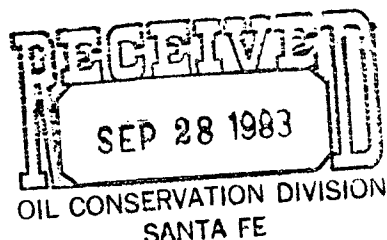




Southland Royalty Company

September 26, 1983

Mr. Joe D. Ramey
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501



RE: Downhole Commingling
SRC - Hubbard #6 (Frt/PC)
SW/4, Section 15, T32N, R12W
San Juan County, New Mexico

Dear Mr. Ramey:

Southland Royalty Company requests permission to downhole commingle production from the Fruitland and Pictured Cliffs formations in this dual well. The Fruitland formation can not continuously produce enough gas to lift the oil it produces. With the additional gas from the Pictured Cliffs formation, we feel that the Fruitland oil will be produced with fewer problems.

The gas produced from each zone is similar, and the Fruitland oil produced should have no adverse effect on the Pictured Cliffs formation. Bottom hole pressures are similar for the two formations, and there will be no crossflow between the zones, therefore no production will be lost.

Production allocation between the two zones was determined from the decline curves and cumulative production from each zone. Proposed allocation is as follows:

Oil Production	100% Fruitland
Gas Production	85% Fruitland
	15% Pictured Cliffs

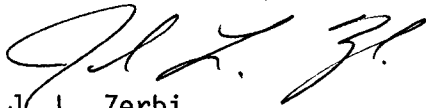
Mr. Joe D. Ramey
Page Two
September 26, 1983

Royalty ownership in both zones of the well is identical. The well is currently unproductive and no current 24 hour productivity test can be supplied, therefore we have included the original multipoint production test data. In addition, copies of gas analysis from each zone, decline curves, production plat, and miscellaneous data are included with this package for your information.

A copy of this application has also been sent to the Bureau of Land Management and all offset operators.

Sincerely,

SOUTHLAND ROYALTY COMPANY

A handwritten signature in dark ink, appearing to read "J. L. Zerbi", written in a cursive style.

