Form 3160-4
(July 1992)

N.M. Oil Cons. Division
1625 N. French Dr.
Hobbs, NM 88240

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE (See other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: NM - 100871

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME, WELL NO.: Bluitt "8" Fed #1

2. NAME OF OPERATOR: OGS Operating Co., Inc.

9. API WELL NO.: 30-041-20893

3. ADDRESS AND TELEPHONE NO.: 550 W. Texas, Suite 1140; Midland, TX 79701 915 682-6373

10. FIELD AND POOL, OR WILDCAT: Bluitt San Andres Asso

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: (N) 900' FSL & 1980' FWL
At top prod. interval reported below
At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec.8, T-8-S, R-37-E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
	11-17-2000	Roosevelt	New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
1-18-2001	1-26-2001	3-14-01	4046GR	4046GR

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
4670 MD	4650 MD		→	Rotary	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 4609-4644 San Andres Pl

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: GR-CNL-CCL

27. WAS WELL CORED: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
85/8"J-55	24.0	422	121/4"	225 SX Circ to surface	None
41/2"J-55	11.6	4670	7 7/8"	665 SX in two stages	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	4596	NA

31. PERFORATION RECORD (Interval, size and number)
4609-4644 0.32" 12 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4609-4644	2500 gal acid, Frac w/15000 gal
	26500# sand

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
3-14-01	Flowing	Shut-In.

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3-14-01	5.25 hrs	12/64"		0	63.9 MCF/D	0	

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
1050	1050		0	886 MCF	0	0

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34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Vented

TEST WITNESSED BY: Lonnie Reddell

35. LIST OF ATTACHMENTS: GR-CNL-CCL log, Deviation Survey Record, ~~NMOCD Multipoint~~ Test

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED James B. "Bill" Stinson TITLE Drilling Superintendent DATE 3-30-2001

*(See Instructions and Spaces for Additional Data on Reverse Side)

JC

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.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Anhydrite	2270'	
Yates	2645'	
San Andres	3902'	
PI Marker	4453'	

Deviation surveys taken on OGS Operating Company, Inc.'s Bluitt 8

Federal #1 well in Lea County, New Mexico:

Depth	Degree
409	.25
876	.50
1373	.50
1864	.75
2361	1.25
2704	1.50
3171	2.00
3326	2.50
3419	1.75
3512	2.00
3606	2.25
3729	2.00
3821	2.00
3916	2.25
4017	2.25
4070	3.25
4164	3.00
4258	3.25
3250	3.25
4670	3.25

I hereby certify that I have personal knowledge of the facts placed on this sheet and that such information given above is true and complete.

John W Norton

UTI Drilling, L.P.

Before me, the undersigned authority, on this day personally appeared John W. Norton, known to me to be the person whose name is subscribed hereto, who, after being duly sworn, on oath states that he is the drilling contractor of the well identified in this instrument and that such well was not intentionally deviated from the vertical whatsoever.

John W Norton

John W. Norton

SWORN AND SUBSCRIBED TO before me this 31st day of January 2001.

Pat Farrell

Notary Public in and for
Lubbock County, Texas.

NOTARY PUBLIC STATE OF TEXAS
PAT FARRELL
Notary Public, State of Texas
My Commission Expires 04-09-2004

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-122
Revised October, 1999

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: OGS Operating				Lease or Unit Name: Bluitt 8 Federal	
Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 03/14/01	Well No.: 1
Completion Date: 03/14/01	Total Depth 4690		Plug Back TD 4650	Elevation gl 4046	Unit Ltr. - Sec. - TWP – Rge. N 8 8 37
Csg. Size: 4 1/2" Wt. 11.6#	D	Set At 4690	Perforations: From: 4609' To: 4644'		County: Rroosevelt, NM
Thg. Size: 2 3/8" Wt. 4.7	D 1995	Set At 4596	Perforations: From: N/A To: N/A		Pool Bluitt San Andres Assoc.
Type Well - Single - Bradenhead - G.G. or G.O. Multiple : Single			Packer Set At : N/A		Formation: San Andres
Producing Thru Tbg.	Reservoir Temp. °F:	Mean Annual Temp. °F: 60	Baro, Press - P_a: 13.2		Connection: Vented
L: 4580	H: 4580	Gg: .740	%CO_2 :	%N_2:	%H_2S: Prover: Meter Run 2" OWT Taps:

FLOW DATA					TUBING DATA		CASING DATA		
No.	Prover Line Size	X Orifice 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	Duration Of Flow
SI						1350		1350		48 + Hrs
1.	2"	x 750	6.4			1210		1210		90 Min
2.	2"	x 750	10.7			1160		1160		75 Min
3.	2"	x 750	18.4			1120		1120		75 Min
4.	2"	x 750	15.8			1050		1050		75 Min
5.										

