

10/06/2014 DATE IN	SUSPENSE	PRG ENGINEER	10/06/2014 LOGGED IN	PRG TYPE	PRM# 1427952439 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

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☒ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

- IPI
- Chevron U.S.A. Inc
4323

wey
- Central Vacuum
Unit #107
30-025-25820
Pool
- Vacuuming G. Arbores
SA n Andres
62180

[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	See Attached Sundry	Regulatory Specialist	08/08/2014
_____ Print or Type Name	_____ Signature	_____ Title	_____ Date
		leakejd@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. 30-025-25820
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 107
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 U.S.A. INC.

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

4. Well Location

Unit Letter: G 2450 feet from NORTH line and 2632 feet from the EAST line

Section 6 Township 18S 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

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.

(**LETTER OF VIOLATION DATED 01/16/2014)

Spud Date:

Rig Release Date:

2425 psi
- 50 psi
2375 psi
2375
4244 = 0.56

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 08/08/2014

Type or print name DENISE PINKERTON
For State Use Only

E-mail address: leakejd@chevron.com

PHONE: 432-687-7375

APPROVED BY: _____ TITLE _____ DATE _____

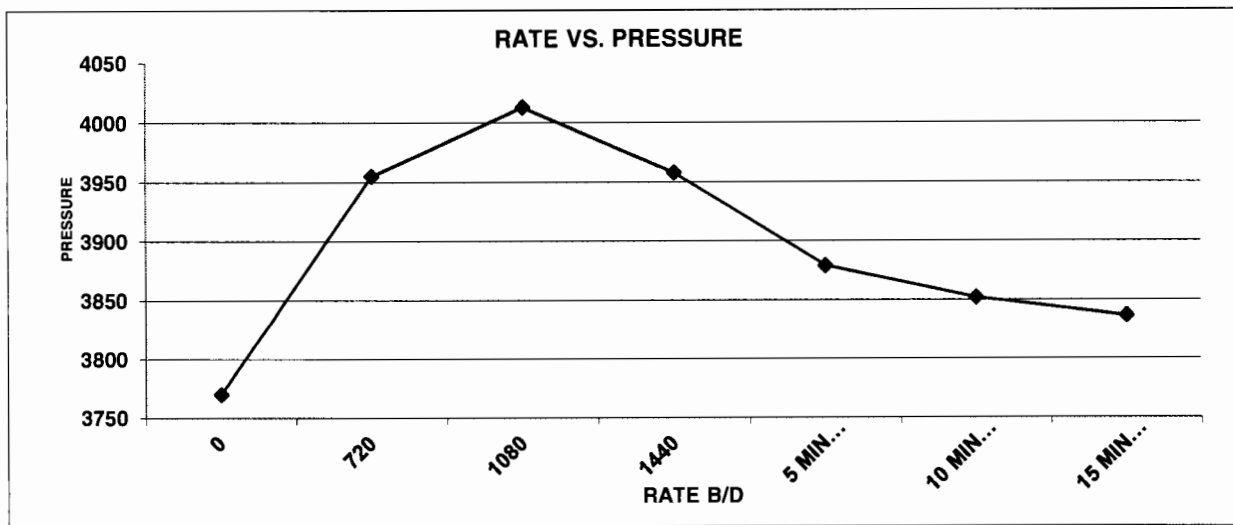
Conditions of Approval (if any):

fm

Archer

STEP RATE TEST

RATE B/D	Date	Time	BH PRESS	SURF. PRESS	Comments
0	5/6/2014	11:02 AM	3770	1810	
720	5/6/2014	11:15 AM	3955	2325	
1080	5/6/2014	11:30 AM	4013	2425	SOFT FRAC
1440	5/6/2014	11:45 AM	3958	2375	HARD FRAC
5 MIN FALL OFF	5/6/2014	11:50 AM	3879	2050	
10 MIN FALL OFF	5/6/2014	11:55 AM	3852	2040	
15 MIN FALL OFF	5/6/2014	12:00 PM	3837	2025	
Company:	CHEVRON			Recorded By:	T. STANCZAK
Well:	CENTRAL VACUUM UNIT # 107			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:	11:45 AM			SOFT FRAC: 4023 BHP;	
Total Shut In Time:	15 MIN. ✓			2450 SURFACE	
Tubing Size:	2.375"			1080 B/D	
Open Hole:	N/A			HARD FRAC: 4008 BHP ✓	
Perforations:	4244'-4795'			2425 SURFACE	
Plug Back Depth	4750'			1440 B/D	