J. L. Zerbi
Petroleum Engineer

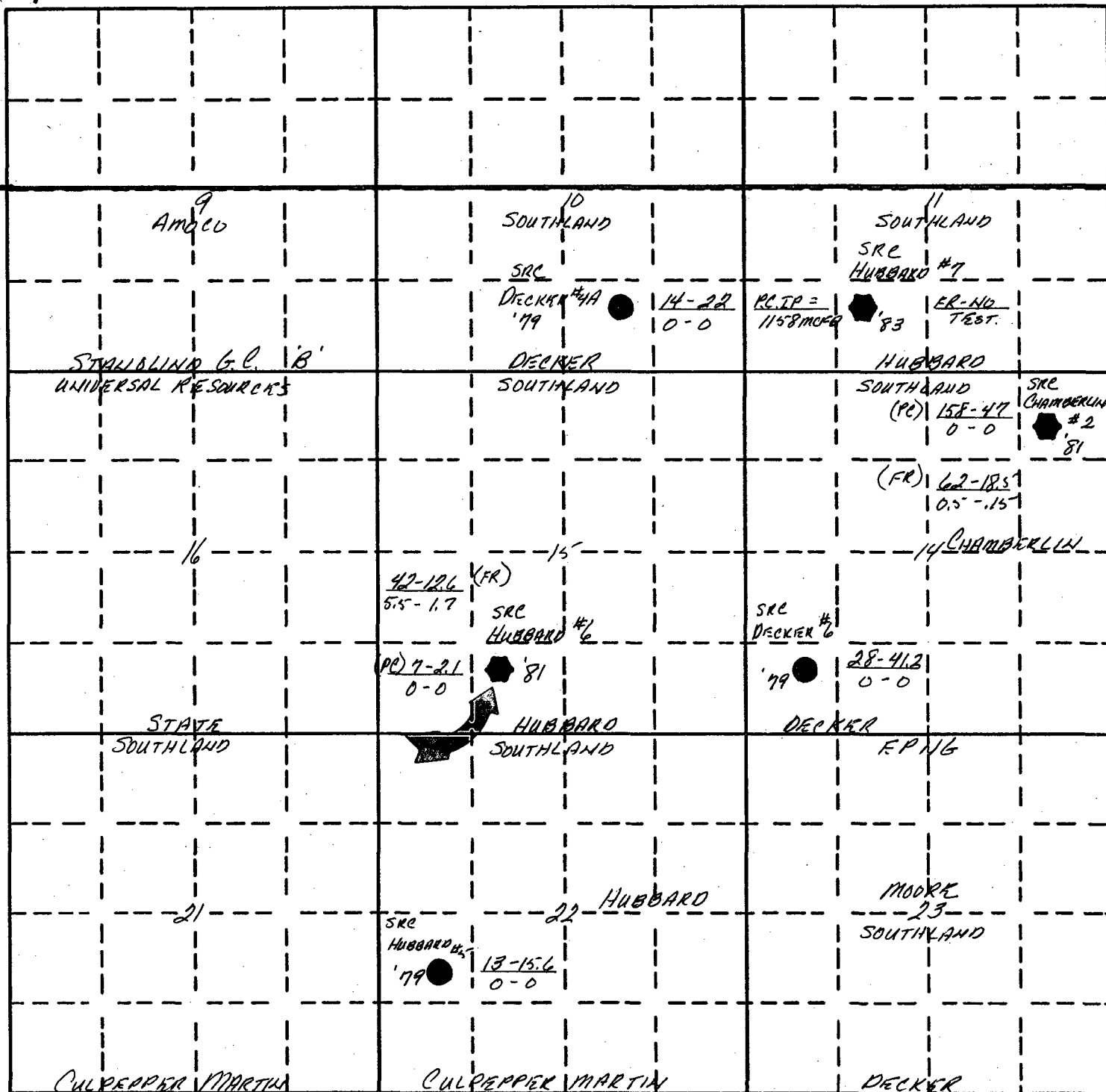
JLZ/eg

Enclosures

MISCELLANEOUS DATA

Fruitland Bottom Hole Pressure	=	1086 psi
Pictured Cliffs Bottom Hole Pressure	=	1014 psi
Fruitland Oil Gravity	=	43° API

R-12-W

C
O
L
6N
M.

S.R.C.



F.R.-P.C. DUAL



P.C. SINGLE

SOUTHLAND ROYALTY COMPANY

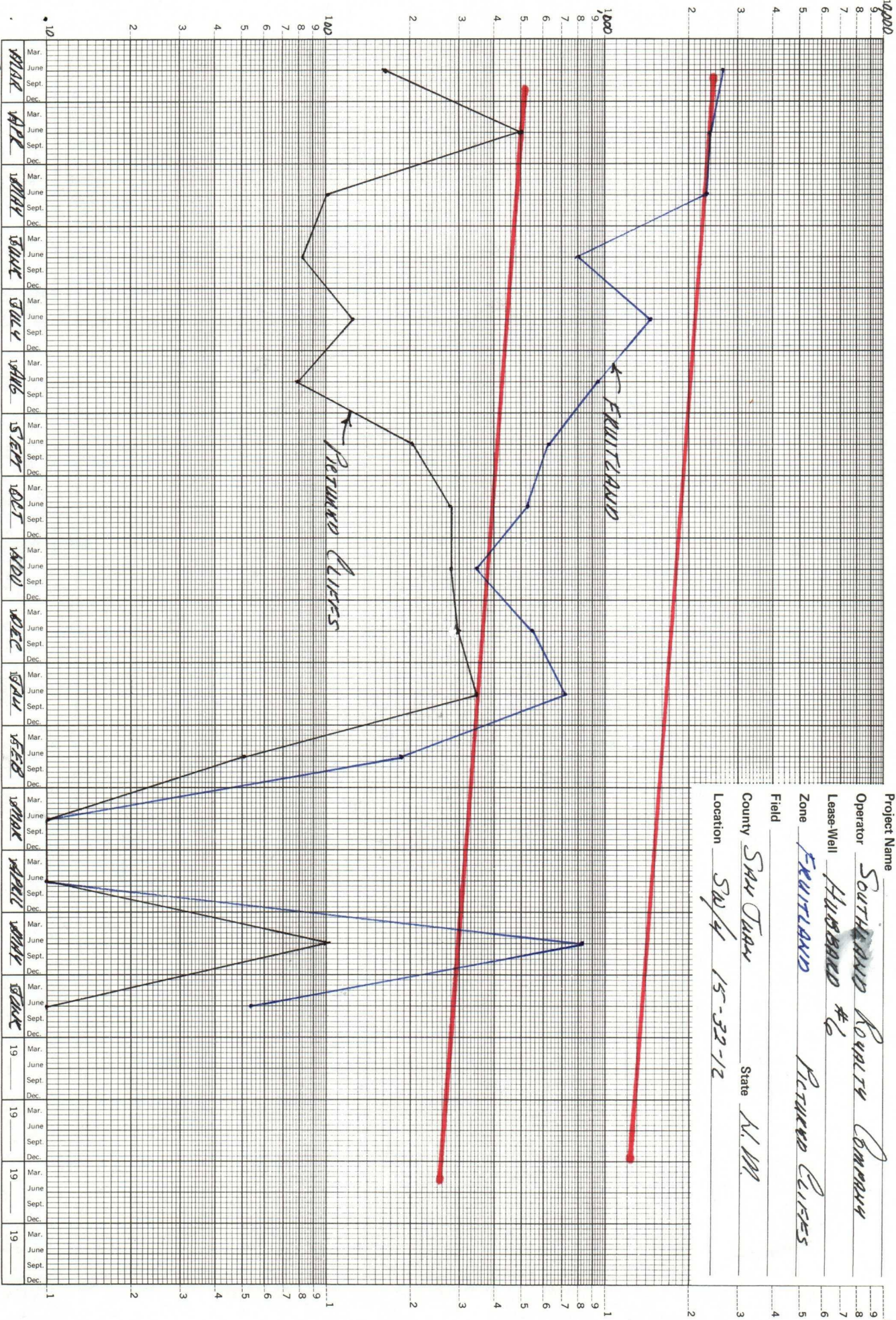
AREA					
HUBBARD #6					
LOCATION					
S10/4 15-32-12					
TYPE OF MAP					
PRODUCTION PLAT					
CONTOURED				C.I.	
BY	DATE	REVISED BY	DATE	REFERENCE	DATE
NOTES					
MCFD - M ² CF					
BOPD - MBO					
COMPLETION DATE					

