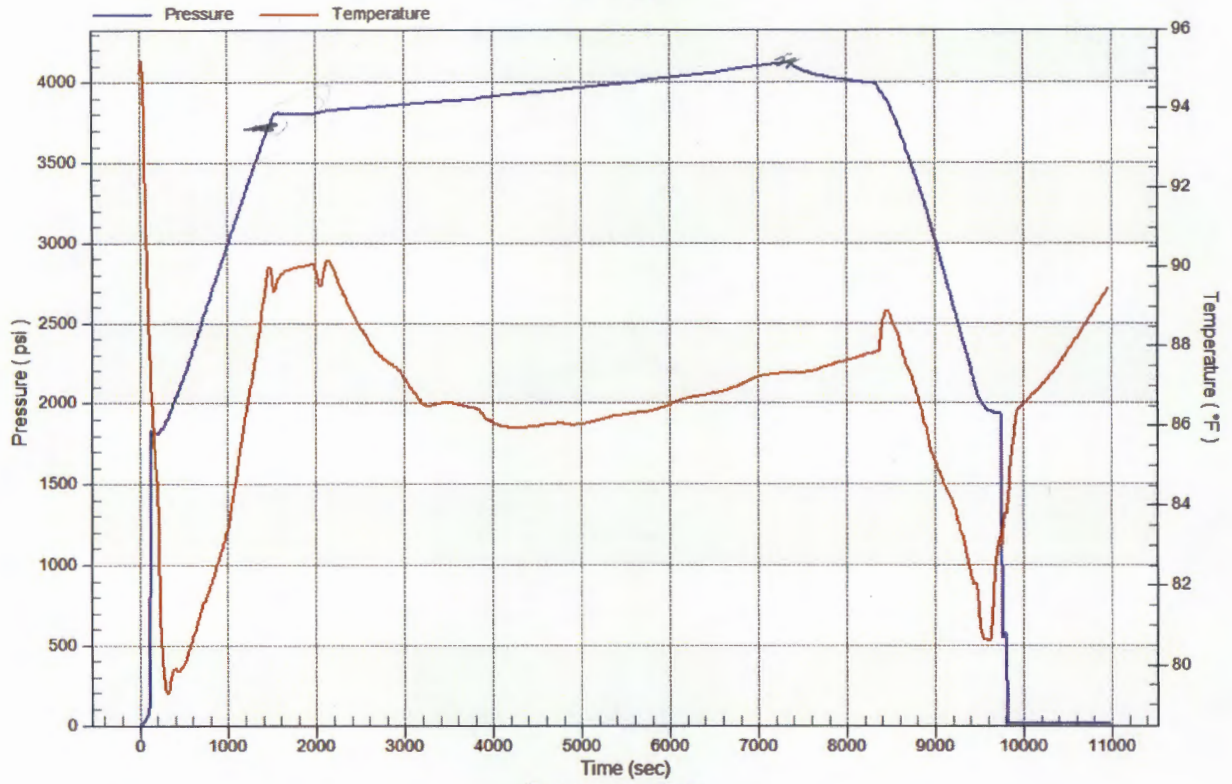
Gradient Data Table

Rate b/d	Pressure psi	Temperature degF	Gradient psi/ft
0.00	3803.39	90.06	0.0000
720.00	3853.60	87.54	0.0697
1094.00	3892.15	86.46	0.1031
1468.00	3944.68	86.04	0.1405
1800.00	3996.02	86.30	0.1546
2145.00	4055.02	86.80	0.1710
2520.00	4124.47	87.33	0.1852

