

DATE IN 9/18	SUSPENSE	ENGINEER WVTJ	LOGGED IN	TYPE IPF 501	APP NO 1530831985
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10/13 ENAL

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]

3 CVU wells

[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 \_\_\_\_\_

[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

Print or Type Name

*Denise Pinkerton*

Signature

REGULATORY SPECIALIST

Title

09/15/2015

Date

522 WFX-917  
 11/8/13  
 1500 PSI

LEAKEJD@CHEVRON.COM  
 e-mail Address

CVU #28

2420 ⇒ 0.55

RECEIVED OOD  
 2015 SEP 18 A 3:05

#29  
 #146

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 30-025-25816
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 028
9. OGRID Number 4323
10. Pool name or Wildcat VACUUM; GRAYBURG SAN ANDRES

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 <input type="checkbox"/> Other INJECTOR
2. Name of Operator CHEVRON U.S.A. INC.
3. Address of Operator 15 SMITH ROAD, MIDLAND, TEXAS 79705
4. Well Location Unit Letter: P 1230 feet from SOUTH line and 159 feet from the EAST line Section 25 Township 17S Range 34E NMPM County LEA
11. Elevation (Show whether DR, RKB, RT, GR, etc.)

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. THIS IS FOR WATER ONLY.

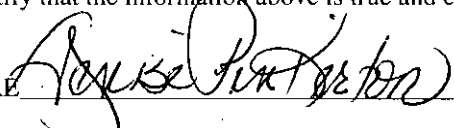
EXPECTED RATE, BWPD - 2100  
EXPECTED PRESSURE, PSI - 2500

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 09/15/2015

Type or print name DENISE PINKERTON  
For State Use Only

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

PHONE: 432-687-7375

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):

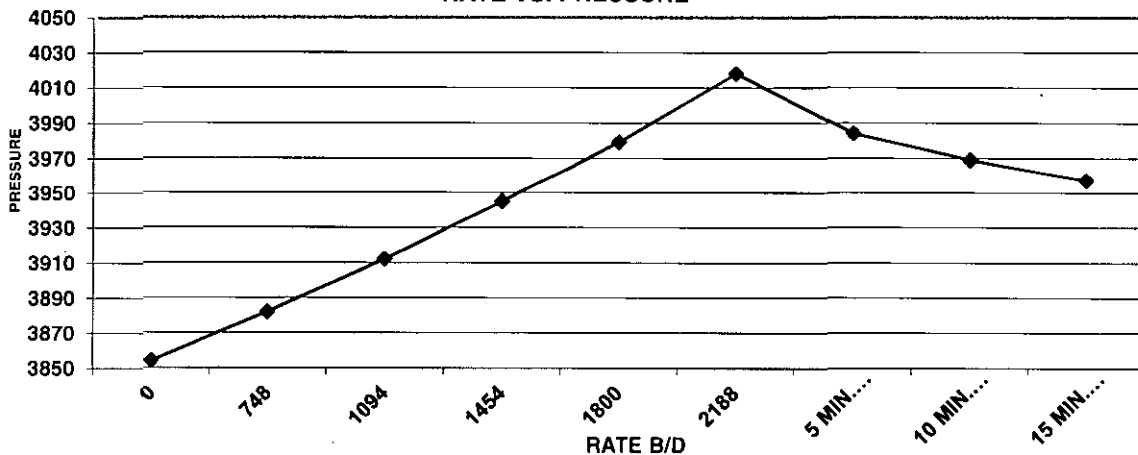
30-025 - 25816  
P-25 175 34E 1230 S 159E

# Archer

## STEP RATE TEST

RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
0	8/26/2015	12:15 PM	3854	1825	
748	8/26/2015	12:30 PM	3882	2060	
1094	8/26/2015	12:45 PM	3912	2150	
1454	8/26/2015	1:00 PM	3945	2280	
1800	8/26/2015	1:15 PM	3979	2420	
2188	8/26/2015	1:30 PM	4018	2590	
5 MIN. FALLOFF	8/26/2015	1:35 PM	3984	2100	
10 MIN. FALLOFF	8/26/2015	1:40 PM	3969	2075	
15 MIN. FALLOFF	8/26/2015	1:45 PM	3957	2060	
Company: CHEVRON USA				Recorded By:	T. STANCZAK
Well: CENTRAL VACUUM UNIT # 28				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"				NO FRAC WAS ACHIEVED	
Seat Nipple Depth: N/A					
Shut-In Time: 1:30 PM					
Open Hole:					
Perforations: 4407'-4724'					
Plug Back Depth N/A					

RATE VS. PRESSURE



# **CHEVRON**

## **CENTRAL VACUUM UNIT # 28**

August 26, 2015

## JOB INFORMATION SHEET

Company Information		
Company Name:	CHEVRON	
Address:	1500 LOUISIANA STREET HOUSTON, TX 77002	
Well Information		
Well Name:	CENTRAL VACUUM UNIT # 28	
Field – Pool:	VACUUM	
Status:	SHUT-IN	
Test Information		
Type of Test:	STEP-RATE TEST	
Gauge Depth:	4365'	
Production Interval:	4407'-4724'	
Production Through:	TUBING	
Tubing Pressure:	2590 psi	
Casing Pressure:	0 psi	
Shut In Time:	1:30 PM	
Status:	SHUT-IN	
Temperature @ Run Depth	93.01 degF	
Surface Temperature:	90.51 degF	
Comments		
NO FRAC WAS ACHIEVED		

ARCHER WIRELINE

CHEVRON

## WELL INFORMATION SHEET

Well:	CENTRAL VACUUM UNIT # 28		
Well License:		Unique Well Identifier:	30-025-25816
Company:	CHEVRON		
Field	VACUUM		

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

Total Depth:	4365'	ID Borehole:	N/A
Packer Depth:	4321'	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:	4321'	ID Drill Pipe:	N/A

