

DATE: 3/2/17	SUSPENSE	ENGINEER: WJT	LOGGED IN	TYPE: IPI 511	APP. NO.: PWV 1710266895
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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]

[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 _____

2017 MAR -2 10 00 AM RECEIVED

[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.

CINDY HERRERA-MURILLO _____ *Cindy Herrera-Murillo* _____ PERMITTING SPECIALIST _____ 02/27/2017
 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. 30-025-24316
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 VACUUM GRAYBURG SAN ANDRES UNIT
8. Well Number 17
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 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 I : 1400 feet from the SOUTH line and 10 feet from the EAST line
 Section 02 Township 18S 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:		SUBSEQUENT REPORT OF:	
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 07/02/2016.
 EXPECTED RATE, BWPD : 2500
 EXPECTED PRESSURE, PSI: 2100

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 02/27/2017

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 2/3/17

Conditions of Approval (if any):
 (use 2500 per nearby well) (BAD TEST - NA) (4386-4740)

CHEVRON

VACUUM GRAYBURG SAN ANDRES UNIT # 17

July 12, 2016

JOB INFORMATION SHEET

Company Information	
Company Name:	CHEVRON
Address:	1500 LOUISIANA STREET HOUSTON, TX 77002
Well Information	
Well Name:	VACUUM GRAYBURG SAN ANDRES UNIT # 17
Field - Pool:	VACUUM
Status:	SHUT-IN
Test Information	
Type of Test:	STEP RATE
Gauge Depth:	4380'
Production Interval:	4386'-4740'
Production Through:	TUBING
Tubing Pressure:	2375 psi
Casing Pressure:	0 psi
Status:	SHUT-IN
Temperature @ Run Depth:	degF
Surface Temperature:	degF
Comments	
NO FRAC WAS ACHIEVED	

QES

CHEVRON
1500 LOUISIANA STREET
HOUSTON, TX 77002

WELL INFORMATION SHEET

Well:	VACUUM GRAYBURG SAN ANDRES UNIT # 17		
Well License:		Unique Well Identifier:	30-025-24316
Company:	CHEVRON		
Field:	VACUUM		

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

Total Depth:	4800'	ID Borehole:	N/A
Packer Depth:	4339'	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:	4339'	ID Drill Pipe:	N/A

QES

Gradient Data Report

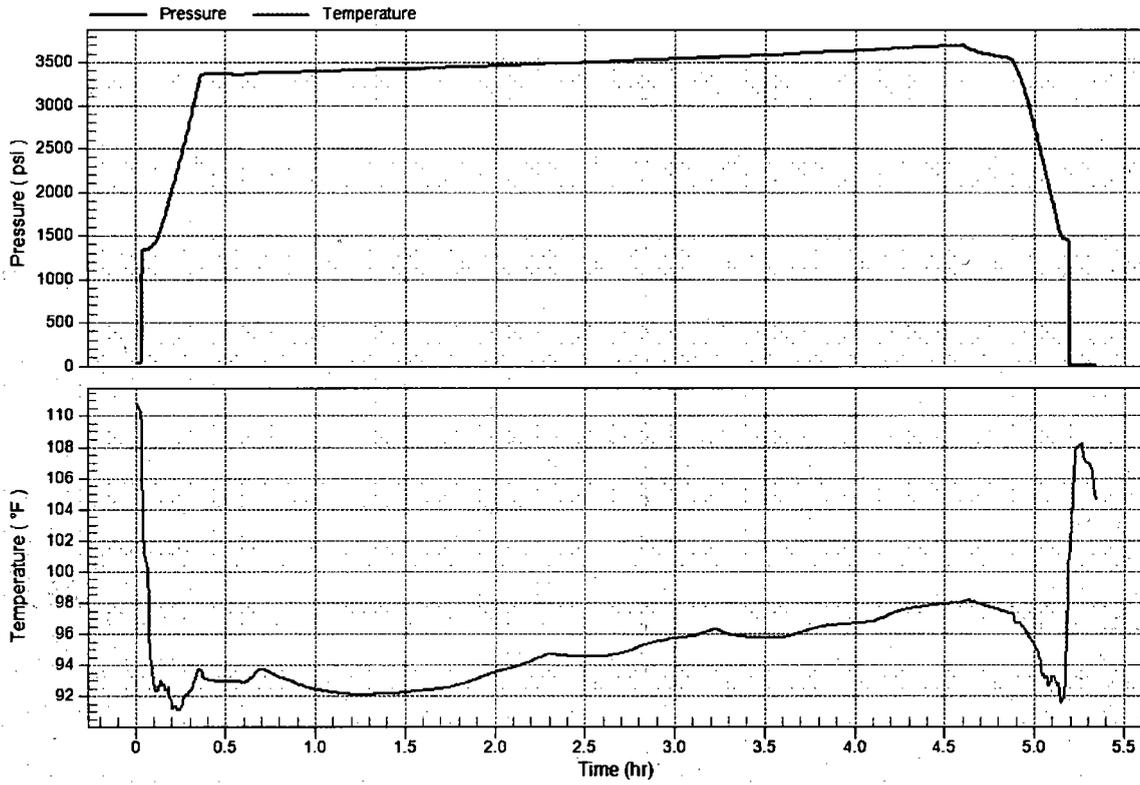
CHEVRON
VACUUM GRAYBURG SAN ANDRES UNIT # 17

Gradient Data Table

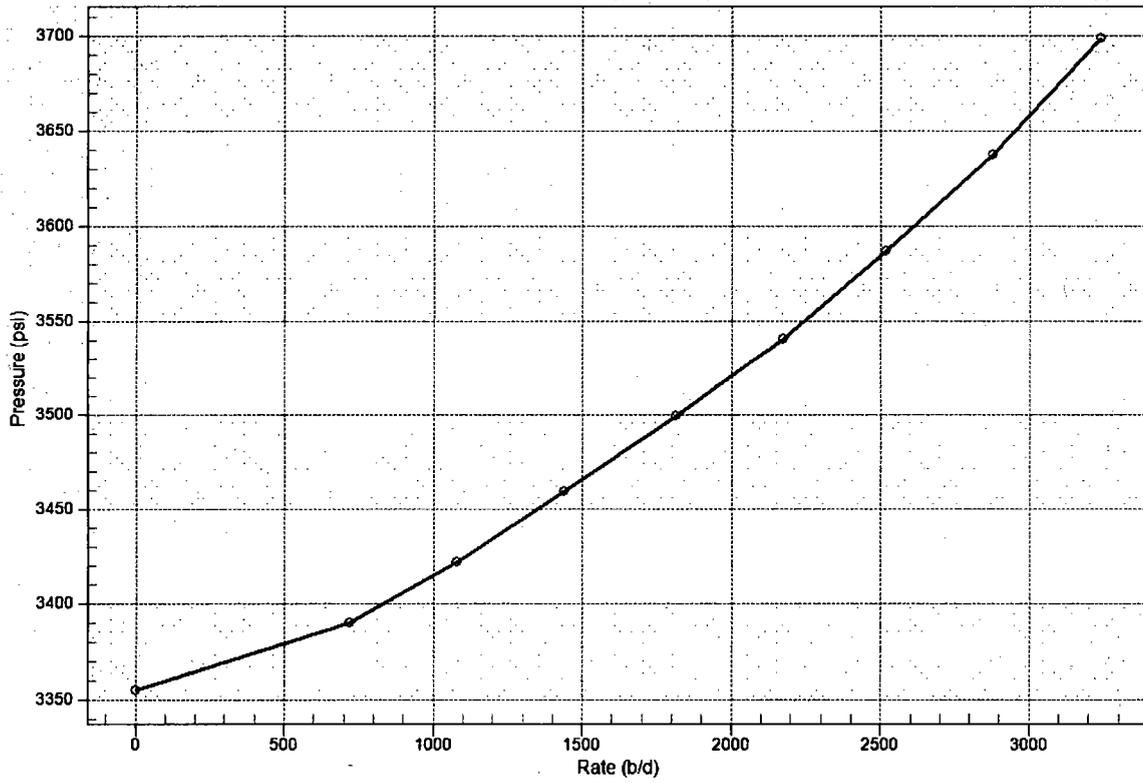
Rate b/d	Pressure psi	Temperature degF	Gradient psi/rate
0.00	3355.03	92.90	0.0000
720.00	3389.70	92.28	0.0482
1080.00	3421.82	92.35	0.0892
1440.00	3459.06	93.83	0.1035
1814.00	3499.39	94.56	0.1078
2174.00	3540.73	95.84	0.1148
2520.00	3586.97	95.77	0.1336
2880.00	3637.38	96.77	0.1400
3240.00	3698.51	98.03	0.1698