RATE OF FLOW CALCULATIONS

No.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F pv.	Rate of Flow Q, Mcfd
1.							200
2.			2" OWT				270
3.							376
4.							341
5.							

No.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.		N/A		
4.				
5.				

Gas Liquid Hydrocarbon Ratio_____ Dry Gas Mcf/bbl.
A. P. I. Gravity of Liquid Hydrocarbons_____ Dry_____ Deg.
Specific Gravity Separator Gas____.740_____ XXXXXXXXX
Specific Gravity Flowing Fluid _____XXXXX_____ Gmix=..N/A___
Critical Pressure _____ 667_____ P.S.I.A. ____P.S.I.A.
Critical Temperature____405_____R. _____R

P_c 1363.2 P_{c2} 1858.3

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	N/A	1223.3	1496.4	362.0
2.	N/A	1213.4	1472.4	385.9
3.	N/A	1163.7	1354.1	504.2
4.	N/A	1084.2	1175.4	682.9
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 2.569

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 2.559

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = _____.886

Absolute Open Flow 886 Mcfd@ 15.025 Angle of Slope 0: 45 Slope, n: 1.000

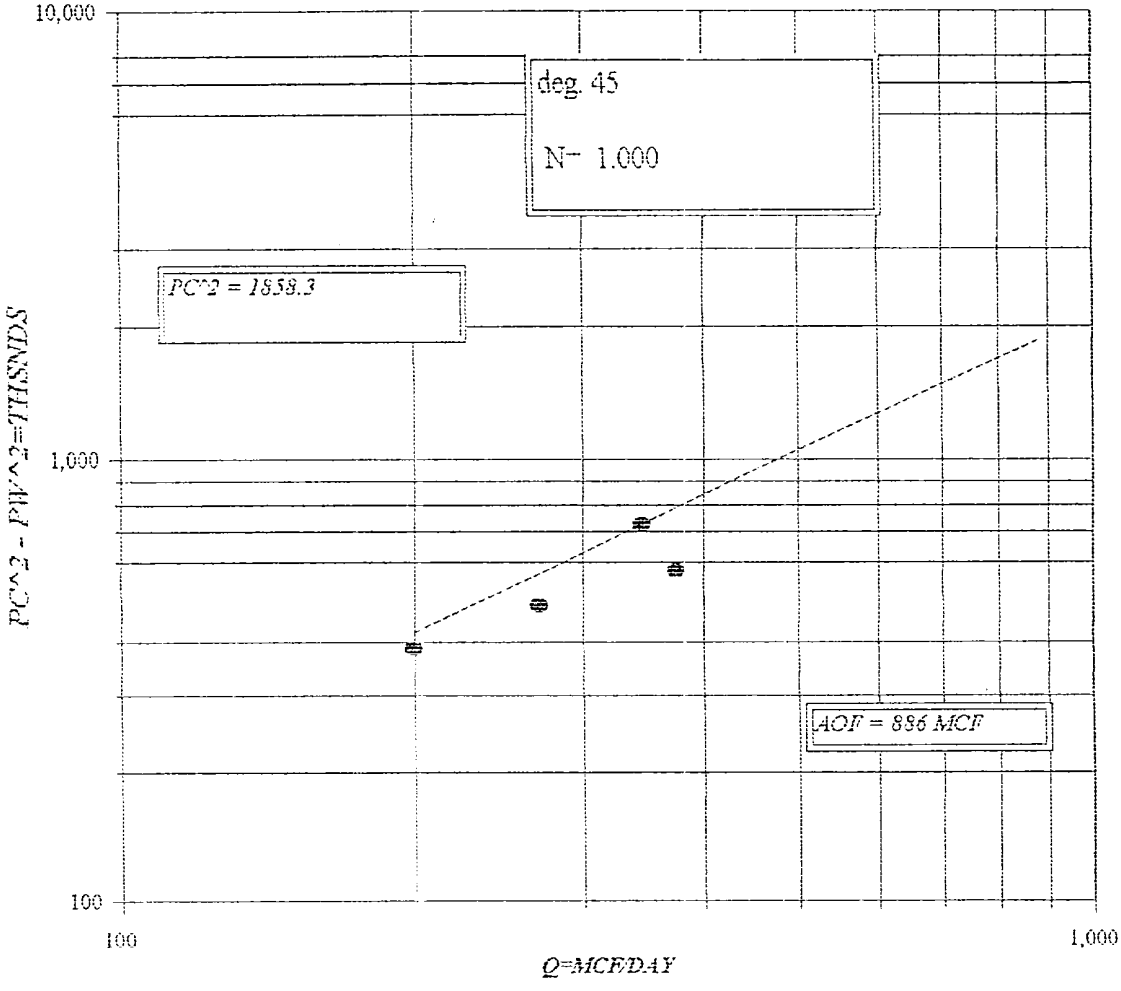
Remarks: _____No fluid produced

Approved By ~~Division~~	Conducted By:	Calculated By:	Checked By:
	Pacific Process Systems, Inc. 505-392-8813	Bob Murray, Independent Consultant 505-395-2349	Bob Murray, Independent Consultant 505-395-2349

APR 02 01

OGS OPERATING

BLUITT 8 FED. # 1



O... ...T : OGS OPERATING LEASE : BLUITT 8 FED. WELL NO. : 1

...NIT : SECTIC TOWNSHIP : 8

L : 4580 H : 4580 L/H : 1 G/GMIX : 0.740

%CO2 : %N2 : H2S : DATE :3 14 01

d : 1.995 Fr :0.018231 GH : 3389.2 RANGE : 37