ARCHER WIRELINE

## Gradient Data Report

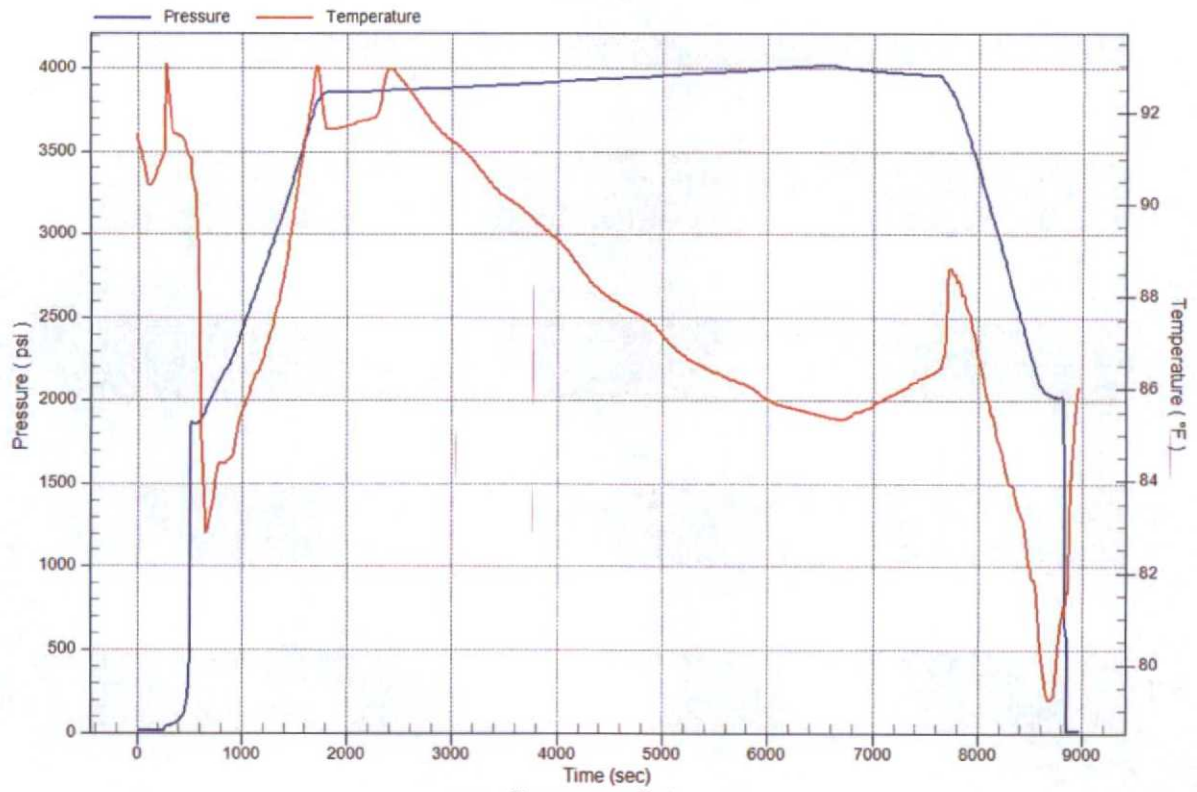
CHEVRON  
CENTRAL VACUUM UNIT # 28

Gradient Data Table

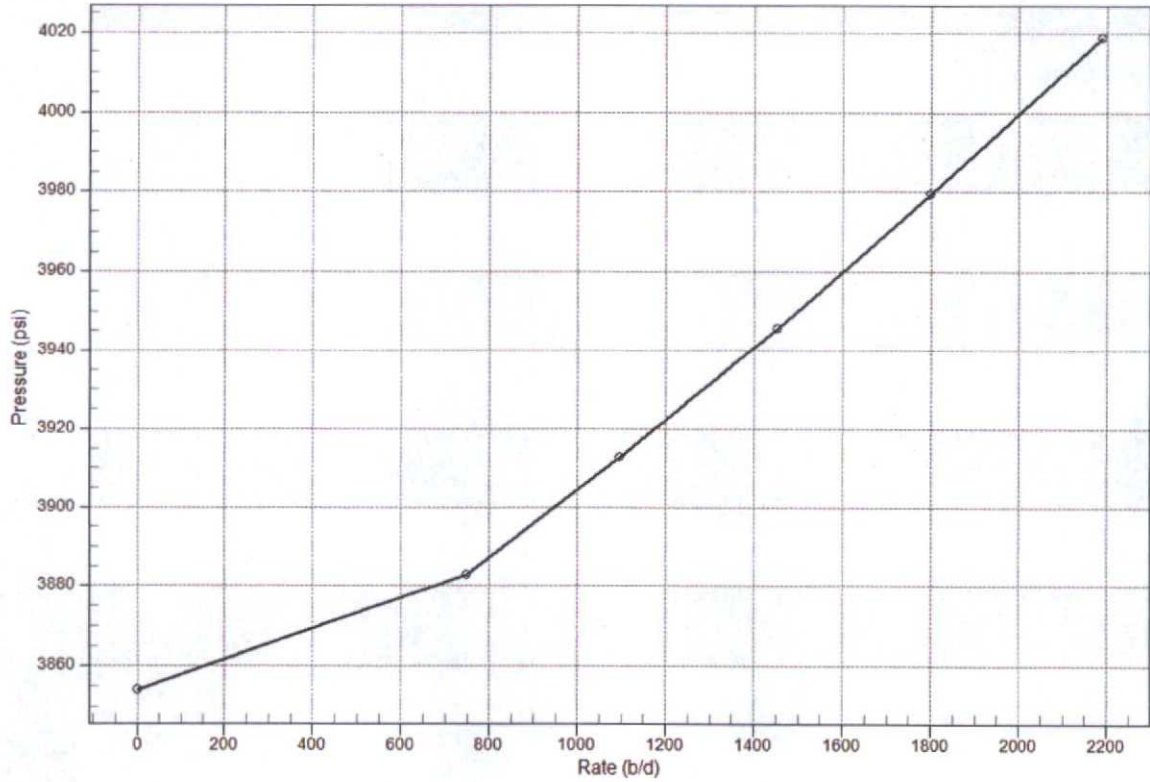
Rate b/d	Pressure psi	Temperature degF	Gradient psi/rate
0.00	3854.09	91.82	0.0000
748.00	3882.87	91.32	0.0385
1094.00	3912.84	89.36	0.0866
1454.00	3945.58	87.52	0.0910
1800.00	3979.56	86.14	0.0982
2188.00	4018.74	85.36	0.1010

