

DISTRICT II

P.O. Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Submit original and 4 copies to the
appropriate district office.

DISTRICT III

1000 Rio Hrazos Road, Aztec, NM 87410

APPLICATION FOR APPROVAL TO USE AN ALTERNATE GAS MEASUREMENT METHOD
Rule 403.B(1) or (2)

Operator Name: SCHALK DEVELOPMENT CO. Operator No. _____

Operator Address: P.O. Box 25825 Albuquerque, NM 87125

Lease Name: SCHALK 94 #3 Type: State _____ Federal X Fee _____

Location: SW 1/4 SW 1/4 Section 26, T-32N, R-8W

Pool: Albino Canyon Pictured Cliffs

Requested Effective Time Period: Beginning after approval by OCD Ending when well plugged

APPROVAL PROCEDURE: RULE 403.B.(1)

Please attach a separate sheet with the following information.

- 1) A list of the wells (including well name, number, ULSTR location, and API No.) included in this application.
- 2) A one year production history of each well included in this application (showing the annual and daily volumes).
- 3) The established or agreed-upon daily producing rate for each well and the effective time period.
- 4) Designate wells to be equipped with a flow device (required for wells capable of producing 5 MCF per day or more).
- 5) The gas transporter(s) connected to each well.

APPROVAL PROCEDURE: RULE 403.B.(2)

Please attach a separate sheet with the following information.

A separate application is required for each Central Point Delivery (CPD).

Working Interest, royalty and overriding royalty ownership must be common for all wells to be connected to the subject CPD.

- 1) An ownership plat showing a description of the lease and all of the wells to be produced through this CPD.
 - a) List the wells which will be metered separately, including API No.
 - b) List the wells which will not be metered separately, including API No.
- 2) Describe the proposed method of allocating production from non-metered wells.
- 3) A one year production history of the wells which will not be metered showing the annual and daily volumes.
- 4) The gas transporter(s) connected to this CPD.

Applicant will be responsible for filing OCD Form C-111 for the CPD.

OPERATOR

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

Signature: Printed Name & Title: Steve Schalk,
General Manager

OIL CONSERVATION DIVISION

This approval may be cancelled at anytime that operating conditions indicate that re-tests may be necessary to prevent waste and protect correlative rights.

Approved Until: Further NoticeBy: ORIGINAL SIGNED BY ERNIE BUSCHTitle: DEPUTY OIL & GAS INSPECTOR, DIST. #3RECEIVED
APR 18 1994
OIL CON. DIV.
DIST. 3

SURFACE COMMINGLING PLAN

SCHALK 94 #3
and
SCHALK 94 #2

SW 1/4 SW 1/4 Section 26, T- 32N, R-8W
Rio Arriba County, New Mexico

On June 19, 1993 Schalk Development Co. re-completed the Schalk 94 #3 well in the Albino Canyon Pictured Cliffs formation. The well was fractured with 210 barrels gelled water and 45,000 pounds 20-40 sand and 273,882 SCF nitrogen. The well was flowed back for 51 hours between June 19 and 25, 1993 into a reserve pit. Estimated water flowed back during this time was 700 barrels. On June 29, 1993 a 400 barrel tank was placed on location and the well blew continually until July 12, 1993 producing 493 barrels of water. The last three days the well produced 20 barrels of water per day, and we felt that this was as clean as the well would get and we shut the well in.

The test data accompanying this report indicates this well will make a substantial amount of water and 10 to 20 MCFD gas, and that the water will be difficult to produce.

After analysis of the well tests and other data from this well, we felt that we could not justify the costs of production and measurement related equipment to tie the well into a pipeline. To control cost and still be able to produce some gas from this well we contacted Williams Field Services about flowing gas from this well through a Schalk well that is on the same well pad as the Schalk 94 #3. Williams was agreeable to this plan as long as ownership and royalties are the same for the two wells (which they are).

We are asking for approval to use an alternate gas measurement method to be used on the Schalk 94 #3 and flow gas from this well and measure gas from this well using the measurement equipment on the Schalk 94 #2 well, thereby making the Schalk 94 #3 and Schalk 94 #2 a central point of delivery as defined in Rule 403.B.(2).