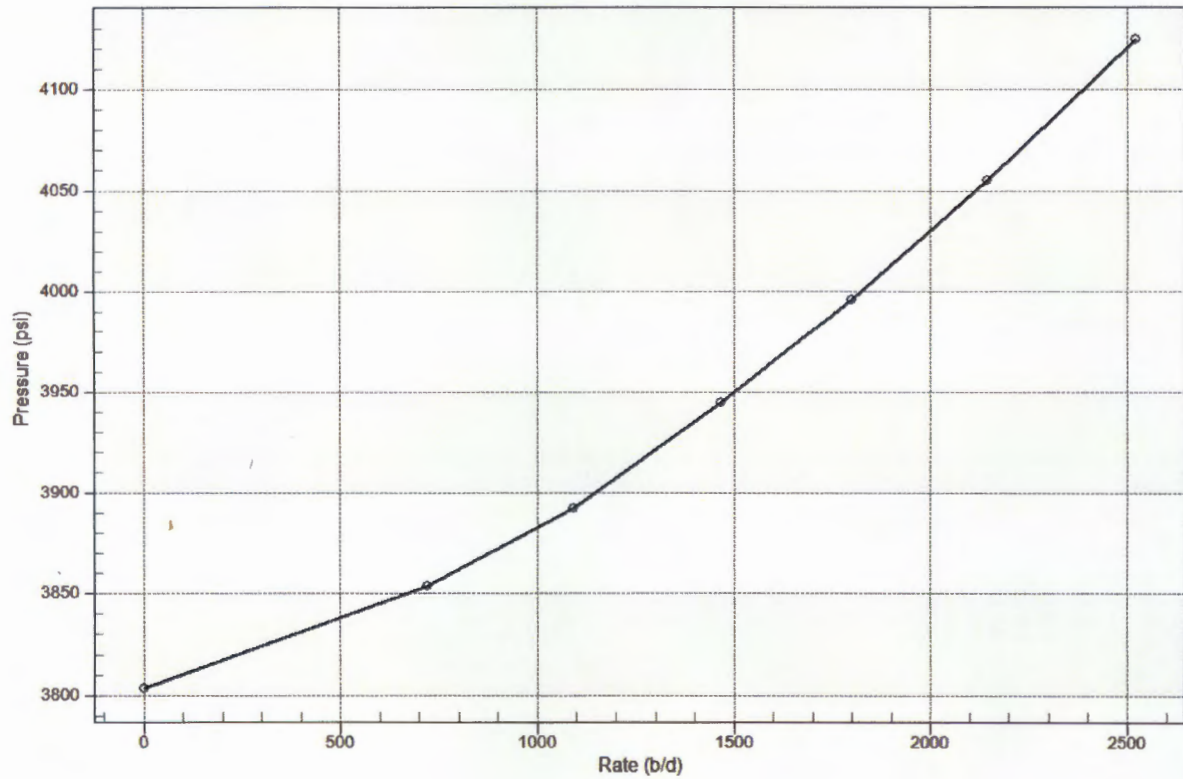
ARCHER WIRELINE



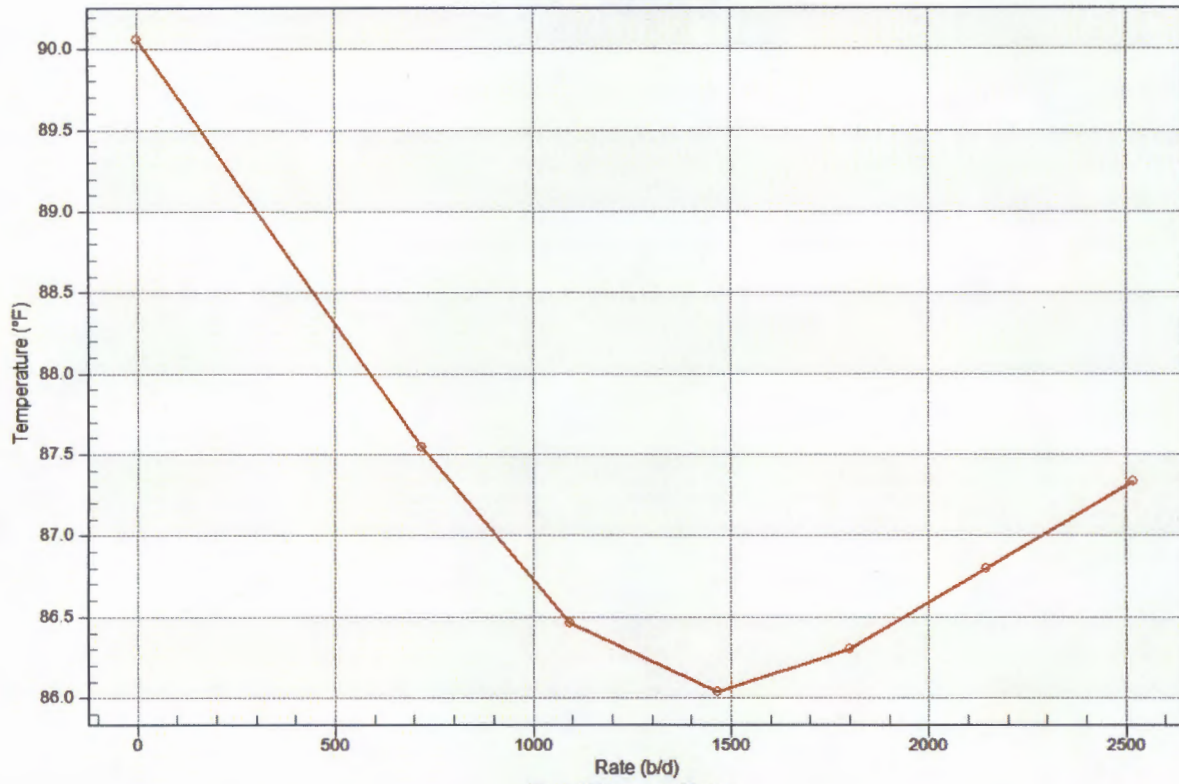
# CVU # 145



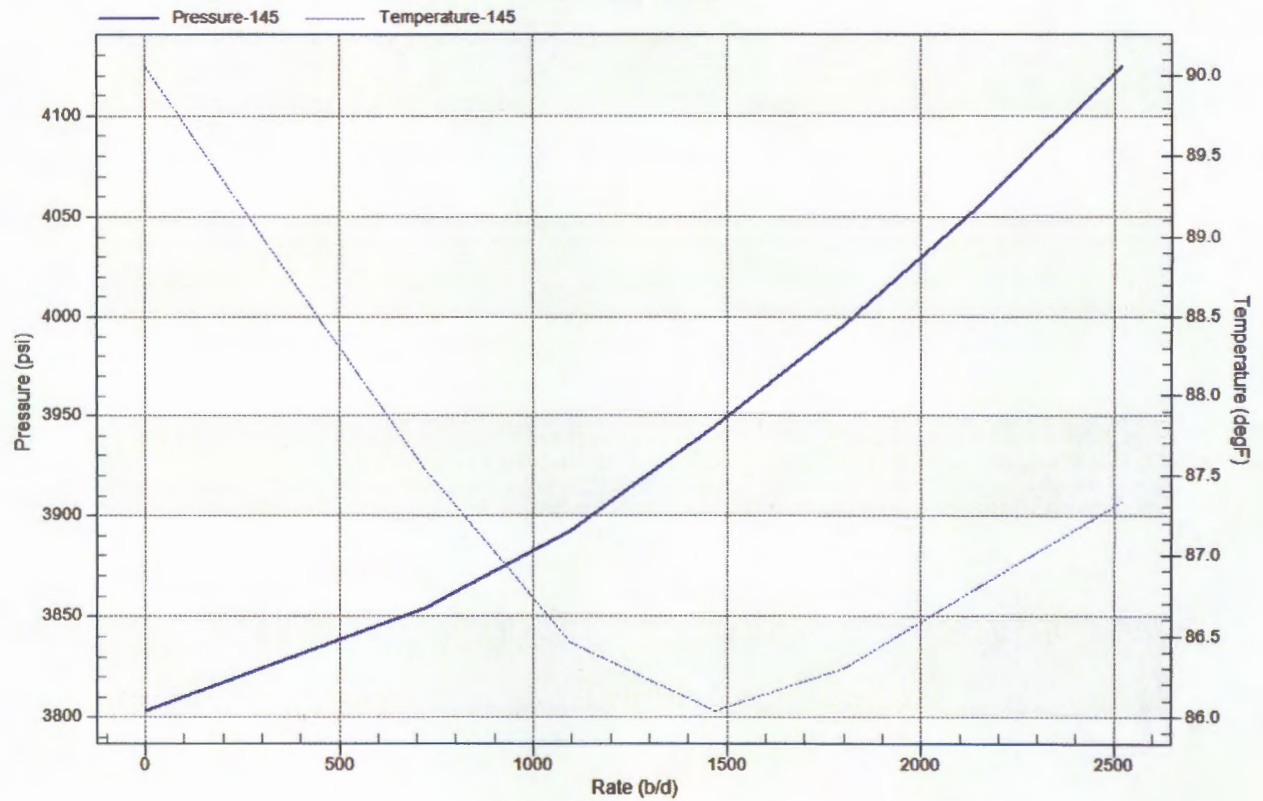
## Pressure vs. Rate



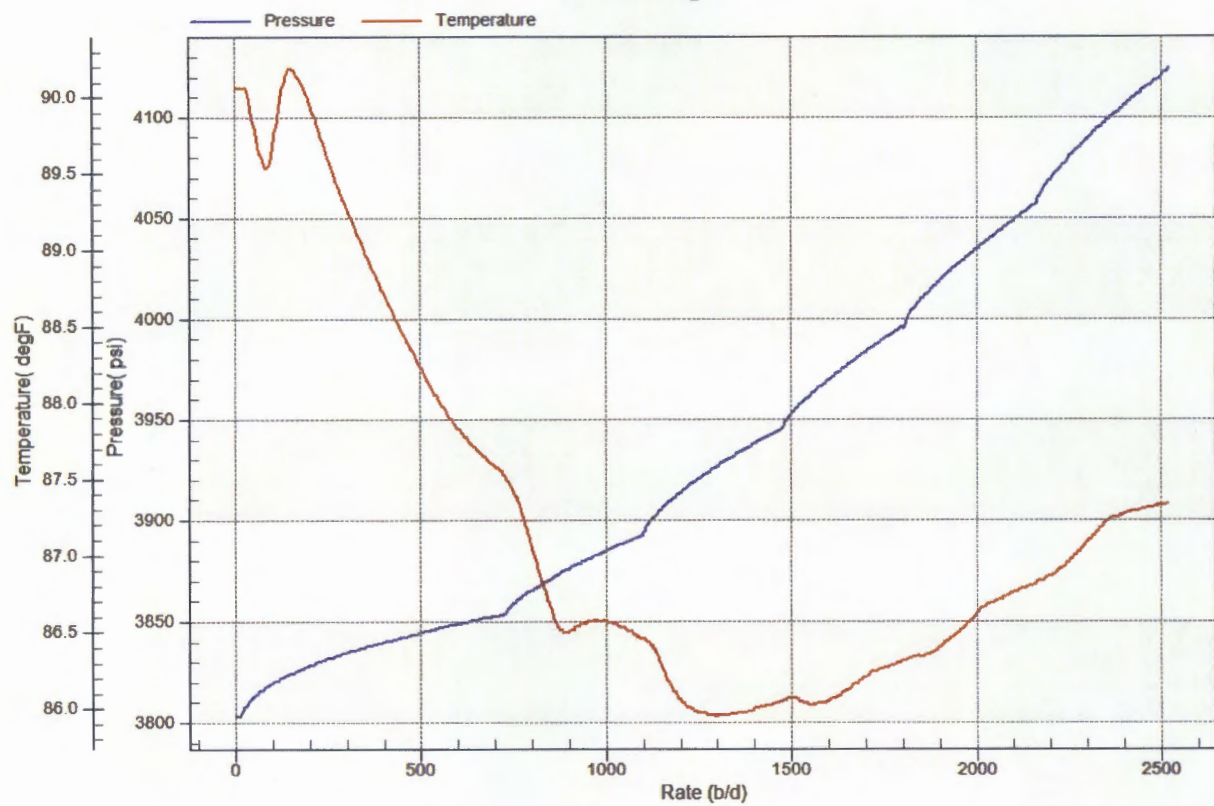
Temperature vs. Rate



Pres/Temp vs Rate



# Pressure Log



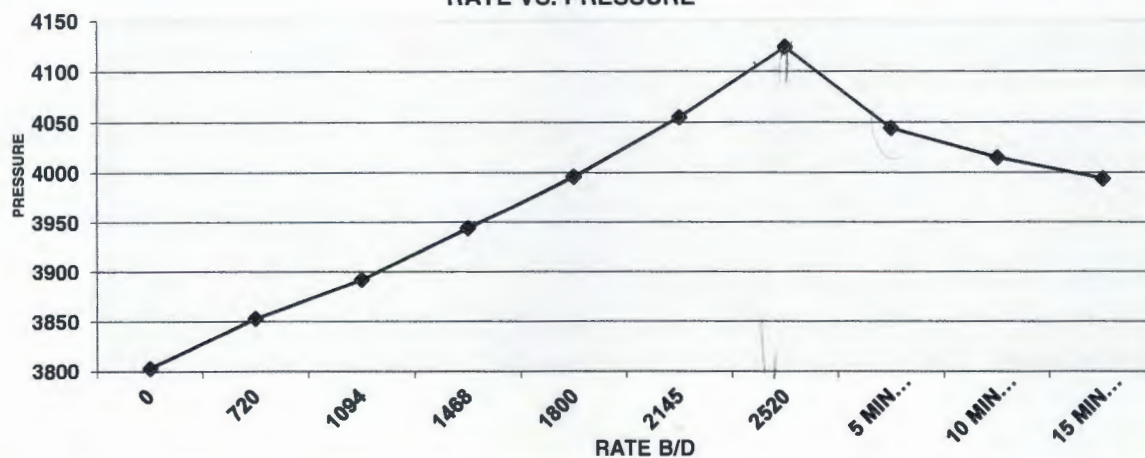


# Archer

## STEP RATE TEST

RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
0	6/29/2015	12:45 PM	3803	1800	
720	6/29/2015	1:00 PM	3853	1925	
1094	6/29/2015	1:15 PM	3892	2010	
1468	6/29/2015	1:30 PM	3944	2150	
1800	6/29/2015	1:45 PM	3996	2260	
2145	6/29/2015	2:00 PM	4055	2425	
2520	6/29/2015	2:15 PM	4124	2650	
5 MIN FALL OFF	6/29/2015	2:20 PM	4044	2075	
10 MIN FALL OFF	6/29/2015	2:25 PM	4015	2060	
15 MIN FALL OFF	6/29/2015	2:30 PM	3994	2025	
Company:	CHEVRON			Recorded By:	T. STANCZAK
Well:	CENTRAL VACUUM UNIT # 145			Witnessed By:	
Field:	VACUUM			Truck Number:	104
County:	LEA			District:	LEVELLAND
State:	NEW MEXICO			Tool Number:	
Injecton	WATER			Test Type:	STEP RATE TESTS
Shut In Time:	2:15 PM			NO FRAC WAS ACHIEVED	
Total Shut In Time:	15 MIN				
Tubing Size:	2.375"				
Open Hole:	N/A				
Perforations:	4374'-4710'				
Plug Back Depth	4779'				

RATE VS. PRESSURE



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

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

Form C-103  
Revised July 18, 2013

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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.)		WELL API NO. 30-025-31709
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other INJECTOR <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator CHEVRON U.S.A. INC.		6. State Oil & Gas Lease No.
3. Address of Operator 15 SMITH ROAD, MIDLAND, TEXAS 79705		7. Lease Name or Unit Agreement Name CENTRAL VACUUM UNIT
4. Well Location Unit Letter: G 2517 feet from NORTH line and 2442 feet from the EAST line Section 36 Township 17S Range 34E NMPM County LEA		8. Well Number 271
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number 4323
		10. Pool name or Wildcat VACUUM; GRAYBURG SAN ANDRES

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 ☐  
CLOSED-LOOP SYSTEM ☐  
OTHER:

SUBSEQUENT REPORT OF:

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

OTHER: RESULTS OF STEP RATE TEST

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.