VOL 1 : 200 PSIA 1 : 1213.2 RESV.TEMP 113.8

VOL 2 : 270 PSIA 2 : 1173.2

VOL 3 : 376 PSIA 3 : 1132.2 SHUT-IN PR= 1363.2

VOL 4 : 346 PSIA 4 : 1063.2

PCR : 667

TCR : 405

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	`1ST	`2ND	`1ST	``2ND	`1ST	`2ND	`1ST	`2ND
1 QM	0.200	0.200	0.270	0.270	0.376	0.376	0.346	0.346
2 TW	534	534	534	534	534	534	534	534
3 Ts	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8
4 T	556.9	556.9	556.9	556.9	556.9	556.9	556.9	556.9
PR (est)	1.82		1.76		1.70		1.59	
5 Z(est)	0.746	0.731	0.753	0.738	0.760	0.745	0.771	0.757
6 TZ	415.6	407.2	419.2	410.8	423.0	414.6	423.6	421.5
7 GH/TZ	8.154	8.324	8.084	8.250	8.012	8.174	7.889	8.041
8 eS	1.358	1.366	1.354	1.363	1.350	1.359	1.344	1.352
9 1-e-S	0.263	0.268	0.262	0.266	0.260	0.264	0.256	0.260
10 Pt	1213.2	1213.2	1173.2	1173.2	1132.2	1132.2	1063.2	1063.2
11 Pt2 /1000	1471.9	1471.9	1376.4	1376.4	1281.9	1281.9	1130.4	1130.4
12 Fr	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.0182311
13 Fc=FrTZ	7.578	7.423	7.643	7.489	7.712	7.560	7.832	7.684
14 FcQm	1.52	1.48	2.06	2.02	2.90	2.84	2.71	2.66
15 L/H(FcQm)	2.3	2.2	4.3	4.1	8.4	8.1	7.3	7.1
16 Pw	0.605105	0.590953	1.113701	1.088050	2.182106	2.132821	1.880543	1.8402408
17 Pw2	1472.5	1472.4	1377.5	1377.5	1284.1	1284.0	1132.3	1132.2
18 Ps2	1999.1	2011.9	1865.3	1877.0	1734.1	1744.6	1522.1	1530.7
19 Ps	1413.9	1418.4	1365.8	1370.0	1316.8	1320.8	1233.7	1237.2
20 P	1313.6	1315.8	1269.5	1271.6	1224.5	1226.5	1148.5	1150.2
21 Pr	1.97	1.97	1.90	1.91	1.84	1.84	1.72	1.72
22 Tr	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
23 Z	0.731	0.731	0.738	0.737	0.745	0.744	0.757	0.757

