

5/17/2016 DATE IN	SUSPENSE	WUS5 ENGINEER	5/06/2016 LOGGED IN	TYPE IPI 505	PPMAM161276 D 386 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

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

- IPI
- Chevron USA, Inc
4323

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 _____

RECEIVED
MAY 17 2016
P 2:22

- [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

W-211
- UGSA #439
30-025-38786
- UGBA #440
30-025-38787
POD
- UGCA #
GRAYB #
62180

- [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

05/03/2016

Print or Type Name

Signature

Title

Date

leaked@chevron.com

c-mail Address

VBSA #439

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

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.)		WELL API NO 30-025-38786
1. Type of Well: Oil Well <input checked="" 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 VACUUM GRAYBURG S/A UNIT
4. Well Location Unit Letter: B 634 feet from NORTH line and 1632 feet from the EAST line Section 1 Township 18S Range 34E NMPM County LEA		8. Well Number 439
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 - 3000
EXPECTED PRESSURE, PSI - 2300

Spud Date:

Rig Release Date:

2200 = CO₂
PER R-4442-G
1500 = water
R-4442-C
5/30/08

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE _____ TITLE REGULATORY SPECIALIST

DATE 05/03/2016

Type or print name DENISE PINKERTON
For State Use Only

E-mail address: leakejd@chevron.com

PHONE: 432-687-7375

APPROVED BY: _____ TITLE _____

DATE _____

Conditions of Approval (if any):

2030 = 0.47

30-025 - 38786
B-1 18534 E
634N 1632 E

Pressure Survey Report

CHEVRON

VGSAU # 439

April 26, 2016

JOB INFORMATION SHEET

Company Information	
Company Name:	CHEVRON
Address:	1500 LOUISIANA STREET HOUSTON, TX 77002
Well Information	
Well Name:	VGSAU # 439
Field – Pool:	VACUUM
Status:	SHUT-IN
Test Information	
Type of Test:	STEP RATE TEST
Gauge Depth:	4370'
Production Interval:	4390'-5002'
Production Through:	TUBING
Tubing Pressure:	2400 psi
Casing Pressure:	0 psi
Status:	SHUT-IN
Temperature @ Run Depth	88.64 degF
Surface Temperature:	83.82 degF
Comments	
SOFT FRAC @ 3600 B/D 3515 BOTTOM HOLE PRESSURE 2400 SURFACE PRESSURE	

QES WIRELINE

CHEVRON

WELL INFORMATION SHEET

Well:	VGSAU # 439	Unique Well Identifier:	30-025-38786
Well License:			
Company:	CHEVRON		
Field	VACUUM		

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

Total Depth:	4370'	ID Borehole:	N/A
Packer Depth:	4326'	ID Production Casing:	4.9"
Depth of whipstock:	N/A	OD Production Tubing:	2.375"
Depth at which casing is landed:	5156'	ID Production Tubing:	1.9"
Depth at which tubing is landed:	4326'	ID Drill Pipe:	N/A