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We feel that we can obtain and maintain the correct measurement data by operating the well in the following manner:

1. Schalk 94 #2 is operated by a stopclock which turns the well on and off at programmed times. Between the hours of 9:00 a.m. and 3:00 p.m. each day (6 hours) the Schalk 94 #2 well is turned off.
2. When the Schalk 94 #2 well is turned off during the 6 hour time period we will produce the Schalk 94 #3 for 2 to 4 hours daily, depending on how long we can keep the differential pen on chart for proper measurement.
3. Flow data for the Schalk 94 #3 will be estimated at the end of every chart period. This data will then be reported on a C-111 form each month.
4. We feel that we can operate these two wells in this manner, and still maintain quality measurement that is satisfactory to all parties involved.

We ask that you examine all data accompanying this report and grant approval to operate these wells under Rule 403. B. (2).

APPROVAL PROCEDURE: RULE 403.B.(2)

Please attach a separate sheet with the following information.

A separate application is required for each Central Point Delivery (CPD).
Working interest, royalty and overriding royalty ownership must be common for all wells to be connected to the subject CPD.

- 1) An ownership plat showing a description of the lease and all of the wells to be produced through this CPD.
 - a) List the wells which will be metered separately, including API No. ← 94 # 2
 - b) List the wells which will not be metered separately, including API No. ← 94 # 3
- 2) Describe the proposed method of allocating production from non-metered wells. ✓
- 3) A one year production history of the wells which will not be metered showing the annual and daily volumes. ✓ A
- 4) The gas transporter(s) connected to this CPD. Williams Field Service

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test <input type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special Test Date 7-20-93				<div style="border: 2px solid black; padding: 5px; font-weight: bold; font-size: 1.2em;">RECEIVED</div> <div style="text-align: center;">APR 18 1994</div>	
Company Schalk Development Co. Connection New Completion					
Pool Albino Canyon Formation Pictured Cliffs				OIL CON. DIV. DIST. 3 Schalk 94	
Completion Date 6-19-93 Total Depth 3957' Plug Back TD 3957' Elevation 6881'					
Csg. Size 2.875 WI. 6.40		Set At 3957'		Perforations: From 3826' To 3927'	
Tbg. Size WI. d		Set At		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple GAS - SINGLE				Packer Set At	
Producing Thru CSG.		Reservoir Temp. °F		Mean Annual Temp. °F	
L H Gg		% CO ₂ % N ₂ % H ₂ S		Prover 3/4" choke	
County SAN JUAN				State NEW MEXICO	
Meter Run Taps				Unit Sec. Twp. Rge. 26 32 8	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	2	X	.750				912				SIP
1.							7				3 hrs.
2.											
3.											
4.											
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, Fpv	Rate of Flow Q, Mcfd
1	9.604		19	1.000	1.000	1.000	182
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _i ²	P _w ²	P _w ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{P_c^2 - R_w^2} =$ _____ (2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n =$ _____ ACF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n =$ _____
1					
2					
3					
4					

Absolute Open Flow _____ Mcfd @ 15.025		Angle of Slope θ _____		Slope, n _____	
Remarks: _____					

SUGGESTED FIELD DATA SHEET (Not Required To File)

Type Test <input type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special		Test Date 7-20-93	Lease No. or Serial No.
Company Schalk Development		Connection New	Allottee
Field Albino Canyon PC	Reservoir	Location	Unit
Completion Date 6-19-93	Total Depth 3957'	Plug Back TD 3957'	Elevation 6881'
Csg. Size 2.875	Wt. 6.40	Set At 3957'	Perforations: From 3826'
Tqg. Size	Wt.	Set At	Perforations: From
Type Completion (Describe)		Packer Set At	Form or Lease Name Schalk 94
Producing thru CSG.	Reservoir Temp. F	Mean Annual Temp. F	Baro. Press. - P _a
H		C _g	% CO ₂
		% N ₂	% H ₂ S
		Prover 3/4" choke	Meter Run
		Taps	State N.M.

DATE Time of Reading	ELAP. TIME Hrs.	Wellhead Working Pressure			METER OR PROVER				REMARKS (Include liquid production data; Type—A.P.I. Gravity—Amount)
		Tbq. Palg.	Csg. Palg.	Temp. F	Pressure Palg.	Diff.	Temp. F	Orifice	
2:50 PM	0				912			3/4"	SIP
3:07					61				Dry GAS
3:15					29				Dry GAS
3:20					23				Dry GAS
3:35					8				Dry GAS
3:45					7				wet GAS (slugging)
3:50					0-14				" " "
4:30					0-14				" " "
5:30					0-14				" " "
5:50					0-14				" " "
5:50									shut well in
5:55					53				
6:00					79				
6:05					104				

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Date By

Jack Evans