Pc = 1363.2 Pc2 = 1858.3 *

Pt2 = 1471.9 Pw = 1213.4 *
1376.4 1173.7 *
1281.9 1133.1 *
1130.4 1064.1 *

Pc2-Pw2= 385.9 Pw2 = 1472.4 *
480.8 1377.5 *
574.3 1284.0 *
726.1 1132.2 *

n = 1.000 ✓

Pc2/(Pc2-Pw2) = 4.816
3.865
3.236
2.559 ✓

[Pc2/Pc2-Pw2]n = 4.816
3.865
3.236
2.559 ✓

AOF= Q 0.963
1.044
1.217
0.886 ✓

FORM C122-D

PACIFIC PROCESS SYSTEMS, INC.

Hobbs, New Mexico

505-392-8813

Company: OGS OPERATING					Company Representative: PHIL STINSON					
Lease Name & No.:BLUITT 8 FED # 1					Test Date & Time: 3/14/01 12:45 thru 17:00					
County: ROOSEVELT		State: N.M.			Elevation: 4046'		Formation: SAN ANDRES			
Unit:		Section:			Township: 8 SOUTH			Range: 37 EAST		
Test Type: Initial___ Annual___ Spec.___				Type of Well Tested:						
Completion Date: 3/14/01		TD @			PBTD @			Packer Set At: NO PACKER		
Connection:		Meter Run Size:2"						Taps:		
Casing Size: 4.5"	Casing Wt.: 11.6		Casing Dia.:		Casing Set At:					
Tubing Size: 2.375	Tubing Wt.: 4.7		Tubing Dia.:		Tubing Set At:. 4580					
Perforations From: 4609'		To: 4644'			Meter Type: ORIFICE METER					
Producing Through: TUBING					Gas Gravity: 0.740		Oil Gravity:		H2O Chl.:	

Time Date	Elapse Time	Tubing Pressure	Casing Pressure	W/H Temp. (F)	Meter or Prover Press.		Temp.	Orfice. Size In.	Choke Size 64ths	MCF per day
3/14/01										
12:45	0	1350			n/a				6/64"	
13:00	15	1200			1.3		52		3/64"	86
13:15	30	1200			1.7		52	3/4"	3/64"	99
13:30	45	1200			1.7		52	3/4"	3/64"	99
13:45	60	1210			1.4		52	3/4"	3/64"	90
14:00	75	1210			1.9		52	3/4"	3/64"	105
14:15	90	1210			6.4		53	3/4"	8/64"	200
14:30	105	1205			6.7		53	3/4"	8/64"	206
14:45	120	1200			5.1		53	3/4"	8/64"	177
15:00	135	1190			6.9		53	3/4"	8/64"	209
15:15	150	1180			10.3		51	3/4"	11/64"	268
15:30	165	1160			10.7		51	3/4"	11/64"	270
15:45	180	1150			9.9		51	3/4"	11/64"	257
16:00	195	1140			10.4		51	3/4"	11/64"	265
16:15	210	1120			18.4		40	3/4"	12/64"	376
16:30	225	1100			17.5		40	3/4"	12/64"	364
16:45	240	1070			16.7		40	3/4"	12/64"	353
17:00	255	1050			15.8		40	3/4"	12/64"	341

NOTE: MCF per day rates are based on 14.65 psia, 60 deg. F, 0.600 sp.gr. and need correction.

Total Flow At Beginning Of Test: SHUT IN			Total Flow At End Of The Test:	
Total Gas Produced:	Total Water Produced:		Total Oil Produced:	
1st. Drawdown:	2nd Drawdown:	3rd. Drawdown:	4th Drawdown:	5th. Drawdown:
Test Conducted By: ALAN GEORGE				

Absolute Open Flow
Field Data Sheet