QES WIRELINE

Gradient Data Report

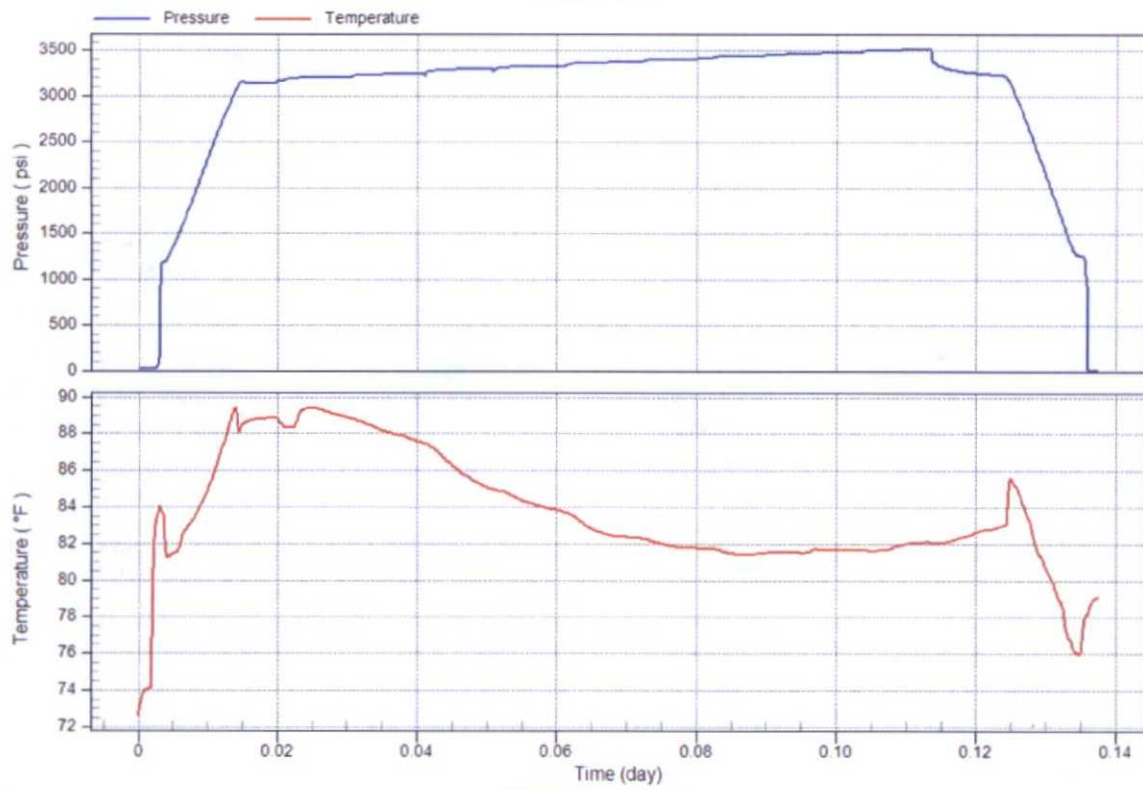
CHEVRON
VGSAU # 439

Gradient Data Table

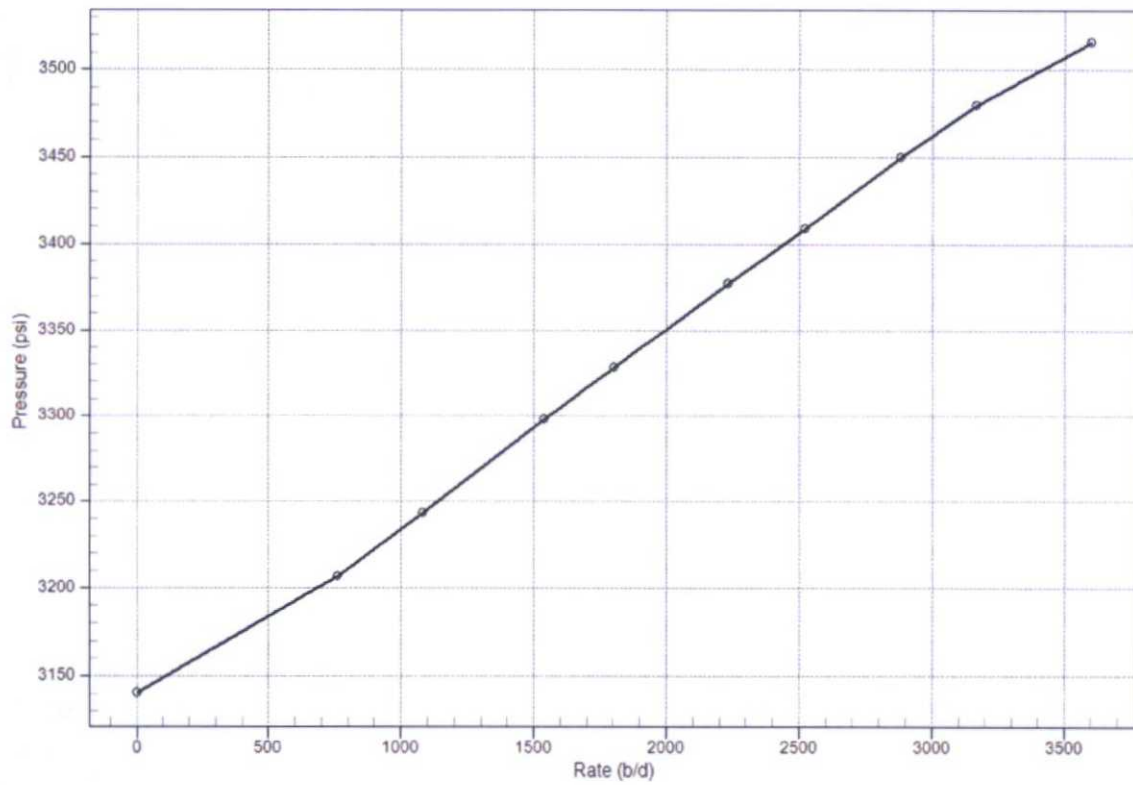
Rate b/d	Pressure psi	Temperature degF	Gradient psi/rate
0.00	3140.41	88.88	0.0000
763.00	3206.64	88.92	0.0868
1080.00	3243.43	87.55	0.1160
1540.00	3298.38	84.97	0.1195
1800.00	3328.22	83.70	0.1147
2232.00	3377.12	82.29	0.1132
2520.00	3408.73	81.75	0.1097
2880.00	3449.41	81.53	0.1130
3168.00	3480.07	81.66	0.1064
3600.00	3515.91	82.11	0.0830

