

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
October 13, 2009

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. 30-025-01525
1. Type of Well: Oil Well ☐ Gas Well ☒ Other Injection ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator LINN OPERATING, INC.		6. State Oil & Gas Lease No.
3. Address of Operator 600 TRAVIS, SUITE 5100, HOUSTON, TEXAS 77002		7. Lease Name or Unit Agreement Name CAPROCK MALJAMAR UNIT
4. Well Location Unit Letter _____ M: 660 feet from the _____ S line and _____ 660 feet from the _____ W line Section 28 Township 17S Range 33E NMPM LEA County		8. Well Number: 098
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4,100' GR		9. OGRID Number 269324
		10. Pool name or Wildcat MALJAMAR;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 ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

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

OTHER: REQUEST MAIP OF 2082 PSIA ☒

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.

LINN performed a step rate test in 400 bpd increasing increments at 30 minutes for each step. Intercept at 4,799 BWPD, 3,465.6 BH psia with a surface intercept @ 2,314 psia. LINN would like to request MAIP of 2082 psia.

Note: Cardinal Surveys Company Step Rate Test Attached

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 COMPLIANCE III DATE MAY 1, 2013

Type or print name TERRY B. CALLAHAN
For State Use Only

E-mail address: tcallahan@linnenergy.com

PHONE: 281-840-4272

APPROVED BY:

Accepted for Record Only

TITLE

DATE

Conditions of Approval (if any):

EG 5-2-2013

MAY 02 2013

Step Rate Test



Cardinal Surveys Company

26-Apr-13

Linn Energy LLC

Well: CMU No. 98

Field;

County: Lee County, New Mexico

SC60200

File No. 20787

Intercept @ 4,799.3 BPD, 3,465.6 PSIA BHP & 2,314 PSIA Surface Intercept

Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. CSC 2701

Tool @ 4400'

	Start	End	Rate
1	8:50 AM	9:45 AM	0 4400'
2	9:45 AM	10:15 AM	100
3	10:15 AM	10:45 AM	200 Replaced Pump Truck @ 10:22
4	10:45 AM	11:15 AM	0
5	11:15 AM	11:45 AM	300
6	11:45 AM	12:15 PM	500
7	12:15 PM	12:45 PM	700
8	12:45 PM	1:15 PM	900
9	1:15 PM	1:45 PM	1100
10	1:45 PM	2:15 PM	1500
11	2:15 PM	2:45 PM	1900
12	2:45 PM	3:15 PM	2300
13	3:15 PM	3:45 PM	2700
14	3:45 PM	4:15 PM	3100
15	4:15 PM	4:45 PM	3500
16	4:45 PM	5:15 PM	3900
17	5:15 PM	5:45 PM	4300
18	5:45 PM	6:15 PM	4700

Cardinal Surveys Company

26-Apr-13

Linn Energy LLC

Well: CMU No. 98

Field;

