Form 3160-5 (August 1999)

UNILD STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

N.M. Oil C s. Division 1625 N. French Dr.

FORM APPROVED OMB No. 1004-0135 Expires November 30, 2000

Hobbs, NM 88240se Serial No.

SUND	NMNM0509201				
Do not use to abandoned to	6. If Indian, Allottee or Ti				
SUBMIT IN TR	RIPLICATE - Other instruction	s on reverse	Side .	7. If Unit or CA/Agreeme	nt, Name and/or No.
Oil Well 🖾 Gas Well	Other			8. Well Name and No.	
2. Name of Operator SAGA PETROLEUM LLC				Bluitt SA 18 Federa	1 #14
3a. Address	3b. P	Phone No. (includ	le area code)	9. API Well No. 30-041-20855	
415 W WALL, SUITE 190	O MIDLAND, TX 79701 (915 ec., T., R., M., or Survey Description)	5)684-4293		10. Field and Pool, or Expl Bluitt San Andres A	
660'FSL & 1980' FWL, Se	ec 18 (N) T8S, R38E			11. County or Parish, State Roosevelt NM	
12. CHECK A	PPROPRIATE BOX(ES) TO INDI	CATE NATU	RE OF NOTICE, I		DATA
TYPE OF SUBMISSION			PE OF ACTION		
 □ Notice of Intent ☑ Subsequent Report □ Final Abandonment Notice 	☐ Alter Casing ☐ Frac☐ Casing Repair ☐ New	epen cture Treat w Construction g and Abandon	Production (Star Reclamation Recomplete Temporarily Aba	☐ Well Inte	
	Convert to Injection Plus	g Back	☐ Water Disposal	·	
Well is tied in to Sales Me with wells Bluitt 18 Federa	eter 1575A (originally assigned t al #11 and Bluitt SA 18 Federal :	to 1811 only) #12. All well		d Lease NMNM05092 SEPTED FOR RECC	
				The second secon	- L
14. Thereby certify that the foregoing Name (Printed Typed)	g is true and correct	Title			4
BONNIE HUSBAND Signature	1/ // /	JCTION ANALYS	ST		
Gonne	Sustand	Date 12/11/2	000		
	THIS SPACE FOR FED	DERAL OR ST	ATE OFFICE USE		
Approved by		Т	itle	Date	
Conditions of approval, if any, are attained that the applicant holds legal or which would entitle the applicant to co	ached. Approval of this notice does not warra equitable title to those rights in the subject lead and on the subject leads to the subject leads on the subje	int or Off	lice		
Title 18 U.S.C. Section 1001, makes i	t a crime for any person knowingly and willfu	ılly to make to any	department or agency o	f the United States any false, fi	titious or

fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5 (November 1994)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

N.M. C Cons. Division
1625 N. French Dr. OMB No. 1004-0135
Expires July 31, 1996
Hobbs, NM 83240-rial No.

SUMPRY MOTICES AND DEDORTS ON MELLS

SUNDRY NOTICES AND REPORTS ON WELLS							NMNM0509201			
Do not use th abandoned w	nis form for proposals to ell. Use Form 3160-3 (AP	o drill or to re PD) for such p	e-enter an roposals.		6. If Indian	ı, Allo	ottee or Tribe Name			
SUBMIT IN TRI	IPLICATE - Other instr	uctions on I	everse side	()	7. If Unit o	or CA	Agreement, Name and/or No.			
1. Type of Well Oil Well Gas Well	7 Out		· · · · · · · · · · · · · · · · · · ·							
2. Name of Operator					8. Well Na Bluitt SA		nd No. Federal #14			
SAGA PETROLEUM LLC					9. API We					
3a. Address	. MIDLAND TV 70704		o. (include area	a code)	3C-041-2					
4.15 W WALL, SUITE 1900 4. Location of Well (Footage, Sec		(915)684-	4293		1		ol, or Exploratory Area			
660'FSL & 1980' FWL, Sec	c 18 (N) T8S, R38E	<i>m)</i>			11. County					
					Rooseve	elt				
					NIM					
12. CHECK AP	PROPRIATE BOX(ES) T	O INDICATE	NATURE (OF NOTICE, R	EPORT, O	R O	THER DATA			
TYPE OF SUBMISSION			TYPE O	F ACTION						
☐ Notice of Intent	☐ Acidize	☐ Deepen		Production (Start/	Resume)		Water Shut-Off			
☐ Notice of Intent	☐ Alter Casing	☐ Fracture Ti	eat 🗌	Reclamation			Well Integrity			
Subsequent Report	Casing Repair	☐ New Const	ruction 🛭	Recomplete			Other			
☐ Final Abandonment Notice	Change Plans	Plug and A	bandon 🗆	Temporarily Abar	ndon					
	Convert to Injection	☐ Plug Back	U	Water Disposal						
7-9-2000 Load csg w/2% k 7-11 Perf 1 JSPF from 45: 7-23 RU acid trk to csg, pr bbls acid in, between 4000 acid & flush w/5 BW. Frace borate x link gel w/1 ppg 2 20/40 sd, 750 gal 30# bora w/861 gal 2% slick KCL. A acid 250 gals. ISIP 1100 p 8-4 Sqzd off perfs 4712'-4 50 sx 14 bbls thick slurry 8	89'-4664'. ress to 500 psi, begin pu 0-4500 psi, press broke w/5000 gal 30# borate 0/40 sd, 2000 gal 30# b ate xlink gel w/3 ppg 20/ NR 11.9 BPM, total sd 8 psi, 5 mins 30 psi, 10 mi 740' w/retainer @ 4692'	umping 15% & went on vaxiink gel pad porate xlink g/40 sd. Flush 000#. Total fins vac.	c. Pumped, 2000 gal 3 el w/2 ppg to btm perfluid includir	13 bbls 30# ng iner,						
continued on back	of form. Also enc	losed is	4 point C	AOF		MQ y	17 200			
14. I hereby certify that the foregoing Name (Printed/Typed)	g is true and correct		Title	;						
BONNIE HUSBAND	TION ANALYS	ST.								
Signature Bonniu S	Bushand		Date 09/14/2000)						
	THIS SPACE	FOR FEDERA	L OR STATI	E OFFICE USE						
Approved by			Title			Date				
Conditions of approval, if any, are certify that the applicant holds legal which would entitle the applicant to	l or equitable title to those right									