QES WIRELINE

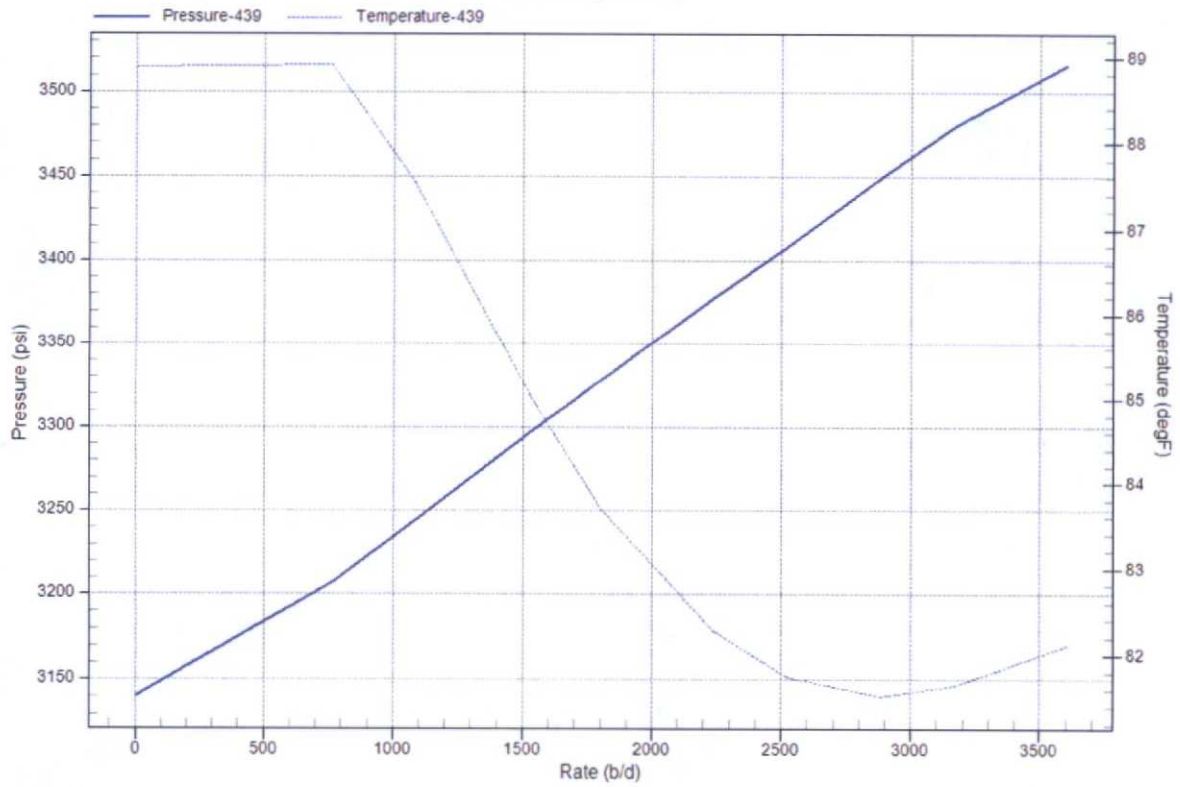
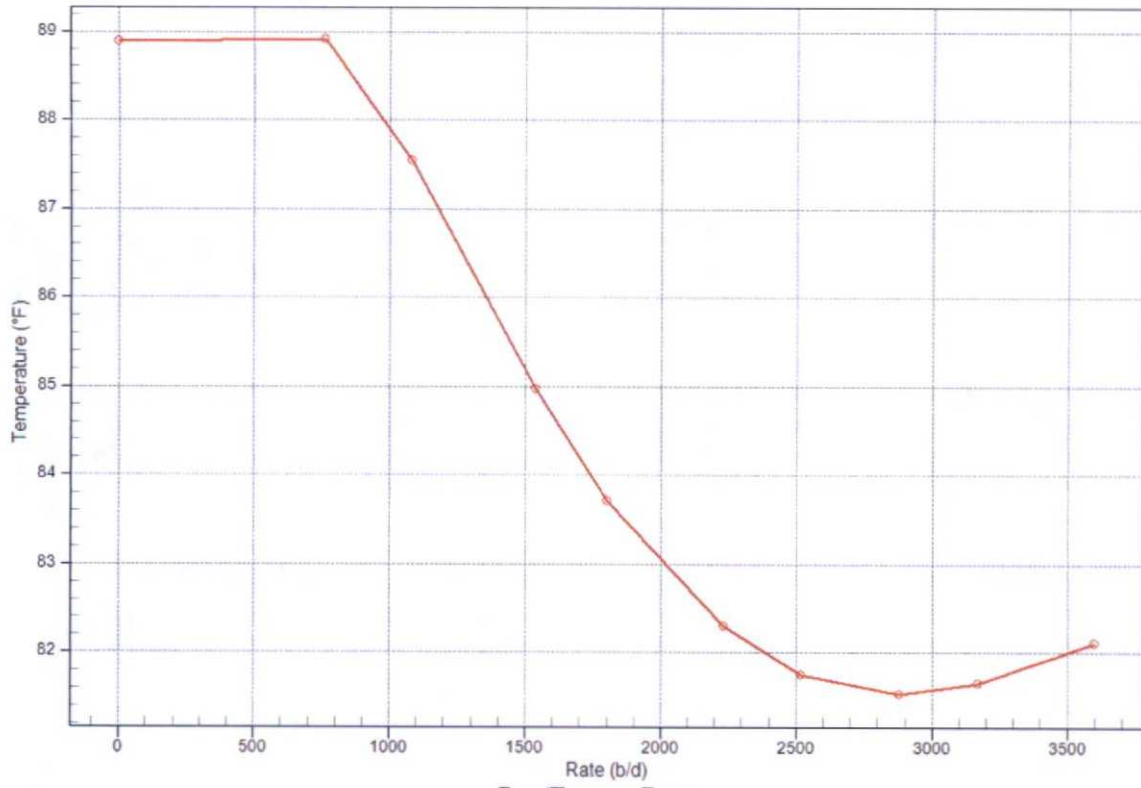
VGSAU # 439