QES

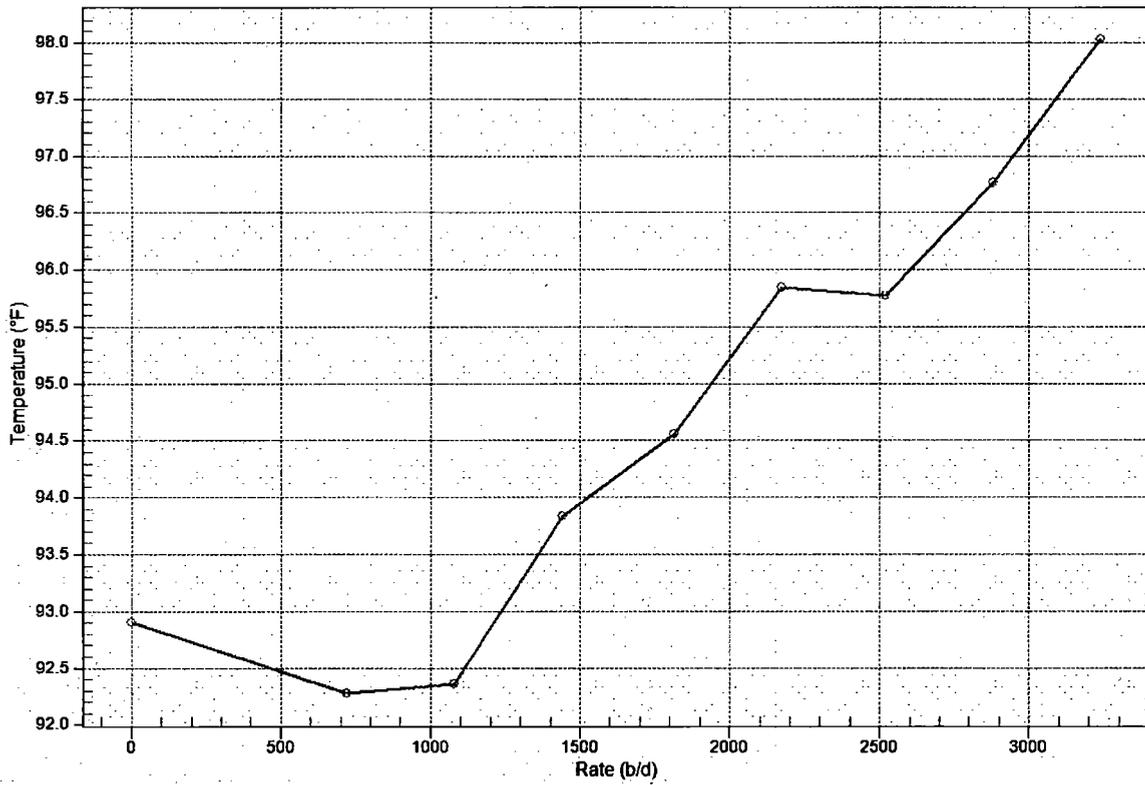
VGSAU # 17



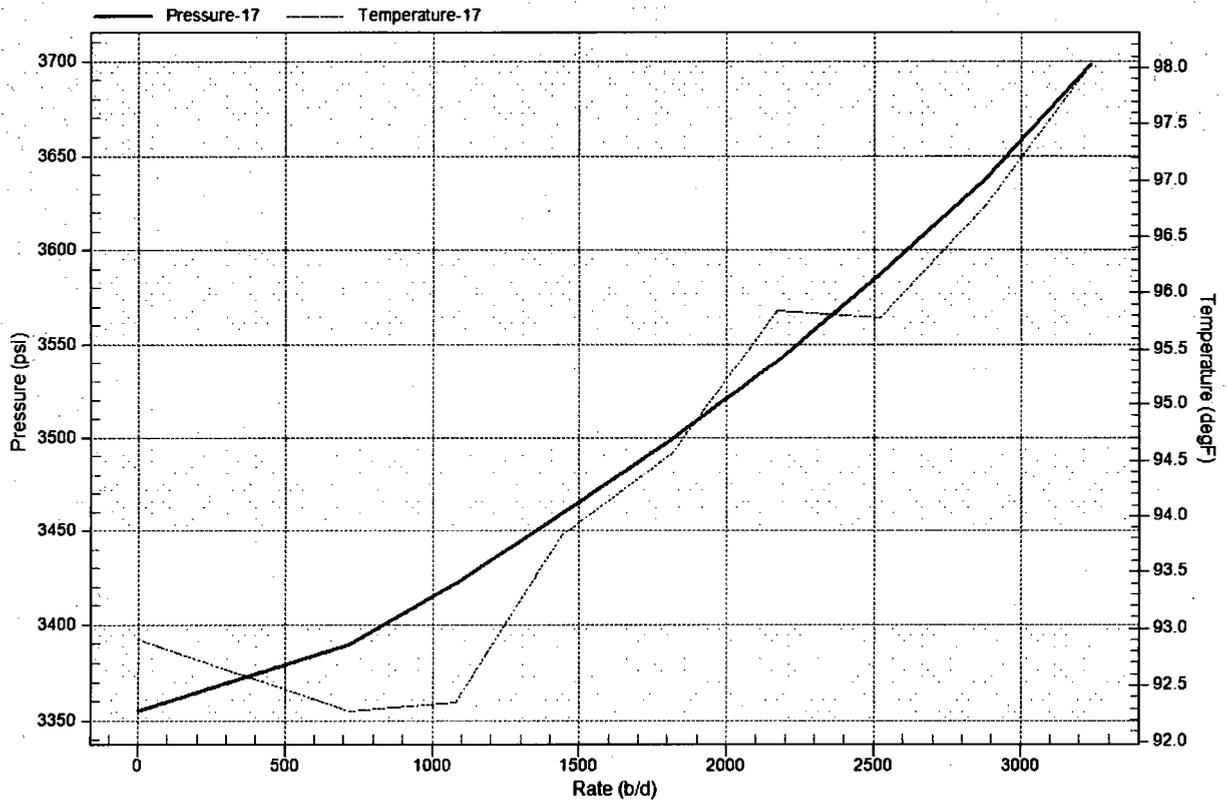
Pressure vs. Rate



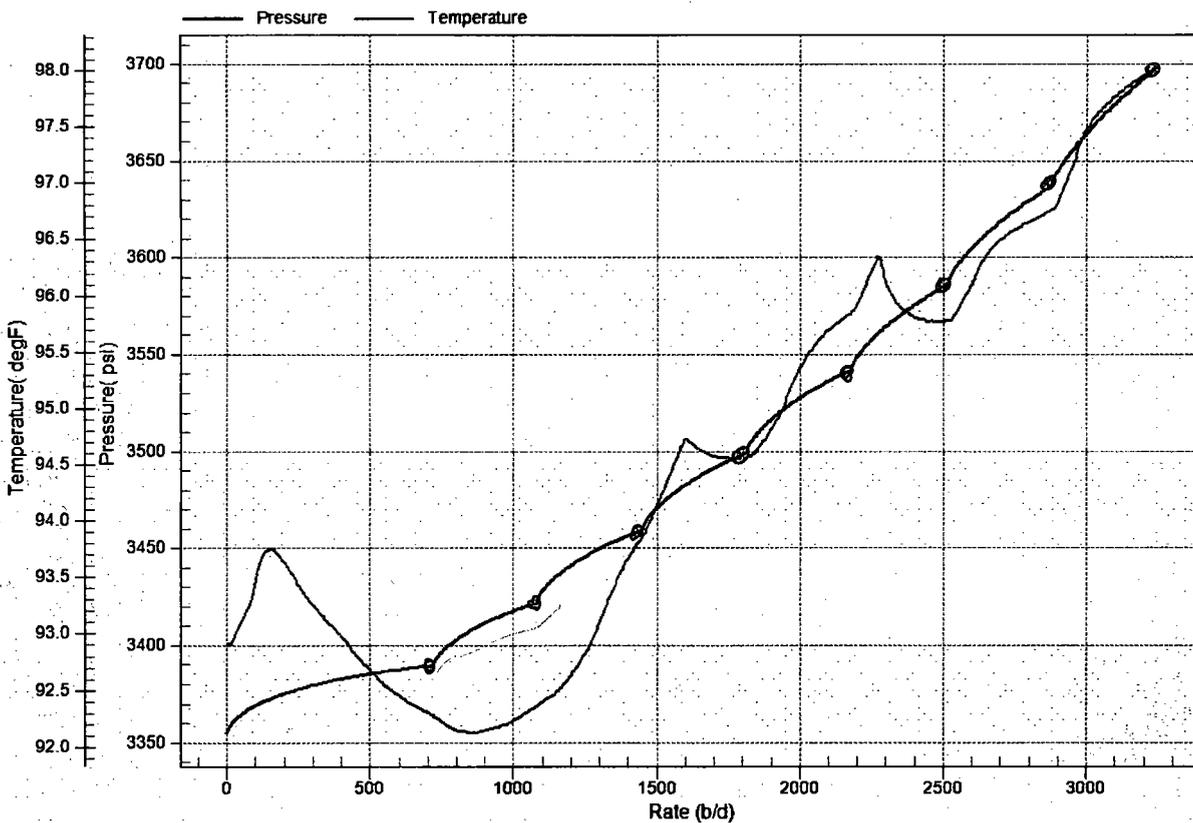
Temperature vs. Rate



Pres/Temp vs Rate



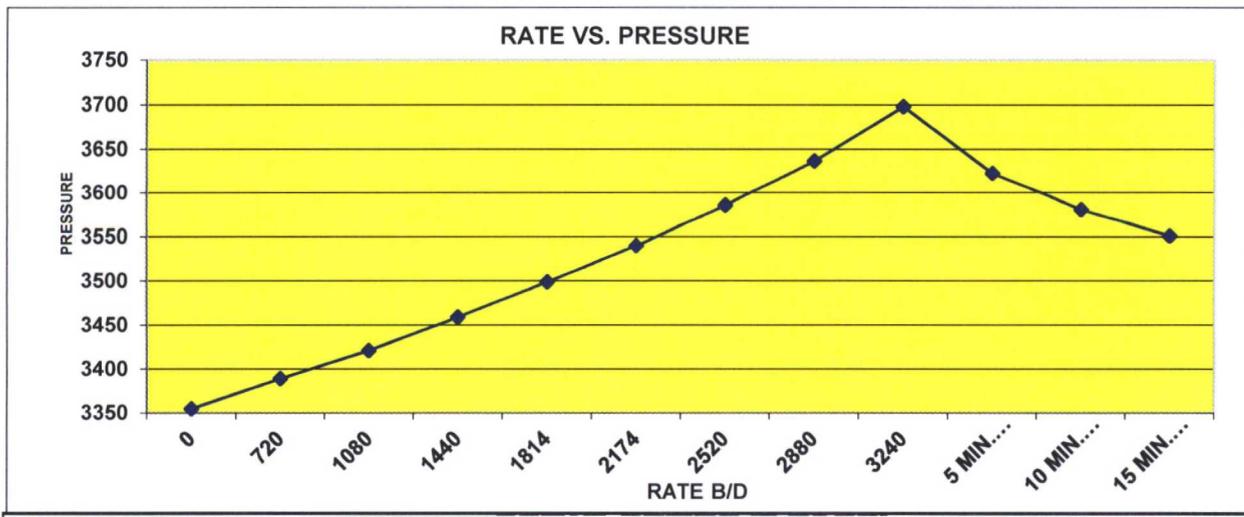
Pressure Log





STEP RATE TEST

RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
0	7/8/2016	2:30 PM	3355	1330	
720	7/8/2016	3:00 PM	3389	1410	
1080	7/8/2016	3:30 PM	3421	1520	
1440	7/8/2016	4:00 PM	3459	1615	
1814	7/8/2016	4:30 PM	3499	1725	
2174	7/8/2016	5:00 PM	3540	1875	
2520	7/8/2016	5:30 PM	3586	2010	
2880	7/8/2016	6:00 PM	3637	2180	
3240	7/8/2016	6:30 PM	3698	2375	
5 MIN. FALLOFF	7/8/2016	6:35 PM	3623	1625	
10 MIN. FALLOFF	7/8/2016	6:40 PM	3581	1575	
15 MIN. FALLOFF	7/8/2016	6:45 PM	3551	1540	
Company:	CHEVRON USA	Recorded By:	T. STANCZAK		
Well:	VGSAU # 17	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				
Perforations:	4386'-4740'				
Plug Back Depth:	N/A				



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. 30-025-36683
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 VACUUM GRAYBURG SAN ANDRES UNIT
8. Well Number 132
9. OGRID Number 4323
10. Pool name or Wildcat VACUUM; GRAYBURG SAN ANDRES
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4002' 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 I : 2630 feet from the SOUTH line and 660 feet from the EAST line
 Section 02 Township 18S Range 34E NMPM County LEA

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
