

NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 12-1-55

Pool Basin Dakota		Formation Dakota			County Hio Arriba	
Initial Yes	Annual no	Special no	Date of Test 10-2-65			
Company Caulkins Oil Company		Lease Breach "A"		Well No. 682 (D)		
Unit K	Sec. 10	Twp. 26 N	Range 6 W	Purchaser Southern Union Gas Company		
Casing 4 1/2"	Wt. 10.5 & 11.6	I.D. 4.00	Set at 7484	Perf. 7166	To 7436	
Tubing 2-3/8"	Wt. 4.7	I.D. 1.995	Set at 7150	Perf. 7150	To 7150	
Gas Pay:	From 7166	To 7436	L	G	GL 12	
Producing Through:		Casing no	Tubing yes	Type Well - Single - Braden head - G.G. or G.O. Dual single gas well		
Date of Completion 9-22-65		Packer none	Reservoir Temp. 185 F			

OBSERVED DATA

Tested Through:						Type of Taps pipe				
Prover <input type="checkbox"/>		Choke <input checked="" type="checkbox"/>		Meter <input type="checkbox"/>						
FLOW DATA					TUBING DATA		CASING DATA		DURATION OF FLOW HR.	
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
SI	9 days					2434		2358		
1.		.75"	480			470		1192		3 hours
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w P_t}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCF PD @ 15,025 psia
1.	14.1605		482	1.000	1.000	1.039	7091
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas _____
 Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
 F_c _____ (1-e^{-S}) _____ P_c **2370** P_c² **5,616,900**

No.	$\frac{P_w}{P_t}$ psia	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _w ²	P _c ² - P _w ²	Cal P _w	$\frac{P_w}{P_c}$
1.	1204					1,449,616	4,167,284		.508
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **8881** MCFPD; n (1.35)n **1.2524**

COMPANY **Caulkins Oil Company** WITNESSED _____
 ADDRESS **Box 388, Farmington, N. M.** COMPANY _____
 AGENT AND TITLE **Frank [Signature]** Superintendent



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NEW MEXICO OIL CONSERVATION COMMISSION
 REQUEST FOR ALLOWABLE
 AND
 AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
 Supersedes Old C-104 and C-110
 Effective 1-1-65

TRANSPORTER CHANGED FROM SHELL OIL COMPANY TO SHELL PIPE LINE CORPORATION EFFECTIVE 12/31/69

I. OPERATOR

Operator: **Caulkins Oil Company**

Address: **P. O. Box 780, Farmington, New Mexico**

Reason(s) for filing (Check proper box):
 New Well:
 Recompletion:
 Change in Ownership:
 Change in Transporter of:
 Oil:
 Casinghead Gas:
 Dry Gas:
 Condensate:

Other (Please explain): **The number of this well has been changed from D-182 to 682 (D) as requested by N. M. Oil Conservation Commission**

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name Breesh "A"	Well No. 682	Pool Name, Including Formation Basin Dakota	Kind of Lease State, Federal or Fee Federal
Location: Unit Letter K ; 1680 Feet From The West Line and 1640 Feet From The South			
Line of Section 10 , Township 26 North Range 6 West , NMPM, Rio Arriba County			

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Shell Oil Company	Address (Give address to which approved copy of this form is to be sent) P. O. Box 1588, Farmington, New Mexico
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/> Southern Union Gas Company	Address (Give address to which approved copy of this form is to be sent) Fidelity Union Tower Building 1507 Pacific Avenue, Dallas 1, Texas
If well produces oil or liquids, give location of tanks. Unit C Sec 9 Twp 26N Rge 6W	Is gas actually connected? When No 12-1-65

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					
Date Spudded 8-14-65	Date Compl. Ready to Prod. 9-23-65	Total Depth 7485	P.B.T.D. 7440					
Pool Basin Dakota	Name of Producing Formation Dakota	Top Oil/Gas Pay 7166	Tubing Depth 7150					
Perforations 7166-7194, 7300-7314, 7370-7380, 7390-7408, 7427-7436			Depth Casing Shoe 7483					
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
13-3/4"	9-5/8"		469'		325			
7-7/8"	4-1/2"		7483'		800			
	2-3/8"		7150					

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil has been equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)
Length of Test	Tubing Pressure	Casing Pressure
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.

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 DIST. 3

GAS WELL

Actual Prod. Test-MCF/D 7091	Length of Test 3 hours	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.) 1 pt. BP	Tubing Pressure 2834-470	Casing Pressure 2358-1192	Choke Size .75"

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Frank Gray
 Superintendent
 November 22, 1965

OIL CONSERVATION COMMISSION

APPROVED **NOV 26 1965**, 19____
 BY **Original Signed Emery C. Arnold**
 TITLE **Supervisor Dist. # 8**

This form is to be filed in compliance with RULE 1104.
 If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
 All sections of this form must be filled out completely for allowable on new and recompleted wells.
 Fill out Sections I, II, III, and VI only for changes of owner, well name or number, or transporter, or other such change of condition.
 Separate Forms C-104 must be filed for each pool in multiply

Caulkins Oil Company
Breech "A" Well Number 682 (D)
SW $\frac{1}{4}$ Section 10-26N-6W

Deviation Tests:

<u>Depth</u>	<u>Deviation from Vertical (Degrees)</u>
465	1
921	1
1425	1
1738	3/4
2240	1
2449	1
2925	1
3434	1
3651	1
3905	1
4387	1 $\frac{1}{4}$
4880	3/4
5222	3/4
5500	3/4
6421	1
6742	1 $\frac{1}{4}$
7060	3/4

Frank Gray

