

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Oil Cons. Division
1525 N. Freeway Dr.
Albuquerque, NM 88240

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

SAGA PETROLEUM LLC

3a. Address

415 W WALL, SUITE 1900 MIDLAND, TX 79701

3b. Phone No. (include area code)

(915)684-4293

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 18 (L) T8S, R38E

5. Lease Serial No.

NMNM0509201

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

Bluitt SA 18 Federal #12

9. API Well No.

30-041-20161

10. Field and Pool, or Exploratory Area

Bluitt San Andres Assoc

11. County or Parish, State

Roosevelt

NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/ Resume)	☐ Water Shut-Off	
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☒ Recomplete	☐ Other _____	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

7-9 Load csg w/2% KCL, press test to 1000 psi, good

7-11 Perf 1 JSPF from 4562'-4633'

7-23 Pump 12 bbls 15% NEFE HCL acid & flush w/3 BW. Frac 5000 gal 30# borate xlink gel pad, 8000 gals 30# borate xlink gel w/1-4 ppg 20/40 sd (total sd 20,000#). AIR 11.9 BPM, total fluid 345 bbls. ISIP 1550psi, 15 mins 1190 psi

7-27 Swab, rec total 92 bbls, 253 BLTR

8-5 4 point AOF, SIBHP 1250 psig @ 4507', BHT 110, CAOF 819.5 MCFPD, BTU @ 14.73 psia=1028