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 02/07/2017.
 EXPECTED RATE, BWPD : 2000
 EXPECTED PRESSURE, PSI: 2040

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 02/27/2017

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 (2/8/17)

Conditions of Approval (if any):

2000 PSI TEST
 4370 → 4572 @ 2200

CHEVRON

VGSAU # 132

February 7, 2017

JOB INFORMATION SHEET

Company Information	
Company Name:	CHEVRON
Address:	1500 LOUISIANA STREET HOUSTON, TX 77002
Well Information	
Well Name:	VGSAU # 132
Field - Pool:	VACUUM
Status:	SHUT-IN
Test Information	
Type of Test:	STEP RATE TEST
Gauge Depth:	4365'
Production Interval:	4370'-4572'
Production Through:	TUBING
Tubing Pressure:	2180 psi
Casing Pressure:	0 psi
Status:	SHUT-IN
Temperature @ Run Depth	92.13 degF
Surface Temperature:	71.08 degF
Comments	
FRAC @ 2505 B/D 3991 BOTTOM HOLE PRESSURE 2080 SURFACE PRESSURE	

QES WIRELINE

CHEVRON

WELL INFORMATION SHEET

Well:	VGSAU # 132	Unique Well Identifier:	30-025-36683
Well License:			
Company:	CHEVRON		
Field:	VACUUM		

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

Permanent Datum:	Elevation:	0 ft
Vertical Zero Entity:	Distance above PD:	0 ft

Total Depth:	4599'	ID Borehole:	N/A
Packer Depth:	4322'	ID Production Casing:	5"
Depth of whipstock:	N/A	OD Production Tubing:	2.875"
Depth at which casing is landed:	4599'	ID Production Tubing:	2.3"
Depth at which tubing is landed:	4322'	ID Drill Pipe:	N/A