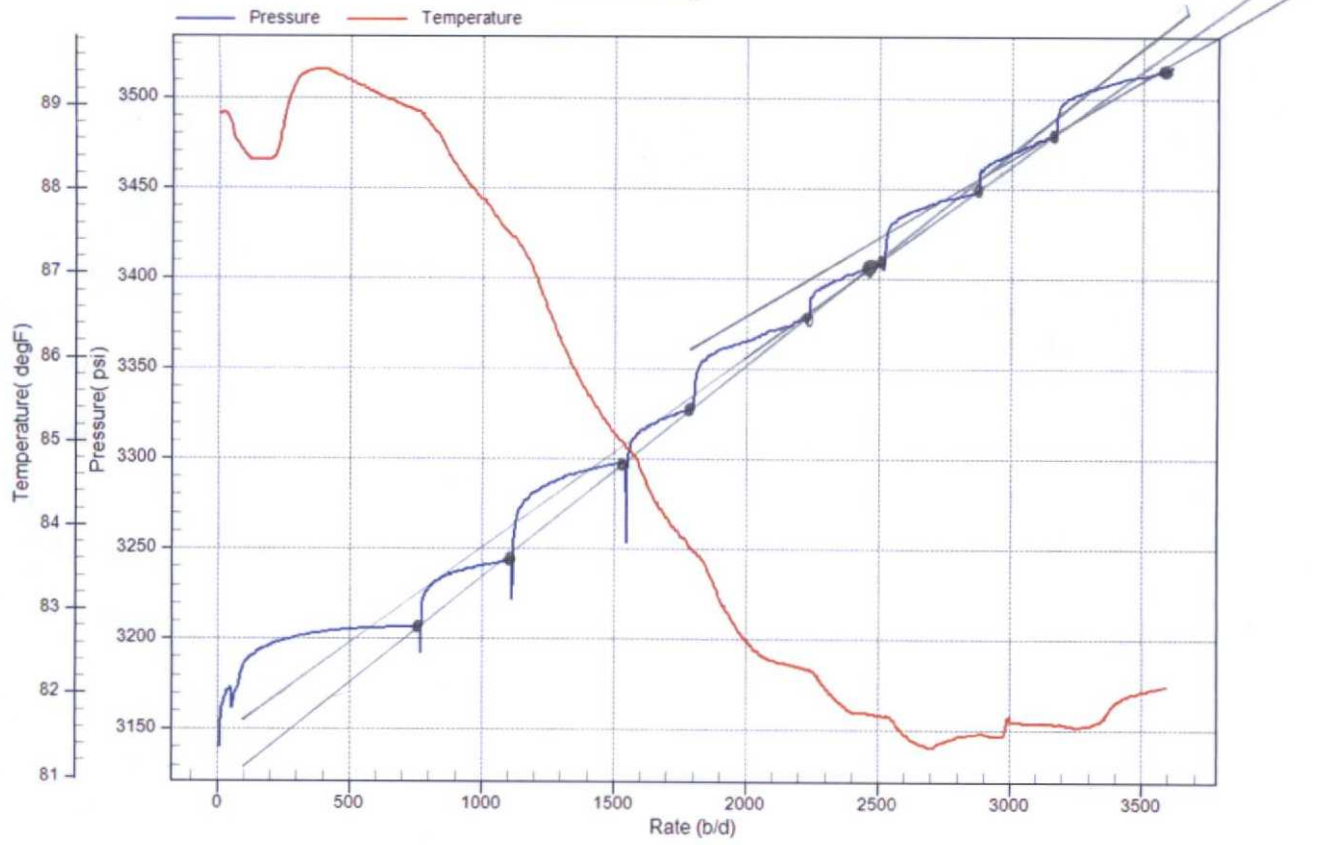
Pressure vs. Rate



Temperature vs. Rate



Pressure Log

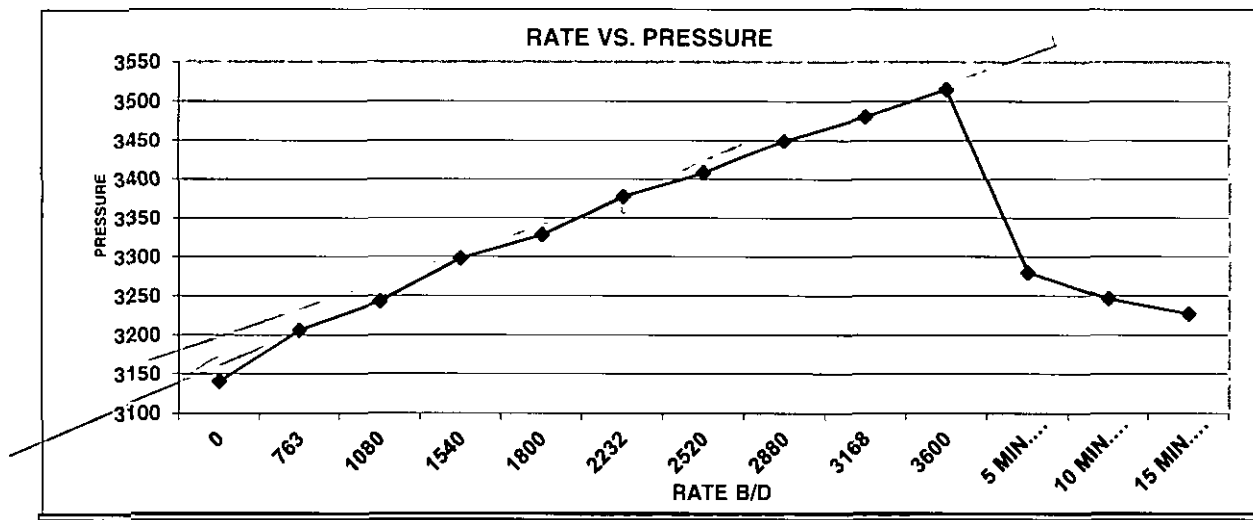




QES WIRELINE LLC

STEP RATE TEST

RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
0	4/26/2016	10:40 AM	15 3140	1150	
317 763	4/26/2016	10:55 AM	15 3206	1275	
460 1080	4/26/2016	11:10 AM	15 3243	1375	
260 1540	4/26/2016	11:25 AM	15 3298	1500	
432 1800	4/26/2016	11:40 AM	15 3328	1600	
288 2232	4/26/2016	11:55 AM	15 3377	1760	
360 2520	4/26/2016	12:10 PM	15 3408	1875	
288 2880	4/26/2016	12:25 PM	15 3449	2050	
432 3168	4/26/2016	12:40 PM	15 3480	2200	
3600	4/26/2016	12:55 PM	3515	2400	SOFT FRAC
5 MIN. FALLOFF	4/26/2016	1:00 PM	3280	1350	
10 MIN. FALLOFF	4/26/2016	1:05 PM	3246	1310	
15 MIN. FALLOFF	4/26/2016	1:10 PM	3227	1290	
Company: CHEVRON USA				Recorded By:	T. STANCZAK
Well: VGSAU # 439				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"				SOFT FRAC @	
Seat Nipple Depth: N/A				3515 BOTTOM HOLE PRESSURE	
Perforations: 4390'-5002'				2400 SURFACE PRESSURE	
Plug Back Depth N/A				3600 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

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.)		WELL API NO 30-025-38787
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 VACUUM GRAYBURG S/A UNIT
4. Well Location Unit Letter: C 100 feet from NORTH line and 1980 feet from the WEST line Section 1 Township 18S Range 34E NMPM County LEA		8. Well Number 440