ARCHER WIRELINE

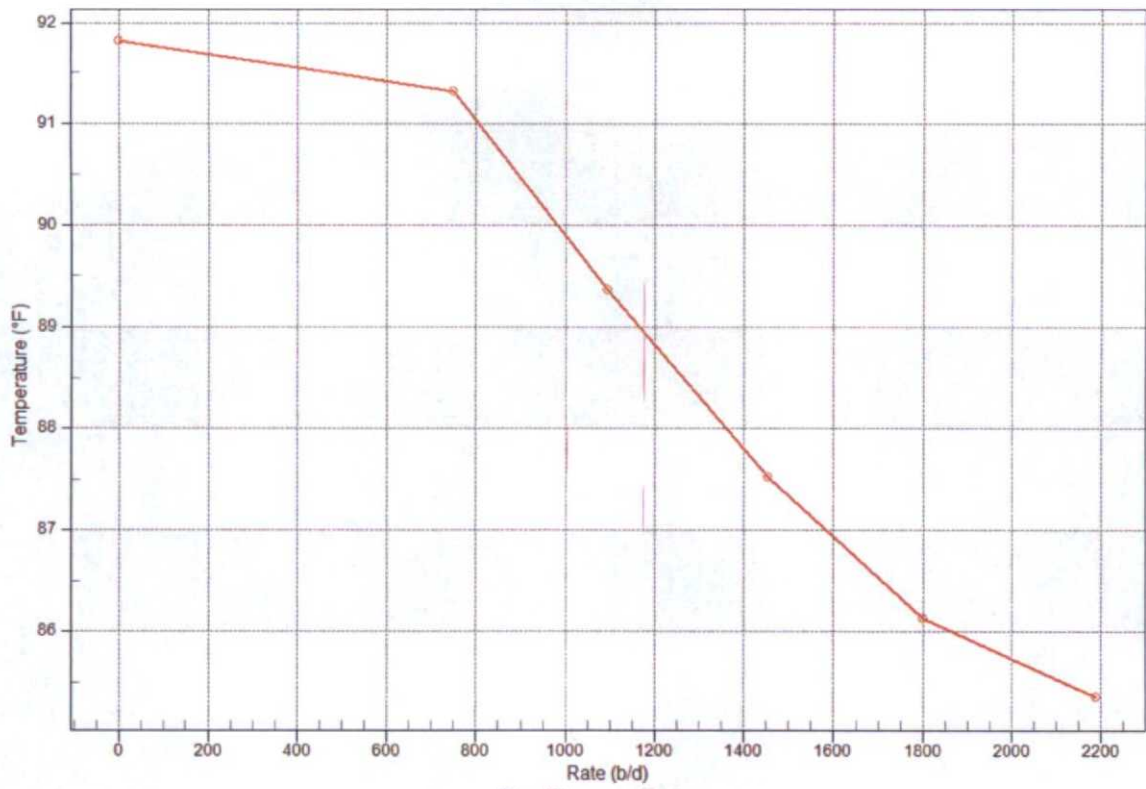
# CVU # 28



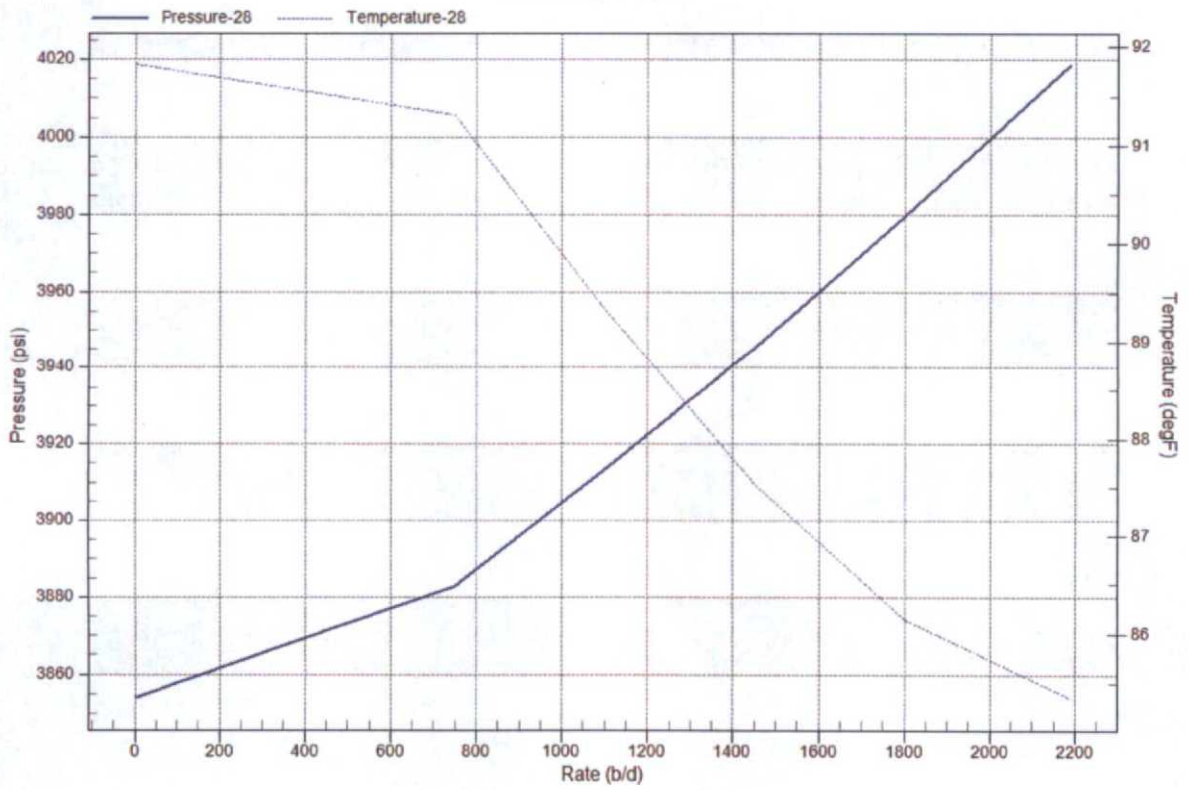
## Pressure vs. Rate



Temperature vs. Rate

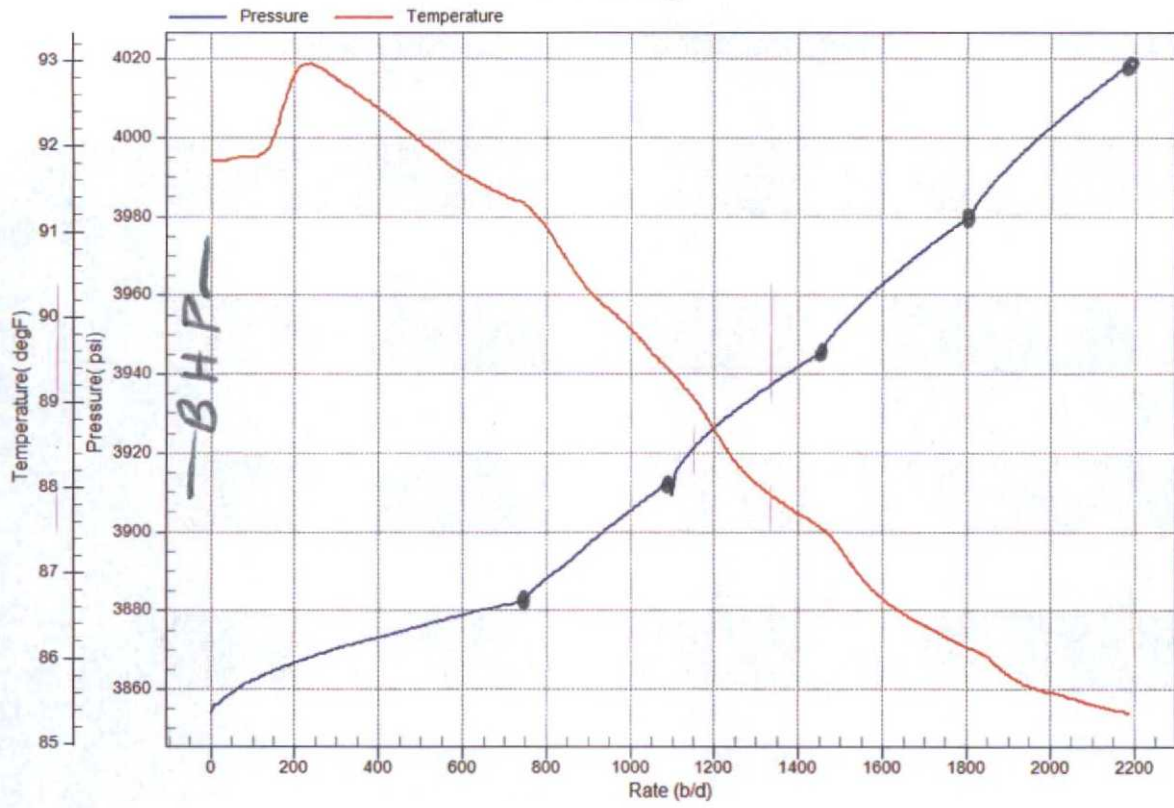


Pres/Temp vs Rate





# Pressure Log



DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
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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

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 [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]

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[D] Other: Specify \_\_\_\_\_

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

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

DENISE PINKERTON

Print or Type Name

*Denise Pinkerton*  
 Signature

REGULATORY SPECIALIST

Title

09/15/2015

Date

LEAKEJD@CHEVRON.COM

e-mail Address

OK #29

1670  
7/18/93

2300 ⇒ 0.52

2015 SEP 18 A 3:05  
 RECEIVED OOD

29

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 30-025-25794
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 029
9. OGRID Number 4323
10. Pool name or Wildcat VACUUM; GRAYBURG SAN ANDRES
11. Elevation (Show whether DR, RKB, RT, GR, etc.)

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 U.S.A. INC.

3. Address of Operator  
15 SMITH ROAD, MIDLAND, TEXAS 79705

4. Well Location

Unit Letter: L 1330 feet from SOUTH line and 1238 feet from the WEST line

Section 30 Township 17S Range 35E NMPM County LEA

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

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

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PLEASE APPROVE HIGHER PRESSURE LIMITS AS THIS TEST INDICATES. THIS IS FOR WATER ONLY.