QES WIRELINE

Gradient Data Report

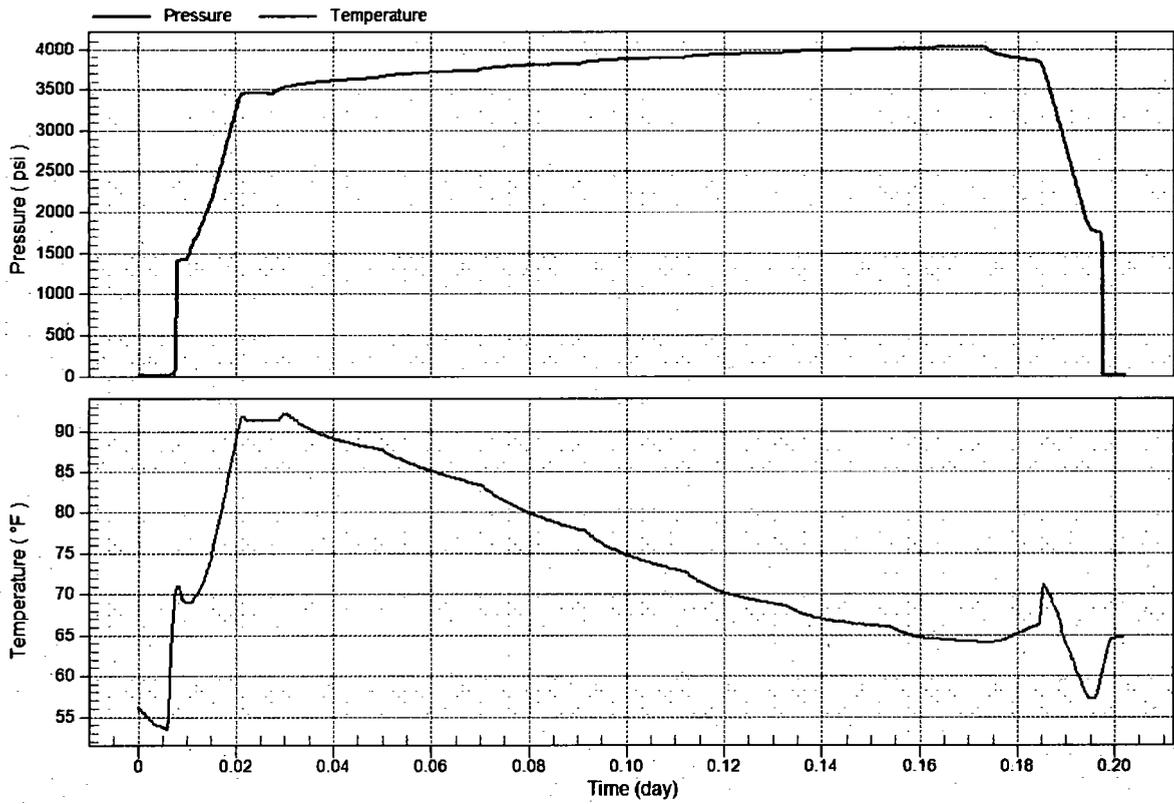
CHEVRON
VGSAU # 132

Gradient Data Table

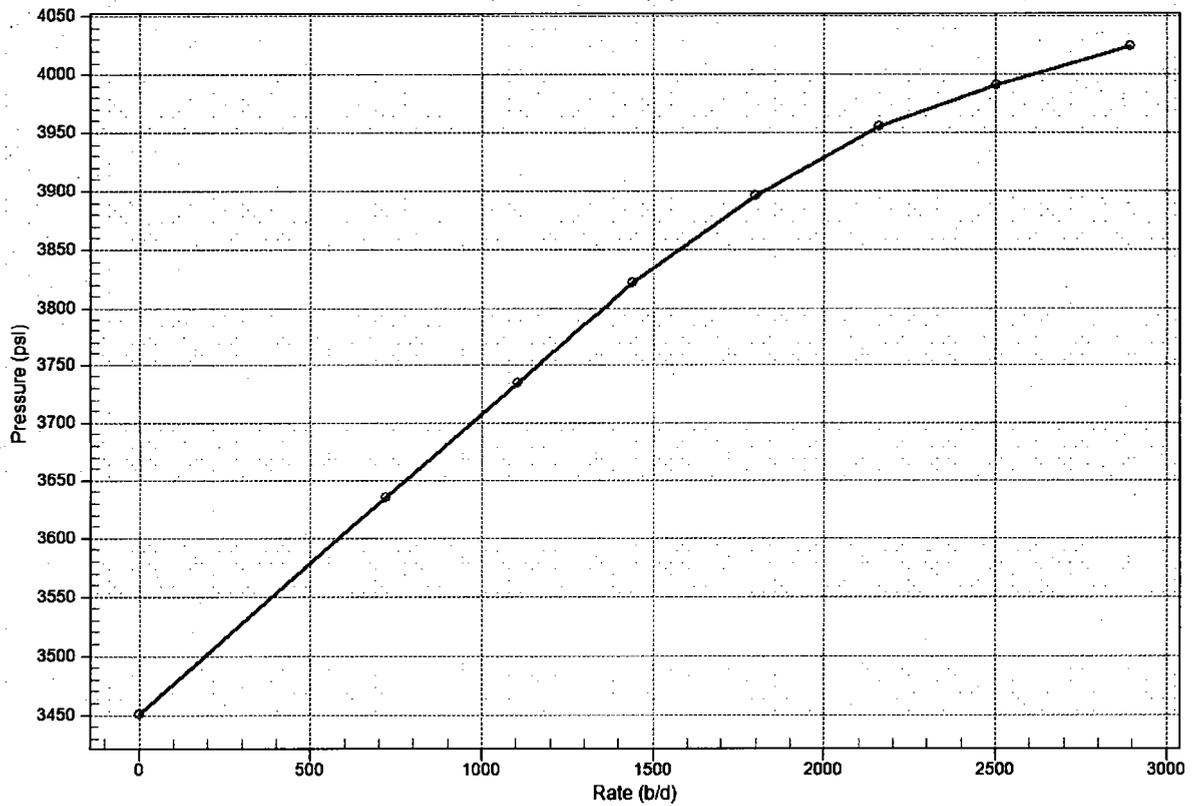
Rate b/d	Pressure psi	Temperature degF	Gradient psi/rate
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720.00	3635.35	87.84	0.2565
1108.00	3734.69	83.45	0.2560
1440.00	3822.16	77.91	0.2635
1800.00	3895.70	72.83	0.2043
2160.00	3955.23	68.65	0.1654
2505.00	3991.05	66.04	0.1038
2894.00	4024.11	64.07	0.0850