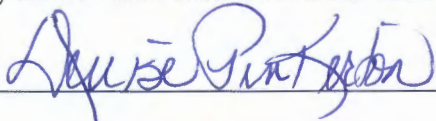
PLEASE FIND ATTACHED, RESULTS OF A STEP RATE TEST THAT WAS RUN ON THE SUBJECT WELL.  
PLEASE APPROVE HIGHER PRESSURE LIMITS AS THIS TEST INDICATES.

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



TITLE REGULATORY SPECIALIST

DATE 07/08/2015

Type or print name DENISE PINKERTON

E-mail address: [leakejd@chevron.com](mailto:leakejd@chevron.com)

PHONE: 432-687-7375

For State Use Only

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):



# CHEVRON

## CENTRAL VACUUM UNIT # 271

July 1, 2015

## JOB INFORMATION SHEET

Company Information	
Company Name:	CHEVRON
Address:	1500 LOUISIANA STREET HOUSTON, TX 77002
Well Information	
Well Name:	CENTRAL VACUUM UNIT # 271
Field – Pool:	VACUUM
Status:	SHUT-IN
Test Information	
Type of Test:	STEP RATE TEST
Gauge Depth:	4340'
Production Interval:	4354'-4616'
Production Through:	TUBING
Tubing Pressure:	2410 psi
Casing Pressure:	0 psi
Shut In Time	9:20 AM
Status:	SHUT-IN
Temperature @ Run Depth	91.40 degF
Surface Temperature:	84.19 degF
Comments	
FRAC @ 1454 B/D 2410 SURFACE PRESSURE 4135 BOTTOM HOLE PRESSURE	

ARCHER WIRELINE

CHEVRON  
1500 LOUISIANA STREET  
HOUSTON, TX 77002

## WELL INFORMATION SHEET

Well:	CENTRAL VACUUM UNIT # 271	Unique Well Identifier:	30-025-31709
Well License:			
Company:	CHEVRON		
Field:	VACUUM		

Location:	County:	LEA
Formation:	State:	NM
Purpose:	Country:	USA

Total Depth:	4340'	ID Borehole:	N/A
Packer Depth:	4316'	ID Production Casing:	5"
Depth of whipstock:	N/A	OD Production Tubing:	2.375"
Depth at which casing is landed:	6275'	ID Production Tubing:	2"
Depth at which tubing is landed:	4316'	ID Drill Pipe:	N/A