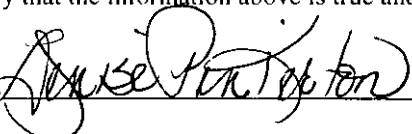
EXPECTED RATE, BWPD - 2400  
EXPECTED PRESSURE, PSI - 2400

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 09/15/2015

Type or print name DENISE PINKERTON  
For State Use Only

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

PHONE: 432-687-7375

APPROVED BY:

TITLE

DATE

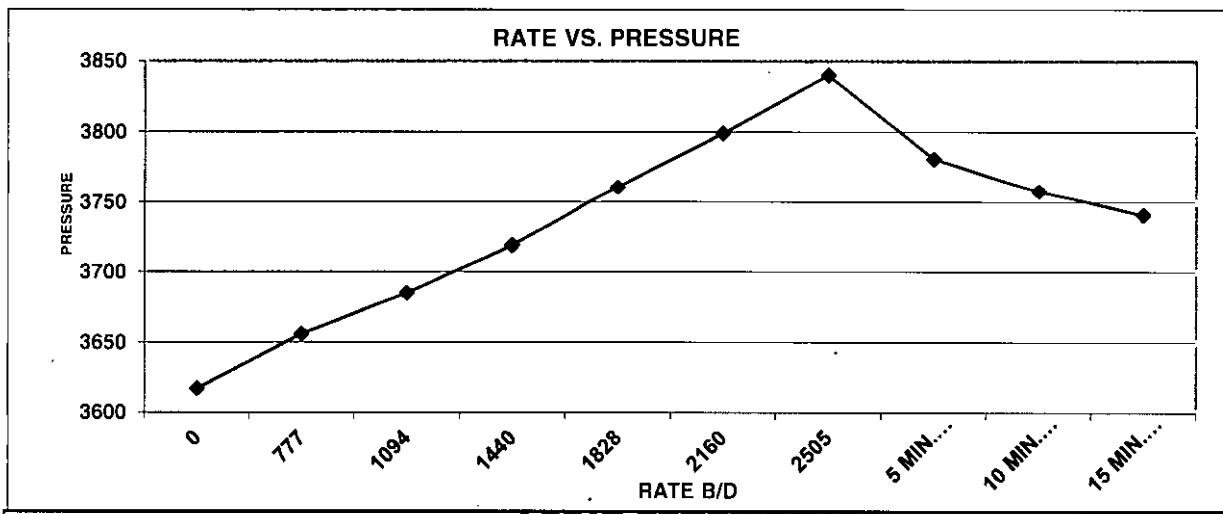
Conditions of Approval (if any):

30-D25-25794  
L-30175 358 1330S, 1238W

# Archer

## STEP RATE TEST

RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
<del>777</del> 0	8/31/2015	9:20 AM	15 3617	1550	
<del>317</del> 777	8/31/2015	9:35 AM	15 3656	1760	
<del>346</del> 1094	8/31/2015	9:50 AM	15 3685	1875	
<del>388</del> 1440	8/31/2015	10:05 AM	15 3719	1990	
<del>332</del> 1828	8/31/2015	10:20 AM	15 3761	2140	
<del>345</del> 2160	8/31/2015	10:35 AM	15 3799	2300	
2505	8/31/2015	10:50 AM	3840	2490	
5 MIN. FALLOFF	8/31/2015	10:55 AM	3781	1840	
10 MIN. FALLOFF	8/31/2015	11:00 AM	3758	1815	
15 MIN. FALLOFF	8/31/2015	11:05 AM	3741	1800	
Company:	CHEVRON USA			Recorded By:	T. STANCZAK
Well:	CENTRAL VACUUM UNIT # 29			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"			NO FRAC WAS ACHIEVED	
Seat Nipple Depth:	N/A				
Shut-In Time:	10:50 AM				
Open Hole:					
Perforations:	4460'-4752'				
Plug Back Depth	N/A				



# **CHEVRON**

## **CENTRAL VACUUM UNIT # 29**

August 31, 2015

## JOB INFORMATION SHEET

Company Information	
Company Name:	CHEVRON
Address:	1500 LOUISIANA STREET HOUSTON, TX 77002
Well Information	
Well Name:	CENTRAL VACUUM UNIT # 29
Field – Pool:	VACUUM
Status:	SHUT-IN
Test Information	
Type of Test:	STEP-RATE TEST
Gauge Depth:	4450'
Production Interval:	4460'-4752'
Production Through:	TUBING
Tubing Pressure:	2490 psi
Casing Pressure:	0 psi
Shut In Time:	10:50 AM
Status:	SHUT-IN
Temperature @ Run Depth	90.47 degF
Surface Temperature:	86.55 degF
Comments	
NO FRAC WAS ACHIEVED	

ARCHER WIRELINE

CHEVRON

## WELL INFORMATION SHEET

Well:	CENTRAL VACUUM UNIT # 29		
Well License:		Unique Well Identifier:	30-025-25794
Company:	CHEVRON		
Field	VACUUM		

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

Total Depth:	4450'	ID Borehole:	N/A
Packer Depth:	4403'	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:	4403'	ID Drill Pipe:	N/A