QES WIRELINE

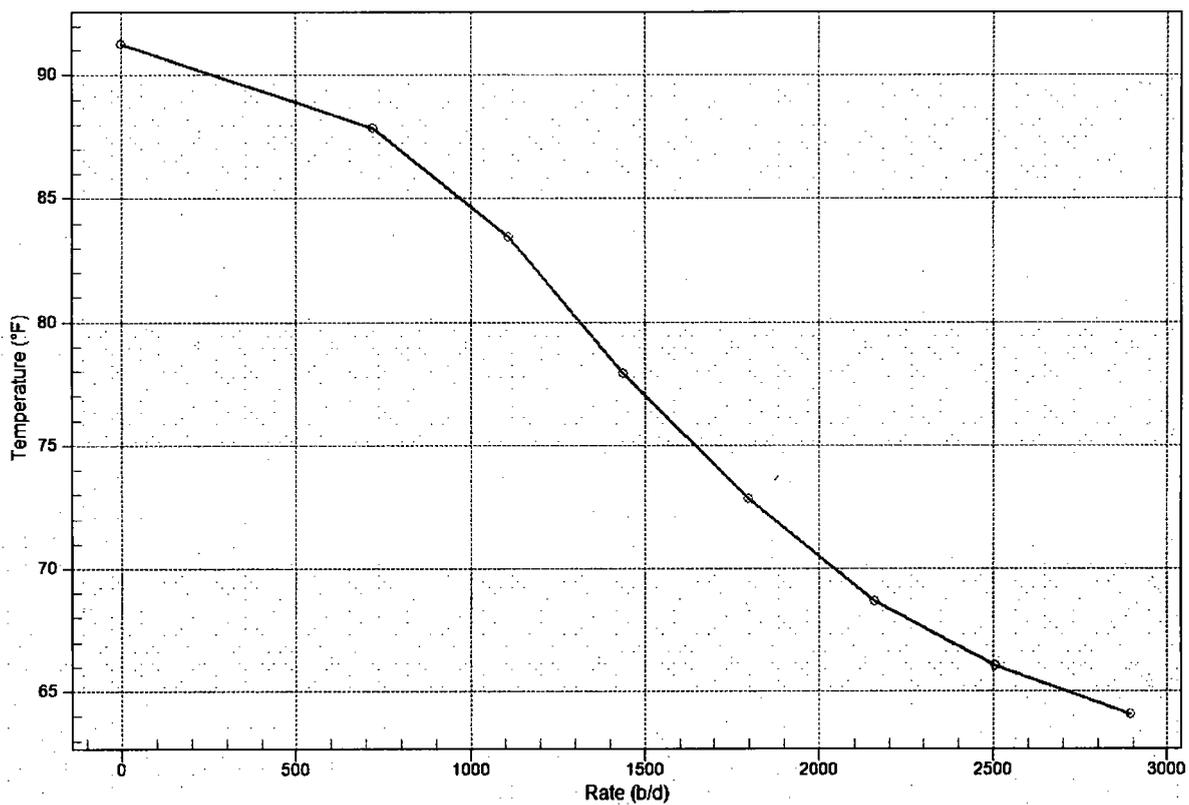
VGSAU # 132



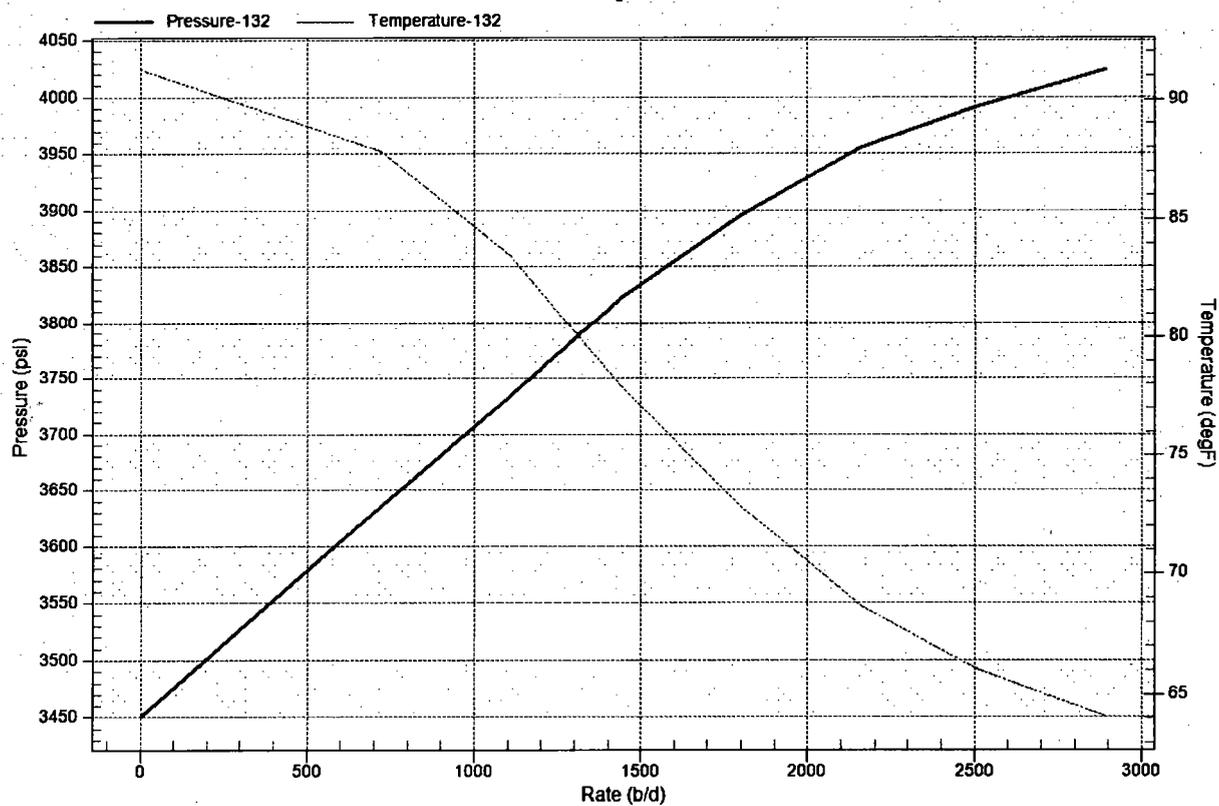
Pressure vs. Rate



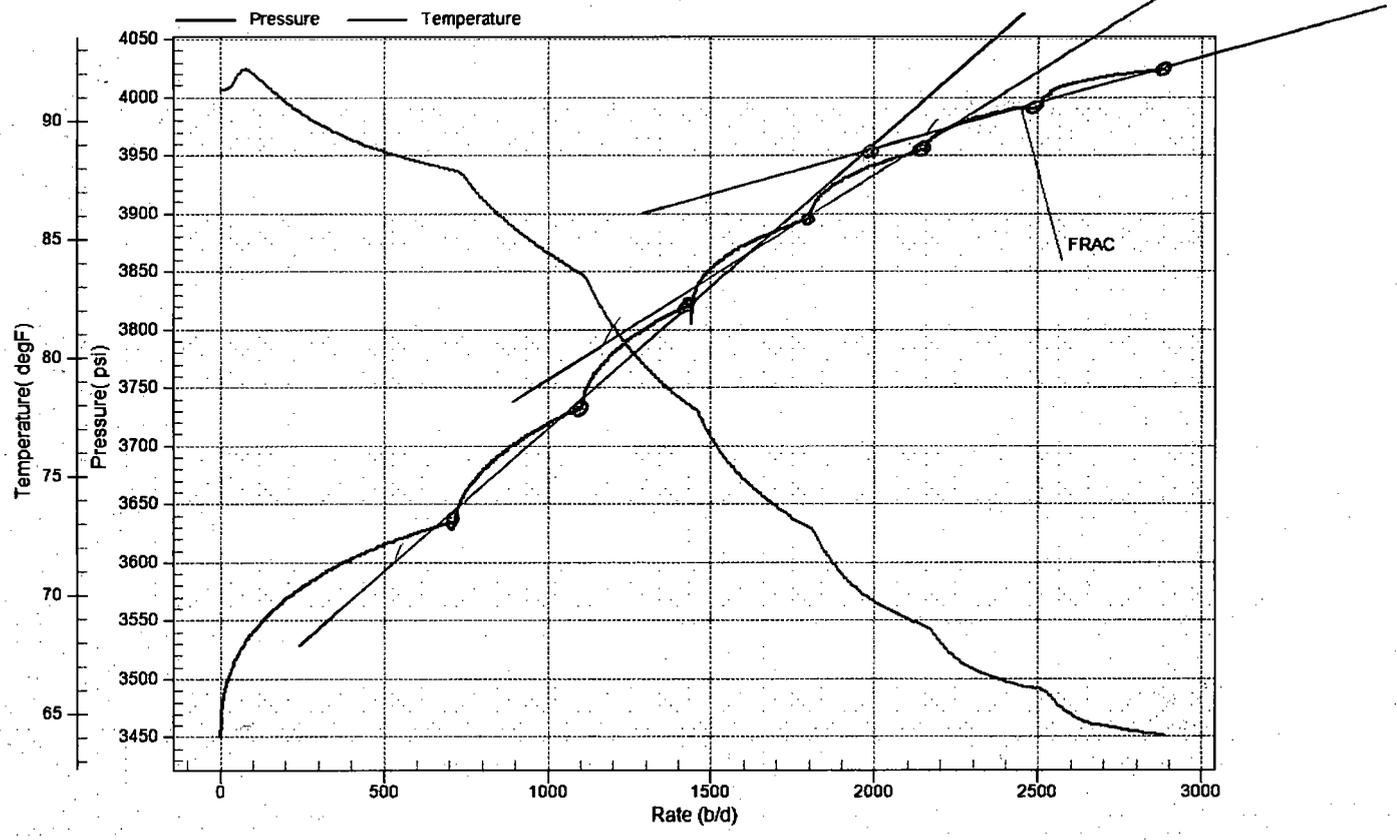
Temperature vs. Rate



Pres/Temp vs Rate



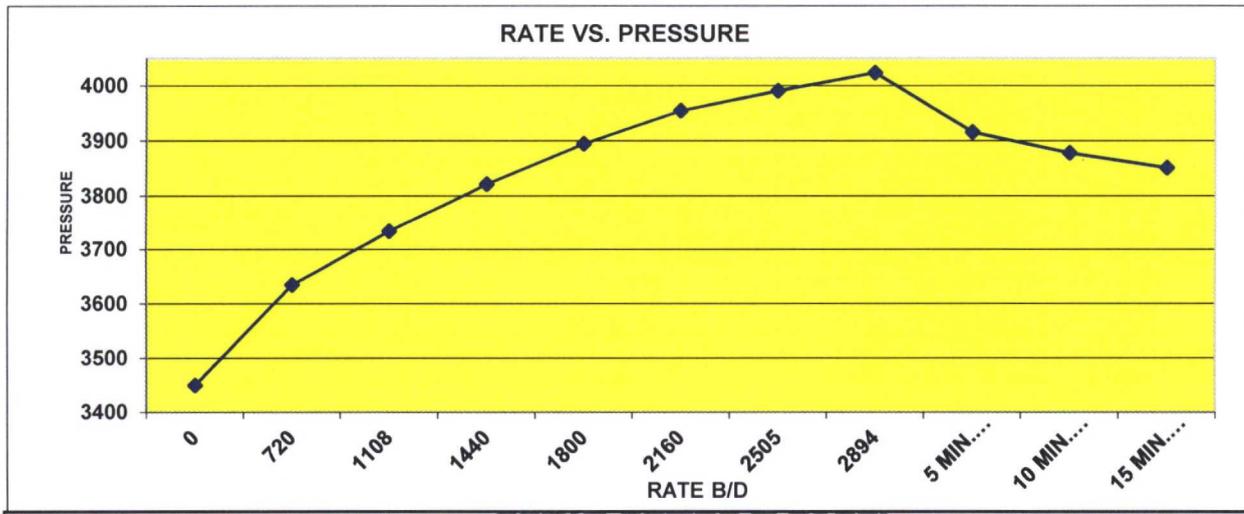
Pressure Log





STEP RATE TEST

RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
0	2/7/2017	8:50 AM	3450	1410	
720	2/7/2017	9:20 AM	3635	1620	
1108	2/7/2017	9:50 AM	3734	1740	
1440	2/7/2017	10:20 AM	3822	1845	
1800	2/7/2017	10:50 AM	3895	1950	
2160	2/7/2017	11:20 AM	3955	2040	
2505	2/7/2017	11:50 AM	3991	2090	FRAC
2894	2/7/2017	12:20 PM	4024	2180	
5 MIN. FALLOFF	2/7/2017	12:25 PM	3916	1895	
10 MIN. FALLOFF	2/7/2017	12:30 PM	3878	1860	
15 MIN. FALLOFF	2/7/2017	12:35 PM	3851	1830	
Company: CHEVRON USA			Recorded By: T. STANCZAK		
Well: VGSAU # 132			Witnessed By:		
Field: VACUUM			Truck Number: 104		
County: LEA			District: LEVELLAND		
State: NM			Tool Number:		
Injector: WATER			Test Type: STEP RATE TESTS		
Tubing Size: 2.875"			FRAC @		
Seat Nipple Depth: N/A			3991 BOTTOM HOLE PRESSURE		
Perforations: 4370'-4572'			2080 SURFACE PRESSURE		
Plug Back Depth: N/A			2505 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
 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. 30-025-36681
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 VACUUM GRAYBURG SAN ANDRES UNIT
8. Well Number 134
9. OGRID Number 4323
10. Pool name or Wildcat VACUUM; GRAYBURG SAN ANDRES