8-18 Tie in to sales line ARO 550 MCF w/FTP 375 psi on 20/64" choke

9-13 Flowed 303 MCF, 3 BW w/70 FTP, 113 BLTR

4 point CAOF enclosed

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

BONNIE HUSBAND

Title

PRODUCTION ANALYST

Signature

Bonnie Husband

Date

09/14/2000

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

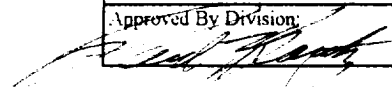


Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

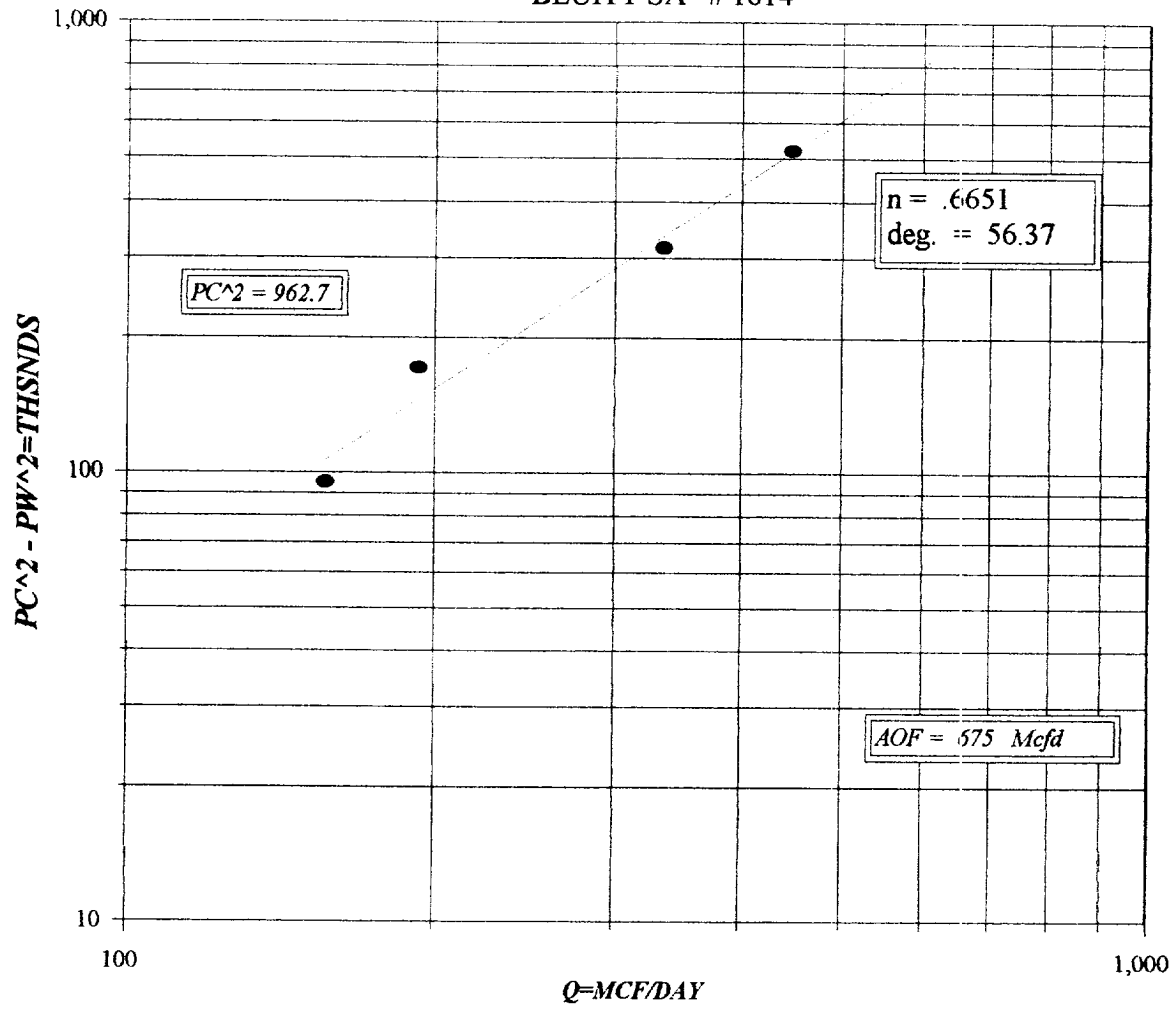
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator SAGA PETROLEUM					Lease or Unit Name BLUITT SA									
Type Test ☒ Initial ☐ Annual ☐ Special							Test Date 9/7/00		Well No. 1814					
Completion Date			Total Depth			Plug Back TD 4690			Elevation		Unit Ltr - Sec - TWP - Rge N 18 8-S 37-E			
Csg. Size 5 1/2		Wt. 14		d 5.012		Set At 4690		Perforations: From: 4589 To: 4623			County ROOSEVELT			
Tbg. Size 2 3/8		Wt. 4.7		d 1.995		Set At 4494		Perforations: From: To:			Pool			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE							Packer Set At 4494			Formation				
Producing Thru TUBING			Reservoir Temp. °F 118.9		Mean Annual Temp. °F 60		Baro. Press. - P ₁ 13.2			Connection AIR				
L 4494		H 4494		Gg 0.729		%CO ₂ 5.921		%N ₂ 7.2		%H ₂ S N/A		Prover N/A	Meter Run 2.067	Taps FLG
FLOW DATA					TUBING DATA					CASING DATA				
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F	Press p.s.i.g.	Temp. °F	Press p.s.i.g.	Temp. °F	Duration of Flow		
SI						968	N/A	PKR	N/A					
1		2.067 X 1.250	50	4	68	918						1 HR		
2		2.067 X 1.250	50	6	68	876						1 HR		
3		2.067 X 1.250	50	18	62	790						1 HR		
4		2.067 X 1.250	50	32	60	650						1 HR		
5														
RATE OF FLOW CALCULATIONS														
No.	COEFFICIENT (24 Hour)		$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress Factor F _{pv}		Rate of Flow Q, Mcfd					
1	8.12		15.9	63.2	0.9924	1.171	1.049		157					
2	8.12		19.5	63.2	0.9924	1.171	1.049		193					
3	8.12		33.7	63.2	0.9981	1.171	1.051		336					
4	8.12		44.9	63.2	1	1.171	1.051		448					
5														
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf bbl.									
1	0.77	528	1.43	0.909	A.P. I. Gravity of Liquid Hydrocarbons _____ Deg.									
2	0.77	528	1.43	0.909	Specific Gravity Separator Gas _____ XXXXXX									
3	0.76	522	1.41	0.906	Specific Gravity Flowing Fluid _____ XXXXXX									
4	0.76	520	1.41	0.906	Critical Pressure _____ 679 P.S.I.A. _____ P.S.I.A.									
5					Critical Temperature _____ 368 R. _____ R									
P _c 981.2 P _{c2} 962.7					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.854}{\quad}$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{675}{\quad}$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.508}{\quad}$									
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²										
1	867.1	931.4	867.4	95.2										
2	790.7	889.6	791.3	171.4										
3	645.1	804.4	647.1	315.7										
4	439.8	665.9	443.4	519.4										
5														
Absolute Open Flow _____ 675					Mcf/d at 15.025					Angle of Slope (°): _____ 56.37			Slope n: _____ 0.6651	
Remarks: _____ * NO LIQUID MADE DURING TEST.														
Approved By Division: 				Conducted By: PRO WELL TESTING				Calculated By: MB				Checked By: BM		

SAGA PETROLEUM
BLUITT SA #1814



UNIT .N

SECTION .10

TOWNSHIP :6-5

L : 4494 H : 4494 T/H : 1 G/GMIX : 0.729
 %CO2 : 5.92 %N2 : 7.2 DATE : 9/7/00
 d : 1.995 Fr : 0.018231 GH : 3276.1 RANGE : 37-E