ARCHER WIRELINE

## Gradient Data Report

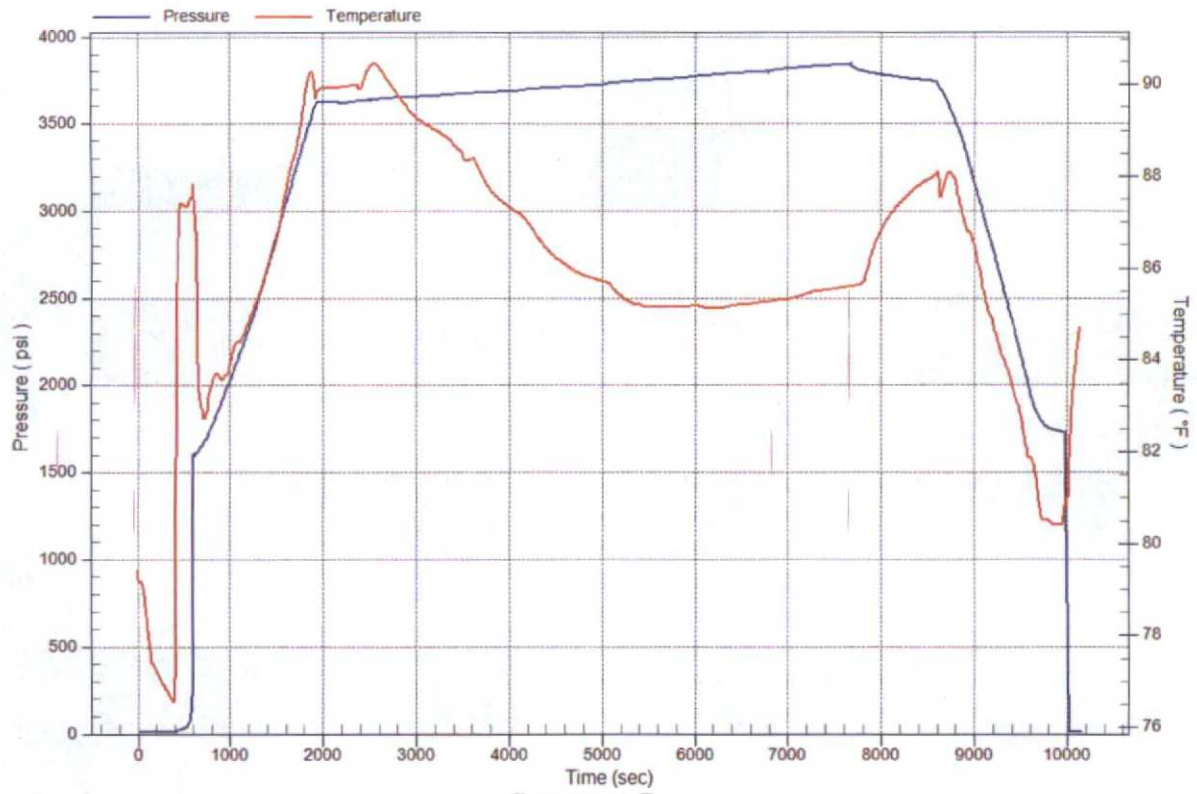
CHEVRON  
CENTRAL VACUUM UNIT # 29

Gradient Data Table

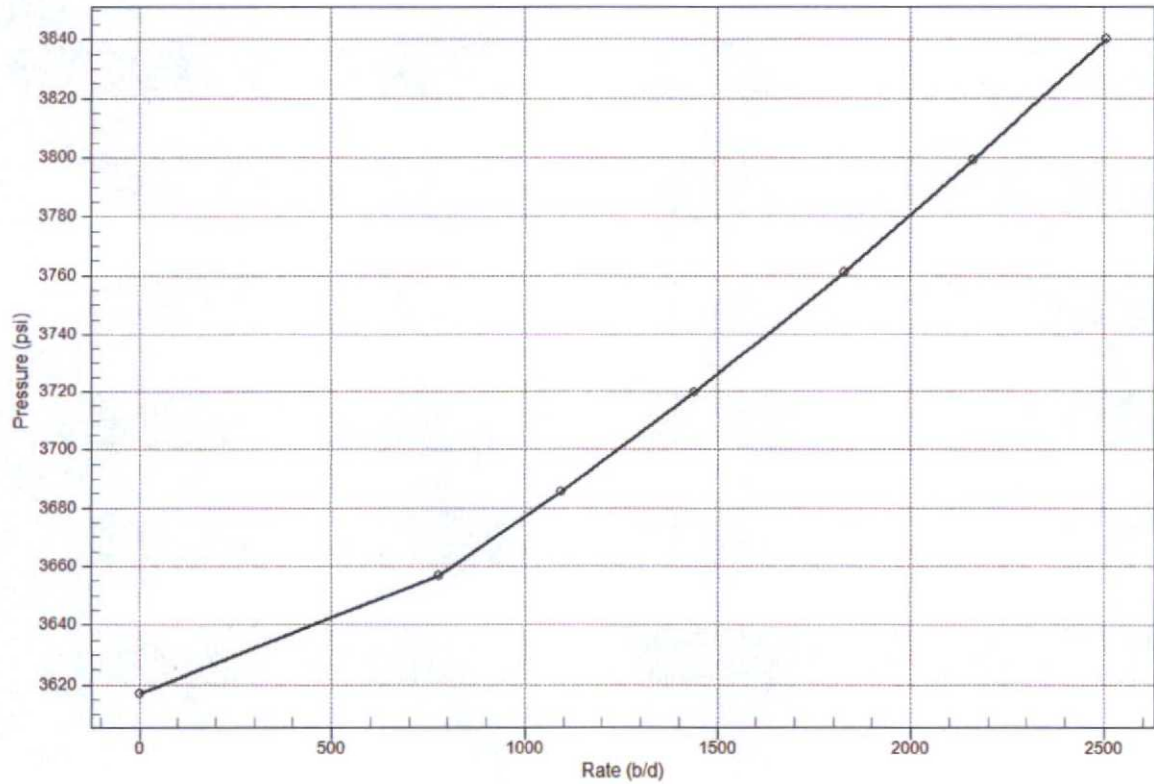
Rate b/d	Pressure psi	Temperature degF	Gradient psi/rate
0.00	3617.01	89.96	0.0000
777.00	3656.60	89.04	0.0509
1094.00	3685.72	87.25	0.0919
1440.00	3719.53	85.74	0.0977
1828.00	3761.07	85.16	0.1071
2160.00	3799.03	85.27	0.1143
2505.00	3840.17	85.61	0.1192