County: Lee County, New Mexico

SC60200

File No. 20787

Intercept @ 4,799.3 BPD, 3,465.6 PSIA BHP & 2,314 PSIA Surface Intercept

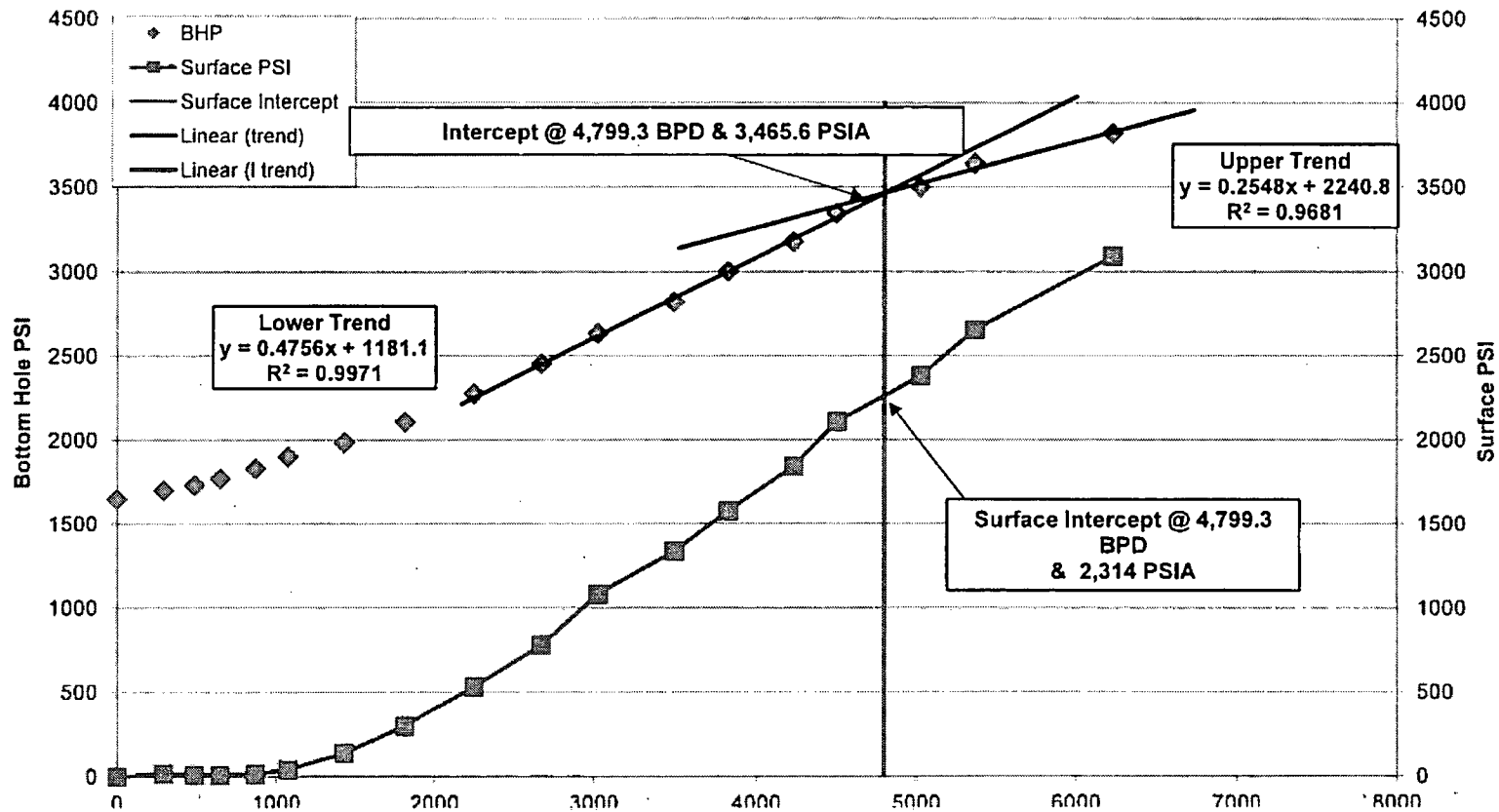
Downhole PSI Tool Ser. No. CSC2601

Surface PSI Gauge Ser. No. CSC 2701

Tool @ 4400'

	Start	End	Rate
1	6:15 PM	6:45 PM	5100
2	6:45 PM	7:15 PM	5500
3	7:15 PM	7:45 PM	5900
4	7:45 PM	8:15 PM	6300
5	8:15 PM	8:20 PM	6700 Ran out of Water @ 8:20 PM
6	8:20 PM	8:36 PM	0 15 Minute Fall-Off
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			

Linn Energy LLC
CMU No. 98
Step Rate Test 26-Apr-13



Step Rate Test
26-Apr-13

Linn Energy LLC
Well: CMU No. 98
Field:

Location: Lee County, New Mexico



upper trend 0.4756 1181.1
lower trend 0.2548 2240.8
Intersect 4799.36594 BPD
BHP PSI 3463.67844 PSIA

	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	BHP PSIA	Surf PSIA	Cum BBL	Delta BBL	Avg. BPD	Lower Trend	Upper Trend
1	8:50 AM	9:45 AM	55	0	0	1602.9	0	0	0	0		
2	9:45 AM	10:15 AM	30	100	100	1692.8	17	4.11	4.11	197		
3	9:45 AM	10:15 AM	Replaced Pump Truck			1700.9	16	4.8	0.69	33		
4	10:15 AM	10:45 AM	30	0	0	1647.3	0	0	0	0		
5	10:45 AM	11:15 AM	30	300	300	1698.8	18.3	6.1	6.1	293		
6	11:15 AM	11:45 AM	30	500	200	1731.1	11.5	16.2	10.1	485		
7	11:45 AM	12:15 PM	30	700	200	1771.8	10.5	23.6	13.5	648		
8	12:15 PM	12:45 PM	30	900	200	1832.3	13.9	31.6	18.1	869		
9	12:45 PM	1:15 PM	30	1100	200	1901.7	41.9	40.5	22.4	1075		
10	1:15 PM	1:45 PM	30	1500	400	1985.9	137.7	52.2	29.8	1430		
11	1:45 PM	2:15 PM	30	1900	400	2107.6	299.2	67.5	37.7	1810		
12	2:15 PM	2:45 PM	30	2300	400	2276.4	530.2	84.5	46.8	2246		
13	2:45 PM	3:15 PM	30	2700	400	2453.6	775.9	102.4	55.6	2669	2453.6	
14	3:15 PM	3:45 PM	30	3100	400	2634.1	1078.5	118.6	63	3024	2634.1	
15	3:45 PM	4:15 PM	30	3500	400	2819.9	1331.6	135.8	72.8	3494	2819.9	
16	4:15 PM	4:45 PM	30	3900	400	3001.4	1576.7	152.5	79.7	3826	3001.4	
17	4:45 PM	5:15 PM	30	4300	400	3176.1	1841.4	167.89	88.19	4233	3176.1	
18	5:15 PM	5:45 PM	30	4700	400	3345.1	2110.6	181.99	93.8	4502	3345.1	
19	5:45 PM	6:15 PM	30	5100	400	3498.4	2379.2	198.5	104.7	5026		3498.4
20	6:15 PM	6:45 PM	30	5500	400	3640.2	2654.9	216.5	111.8	5366		3640.2
21	6:45 PM	7:15 PM	30	5900	400	3757.2	2891.7	220.6	108.8			
22	7:15 PM	7:45 PM	30	6300	400	3818	3091	238.5	129.7	6226		3818
23	7:45 PM	8:15 PM	30	6700	400	3905.2	3287.2	151.1	21.4	1027	Out of Water	
24	8:15 PM	8:20 PM	5	0	0	2371	1480.7	151.1	0	0	@ 8:20 PM	



Linn Energy LLC
CMU No. 98
Total Data Chart 26-Apr-13