VOL 1 : 157 PSIA 1 : 931.2 RESV.TEMP 118.9
 VOL 2 : 193 PSIA 2 : 889.2
 VOL 3 : 336 PSIA 3 : 803.2 SHUT-IN PR= 981.2
 VOL 4 : 448 PSIA 4 : 663.2

PCR : 679
 TCR : 368

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.157	0.157	0.193	0.193	0.336	0.336	0.448	0.448
2 TW	534	534	534	534	534	534	534	534
3 Ts	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9
4 T	556.5	556.5	556.5	556.5	556.5	556.5	556.5	556.5
PR (est)	1.37		1.31		1.18		0.98	
5 Z(est)	0.852	0.844	0.857	0.849	0.867	0.861	0.885	0.879
6 TZ	474.0	469.7	476.8	472.7	482.7	478.9	492.6	489.3
7 GH/TZ	6.912	6.974	6.871	6.931	6.787	6.841	6.650	6.695
8 eS	1.296	1.299	1.294	1.297	1.290	1.292	1.283	1.285
9 l-e-S	0.228	0.230	0.227	0.229	0.225	0.226	0.221	0.222
10 Pt	931.2	931.2	889.2	889.2	803.2	803.2	663.2	663.2
11 Pt2 /1000	867.1	867.1	790.7	790.7	645.1	645.1	439.8	439.8
12 Fr	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231
13 Fc=PrTZ	8.641	8.564	8.692	8.618	8.800	8.730	8.981	8.921
14 FcQm	1.36	1.34	1.68	1.66	2.96	2.93	4.02	4.00
15 L/H(FcQm)	1.8	1.8	2.8	2.8	8.7	8.6	16.2	16.0
16 Fw	0.420240	0.416017	0.639300	0.633128	1.964555	1.947177	3.573169	3.5466037
17 Pw2	867.6	867.5	791.3	791.3	647.1	647.1	443.4	443.4
18 Ps2	1124.3	1126.9	1023.9	1026.2	834.7	836.3	569.0	569.9
19 Ps	1060.3	1061.6	1011.9	1013.0	913.6	914.5	754.3	754.9
20 P	995.8	996.4	950.5	951.1	858.4	858.9	708.8	709.1
21 Pr	1.47	1.47	1.40	1.40	1.26	1.26	1.04	1.04
22 Tr	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51
23 Z	0.844	0.844	0.849	0.849	0.861	0.861	0.879	0.879

Pt2 - 867.1 Pw = 931.4 *
 /90.7 889.6 *
 645.1 804.4 *
 439.8 665.9 *

Pc2-Pw2= 95.2 Pw2 = 867.5 *
 171.4 791.3 *
 315.7 647.1 *
 519.4 443.4 *

n = 0.665 *

Pc2/(Pc2-Pw2) = 10.113 *
 5.616 *
 3.050 *
 1.854 *

[Pc2/Pc2-Pw2]n = 4.659 *
 3.151 *
 2.099 *
 1.508 *

AOF= Q 0.732 *
 0.608 *
 0.705 *
 0.675 *

FORM C122-D

RECEIVED

SEP 17 2000

BLM

ROSWELL, NM



Laboratory Services, Inc.

4016 Fiesta Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Pro Well Testing & Wireline
P. O. Box 791
Hobbs, New Mexico 88241

SAMPLE: Bluitt San Andres
IDENTIFICATION: Unit #1S14
COMPANY: Saga Petroleum
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 9/7/00 3:00 pm
ANALYSIS DATE: 9/8/00
PRESSURE - PSIG 50
SAMPLE TEMP. °F 60
ATMOS. TEMP. °F 100

GAS (XX) LIQUID ()
SAMPLED BY: R. Hicks
ANALYSIS BY: Vickie Walker

REMARKS: Sample taken @ the meter run.

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	7.200	
Carbon Dioxide (CO2)	3.921	
Methane (C1)	75.603	
Ethane (C2)	8.780	1.809
Propane (C3)	2.879	0.791
I-Butane (IC4)	0.829	0.107
N-Butane (NC4)	0.787	0.232
I-Pentane (IC5)	0.168	0.061
N-Pentane (NC5)	0.166	0.060
Hexane Plus (C6+)	0.217	0.094
	100.000	3.154

BTU/CU.FT. - DRY 1014
AT 14.650 DRY 1011
AT 14.650 WET 994
AT 14.73 DRY 1017
AT 14.73 WET 999

MOLECULAR WT. 21.1129

SPECIFIC GRAVITY -
CALCULATED 0.729
MEASURED

RECEIVED

SEP 17 2000

BLM

ROSWELL, NM