ARCHER WIRELINE

# CVU # 29

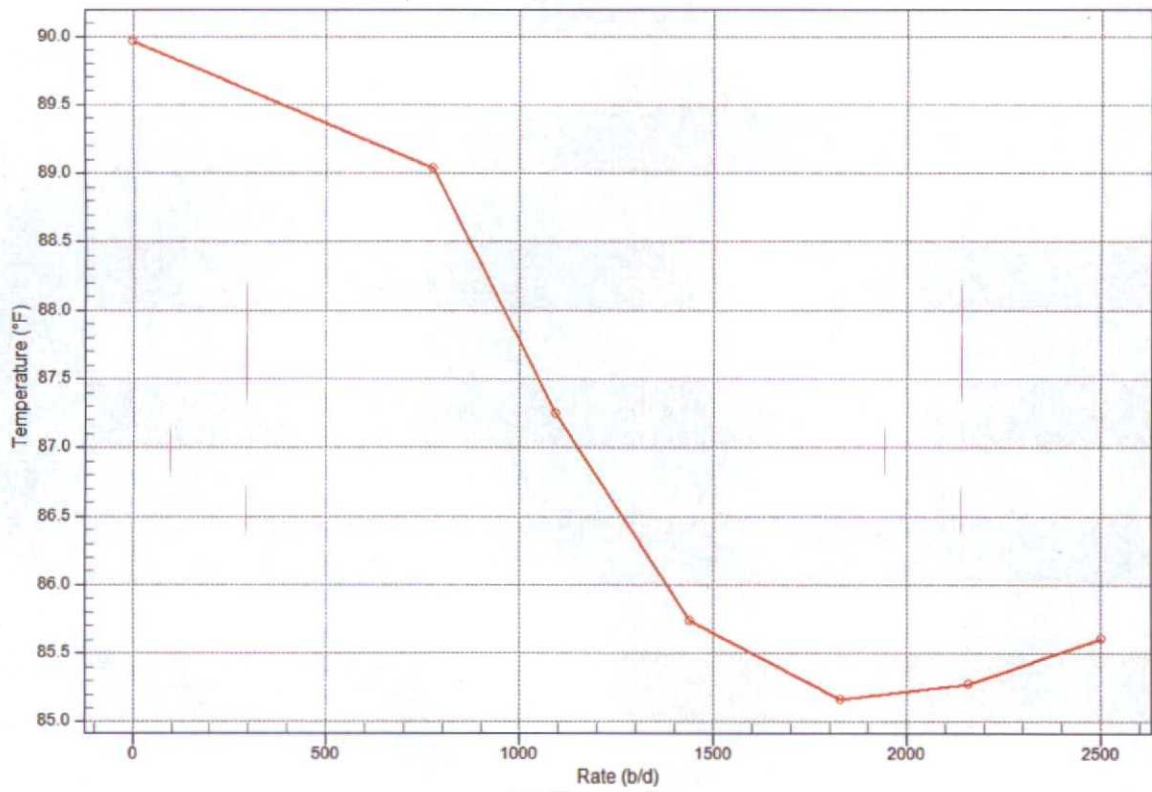


## Pressure vs. Rate

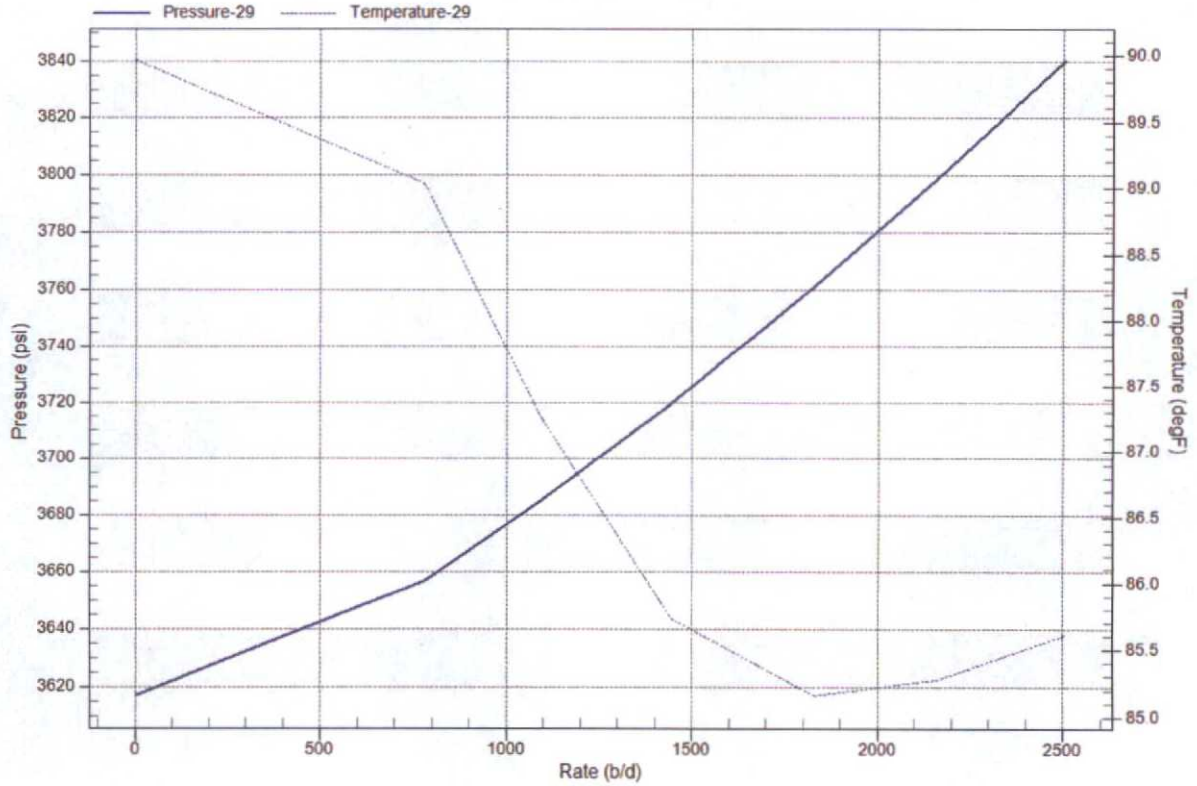




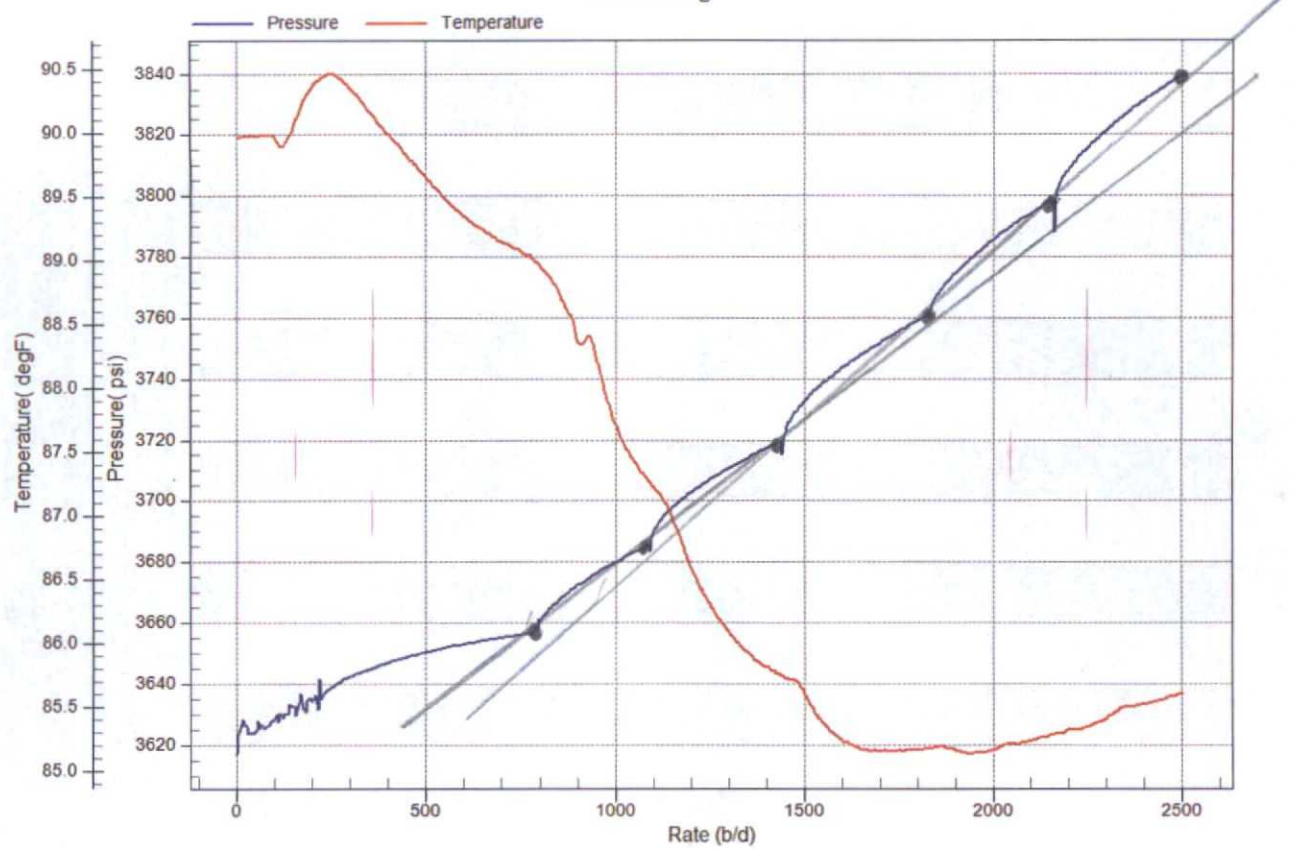
Temperature vs. Rate



Pres/Temp vs Rate



### Pressure Log



DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
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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



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**[D] Other: Specify** \_\_\_\_\_

#146

RECEIVED OGD  
 2015 SEP 18 A 3:05

**[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply**

- [A]** ☐ Working, Royalty or Overriding Royalty Interest Owners
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- [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

*[Signature]*

REGULATORY SPECIALIST

09/15/2015

Print or Type Name

Signature

Title

Date

CVU #146  
 R-5530-E  
 2250-  
 5/22/95  
 2014-06-09  
 5/26/80

LEAKEJD@CHEVRON.COM  
 e-mail Address

2380 ⇒ 0.55

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

<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 30-025-26790
1. Type of Well: Oil Well      Gas Well <input type="checkbox"/> Other INJECTOR		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 2465 feet from NORTH line and 1335 feet from the EAST line Section 31      Township 17S      Range 35E      NMPM      County LEA		8. Well Number 146
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. THIS IS FOR WATER ONLY.

EXPECTED RATE, BWPD - 2500  
EXPECTED PRESSURE, PSI - 2500

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 09/15/2015

Type or print name DENISE PINKERTON  
For State Use Only

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

PHONE: 432-687-7375

APPROVED BY:

TITLE

DATE

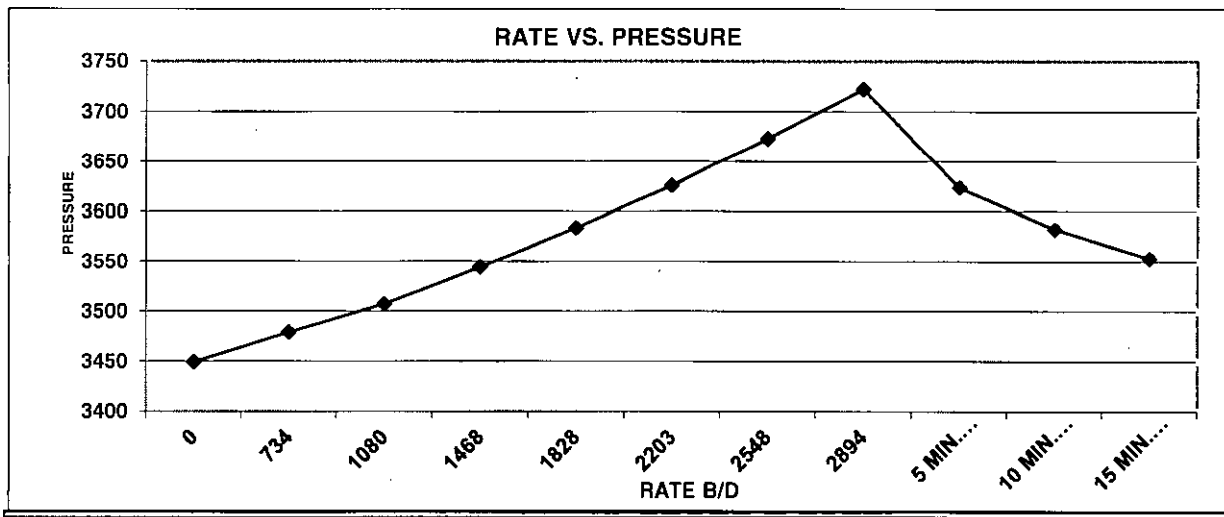
Conditions of Approval (if any):