ARCHER WIRELINE

## Gradient Data Report

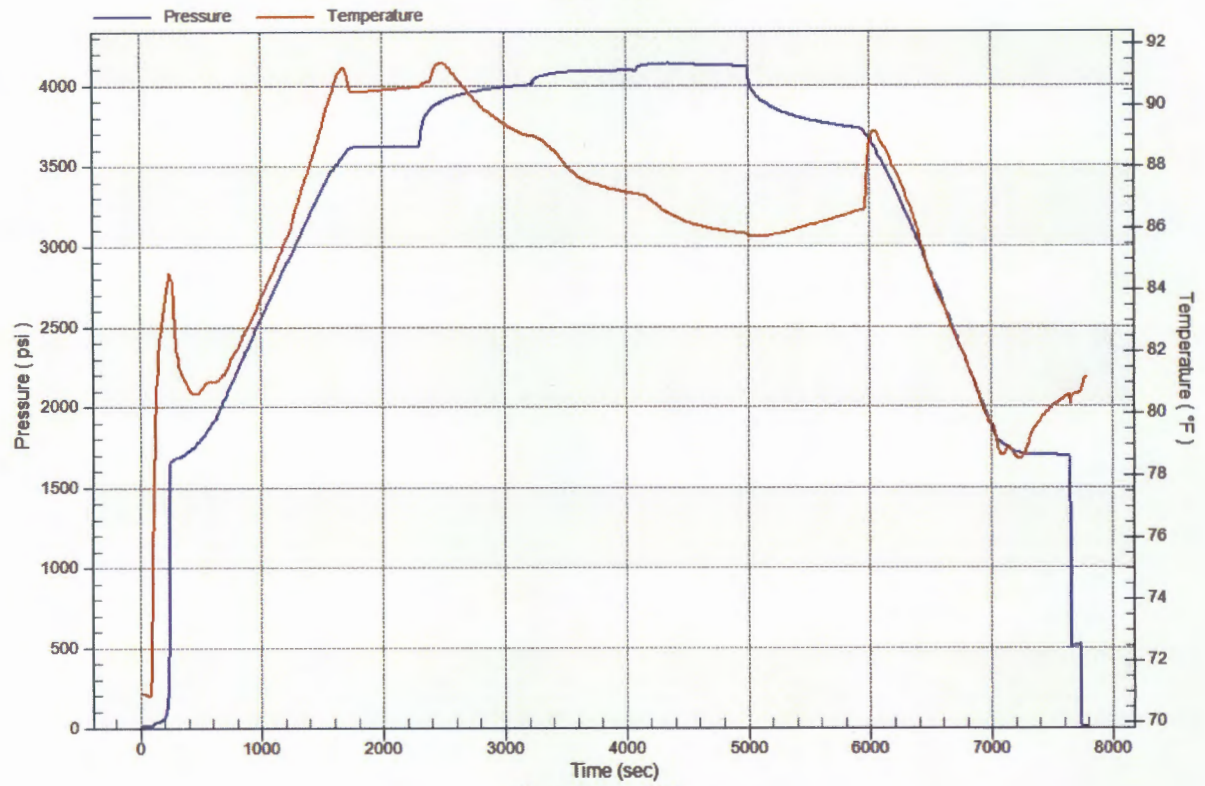
CHEVRON  
CENTRAL VACUUM UNIT # 271

Gradient Data Table

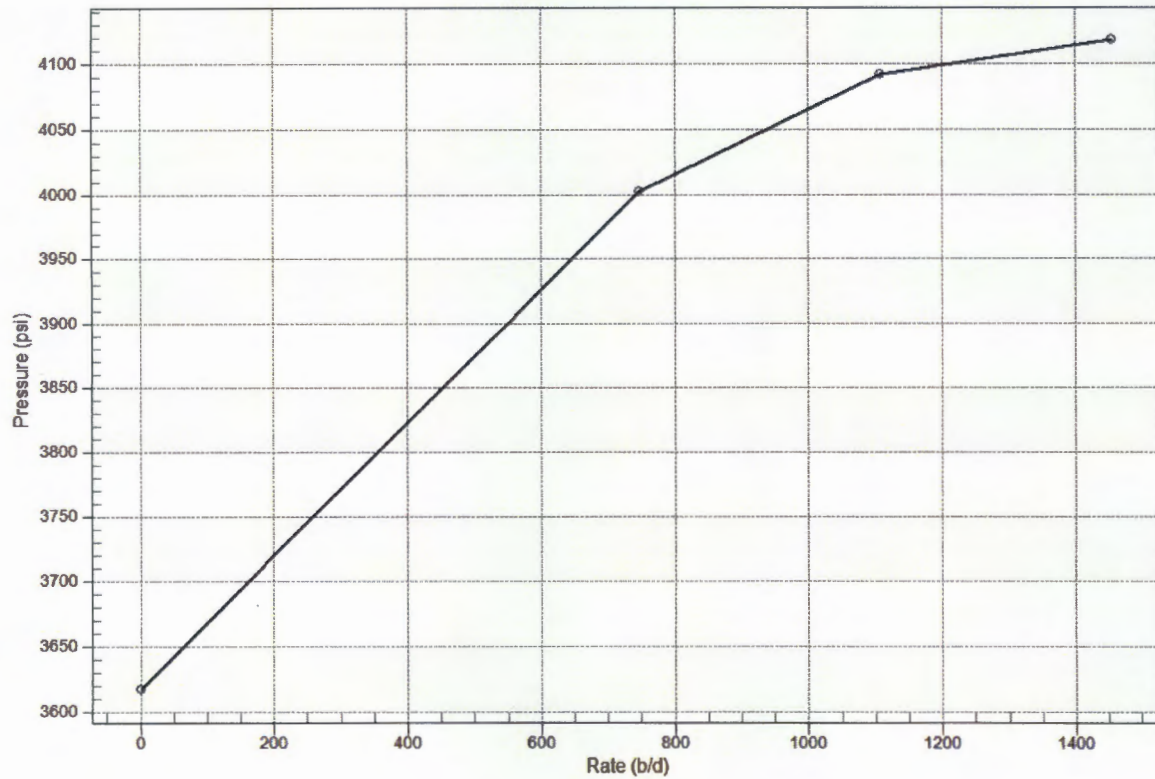
Rate b/d	Pressure psi	Temperature degF	Gradient psi/rate
0.00	3617.09	90.61	0.0000
748.00	4002.42	89.05	0.5152
1108.00	4091.59	87.13	0.2477
1454.00	4118.02	85.85	0.0764