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 - 2700
EXPECTED PRESSURE, PSI - 2050

Spud Date:

Rig Release Date:

1500 = water
R = 4442-C
5/20/08

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE _____ TITLE REGULATORY SPECIALIST DATE 05/03/2016
Type or print name DENISE PINKERTON E-mail address: leakejd@chevron.com PHONE: 432-687-7375
For State Use Only

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

2000 = 0.47

30-025-38787
C-1 185 348
100N 1980 W

Pressure Survey Report

CHEVRON

VGSAU # 440

April 28, 2016

CHEVRON

WELL INFORMATION SHEET

Well:	VGSAU # 440	Unique Well Identifier:	30-025-38787
Well License:			
Company:	CHEVRON		
Field:	VACUUM		

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

Total Depth:	4270'	ID Borehole:	N/A
Packer Depth:	4213'	ID Production Casing:	4.9"
Depth of whipstock:	N/A	OD Production Tubing:	2.375"
Depth at which casing is landed:	5018'	ID Production Tubing:	1.9"
Depth at which tubing is landed:	4213'	ID Drill Pipe:	N/A

QES WIRELINE

Gradient Data Report

CHEVRON
VGSAU # 440

Gradient Data Table

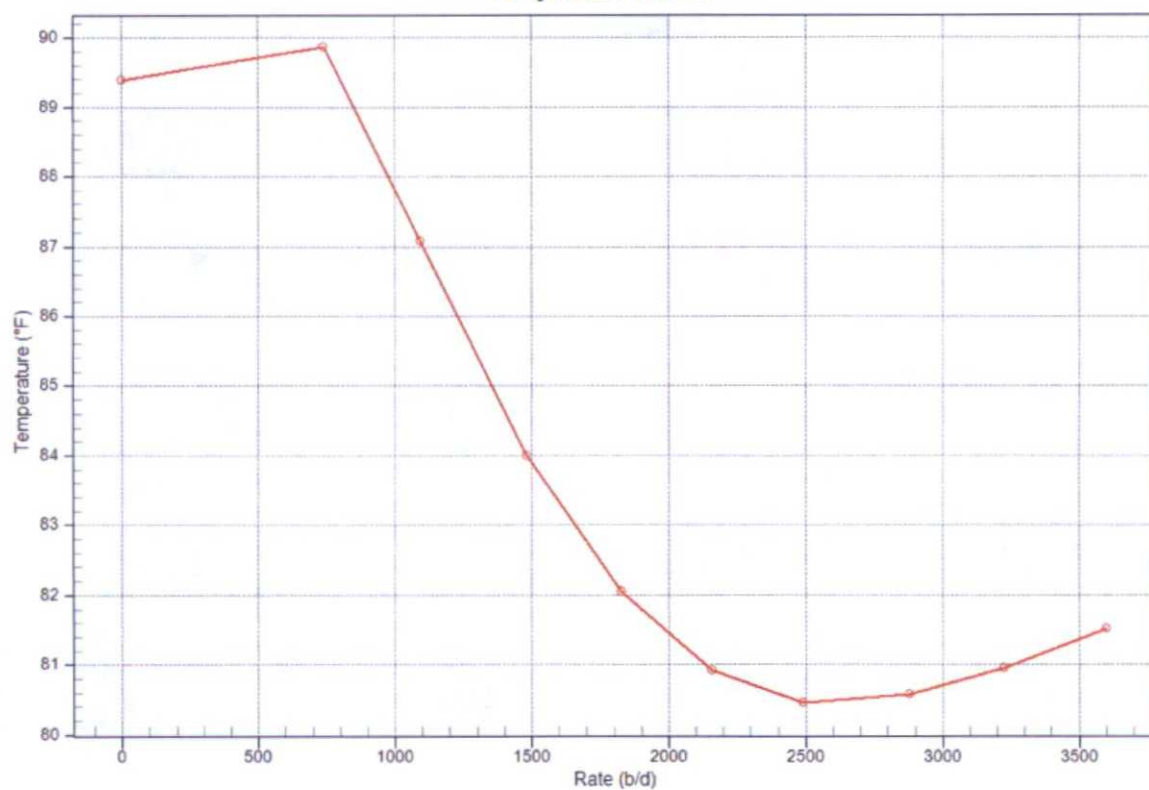
Rate b/d	Pressure psi	Temperature degF	Gradient psi/rate
0.00	3123.13	89.38	0.0000
740.00	3212.97	89.87	0.1214
1094.00	3271.44	87.08	0.1652
1483.00	3326.68	83.99	0.1420
1828.00	3375.76	82.06	0.1423
2160.00	3422.80	80.91	0.1417
2491.00	3469.58	80.46	0.1413
2880.00	3513.36	80.57	0.1126
3225.00	3554.45	80.95	0.1191
3600.00	3593.36	81.51	0.1037