30-025- 26790  
Q-31 175 35E 2465 N, 1335 E

# Archer

## STEP RATE TEST

RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
0	8/27/2015	8:25 AM	3449	1475	
734	8/27/2015	8:40 AM	3479	1640	
1080	8/27/2015	8:55 AM	3507	1760	
1468	8/27/2015	9:10 AM	3544	1880	
1828	8/27/2015	9:25 AM	3583	2010	
2203	8/27/2015	9:40 AM	3626	2200	
2548	8/27/2015	9:55 AM	3673	(2380)	
2894	8/27/2015	10:10 AM	3722	2570	
5 MIN. FALLOFF	8/27/2015	10:15 AM	3624	1750	
10 MIN. FALLOFF	8/27/2015	10:20 AM	3582	1710	
15 MIN. FALLOFF	8/27/2015	10:25 AM	3553	1680	
Company:	CHEVRON USA			Recorded By:	T. STANCZAK
Well:	CENTRAL VACUUM UNIT # 146			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"			NO FRAC WAS ACHIEVED	
Seat Nipple Depth:	N/A				
Shut-In Time:	10:10 AM				
Open Hole:					
Perforations:	4346'-4683'				
Plug Back Depth	N/A				



# **CHEVRON**

## **CENTRAL VACUUM UNIT # 146**

August 27, 2015

## JOB INFORMATION SHEET

Company Information	
Company Name:	CHEVRON
Address:	1500 LOUISIANA STREET HOUSTON, TX 77002
Well Information	
Well Name:	CENTRAL VACUUM UNIT # 146
Field – Pool:	VACUUM
Status:	SHUT-IN
Test Information	
Type of Test:	STEP-RATE TEST
Gauge Depth:	4300'
Production Interval:	4346'-4683'
Production Through:	TUBING
Tubing Pressure:	2570 psi
Casing Pressure:	0 psi
Shut In Time:	10:10 AM
Status:	SHUT-IN
Temperature @ Run Depth	90.49 degF
Surface Temperature:	87.05 degF
Comments	
NO FRAC WAS ACHIEVED	

ARCHER WIRELINE

CHEVRON

## WELL INFORMATION SHEET

Well:	CENTRAL VACUUM UNIT # 146		
Well License:		Unique Well Identifier:	30-025-26790
Company:	CHEVRON		
Field	VACUUM		

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

Total Depth:	4300'	ID Borehole:	N/A
Packer Depth:	3900'	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:	3900'	ID Drill Pipe:	N/A

ARCHER WIRELINE

## Gradient Data Report

CHEVRON  
CENTRAL VACUUM UNIT # 146

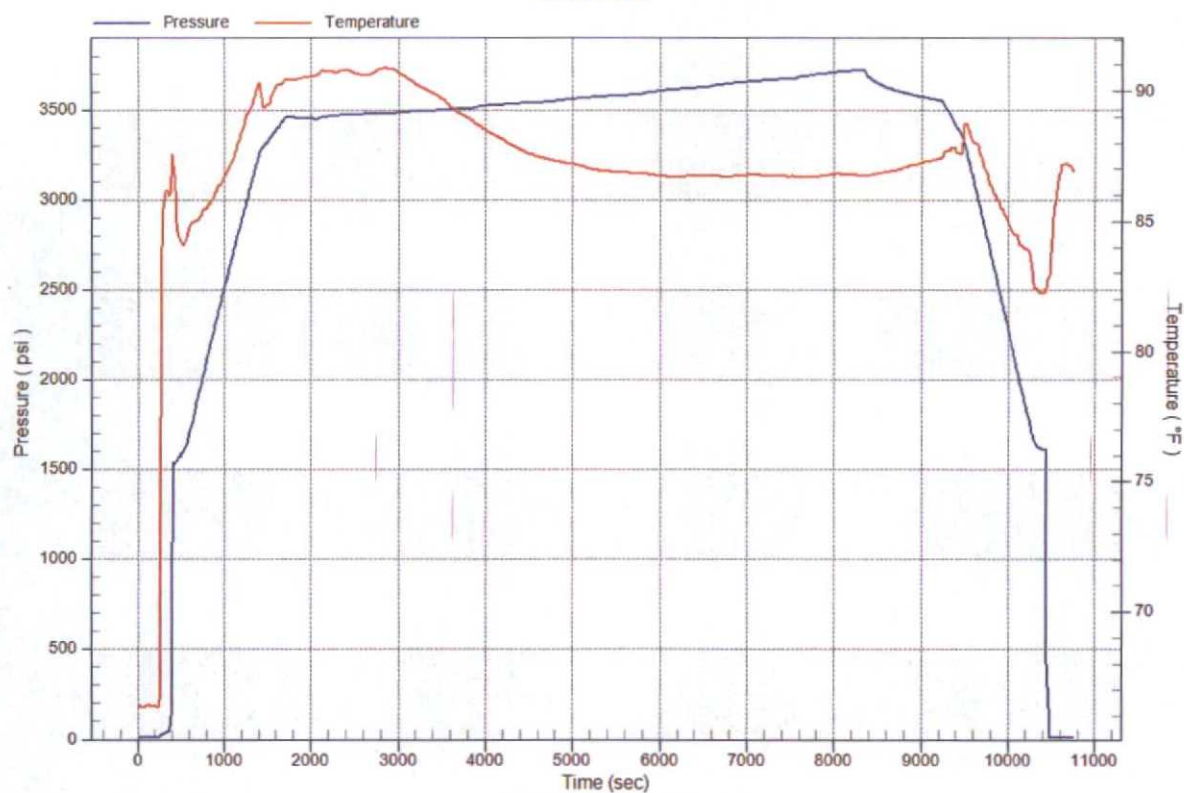
Gradient Data Table

Rate b/d	Pressure psi	Temperature degF	Gradient psi/rate
0.00	3449.93	90.58	0.0000
734.00	3479.64	90.86	0.0405
1080.00	3507.97	88.95	0.0819
1468.00	3544.36	87.38	0.0938
1828.00	3583.42	86.86	0.1085
2203.00	3626.61	86.73	0.1152
2548.00	3673.44	86.72	0.1357
2894.00	3722.94	86.76	0.1430