ARCHER WIRELINE

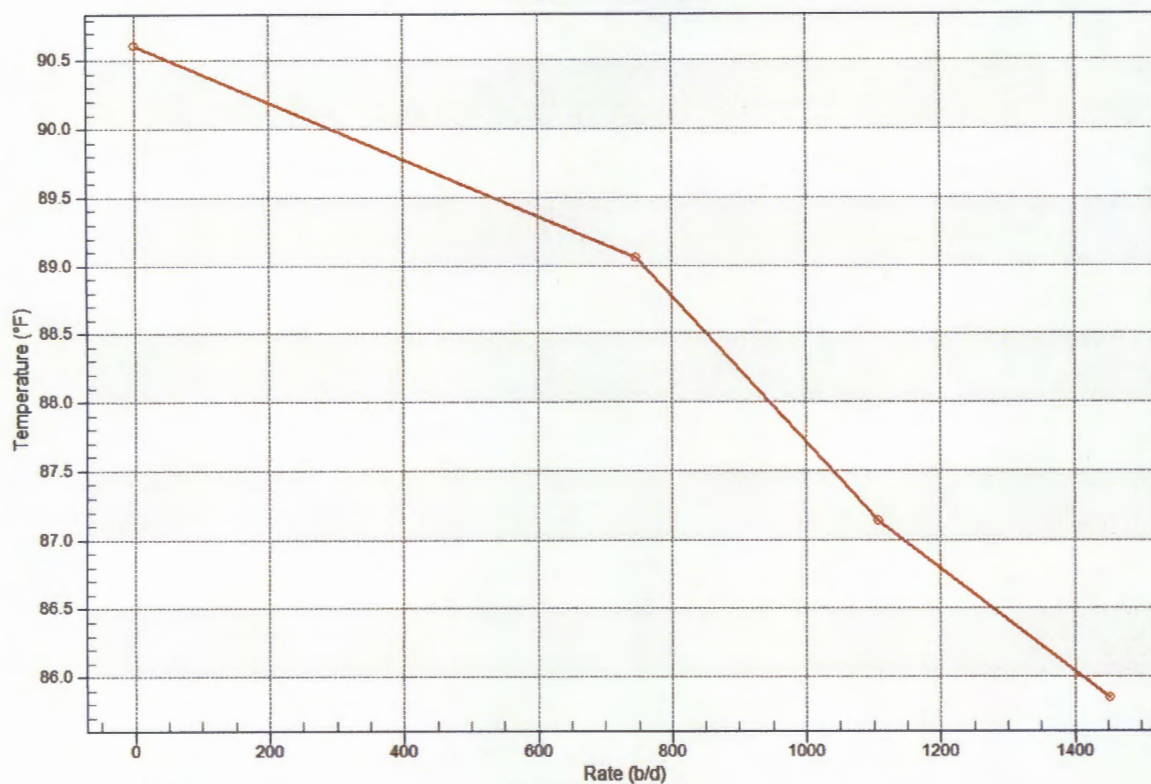
# CVU # 271



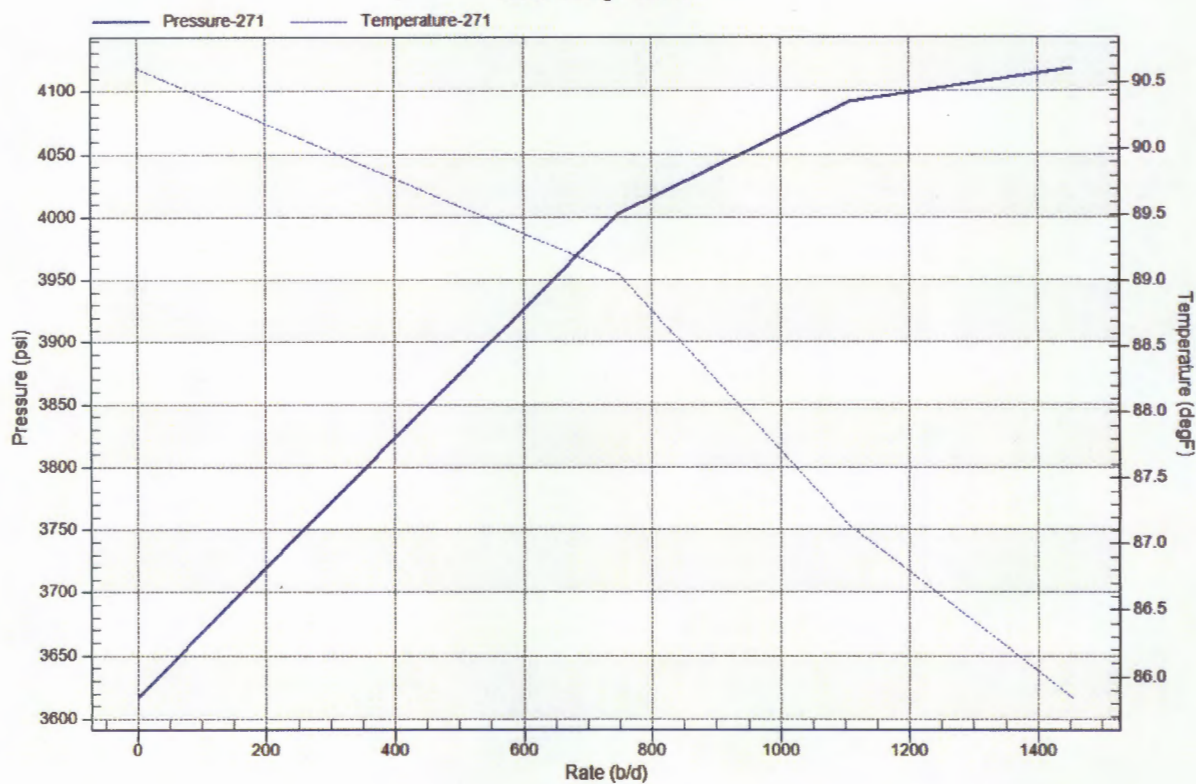
## Pressure vs. Rate



**Temperature vs. Rate**

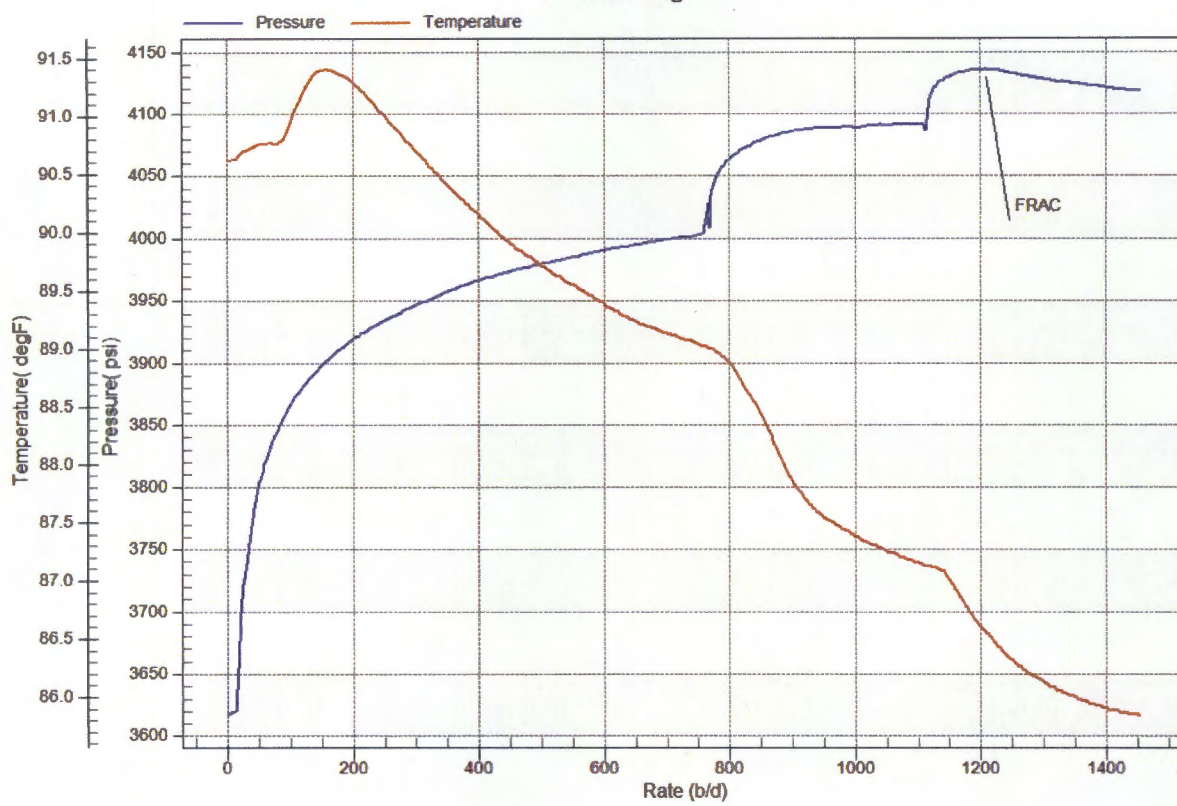


**Pres/Temp vs Rate**





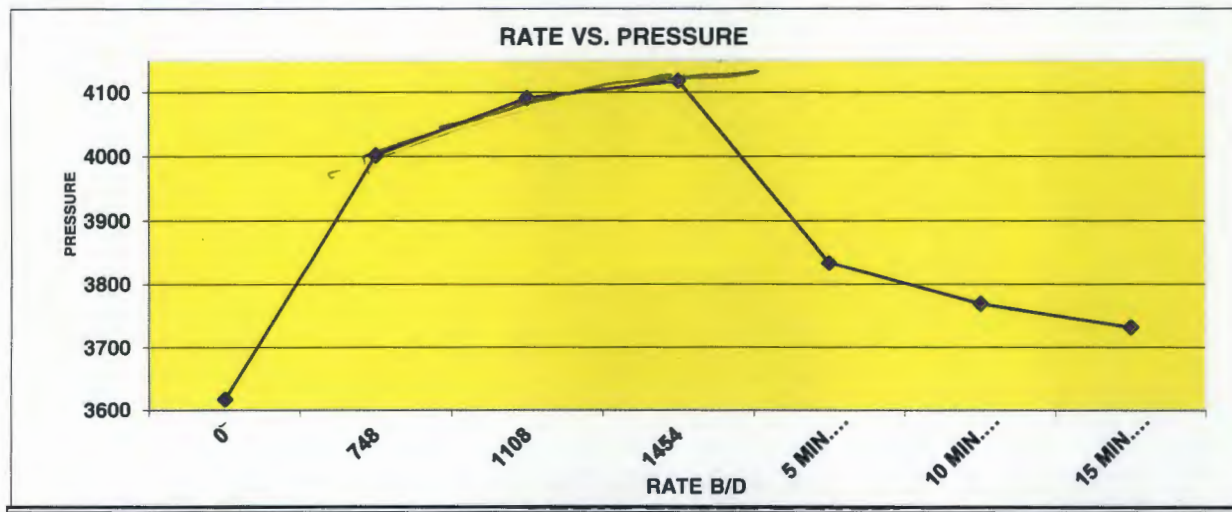
# Pressure Log



# Archer

## STEP RATE TEST

RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
0	7/1/2015	8:35 AM	3617	1550	
748	7/1/2015	8:50 AM	4002	2125	
1108	7/1/2015	9:05 AM	4091	2300	
1454	7/1/2015	9:20 AM	4118	2410	FRAC
5 MIN. FALLOFF	7/1/2015	9:25 AM	3834	1900	
10 MIN. FALLOFF	7/1/2015	9:30 AM	3769	1825	
15 MIN. FALLOFF	7/1/2015	9:35 AM	3732	1800	
Company: CHEVRON USA			Recorded By: T. STANCZAK		
Well: CENTRAL VACUUM # 271			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"			FRAC @ 1454 B/D		
Seat Nipple Depth: N/A			2410 SURFACE PRESSURE		
Shut-In Time: 9:20 AM			4135 BOTTOM HOLE PRESSURE		
Open Hole: N/A					
Perforations: 4354'-4616'					
Plug Back Depth: N/A					



## McMillan, Michael, EMNRD

---

**From:** Adebare, Adedeji Adebola <Deji.Adebare@chevron.com>  
**Sent:** Monday, July 13, 2015 11:36 AM  
**To:** McMillan, Michael, EMNRD  
**Subject:** RE: IPI Admin NMOCD application

Yes, water injection only.