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.

8-22 Refrac w/12,000 gal Boragel G3195 w/2250# 20/40 mesh sand followed by 12,250# 16/30 sand.

Treat dwn 2-3/8" tbg @ 12 BPM, max press 5000 psi. ISIP 1610 psi, 15 mins 1189 psi, ATP 3400 psi, ATR 12.2 BPM

8-28 FTP 60 psi, op choke, flow back 20 BW, 138 BLTR

 $^{\prime\prime}$ 9-10 SITP 1050 psi, hooked up FL to separator & open to sales line

9-13 Flowed 264 MCF & 3 BW w/FTP 70, open choke



State of New Mexico

Form C-122 Revised October, 1999

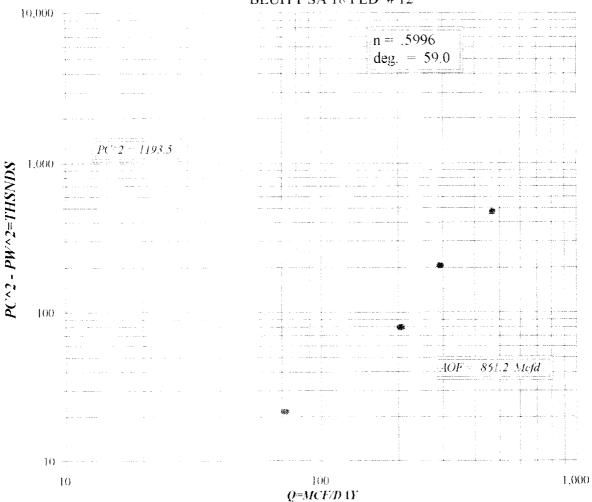
Energy Minerals and Natural Resources Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operat	tor		MIODI	SAGA PET		31111 21101	Lease o	or Unit N	Vame		BLU.	ITT SA 1	8 FED
Type :				*					Test Date		Well No),	
☑ Initial ☐ Annual ☐ Special									8/5/0	00		12	
Comp	etion Dat	ie	Total Dep	oth		Plug Back TD			Elevation		Unit Ltr	- Sec - TW 18 8-S	
Csg. S	7/9/0	() [Wt.	 	4740 Set At		Perforations:		1			County	10 0-5	J0-L
	1/2	14	5.012	1	740	From:	4562	To:	459	3		ROOSE	VELT
Tbg. S		Wt.	d	Set At		Perforations:					Pool		
2	3/8	4.7	1.995	4	507	From:		To:					
Type \	Well-Sing	le-Braden		or G.O. Multipl	e	Packer		1507			Formatie	on SANAN	DRES
	ing Thru			p.∘F Mean A	nnual Temp 'F	Baro. P		13.2			Connect	ion AII	2
L	TUBINO	H	110.4	Gg	<u>⊣ოco₂</u>	T°0N2	196H2S	Prove	г	Meter	Run	711	Taps
	507	I	507	0.727	5.501	7 319				<u> </u>	3.06		FLG
				LOW DATA				NG DA	TA		CASING	DATA	Duration
	Prover Line	. Or	ifice	Press p.s.i.g.	Diff. h _w	Temp.	Press p.s.i.g.	Temp		Press p.s.i.g.		Гетр.	of
	Size	Siz	e	p.s.t.5.	l roy	o.k	p.3	٥F		ļ		°F	Flow
SI							1060		N/A	P	KR	N/A	
1		.068 X .		50	8	78	1056			ļ			1HR
2		068 X 1		50	8	78	1031			ļ			1HR
3		068 X 1		50	16	78	1000	<u> </u>		<u> </u>			1HR
4	3.	068 X 1	.250	50	42	78	920						1HR
5					D. MEE	05.51.011.0	AL CUIT ATTI	ONIC		<u>.l.,</u>			
					1	T	ALCULATIO	UNS T	· · · · ·	. C	T	Rate	of Flow
No.	C	OEFFICE			Pressure	Flow Temp.	Consider Foreston	r F.		Compre otor F pv			. Mcfd
		(24 Hou		$h_{\mathbf{w}}P_{\mathbf{m}}$ 22.5	P _m 63.2	6.9831	Gravity Factor	rg		1.047			72
1		2.672 7.577		22.5	63.2	0.9831	1.173			1.047		<u>-</u> -	205
2		7.577		31.8	63.2	0.9831	1.173			1.047			291
3		7.577		51.5	63.2	0.9831	1.173			1.047			471