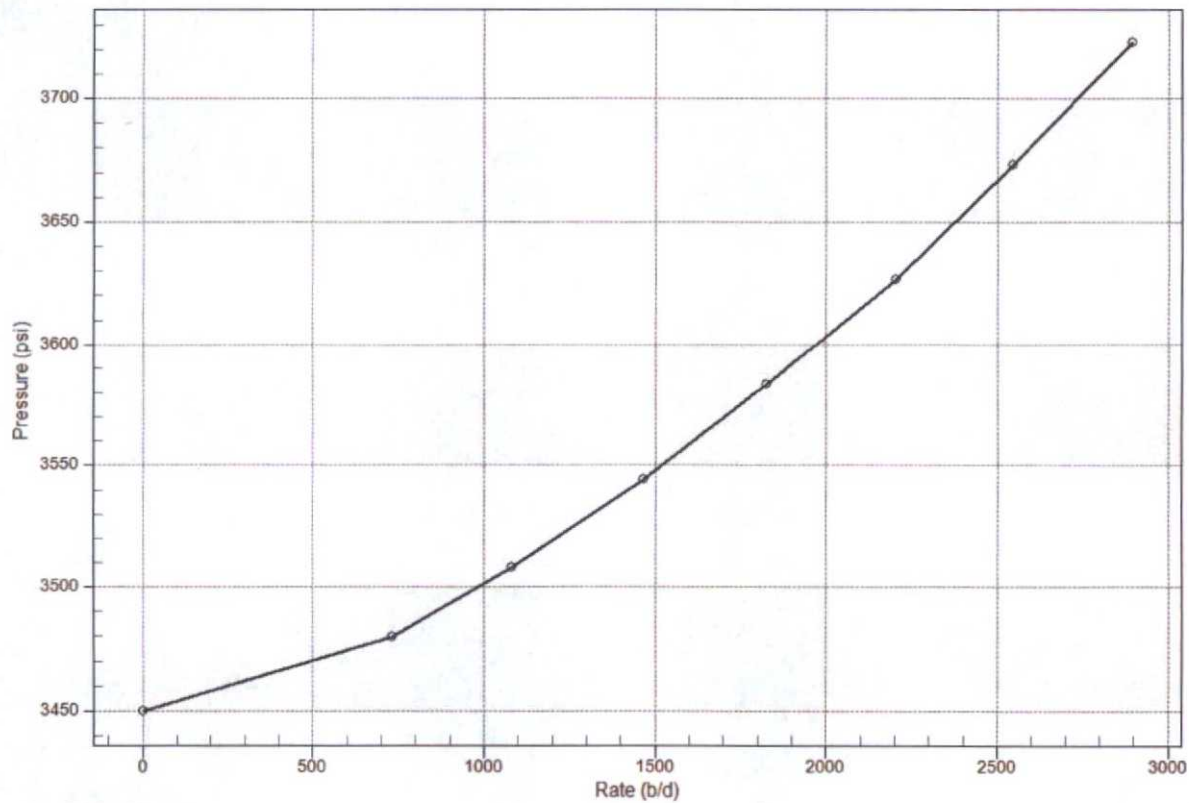
ARCHER WIRELINE



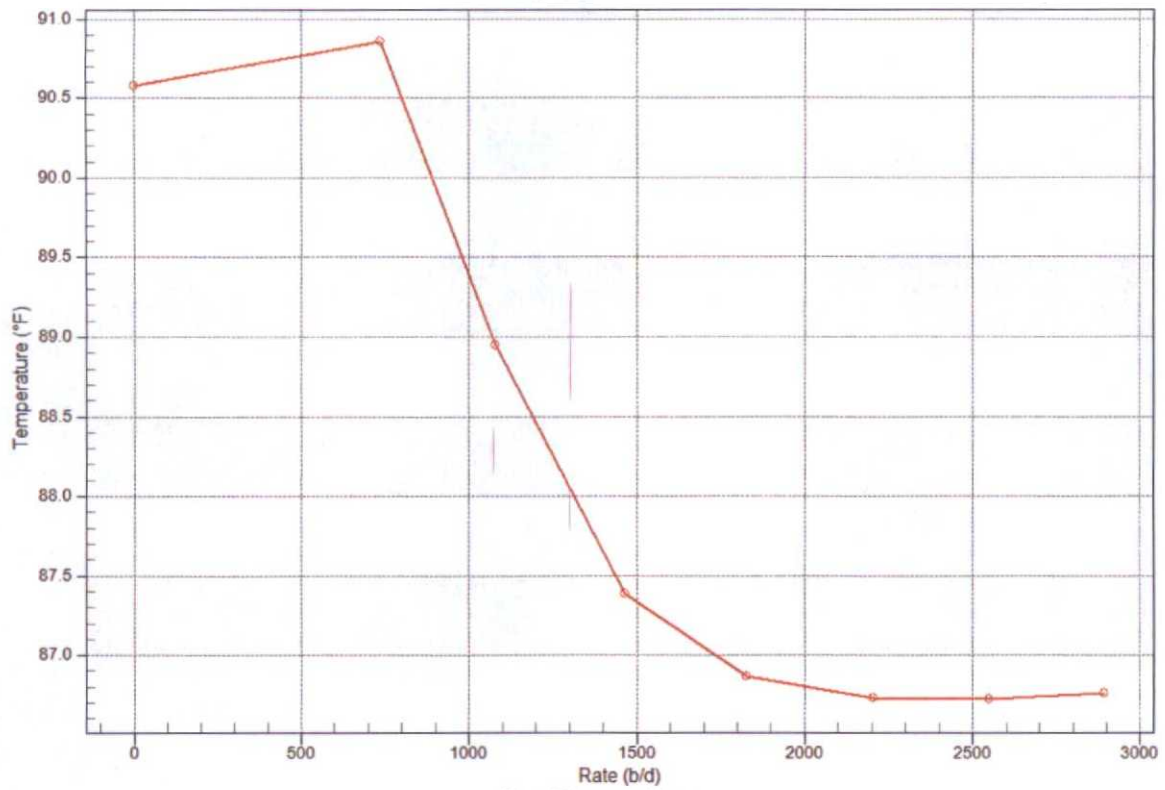
# CVU # 146



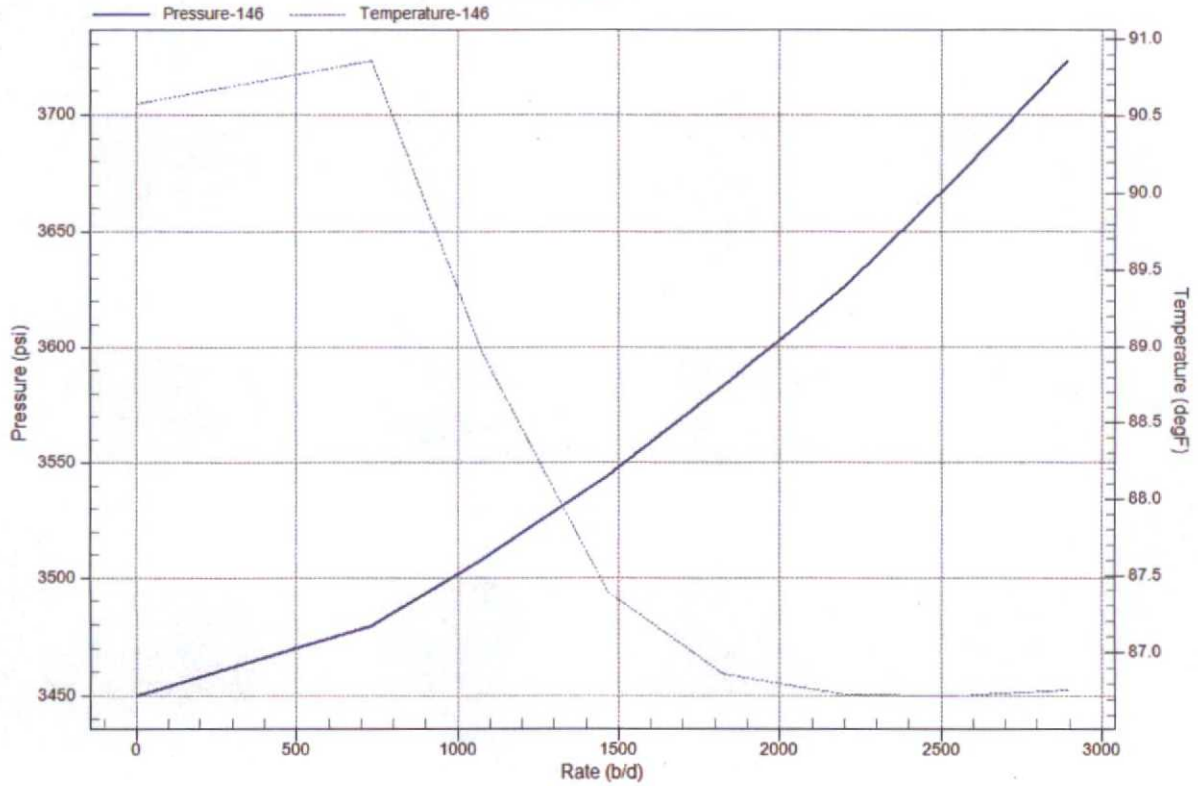
## Pressure vs. Rate



Temperature vs. Rate



Pres/Temp vs Rate



# Pressure Log