Thanks

Deji

---

**From:** McMillan, Michael, EMNRD [mailto:Michael.McMillan@state.nm.us]  
**Sent:** Friday, July 10, 2015 8:56 AM  
**To:** Adebare, Adedeji Adebola  
**Subject:** RE: IPI Admin NMOCD application

Is your application for water injection only? Because some of these wells in the past have been for water and CO<sub>2</sub>.  
Mike

---

**From:** Adebare, Adedeji Adebola [mailto:Deji.Adebare@chevron.com]  
**Sent:** Thursday, July 09, 2015 2:05 PM  
**To:** McMillan, Michael, EMNRD  
**Subject:** RE: IPI Admin NMOCD application

Here are the requested data for all the wells. Also attached are the results from the SRTs

Nos	Well Name	Expected Rate, bwpd	Expected Pressure, Psi	NMOCD
1	CVU 46	2500	2500	
2	CVU 74	2500	2500	
3	CVU 82	3400	2100	
4	CVU 84	2400	2350	
5	CVU 101	2500	2500	
6	CVU 242	2300	2350	
7	CVU 145	2500	2600	2600
8	CVU 271	1100	2300	2250
9	CVU 194	2900	2400	2400

Thanks

Deji Adebare

---

**From:** McMillan, Michael, EMNRD [mailto:Michael.McMillan@state.nm.us]  
**Sent:** Thursday, July 09, 2015 2:40 PM  
**To:** Adebare, Adedeji Adebola  
**Subject:** RE: IPI Admin NMOCD application





NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

July 23, 1999

Texaco E & P  
205 E Bender  
Hobbs, New Mexico 88240

Attn: Mr. Britton McQuien

RE: *Injection Pressure Increase, - 2 pDEV0019958520*  
*23 Wells, Vacuum Glorieta West Unit*  
*Lea County, New Mexico*

Dear Mr. McQuien:

Reference is made to your requests dated June 16, 1999 to increase the surface injection pressure on the above referenced wells. This request is based on step rate tests conducted between May 21 and June 8, 1999. The results of the test 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 Injection Pressure</i>
Vacuum Glorieta West Unit Well No.38	2000 PSIG
Vacuum Glorieta West Unit Well No.39	2000 PSIG
Vacuum Glorieta West Unit Well No.40	2000 PSIG
Vacuum Glorieta West Unit Well No.41	2000 PSIG
Vacuum Glorieta West Unit Well No.42	2000 PSIG
Vacuum Glorieta West Unit Well No.50	2000 PSIG
Vacuum Glorieta West Unit Well No.51	2000 PSIG
Vacuum Glorieta West Unit Well No.52	2000 PSIG
Vacuum Glorieta West Unit Well No.53	2000 PSIG

*Injection Pressure Increase*

*Texaco E & P*

*July 23, 1999*

*Page 2*

<i>Well and Location</i>	<i>Maximum Injection Pressure</i>
Vacuum Glorieta West Unit Well No.54	2000 PSIG
Vacuum Glorieta West Unit Well No.55	2000 PSIG
Vacuum Glorieta West Unit Well No.63	1900 PSIG
Vacuum Glorieta West Unit Well No.64	2000 PSIG
Vacuum Glorieta West Unit Well No.65	2000 PSIG
Vacuum Glorieta West Unit Well No.66	2000 PSIG
Vacuum Glorieta West Unit Well No.67	2000 PSIG
Vacuum Glorieta West Unit Well No.68	1900 PSIG
Vacuum Glorieta West Unit Well No.77	2000 PSIG
Vacuum Glorieta West Unit Well No.78	2000 PSIG
Vacuum Glorieta West Unit Well No.79	2000 PSIG
Vacuum Glorieta West Unit Well No.80	2000 PSIG
Vacuum Glorieta West Unit Well No.81	2000 PSIG
Vacuum Glorieta West Unit Well No.82	2000 PSIG
Located in Townships 17, Ranges 34 and 35 East, NMPM Lea County, New Mexico.	



*Injection Pressure Increase*

*Texaco E & P*

*July 23, 1999*

*Page 3*

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

Sincerely,

A handwritten signature in cursive script, appearing to read "Lori Wrotenbery".

