

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool BASIN DAKOTA Formation DAKOTA County SAN JUAN
 Initial _____ Annual _____ Special _____ Date of Test 3/22/62
 Company ARTEL OIL & GAS CO Lease GRENIER Well No. 3-13
 Unit K Sec. 5 Twp. 29N Rgn. 10W Purchaser _____
 Casing 4 1/2 in. 9.5 lb. 4.090 Set at 6630 Perf. 6634 To 6786
 Tubing 2 3/4 in. 4.2 I.D. 1.995 Set at 6590 Perf. Pin Collar To _____
 Gas Pay: From 6634 To 6786 L. 6590 M. 70 (60) GL. 4613 Bar. Press. 12
 Producing Thru: Casing _____ Tubing 1 Type Well SINGLE
 Date of Completion: 3/19/62 Packer _____ Single-Bradenhead-G. G. or G.O. Dual
 Reservoir Temp. _____

OBSERVED DATA

Tested Through (Regulator) (Choke) (Meter) Type Taps _____

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.
	(Regulator) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	
1.	9 1/4 in.					1970	1965	9
2.	2 1/2 in.	.750				122	108 (60)	3 hrs.
3.								
4.								
5.								

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.365		134	1.000	.9258	1.016	1.559
2.							
3.							
4.							
5.							

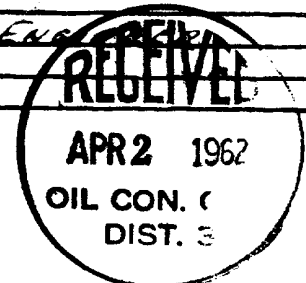
PRESSURE CALCULATIONS

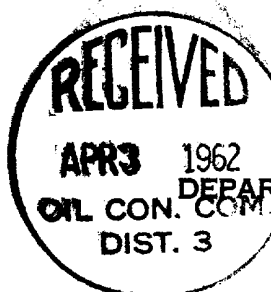
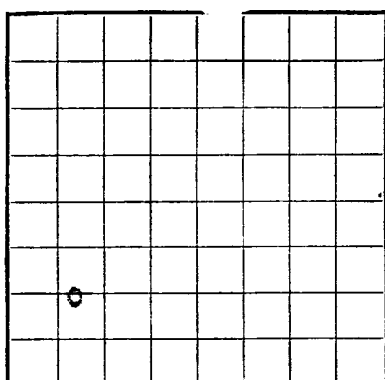
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 P_c _____ (1-e^{-B})
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 1977 P_c 3,908,549

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-B})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.	546					298,116	3,610,413		
2.									
3.									
4.									
5.									

Absolute Potential: 16.55 MCFPD; n .75
 COMPANY ARTEL OIL & GAS CO
 ADDRESS DIVISION 520 FARMINGTON, NEW MEXICO
 AGENT and TITLE B. M. T. Mearns DISTRICT ENGINEER
 WITNESSED _____
 COMPANY _____

REMARKS



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSanta Fe
U. S. LAND OFFICE
SERIAL NUMBER
LEASE OR PERMIT TO PROSPECT

NM 03561

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Artec Oil & Gas Company Address Traver / 570, Farmington, New Mex.
Lessor or Tract Greiner Field Basin Dakota State New Mexico
Well No. 5-2 Sec. 29N R. 10E Meridian N.M.P.M. County San Juan
Location 1050 ft. S. of Line and 1050 ft. E. of Line of Section 5 Elevation 5775 G.L.
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Date March 27, 1962 Signed ORIGINAL SIGNED BY JOE C. SALMON Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling 2/21/62, 1962 Finished drilling 3/12/62, 1962

OIL OR GAS SANDS OR ZONES

No. 1, from 5634 to 5660 (G) No. 4, from _____ to _____
No. 2, from 5690 to 5702 (G) No. 5, from _____ to _____
No. 3, from 5762 to 5786 (G) No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8 5/8	21	3	J-55	282					
4 1/2	12.5	3	J-55	657					
2 3/8	6.7	3	J-55	650					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	294	225	displacement		
4 1/2	6830	730	two plug		
2 3/8	6990				

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Sand-water fraced with 65,940 gals. water, 67,000 sand, flushed with 130 bbls. Breakdown pr.- 2100, Avg. treating pr.- 2600, Max. treating pr.- 3200 Avg. f.f. - 36.7 ft., dropped 10" rubber ball sealers, instant shut in pr.- 1100 P.B.F.D.-6016						

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

3/15/62, 1962 Put to producing _____, 1962

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment.

If gas well, cu. ft. per 24 hours ACF- 1555 Gravity, °Bé. _____

Rock pressure, lbs. per sq. in. 1970 Gallons gasoline per 1,000 cu. ft. of gas _____

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	300	300	surface
300	722	422	sand and shale
722	1265	543	sand and shale
1265	1985	720	sand and shale
1985	2373	388	sand and shale
2373	2875	502	sand and shale
2875	3311	436	sand and shale
3311	3517	206	sand and shale
3517	3925	408	sand and shale
3925	4463	538	sand and shale
4463	4674	211	sand and shale
4674	4802	128	sand and shale
4802	4911	109	sand and shale
4911	5288	377	sand and shale
5288	5496	208	sand and shale
5496	5793	297	sand and shale
5793	6111	318	sand and shale
6111	6268	157	sand and shale
6268	6581	313	sand and shale
6581	6672	91	sand and shale
6672	6766	94	sand and shale
6766	6850	84	sand and shale
FROM—	TO—	TOTAL FEET	FORMATION

P. CLIFFS-2170
CLIFF HILL- 3754
P. LAURET- 1448
GALLUP- 5690
GREENHORN- 6047
CHAMBERS- 6506
DAKOTA- 6630

FORMATION RECORD—Continued