- 1 5		1.311		31.5	1 00.2	1							
No.	Р.	Ī	emp. ∘R	T.	$\frac{1}{Z}$	Gas Liquid Hy	drocarbon Ratio	·—————————————————————————————————————		N	J/A		Mef bbl
1	0.7		538	1.44	0.912	A.P. I. Gravity	of Liquid Hydro	- ocarbons	<u> </u>		N/A		 Deg
2	0.7		538	1.44	0.912	-1	ty Separator Gas			0.	727		YXXXXXX.
3	0.7		538	1.44	0.912	⊣ `	ty Flowing Fluid		N/A		CZZZZ.		
4	0.7	7	538	1.44	0.912	Critical Pressu	-		691	P.S	.I.A		P.S.I.A
5						Critical Tempe	erature		372		R.	·	F
Pe		92.5	P _c 2	1193.5		_				,		,)	
No.	P_t^2		$P_{\rm w}$	$P_{\rm w}^{-2}$	$P_{s}^{2}-P_{w}^{2}$	(1)	$P_c^2 =$		2.54	(2)	$\frac{P_c}{P_c^2 - I}$	n =	1.74
1			1082.5	1171.8	21.7		$P_c^2 - P_w^2$				p 2 _ I	<u> </u>	
2			1065.8	1135.9	79.3] '	ic Fw			Ĺ	- 1 c - 1	ر **	
3			1033.3	1067.7	205.1	AOF	= Q		P_c^2) r =	8	19.5	
4			963.8	928.9	469.7					-			
5						7982	5	P_{c}	$^{2} - P_{w}^{2}$	<u> </u>			
	ite Open	Flow		819.5	Mefd 4	<i>à</i> 15.025	Angle of Slope	e ():		59		Slope n:	0.5996
AUSOR			CALC	ULATED FI	ROM KNOWN	N BOTTOM E	IOLE PRESSU	JRES.	NO LIQU	ЛС МА	DE DU	ring te	ST
Remar	ks:		Cribe							Checked By:			
Remar	ks: ved BFE	ivision:	1/1	Conducted By			ated By: MB			Check	ed By:	BM	

SAGA PETROLEUM

BLUITT SA 18 FED #12



	WORK SHEET FOR CALCULATI			SURE (Pc or LE PRESSURE)		FORM C-122	F
COMPAI UNIT	NY SAGA	LEASE SECTION		WELL NO. : TWNSHP :		DATE RANGE	8/5/00 :		
L	4507	H	: 4507	L/H :	1	G/GMIX	: 0.7270		
		CO2	: 5.501	N2 :	7.319	H2S	:		
		GH	: 3276.6	PCR :	691	TCR	: 372		
LINE		1	2	3	4	5	б	7	8
1	TW(W.H. R)	534	534	534	534	534	534	534	5
2	Ts(B.H. R)	579.1	579.1	579.1	579.1	579.1	579.1	579.1	57 9
3	T=(Tw+Ts/2)	556.5	556.5	556.5	556.5	556.5	556.5	556.5	556
4	Z (EST.)	0.871	0.820	ERR	ERR	ERR	ERR	ERR	ER
5	TZ	485	456	ERR	ERR	ERR	ERR	ERR	ER
6	GH/TZ	6.756	7.180	ERR	ERR	ERR	ERR	ERR	ER
7	eS(TABLE XIV)	1.288	1.309	ERR	ERR	ERR	ERR	ERR	ER
8	Pf or Ps	1249.9	1249.9	0	0	0	0	0	^
9	Pf2 or Ps2	1562.3	1562.3	0.0	0.0	0.0	0.0	0.0	0
10	Pc2=Pf/eS or Pw2=Ps2/eS	1212.6	1193.5	ERR	ERR	ERR	ERR	ERR	ER
11	Pc or Pw	1101	1092	ERR	ERR	ERR	ERR	ERR	ER
12	P=(Pw+Ps/2)or(Pc+Pf/2)	1176	1171	ERR	ERR	ERR	ERR	ERR	ER
13	Pr=(P/Pcr)	1.70	1.69	ERR	ERR	ERR	ERR	ERR	ER
14	Tr(T/Tcr)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.
15	Z (TABLE XI)	0.820	0.820	ERR	ERR	ERR	ERR	ERR	ER