JOB INFORMATION SHEET

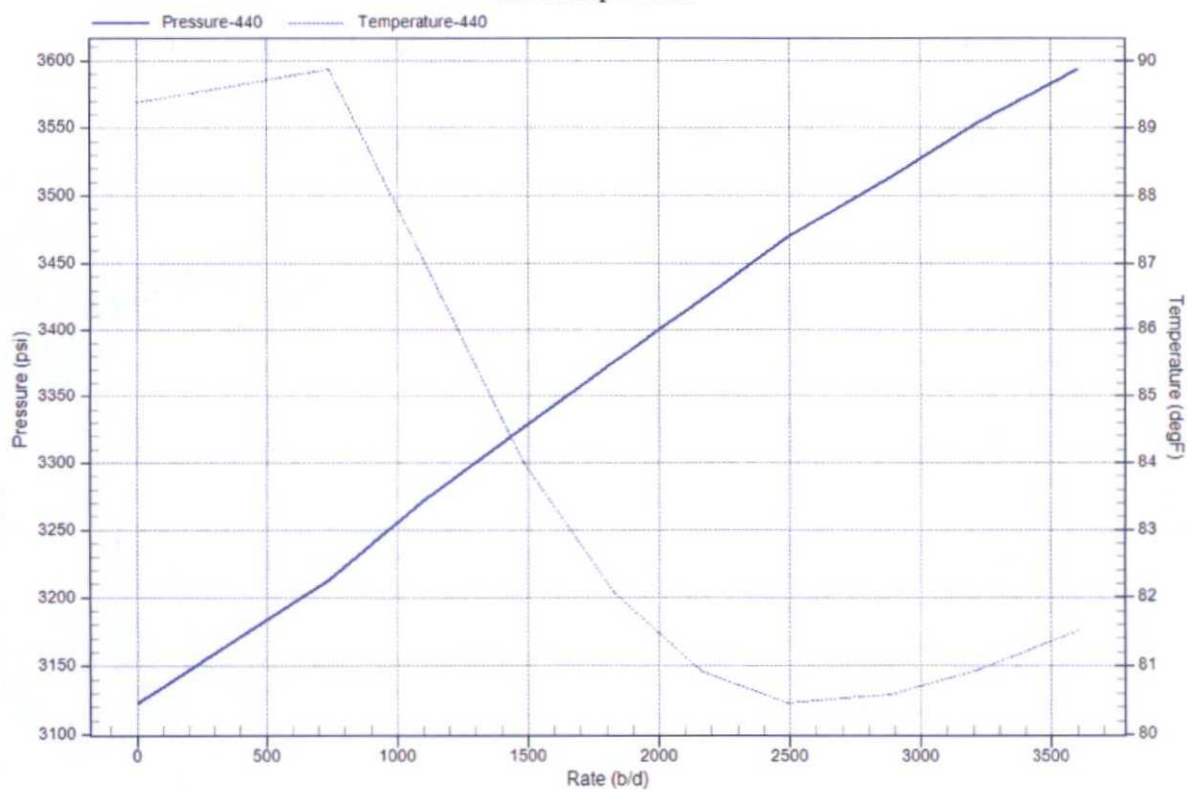
Company Information	
Company Name:	CHEVRON
Address:	1500 LOUISIANA STREET HOUSTON, TX 77002
Well Information	
Well Name:	VGSAU # 440
Field – Pool:	VACUUM
Status:	SHUT-IN
Test Information	
Type of Test:	STEP RATE TEST
Gauge Depth:	4270'
Production Interval:	4294'-4860
Production Through:	TUBING
Tubing Pressure:	2430 psi
Casing Pressure:	0 psi
Status:	SHUT-IN
Temperature @ Run Depth	91.29 degF
Surface Temperature:	78.45 degF
Comments	
SOFT FRAC @ 2090 SURFACE PRESSURE 3513 BOTTOM HOLE PRESSURE 2880 B/D	