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3985' 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 K : 2630 feet from the SOUTH line and 1980 feet from the WEST line
 Section 01 Township 18S Range 34E NMPM County LEA

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
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 02/23/2017.

EXPECTED RATE, BWPD : 2100
 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 02/27/2017

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):

(23/8)
 - BAD TEST
 - STOP FLOW @ 2200psi!
 USE 2000

CHEVRON

VGSAU # 134

February 23, 2017

JOB INFORMATION SHEET

Company Information	
Company Name:	CHEVRON
Address:	1500 LOUISIANA STREET HOUSTON, TX 77002
Well Information	
Well Name:	VGSAU # 134
Field - Pool:	VACUUM
Status:	SHUT-IN
Test Information	
Type of Test:	STEP RATE TEST
Gauge Depth:	4240'
Production Interval:	4260'-4837'
Production Through:	TUBING
Tubing Pressure:	2230 psi
Casing Pressure:	0 psi
Status:	SHUT-IN
Temperature @ Run Depth	92.52 degF
Surface Temperature:	76.34 degF
Comments	
FRAC @ 2520 B/D 2100 SURFACE PRESSURE 3640 BOTTOM HOLE PRESSURE	

QES WIRELINE

CHEVRON

WELL INFORMATION SHEET

Well:	VGSAU # 134	Unique Well Identifier:	30-025-36681
Well License:			
Company:	CHEVRON		
Field:	VACUUM		

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

Total Depth:	5000'	ID Borehole:	N/A
Packer Depth:	4184'	ID Production Casing:	3.5"
Depth of whipstock:	N/A	OD Production Tubing:	2.375"
Depth at which casing is landed:	5000'	ID Production Tubing:	1.95"
Depth at which tubing is landed:	4184'	ID Drill Pipe:	N/A