PRODUCTION FIGURES THROUGH 12/82



Southland Royalty Company

Project Name SOUTHLAND ROYALTY COMPANY
Operator HUBBARD #6
Lease-Well FRUITLAND
Zone PICTURED CLIFFS
Field _____
County SAN JUAN State N.M.
Location SW/4 15-32-12



SOUTHERN UNION GATHERING COMPANY
REPORT OF BTU TEST RESULTS

TO: SOUTHLAND ROYALTY CO (826)

REF: HUBBARD 6 PC
9250
NORTHWEST NEW MEXICO (70)

DATE OF THIS TEST: 11/07/82

DATE OF LAST TEST: 10/07/82

TEST FREQUENCY: 12

RESULTS: SPECIFIC GRAVITY: 0.6456
BTU/CF @ 14.73/60F/DRY: 1149.2

	MOL %	G. P. M.
CARBON DIOXIDE	0.164	0.0000
NITROGEN	0.274	0.0000
METHANE	88.920	0.0000
ETHANE	5.770	1.5420
PROPANE	2.946	0.8100
ISOBUTANE	0.593	0.1930
N-BUTANE	0.711	0.2240
ISOPENTANE	0.278	0.1010
N-PENTANE	0.190	0.0680
HEXANE +	0.161	0.0700
	-----	-----
TOTAL	100.007	3.0080

SOUTHERN UNION GATHERING COMPANY
REPORT OF BTU TEST RESULTS

TO: SOUTHLAND ROYALTY CO (826)

REF: HUBBARD 6 Jrt
9327
NORTHWEST NEW MEXICO (70)

DATE OF THIS TEST: 11/07/82
DATE OF LAST TEST: NO PRIOR TEST
TEST FREQUENCY: 12

RESULTS: SPECIFIC GRAVITY: 0.6465
BTU/CF @ 14.73/60F/DRY: 1151.1

	MOL %	G. P. M.
CARBON DIOXIDE	0.162	0.0000
NITROGEN	0.252	0.0000
METHANE	88.950	0.0000
ETHANE	5.750	1.5370
PROPANE	2.946	0.8100
ISOBUTANE	0.597	0.1950
N-BUTANE	0.712	0.2240
ISOPENTANE	0.279	0.1020
N-PENTANE	0.193	0.0690
HEXANE +	0.190	0.0830
	-----	-----
TOTAL	100.031	3.0200

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL 1003

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 10-30-80			
Company Southland Royalty Company				Connection Southern Union Gathering			
Pool Blanco				Formation Pictured Cliffs			
Completion Date 8-22-81		Total Depth 2685'		Plug Back TD 2624'		Elevation 6090' GR	
Csg. Size 4.500		Wt. 10.5#		Set At 4.052		Perforations: From To	
Thq. Size 1.900		Wt. 2.9#		Set At 1.610		Perforations: From 2486' To 2510'	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple - G.G.				Packer Set At 2399'		Unit File Only	
Producing Thru Tubing		Reservoir Temp. °F B		Mean Annual Temp. °F		Baro. Press. - P _a 12.2	
L		H		G _g .700		% CO ₂	
				% N ₂		% H ₂ S	
				Prover		Meter Run	
						Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
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.	
SI							924			
1.	2"	X	3/8"				80			1 hr
2.							48			2 hrs
3.							36			3 hrs
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{$					



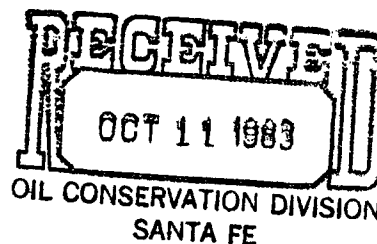
STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

OIL CONSERVATION DIVISION
BOX 2088
SANTA FE, NEW MEXICO 87501

DATE 10-5-83

RE: Proposed MC _____
Proposed DHC x _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____



Gentlemen:

I have examined the application dated 9-27-83
for the Southern Royalty Co. Hubbard #6 N-15-32N-12W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours truly,

Frank J. Long