PC pm 1: 1092.5 PW 2: ERR PW 3: ERR PW 4: ERR

	WORK SHEET FOR CALCULATIO	N OF WELL OM KNOWN	HEAD PRESS BOTTOM HOI	SURE (Pc or) LE PRESSURE	Pw) (Pf or Ps)			FOR C-122F	
OMPANY	SAGA		:BLUITT 18	WELL NO. : TWNSHP :	12	DATE RANGE :			
NIT	4507	Н		L/H :	1	G/GMIX:			
L	1307	CO2		N2 :	7.319	H2S :			
		GH		PCR :	691	TCR :	372		
LINE		1	2	3	4	5	6	7	8
		534	534	534	534	534	534	534	53
1	TW(W.H. R)	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579
2	Ts(B.H. R)	556.5	1	556.5	556.5	556.5	556.5	556.5	556
3	T=(Tw+Ts/2)	0.873	1	0.815	0.824	0.819	0.828	0.829	0.8
4	Z (EST.)	486		454	458	456	461	461	4
5	TZ	6.746	1	7.221	7.147	7.185	7.112	7.106	7.0
6	GH/TZ	1.288		1.311	1.307	1.309	1.306	1.305	1.3
7	eS(TABLE XIV)	1238.3	1	1	1218.6	1180.7	1180.7	1099.7	1099
8	Pf or Ps	1533.4	ł.	l i	1485.0	1394.1	1394.1	1209.3	1209
- 1	Pf2 or Ps2	1190.7	1	1	1135.9	1064.8	1067.7	926.5	928
10	Pc2=Pf/eS or Pw2=Ps2/eS	1190.7		1	1066	1032	1033	963	9
11	Pc or Pw				1142	1106	1107	1031	10
12	F=(Pw+Ps/2)or(Pc+Pf/2)	1165			1.65	1.60	1		1.
13	Pr=(P/Pcr)	1.69	1		1.50	1.50			1.
14 15	Tr(T/Tcr) Z (TABLE XI)	1.50 0.82	i i		0.824	0.828	i		0.8

PW 1: 1082.5 PW 2: 1065.8 PW 3: 1033.3 PW 4: 963.8

Laboratory Services, Inc.

4018 Ficista Drive Hoobs, New Mexico 88840

Telephone: (505) 097-3713

FOF:

Pro Well Testing & Wireling

P. O. Box 791

Hobbs, New Mexico 8241

SAMPLE:

IDENTIFICATION: SAU #1812

COMPANY:

Saga Petroleum

LEASE:

PLANT

REMARKS:

SAMPLE DATA: DATE SAMPLED: ANALYSIS DATE: 8/3/00

8:6/00

GAS (XX)

LIQUID ()

PRESSURE - PSIG

SAMPLED BY:

B. Pena

SAMPLE TEMP. °F

ANALYSIS BY:

Rolland Purry

ATMOS. TEMP. *F

Sample taken @ the meter run.

COMPONENT ANALYSIS

		MOL	
COMPONENT		PERCENT	GPM
Hydrogen Sulfide	(H2S)		
Nitrogen	(N2)	7.374	
Carbon Dloxide	(CO2)	5.501	
Methane	(Ö1)	76.691	
Ethane	(C2)	3.922	1.847
Propane	(C3)	2,909	0.800
I-Butane	(IC4)	0.331	0.108
N-Butane	(NC4)	0.733	0.231
I-Pentane	(IC5)	0.173	0.062
N-Pentane	(NC5)	0.467	0.060
Hexane Plus	(C6+)	material contraction to the contraction of the	0.111
		000.003	8.219

BTU/CU.FT. - DRY 1021 1017 AT 14,650 DRY WET 1000 14.650 DRY 1023 14.73 14.73 WET 1005

SPECIFIC GRAVITY -CALCULATED

MEASURED

9.727

MOLECULAR WT 21.0752