QES WIRELINE

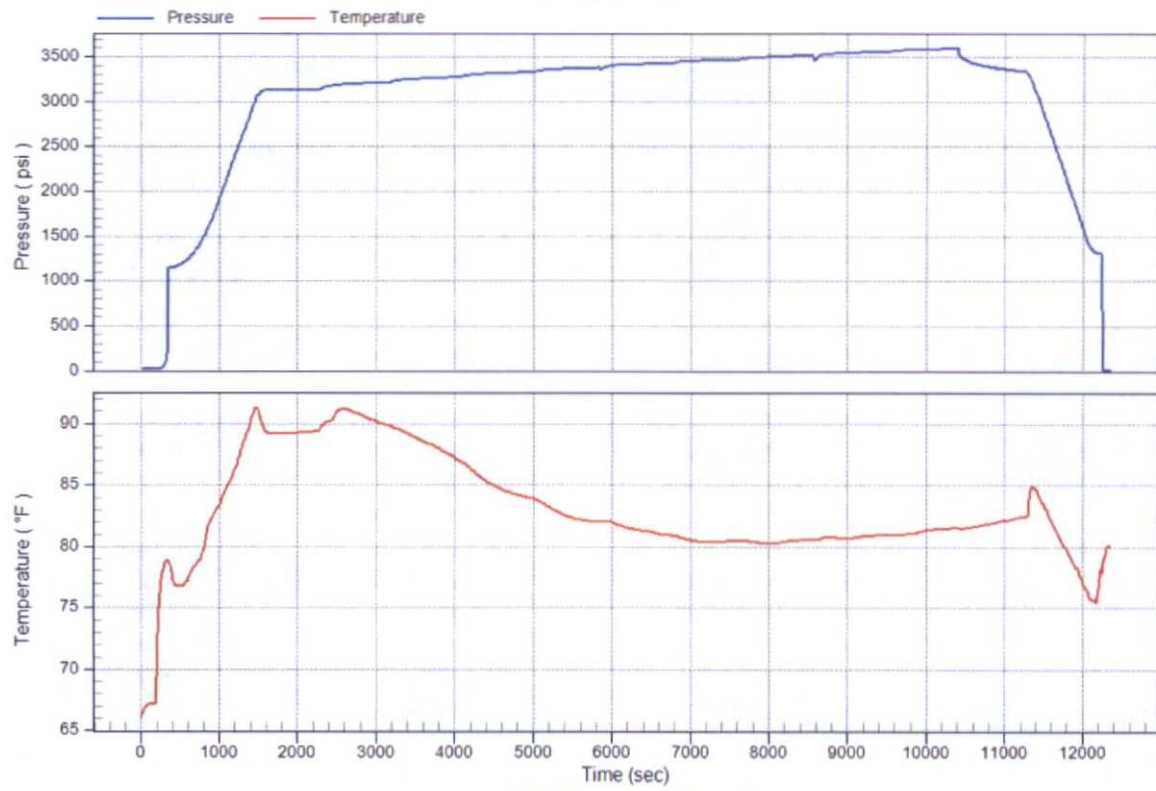
Temperature vs. Rate



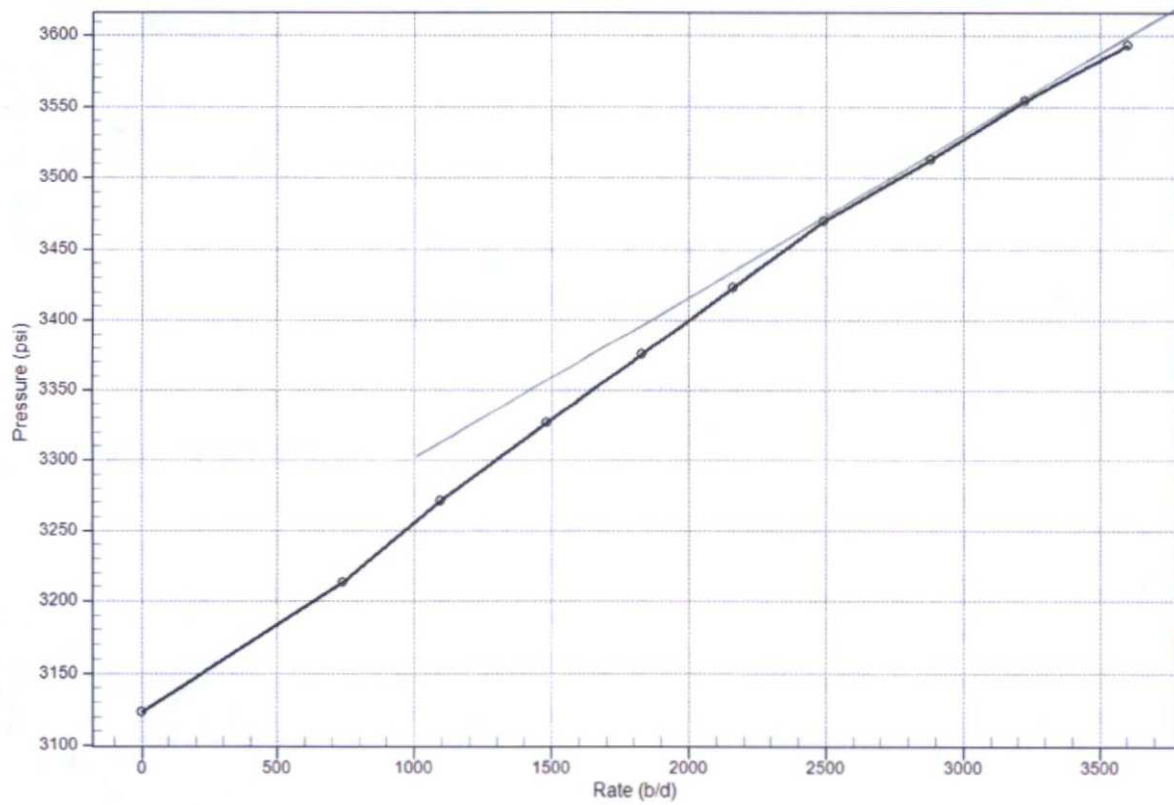
Pres/Temp vs Rate



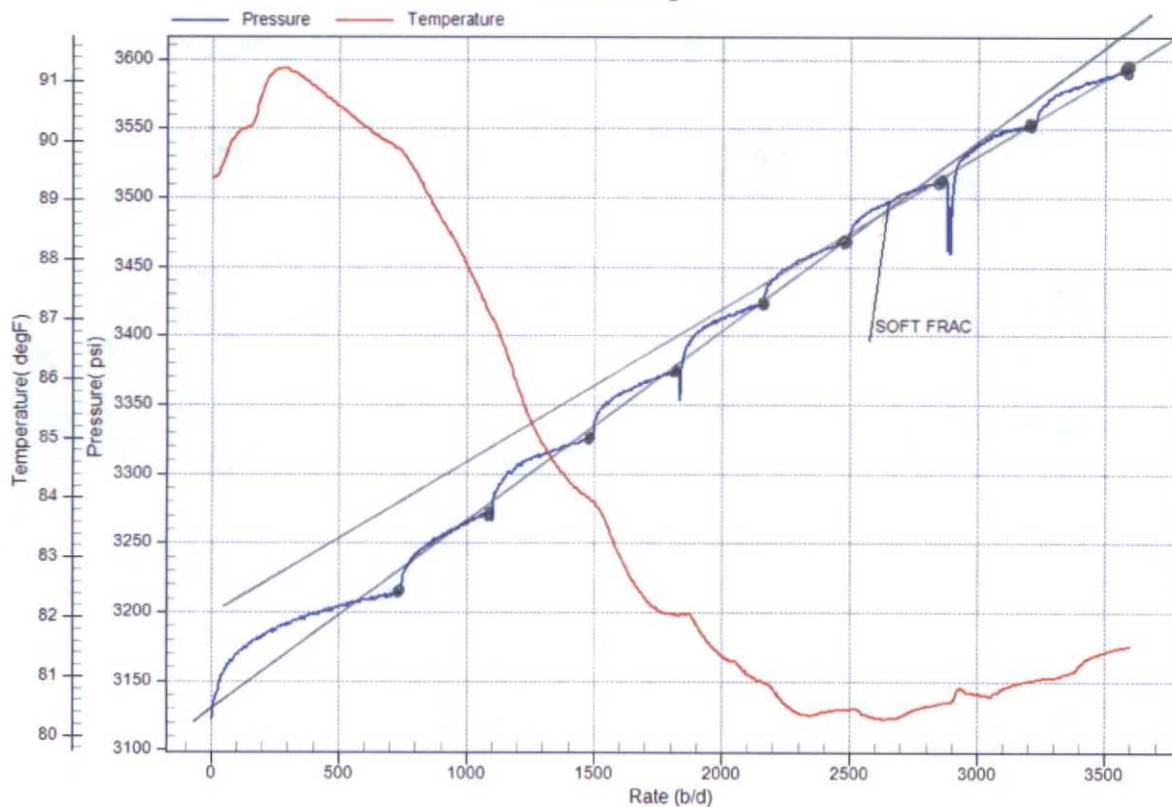
VGSAU # 440



Pressure vs. Rate



Pressure Log





STEP RATE TEST

RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
0	4/28/2016	9:55 AM	3123	1135	
740	4/28/2016	10:10 AM	3212	1280	
1094	4/28/2016	10:25 AM	3271	1380	
1483	4/28/2016	10:40 AM	3326	1510	
1828	4/28/2016	10:55 AM	3375	1620	
2160	4/28/2016	11:10 AM	3422	1760	
2491	4/28/2016	11:25 AM	3469	1915	
2880	4/28/2016	11:40 AM	3513	2090	SOFT FRAC
3225	4/28/2016	11:55 AM	3554	2240	
3600	4/28/2016	12:10 PM	3593	2430	
5 MIN. FALLOFF	4/28/2016	12:15 PM	3412	1460	
10 MIN. FALLOFF	4/28/2016	12:20 PM	3365	1420	
15 MIN. FALLOFF	4/28/2016	12:25 PM	3336	1390	
Company: CHEVRON USA			Recorded By: T. STANCZAK		
Well: VGSAU # 440			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"			SOFT FRAC @		
Seat Nipple Depth: N/A			3513 BOTTOM HOLE PRESSURE		
Perforations: 4294'-4860'			2090 SURFACE PRESSURE		
Plug Back Depth: N/A			2880 B/D		