CHEVRON

CENTRAL VACUUM UNIT # 107

May 6, 2014

JOB INFORMATION SHEET

Company Information	
Company Name:	CHEVRON
Address:	1500 LOUISIANA STREET HOUSTON, TX 77002
Well Information	
Well Name:	CENTRAL VACUUM UNIT # 107
Field – Pool:	VACUUM
Status:	INJECTING
Test Information	
Type of Test:	STEP RATE TEST
Gauge Depth:	4210'
Production Interval:	4244'-4795'
Production Through:	TUBING
Tubing Pressure:	1725 psi
Casing Pressure:	0 psi
Shut In Time	11:45 AM
Status:	INJECTING
Temperature @ Run Depth	93.62 degF
Surface Temperature:	97.72 degF
$4210 \times 0.4416 = 1859 \text{ psi}$ $4210 \times 0.443 = 1863 \text{ psi}$	
Comments	
SOFT FRACTURE STARTED @ 4023 BHP; 2450 SURFACE; 1080 B/D HARD FRACTURE AFTER SOFT FRACTURE @ 4008 BHP; 2425 SURFACE; 1440 B/D	

ARCHER WIRELINE

CHEVRON

WELL INFORMATION SHEET

Well:	CENTRAL VACUUM UNIT # 107		
Well License:		Unique Well Identifier:	30-025-25820
Company:	CHEVRON		
Field	VACUUM		

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

Total Depth:	4210'	ID Borehole:	N/A
Packer Depth:	4171'	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:	4171'	ID Drill Pipe:	N/A