Lori Wrotenbery  
Director

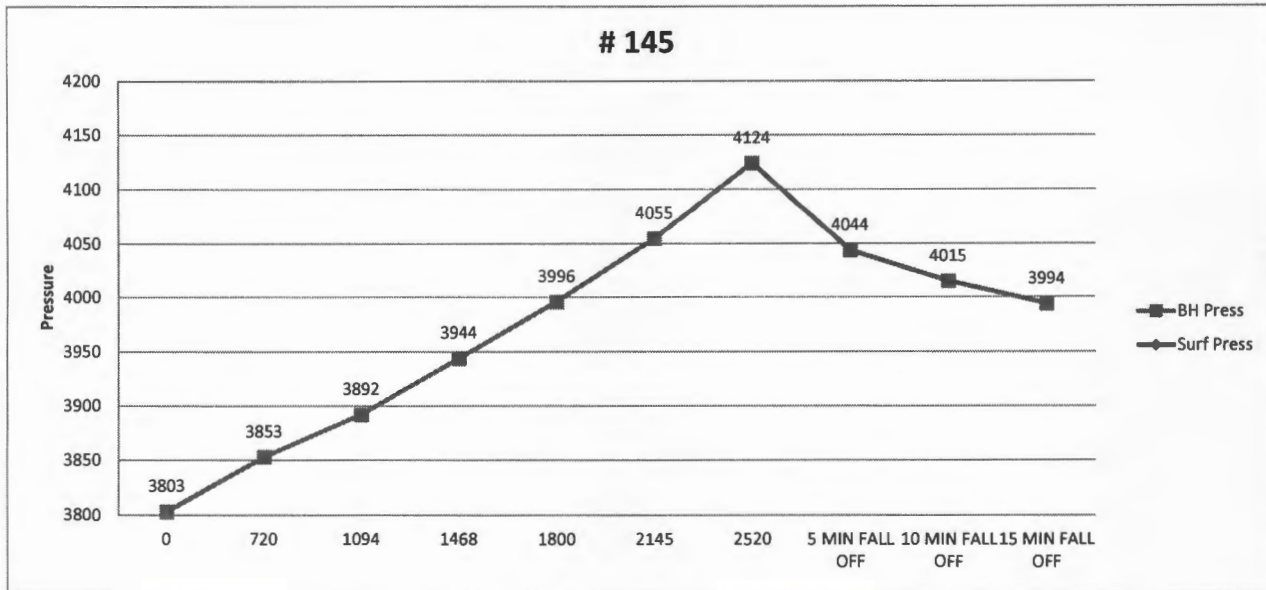
WJL/MWA/kv

cc: Oil Conservation Division - Hobbs  
Files: IPI 1st QTR-2000, Case File 10516 (R-9714)

-2

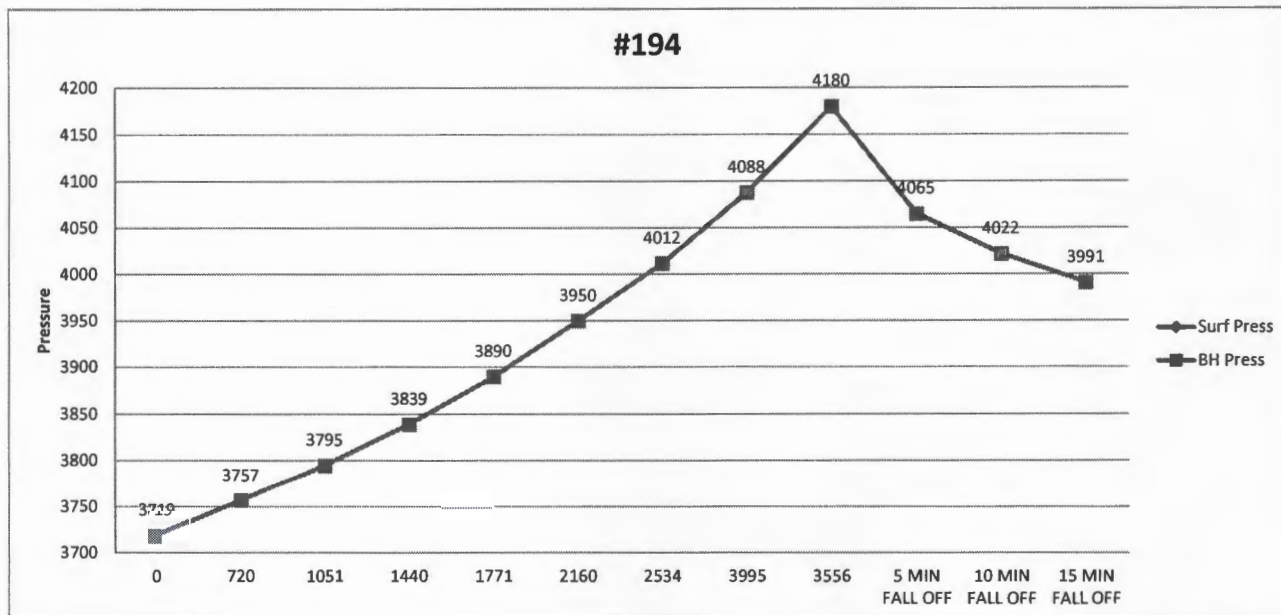
Rate B/D	Date	Time	BH Press	Surf. Press	Comments
0	6/29/2015	12:45 PM	3803	1800	
720	6/29/2015	1:00 PM	3853	1925	
1094	6/29/2015	1:15 PM	3892	2010	
1468	6/29/2015	1:30 PM	3944	2150	
1800	6/29/2015	1:45 PM	3996	2260	
2145	6/29/2015	2:00 PM	4055	2425	
2520	6/29/2015	2:15 PM	4124	2650	
5 MIN FALL OFF	6/29/2015	2:20 PM	4044	2075	
10 MIN FALL OFF	6/29/2015	2:25 PM	4015	2060	
15 MIN FALL OFF	6/29/2015	2:30 PM	3994	2025	

Company Chevron USA INC  
 well Central Vacuum Unit #145  
 Field Vacuum  
 County Lea  
 State New Mexico  
 Injection Water  
 Shut in time 2:15 PM  
 Total shut in Time 15 MIN  
 Tubing Size 2.375"  
 Open Hole N/A  
 Perfs 4374-4710'  
 Plug Back Depth 4779'



Rate B/D	Date	Time	BH Press	Surf. Press	Comments
0	6/12/2015	8:45 AM	3719	1775	
720	6/12/2015	9:00 AM	3757	1810	
1051	6/12/2015	9:15 AM	3795	1900	
1440	6/12/2015	9:30 AM	3839	1975	
1771	6/12/2015	9:45 AM	3890	2050	
2160	6/12/2015	10:00 AM	3950	2150	
2534	6/12/2015	10:15 AM	4012	2250	
3995	6/12/2015	10:30 AM	4088	2375	
3556	6/12/2015	10:45 AM	4180	2575	
5 MIN FALL OFF	6/12/2015	10:50 AM	4065	2125	
10 MIN FALL OFF	6/12/2015	10:55 AM	4022	2075	
15 MIN FALL OFF	6/12/2015	11:00 AM	3991	2025	

Company Chevron USA INC  
 well Central Vacuum Unit #145  
 Field Vacuum  
 County Lea  
 State New Mexico  
 Injection Water  
 Shut in time 10:45 AM  
 Total shut in Time 15 MIN  
 Tubing Size 2.875"  
 Open Hole N/A  
 Perfs 4281-4686'  
 Plug Back Depth 4750'



Rate B/D	Date	Time	BH Press	Surf. Press	Comments
0	7/1/2015	8:35 AM	3617	1550	
720	7/1/2015	8:50 AM	4002	2125	
1108	7/1/2015	9:05 AM	4091	2300	
1454	7/1/2015	9:20 AM	4118	2410	Frac
5 MIN FALL OFF	7/1/2015	9:25 AM	3834	1900	
10 MIN FALL OFF	7/1/2015	9:30 AM	3769	1825	
15 MIN FALL OFF	7/1/2015	9:35 AM	3732	1800	

Company Chevron USA INC  
 well Central Vacuum Unit #145  
 Field Vacuum  
 County Lea  
 State New Mexico  
 Injection Water  
 Shut in time 10:45 AM  
 Total shut in Time 15 MIN  
 Tubing Size 2.375"  
 Open Hole N/A  
 Perfs 4354-4616'  
 Plug Back Depth N/A