QES WIRELINE

Gradient Data Report

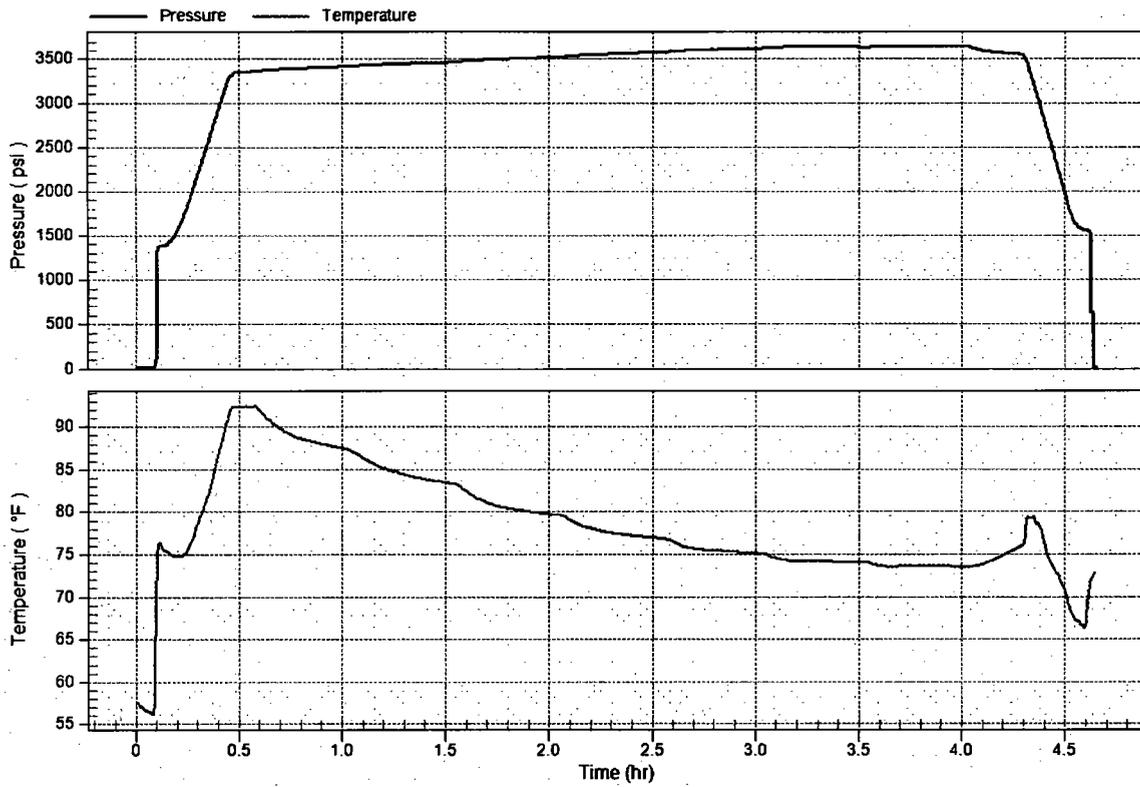
CHEVRON
VGSAU # 134

Gradient Data Table

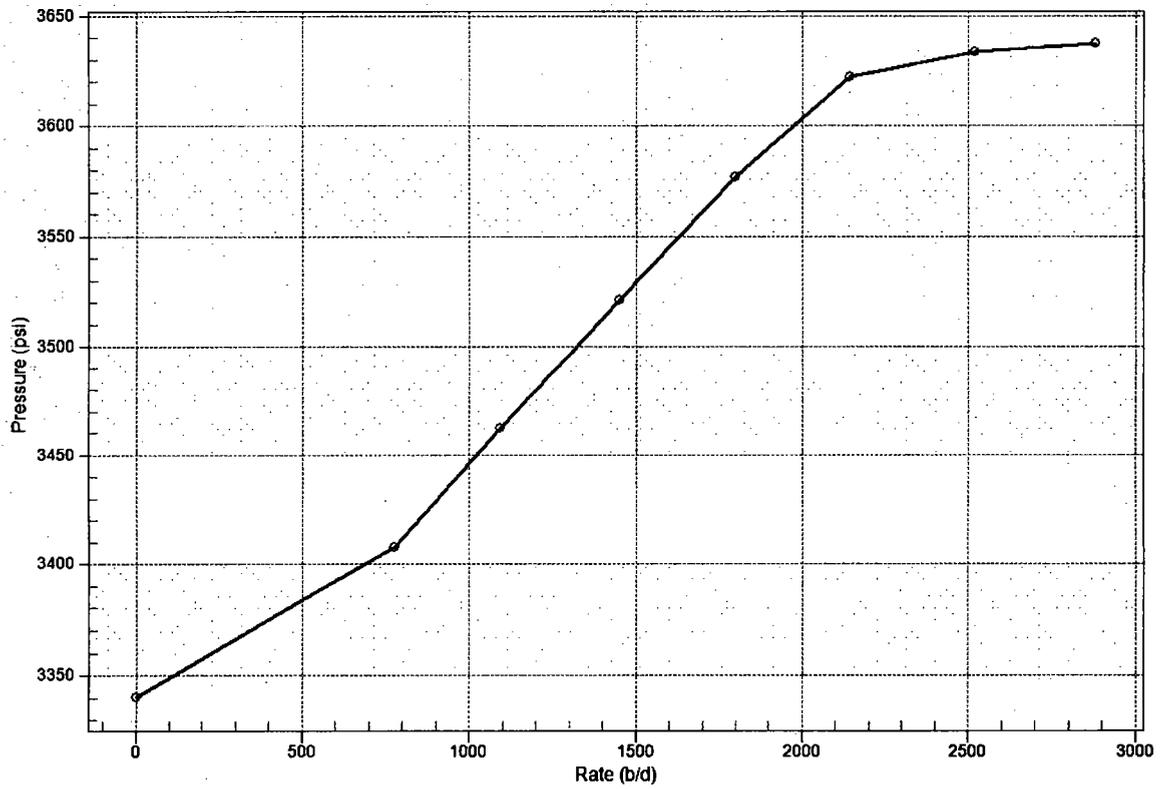
Rate b/d	Pressure psi	Temperature degF	Gradient psi/rate
0.00	3340.30	92.41	0.0000
777.00	3407.96	87.36	0.0871
1094.00	3462.17	83.31	0.1710
1454.00	3521.27	79.64	0.1641
1800.00	3576.86	76.87	0.1607
2145.00	3622.10	75.06	0.1311
2520.00	3633.31	73.97	0.0299
2880.00	3637.36	73.52	0.0112