ARCHER WIRELINE

Gradient Data Report

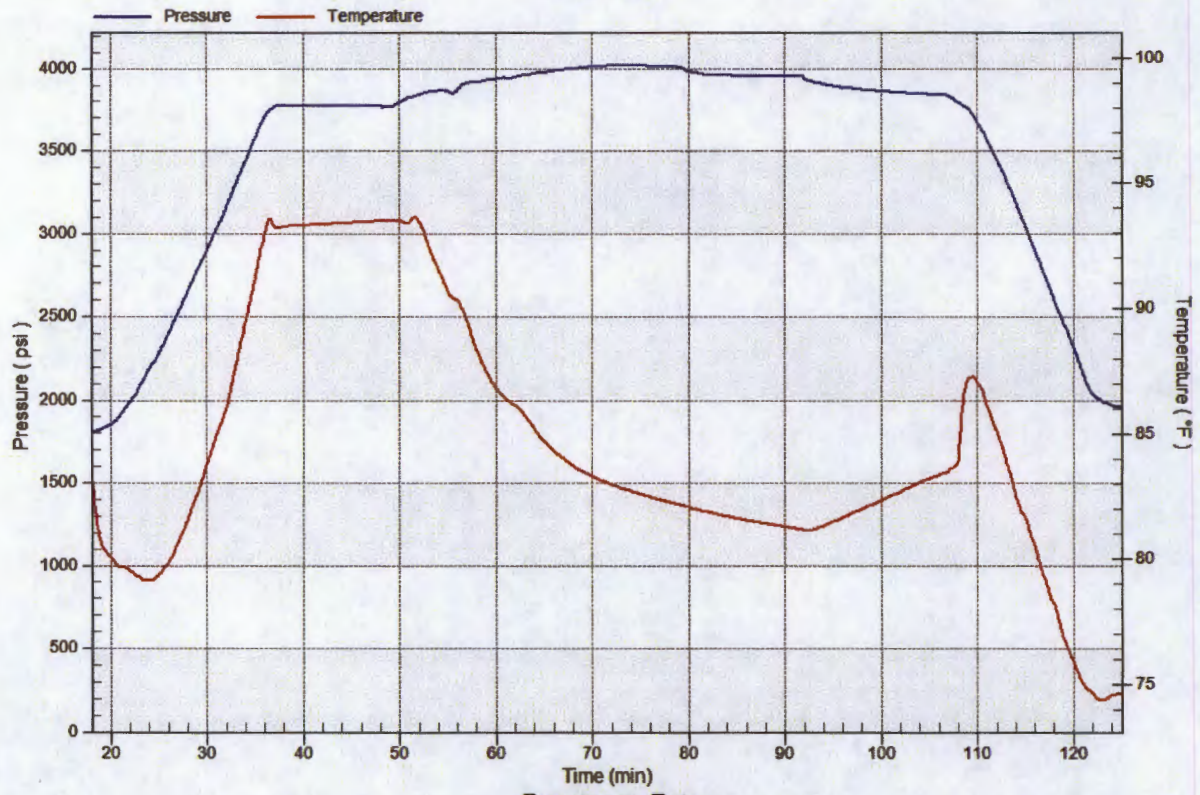
CHEVRON
CENTRAL VACUUM UNIT # 107

Gradient Data Table

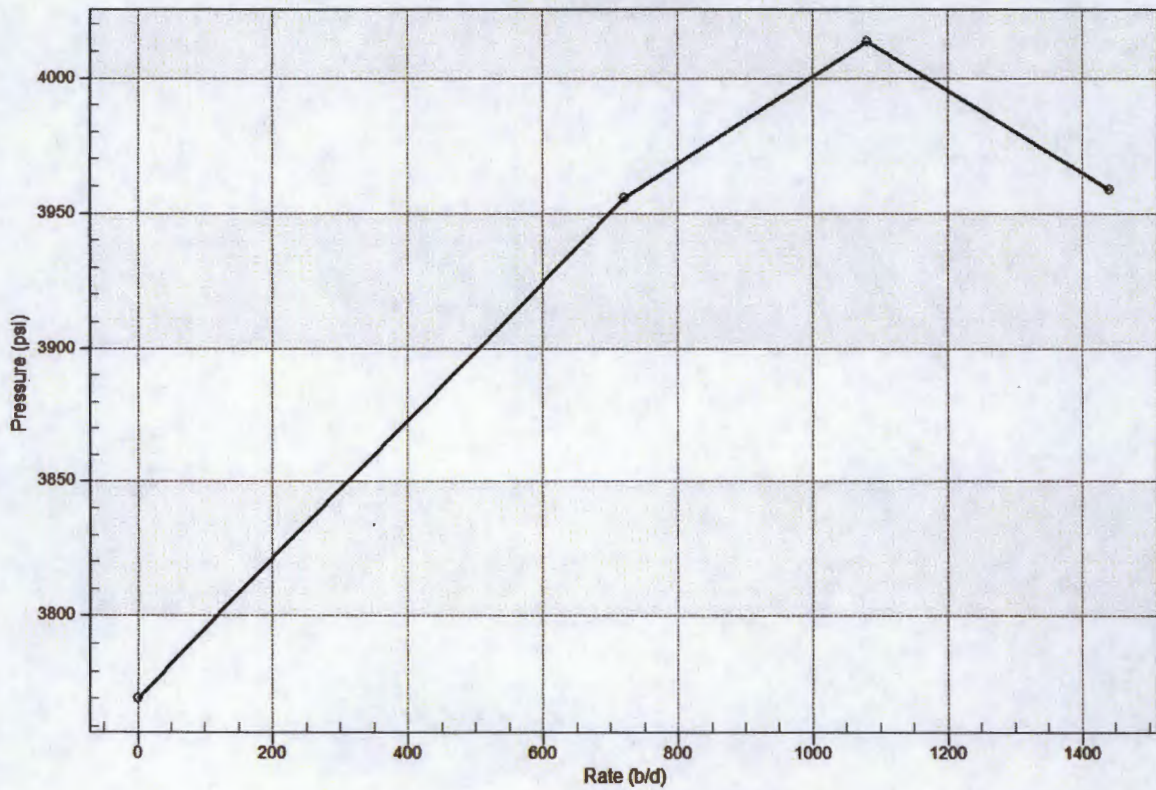
Rate b/d	Pressure psi	Temperature degF	Gradient psi/rate
0.00	3770.07	93.49	0.0000
720.00	3955.69	86.03	0.2578
1080.00	4013.57	82.42	0.1608
1440.00	3958.77	81.19	-0.1522