QES WIRELINE

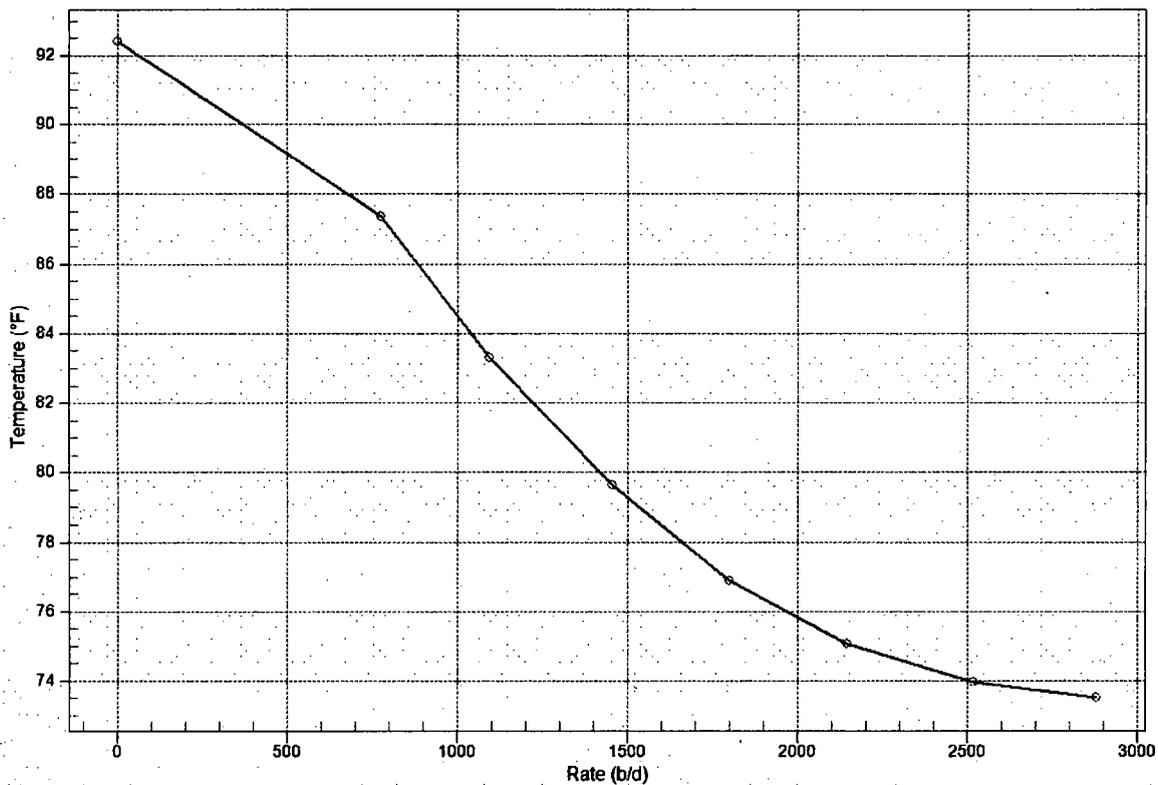
VGSAU # 134



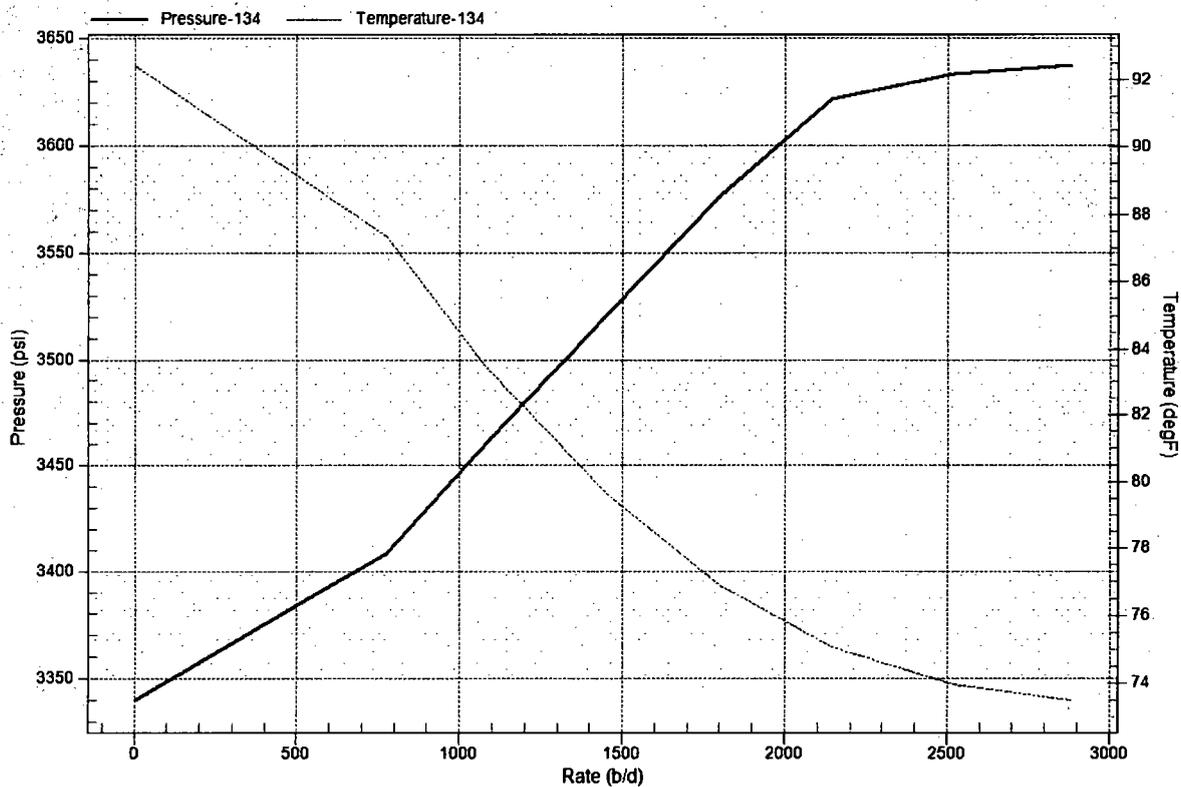
Pressure vs. Rate



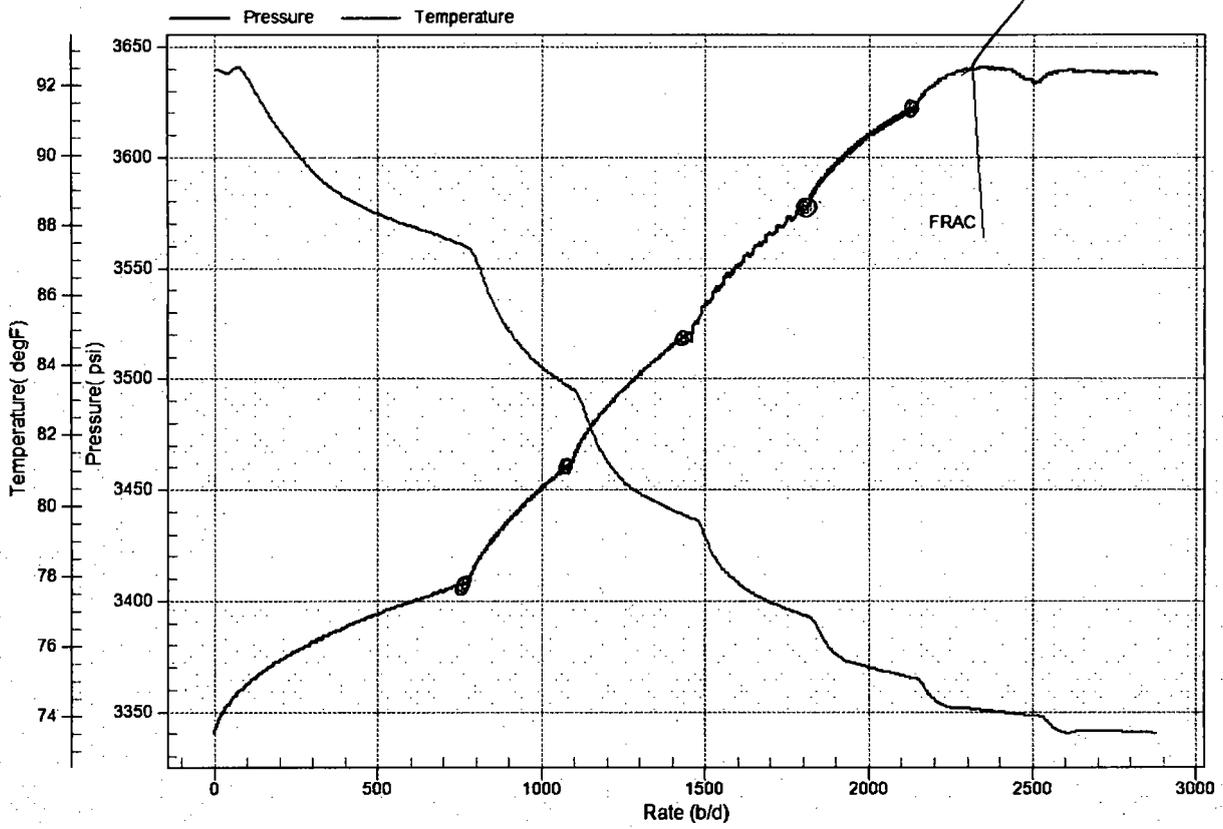
Temperature vs. Rate



Pres/Temp vs Rate



Pressure Log





STEP RATE TEST

RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
0	2/23/2017	8:15 AM	3340	1360	
777	2/23/2017	8:45 AM	3407	1500	
1094	2/23/2017	9:15 AM	3462	1590	
1454	2/23/2017	9:45 AM	3521	1705	
1800	2/23/2017	10:15 AM	3576	1840	
2145	2/23/2017	10:45 AM	3622	1970	
2520	2/23/2017	11:15 AM	3633	2100	FRAC
2880	2/23/2017	11:45 AM	3637	2230	
5 MIN. FALLOFF	2/23/2017	11:50 AM	3588	1630	
10 MIN. FALLOFF	2/23/2017	11:55 AM	3567	1605	
15 MIN. FALLOFF	2/23/2017	12:00 PM	3552	1590	
Company:	CHEVRON USA			Recorded By:	T. STANCZAK
Well:	VGSAU # 134			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 @ 2520 B/D	
Seat Nipple Depth:	N/A			2100 SURFACE PRESSURE	
Perforations:	4260'-4837'			3640 BOTTOM HOLE PRESSURE	
Plug Back Depth:	N/A				