ARCHER WIRELINE

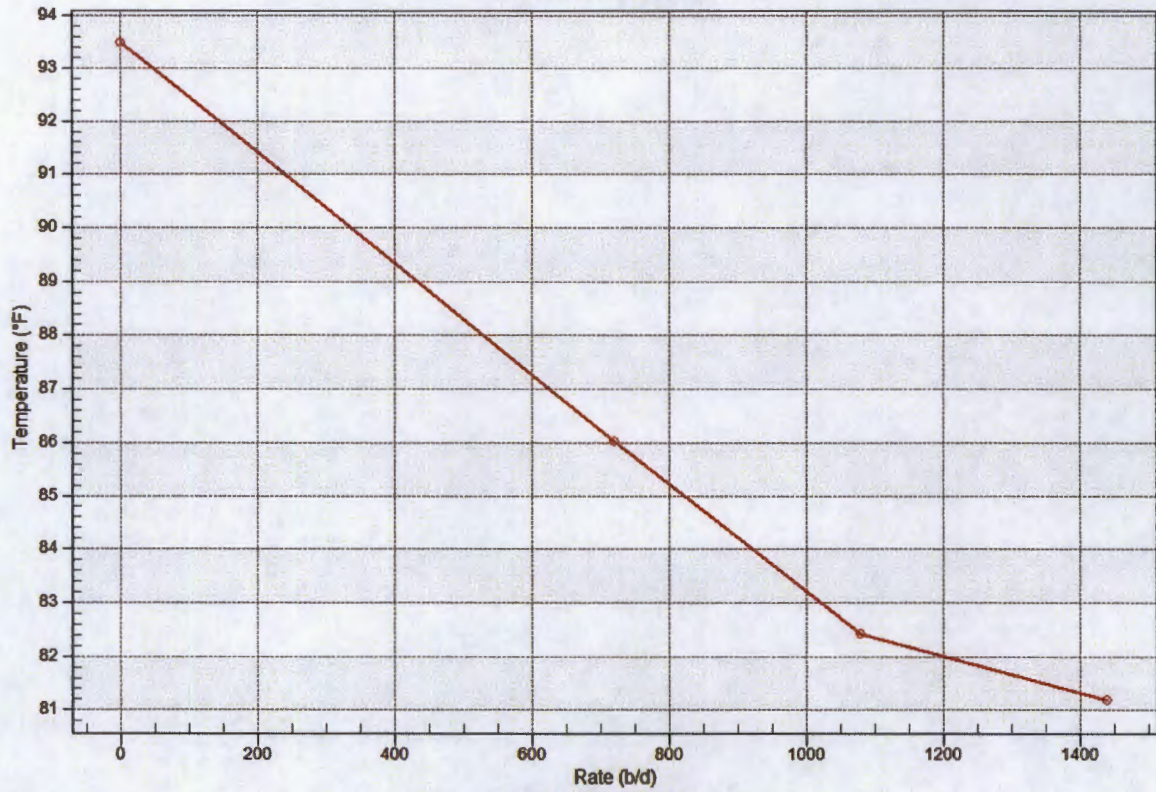
CVU # 107



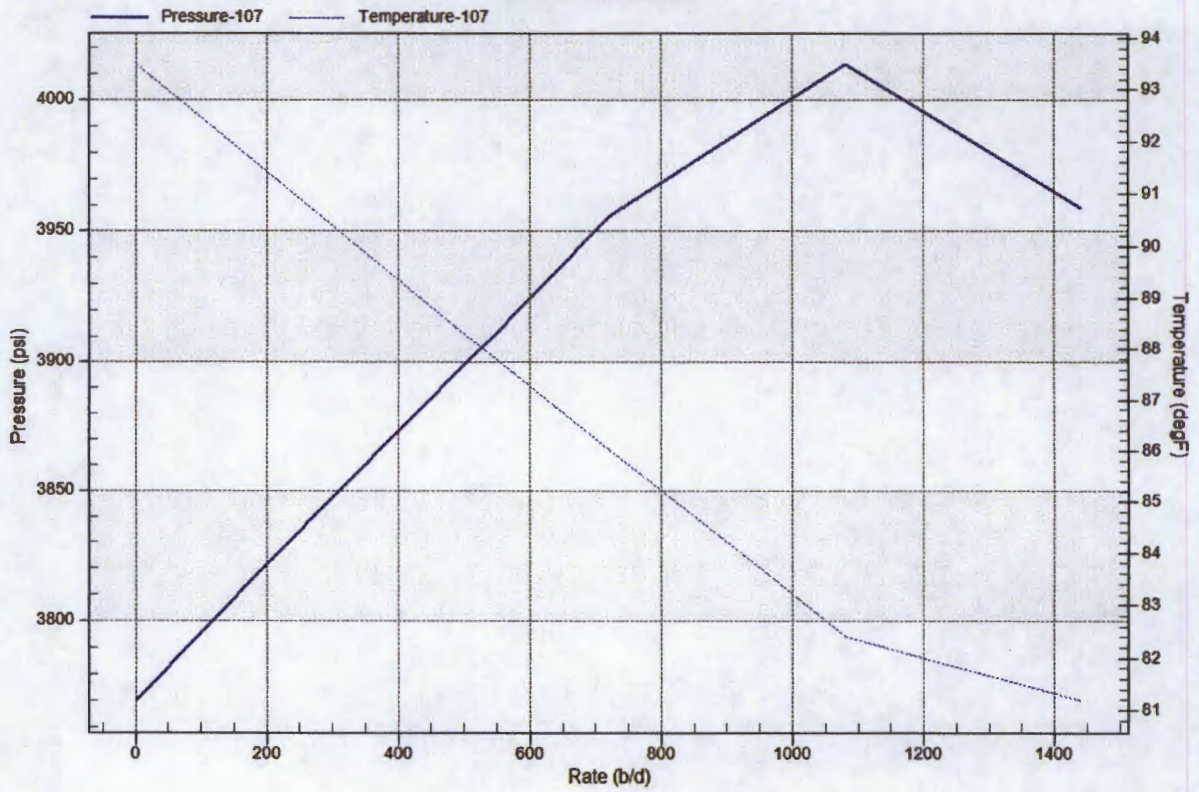
Pressure vs. Rate



Temperature vs. Rate



Pres/Temp vs Rate



Pressure Log

